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Density and Standing Crop Estimates

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E-209	Regional density (no./1,000 m^3) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2004
E-210	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2004
E-211	Regional catch-per-unit-effort of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2004
E-212	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2004
E-213	Regional density (no./1,000 m^3) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2004
E-214	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2004
E-215	Regional density (no./1,000 m^3) of weakfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2004
E-216	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2004

APPENDIX E

LIST OF TABLES (CONTINUED)

Number	Title
E-217	Regional catch-per-unit-effort of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2004
E-218	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2004
E-219	Regional density (no./1,000 m^3) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2004
E-220	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2004
E-221	Regional density (no./1,000 m^3) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2004
E-222	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2004
E-223	Regional catch-per-unit-effort of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2004
E-224	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2004

TABLE E-1 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	48.46	0.00	0.00	0.00	279.49	318.97	144.80	266.75	233.69	48.38	0.00	0.00	103.12
06MAY	SE	0.00	48.46	0.00	0.00	0.00	61.44	177.88	50.55	81.80	73.43	20.79	0.00	0.00	229.86
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.73	0.00	0.00	1.00	65.81	2490.88	3306.40	3137.00	245.81	39.14	91.11	1.70	0.00	721.51
12MAY	SE	0.73	0.00	0.00	0.53	31.05	1231.80	1094.69	2873.75	86.76	11.00	76.48	1.70	0.00	3314.90
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.31	0.43	0.55	14.73	49.44	1595.10	4177.48	1773.03	1847.21	357.89	130.32	22.49	2.01	767.00
21MAY	SE	0.31	0.43	0.29	7.75	23.70	907.85	1442.97	556.11	711.87	280.74	35.64	9.37	1.45	1950.17
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	53.75	0.00	2.71	4.47	53.26	517.86	189.83	542.05	242.06	14.33	118.29	106.43	0.00	141.93
28MAY	SE	38.01	0.00	1.97	2.57	7.89	199.03	65.47	199.95	172.54	12.30	56.17	66.58	0.00	350.57
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	7.51	2.44	25.43	27.68	54.86	44.19	25.99	11.46	78.13	25.91	1.12	23.44
04JUN	SE	0.00	0.00	6.62	1.68	17.41	13.23	12.69	14.72	11.57	6.79	27.74	15.49	1.12	45.75
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-1 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	7.40	4.25	15.55	32.99	14.08	12.44	7.03	8.26	0.52	4.62	8.24
10JUN	SE	0.00	0.00	0.00	6.10	2.04	7.91	11.60	7.08	8.23	6.04	3.65	0.52	2.50	20.31
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.57	1.87	2.39	0.58	2.83	2.58	0.33	0.00	11.93	1.77
18JUN	SE	0.00	0.00	0.00	0.00	0.57	0.66	0.77	0.58	1.67	1.61	0.33	0.00	8.92	9.31
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	3.62	0.29
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	3.07	3.07
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.55	0.00	0.00	0.00	0.00	0.06
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.55	0.00	0.00	0.00	0.00	0.58
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-2 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	0	11118	0	0	0	57981	44589	43171	44142	33060	8529	0	0	242592
06MAY	SE	0	11118	0	0	0	12747	24867	15070	13536	10388	3665	0	0	37896
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	153	0	0	148	13711	516747	462205	935246	40678	5537	16062	273	0	1990760
12MAY	SE	153	0	0	79	6468	255545	153028	856760	14357	1556	13484	273	0	907298
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	65	99	177	2176	10300	330913	583974	528600	305685	50630	22975	3615	143	1839351
21MAY	SE	65	99	95	1145	4937	188339	201714	165795	117804	39716	6283	1506	103	345211
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	11234	0	872	661	11096	107433	26537	161602	40057	2028	20854	17107	0	399481
28MAY	SE	7944	0	634	380	1645	41289	9152	59611	28552	1741	9903	10702	0	80245
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	0	0	2417	361	5298	5742	7669	13173	4301	1622	13774	4165	79	58601
04JUN	SE	0	0	2131	249	3628	2744	1773	4388	1915	960	4891	2490	79	9078
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-2 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	0	0	0	1093	885	3225	4612	4197	2059	994	1456	84	329	18934
10JUN	SE	0	0	0	901	425	1640	1622	2111	1362	854	644	84	178	3716
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	0	0	0	0	118	387	334	172	469	366	59	0	849	2753
18JUN	SE	0	0	0	0	118	138	107	172	276	227	59	0	635	780
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	0	0	0	0	0	24	0	0	0	0	0	0	258	282
24JUN	SE	0	0	0	0	0	24	0	0	0	0	0	0	218	220
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	0	0	0	0	0	0	0	52	91	0	0	0	0	143
01JUL	SE	0	0	0	0	0	0	0	52	91	0	0	0	0	105
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-3 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.31	0.00	0.00	0.00	1.66	2.05	0.94	1.83	0.00	1.19	0.00	0.00	0.61
06MAY	SE	0.00	0.31	0.00	0.00	0.00	1.66	0.66	0.94	0.88	0.00	0.87	0.00	0.00	2.39
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	22.31	210.50	463.48	381.33	267.65	235.36	49.64	2.47	1.27	0.28	1.34	125.82
12MAY	SE	0.00	0.00	16.11	80.03	97.23	157.89	125.61	90.66	37.07	0.92	1.27	0.28	1.34	257.72
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.11	0.00	9.20	2674.25	6187.01	3233.71	7896.13	7125.34	607.33	27.07	1.61	0.00	2135.52
21MAY	SE	0.00	0.11	0.00	3.67	1342.96	1417.22	884.69	2118.14	2292.19	182.61	17.07	0.95	0.00	3790.65
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	1.09	0.00	24.03	1170.62	3109.84	530.93	876.50	605.18	452.01	104.80	112.52	4.88	1.05	537.96
28MAY	SE	0.88	0.00	12.06	393.71	971.45	209.49	325.43	246.88	188.83	15.12	36.17	3.56	1.05	1160.53
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	1.39	0.76	15.55	263.59	207.90	135.13	1559.53	673.77	220.93	170.89	100.77	2.72	257.92
04JUN	SE	0.00	0.74	0.48	3.83	82.61	70.21	34.95	489.12	119.18	51.22	83.46	98.23	2.37	534.49
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-3 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	14.17	6.38	55.85	63.77	127.55	206.18	384.94	75.05	113.27	1.56	119.33	89.85
10JUN	SE	0.00	0.00	9.99	1.77	27.34	16.62	64.67	101.88	218.94	25.04	30.33	1.56	119.33	281.80
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.76	13.70	7.46	72.29	77.01	28.28	11.94	0.00	0.60	16.31
18JUN	SE	0.00	0.00	0.00	0.00	0.76	3.65	2.03	21.83	17.75	5.40	1.17	0.00	0.60	28.99
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	1.83	0.81	0.80	19.22	1.70	0.00	0.00	1.64	2.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	1.56	0.48	0.80	17.46	1.26	0.00	0.00	1.29	17.65
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-4 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	72	0	0	0	344	287	281	303	0	209	0	0	1495
06MAY	SE	0	72	0	0	0	344	93	281	145	0	154	0	0	505
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	7179	31098	96559	79109	37414	70169	8214	349	224	45	95	330458
12MAY	SE	0	0	5185	11823	20257	32754	17560	27029	6135	130	224	45	95	52215
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	26	0	1358	557143	1283532	452044	2354099	1179135	85919	4772	259	0	5918287
21MAY	SE	0	26	0	542	279786	294011	123671	631488	379323	25834	3010	153	0	850504
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	227	0	7735	172944	647892	110145	122527	180425	74801	14825	19836	784	75	1352218
28MAY	SE	183	0	3882	58166	202388	43460	45493	73605	31249	2139	6376	573	75	234003
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	319	245	2297	54914	43131	18890	464949	111499	31255	30127	16196	193	774015
04JUN	SE	0	170	155	566	17210	14565	4886	145823	19723	7246	14714	15789	169	150679
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-4 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	4562	943	11635	13230	17831	61469	63702	10618	19970	251	8490	212700
10JUN	SE	0	0	3214	262	5697	3448	9040	30373	36232	3543	5347	251	8490	49850
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	159	2843	1043	21552	12743	4000	2105	0	43	44488
18JUN	SE	0	0	0	0	159	757	284	6508	2937	764	207	0	43	7231
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	379	114	239	3180	240	0	0	117	4269
24JUN	SE	0	0	0	0	0	323	67	239	2890	178	0	0	92	2925
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-5 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	1.25	2.21	0.72	1.61	0.66	0.00	0.15	0.00	0.00	0.00	0.00	0.51
12MAY	SE	0.00	0.00	0.64	1.28	0.67	1.47	0.62	0.00	0.15	0.00	0.00	0.00	0.00	2.25
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.34	2.30	601.09	5214.64	2107.22	780.72	897.73	415.21	88.67	5.24	0.00	0.00	777.94
21MAY	SE	0.00	0.19	0.77	204.78	1472.36	388.59	131.90	262.90	119.95	32.42	2.88	0.00	0.00	1569.31
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	5.18	14.64	1647.07	6411.74	11322.46	6062.02	3973.60	2892.99	832.53	434.66	57.96	0.49	0.52	2588.91
28MAY	SE	3.97	7.94	819.09	994.56	2298.67	447.13	687.05	1205.44	335.26	124.22	23.51	0.49	0.52	3032.73
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	73.62	499.27	955.56	1704.27	3372.03	399.67	519.43	473.80	110.96	69.07	7.45	58.36	1.17	634.21
04JUN	SE	30.34	72.40	206.35	410.80	1013.38	111.34	77.59	139.39	28.55	34.71	0.83	58.36	1.17	1134.77
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-5 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	23.92	449.26	1043.97	833.79	2396.89	1416.54	934.46	532.92	394.58	314.87	4.93	0.00	0.43	642.04
10JUN	SE	12.13	131.15	311.76	107.53	747.04	643.11	269.81	316.91	154.50	220.00	4.18	0.00	0.43	1159.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	1.41	43.56	154.97	315.77	401.69	464.93	856.76	216.65	159.31	70.13	33.51	0.87	209.20
18JUN	SE	0.00	0.96	13.64	50.19	143.90	52.00	99.71	523.53	99.47	35.50	50.68	22.74	0.87	569.55
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.11	1.56	13.95	48.77	322.27	486.59	267.79	189.54	359.80	44.64	7.87	12.05	135.00
24JUN	SE	0.00	0.11	0.93	2.65	26.72	113.24	142.87	96.17	80.95	139.83	20.07	4.66	6.75	264.16
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	3.22	31.56	161.86	167.24	101.27	122.10	29.38	8.88	50.26	3.79	52.27
01JUL	SE	0.00	0.00	0.00	1.78	15.40	69.68	34.73	55.08	55.64	10.54	3.52	17.33	3.05	113.42
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.47	23.79	8.31	NS	NS	NS	NS	NS	4.08
15JUL	SE	0.00	0.00	0.00	0.00	0.04	0.34	14.58	2.19						14.74
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.65	0.00	NS	NS	NS	NS	NS	0.09
29JUL	SE	0.00	0.00	0.00	0.00	0.04	0.00	0.61	0.00						0.61
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-6 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	402	327	150	333	92	0	24	0	0	0	0	1330
12MAY	SE	0	0	205	189	140	306	87	0	24	0	0	0	0	446
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	79	741	88803	1086399	437156	109138	267644	68711	12544	923	0	0	2072139
21MAY	SE	0	44	249	30253	306746	80615	18438	78381	19850	4586	508	0	0	329251
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	1082	3360	530046	947250	2358879	1257601	555474	862499	137771	61491	10217	79	37	6725787
28MAY	SE	830	1822	263594	146933	478896	92759	96043	359381	55480	17573	4145	79	37	686152
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	15388	114543	307510	251784	702515	82914	72611	141257	18362	9772	1313	9381	83	1727433
04JUN	SE	6342	16609	66404	60690	211123	23099	10846	41556	4725	4910	147	9381	83	235572
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-6 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	4999	103069	335963	123181	499359	293870	130629	158883	65297	44545	870	0	30	1760695
10JUN	SE	2536	30088	100329	15886	155635	133418	37717	94483	25567	31123	736	0	30	255392
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	323	14020	22895	65786	83333	64993	255430	35852	22537	12364	5386	62	582982
18JUN	SE	0	221	4389	7415	29979	10787	13939	156083	16461	5023	8935	3655	62	161354
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	25	501	2062	10161	66858	68021	79837	31366	50900	7870	1266	857	319724
24JUN	SE	0	25	298	392	5568	23493	19972	28672	13396	19782	3538	749	480	48869
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	475	6575	33580	23378	30192	20205	4156	1565	8078	269	128474
01JUL	SE	0	0	0	263	3208	14455	4856	16422	9207	1491	621	2786	217	24652
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	8	97	3326	2478	NS	NS	NS	NS	NS	5908
15JUL	SE	0	0	0	0	8	70	2038	652						2141
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	8	0	91	0	NS	NS	NS	NS	NS	98
29JUL	SE	0	0	0	0	8	0	85	0						85
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-7 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-7 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
18JUN	SE	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.66	0.04	0.00	0.61	0.00	0.00	0.00	0.64	0.47	0.00	0.19
24JUN	SE	0.00	0.00	0.00	0.66	0.04	0.00	0.61	0.00	0.00	0.00	0.64	0.47	0.00	1.20
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	2.62	0.58	0.00	3.45	0.34	0.00	0.50	0.50	4.88	0.51	1.03
01JUL	SE	0.00	0.00	0.00	2.31	0.40	0.00	1.52	0.34	0.00	0.29	0.29	3.51	0.51	4.55
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.35	0.00	0.59	2.81	0.00	NS	NS	NS	NS	NS	0.47
15JUL	SE	0.00	0.00	0.00	0.35	0.00	0.23	1.52	0.00						1.57
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.40	0.72	0.90	0.00	NS	NS	NS	NS	NS	0.25
29JUL	SE	0.00	0.00	0.00	0.00	0.26	0.63	0.66	0.00						0.95
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.72	2.03	0.84	0.00	NS	NS	NS	NS	NS	0.45
12AUG	SE	0.00	0.00	0.00	0.00	0.72	1.84	0.84	0.00						2.15
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.38	12.25	0.04	1.27	1.98	0.00	NS	NS	NS	NS	NS	1.99
26AUG	SE	0.00	0.00	0.38	7.21	0.04	0.68	0.85	0.00						7.31
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.01
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00						0.12
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.93	0.69	0.53	0.83	0.50	0.00	NS	NS	NS	NS	NS	0.44
23SEP	SE	0.00	0.00	0.62	0.38	0.53	0.63	0.25	0.00						1.13
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	NS	NS	NS	NS	NS	0.07
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00						0.57
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-8 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-8 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	107	0	0	0	0	0	0	0	0	0	107
18JUN	SE	0	0	0	72	0	0	0	0	0	0	0	0	0	72
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	97	7	0	86	0	0	0	112	76	0	379
24JUN	SE	0	0	0	97	7	0	86	0	0	0	112	76	0	188
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	387	120	0	482	100	0	70	88	785	36	2069
01JUL	SE	0	0	0	341	83	0	213	100	0	41	51	564	36	709
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	51	0	123	393	0	NS	NS	NS	NS	NS	567
15JUL	SE	0	0	0	51	0	48	212	0						224
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	83	149	126	0	NS	NS	NS	NS	NS	358
29JUL	SE	0	0	0	0	54	131	92	0						169
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	149	421	118	0	NS	NS	NS	NS	NS	688
12AUG	SE	0	0	0	0	149	383	118	0						427
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	122	1810	7	263	277	0	NS	NS	NS	NS	NS	2480
26AUG	SE	0	0	122	1066	7	141	119	0						1089
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	24	0	0	NS	NS	NS	NS	NS	24
10SEP	SE	0	0	0	0	0	24	0	0						24
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	299	102	110	171	71	0	NS	NS	NS	NS	NS	754
23SEP	SE	0	0	199	56	110	130	35	0						271
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	119	0	0	NS	NS	NS	NS	NS	119
07OCT	SE	0	0	0	0	0	119	0	0						119
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-9 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.21	5.26	0.08	0.36	1.02	0.82	0.03	4.34	1.41	2.10	0.37	1.23
09JUL	SE	0.00	0.00	0.13	1.96	0.06	0.27	0.29	0.79	0.02	1.53	0.57	0.47	0.26	2.75
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.05	0.54	0.16	0.02	0.00	2.10	0.57	0.11	1.11	1.34	0.89	0.32	0.55
22JUL	SE	0.00	0.03	0.43	0.09	0.02	0.00	0.67	0.33	0.05	0.40	0.66	0.63	0.32	1.37
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.69	1.71	0.14	0.30	1.75	0.58	0.45	2.49	0.75	0.12	0.00	0.69
05AUG	SE	0.00	0.00	0.54	1.06	0.07	0.22	0.62	0.32	0.45	1.06	0.66	0.12	0.00	1.93
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.72	1.29	0.93	0.00	0.89	0.04	0.06	2.11	0.65	0.67	0.00	0.57
19AUG	SE	0.00	0.00	0.36	0.39	0.69	0.00	0.35	0.02	0.04	0.78	0.41	0.47	0.00	1.37
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.03	1.79	1.44	0.04	0.01	0.08	0.01	0.37	0.86	0.71	0.00	0.00	0.41
02SEP	SE	0.00	0.03	0.70	0.60	0.02	0.01	0.04	0.01	0.37	0.40	0.40	0.00	0.00	1.14
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.67	0.43	0.10	0.03	0.14	0.22	0.02	0.46	2.86	0.12	0.00	0.39
16SEP	SE	0.00	0.00	0.52	0.18	0.04	0.02	0.05	0.22	0.02	0.31	2.48	0.12	0.00	2.57
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.07	0.89	1.20	0.04	0.00	0.04	0.00	0.00	0.36	0.40	0.11	0.00	0.24
30SEP	SE	0.00	0.05	0.24	0.45	0.03	0.00	0.02	0.00	0.00	0.30	0.23	0.11	0.00	0.65
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.07	0.07	0.19	0.01	0.01	0.12	0.05	0.00	0.27	0.24	1.05	0.00	0.16
14OCT	SE	0.00	0.04	0.03	0.09	0.01	0.01	0.04	0.03	0.00	0.15	0.16	0.94	0.00	0.97
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.02	0.25	0.10	0.01	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.03
28OCT	SE	0.00	0.02	0.17	0.06	0.01	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.19
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.03	0.03	0.20	0.14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
11NOV	SE	0.03	0.03	0.08	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.73	1.19	0.15	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.17
03DEC	SE	0.27	0.23	0.08	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.38
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-10 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	68	777	17	74	142	243	6	614	249	337	26	2554
09JUL	SE	0	0	41	290	11	56	40	235	4	216	100	76	19	457
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	11	174	24	3	0	293	169	17	157	237	144	23	1253
22JUL	SE	0	6	138	13	3	0	94	99	9	57	117	102	23	256
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	223	253	30	63	244	173	74	352	133	19	0	1564
05AUG	SE	0	0	175	156	15	47	87	96	74	149	116	19	0	340
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	231	191	194	0	124	12	9	299	115	108	0	1282
19AUG	SE	0	0	116	58	143	0	49	6	6	111	73	75	0	251
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	6	577	213	9	2	11	4	61	122	125	0	0	1131
02SEP	SE	0	6	224	88	5	2	6	4	61	56	71	0	0	264
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	216	63	20	6	19	66	4	65	504	20	0	984
16SEP	SE	0	0	168	26	8	4	8	66	4	44	437	20	0	476
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	16	287	178	8	0	6	0	0	50	71	18	0	635
30SEP	SE	0	12	78	67	6	0	2	0	0	43	41	18	0	121
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	16	22	28	3	2	16	15	0	39	42	169	0	351
14OCT	SE	0	8	10	13	3	2	6	8	0	21	28	151	0	157
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	4	82	15	2	0	0	0	2	5	0	0	0	110
28OCT	SE	0	4	55	9	2	0	0	0	2	5	0	0	0	56
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	6	8	65	21	3	0	0	0	0	0	0	0	0	103
11NOV	SE	6	8	25	8	3	0	0	0	0	0	0	0	0	29
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	152	273	47	10	16	0	0	0	0	0	0	5	0	503
03DEC	SE	56	54	24	10	8	0	0	0	0	0	0	5	0	83
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-11 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	5.33	2.55	0.29	1.00	2.00	0.33	0.25	0.50	0.88	0.13	0.22	0.25	1.14
17JUN	SE	3.18	1.46	0.29	0.58	2.00	0.33	0.25	0.27	0.48	0.09	0.13	0.13	4.14
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	4.33	5.18	11.71	4.67	5.67	5.67	2.75	5.00	13.88	4.87	1.58	0.25	5.46
01JUL	SE	0.33	1.22	2.88	2.40	4.26	3.48	1.68	2.35	7.04	1.60	0.63	0.18	10.33
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	2.00	2.18	8.71	3.33	6.00	12.67	5.50	6.75	0.38	5.00	4.11	1.42	4.84
15JUL	SE	1.00	0.71	5.00	1.86	1.15	6.44	2.87	4.93	0.38	1.81	1.51	0.56	10.55
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	5.00	4.25	11.93	22.40	27.40	3.67	0.20	23.40	9.80	11.89	6.50	5.43	10.99
29JUL	SE	2.66	1.11	3.59	6.33	16.38	0.71	0.20	22.16	5.83	3.78	2.11	1.93	29.63
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	3.20	8.92	18.07	5.60	8.00	31.00	3.20	0.20	0.60	9.89	2.90	8.29	8.32
12AUG	SE	1.83	1.75	5.20	1.83	1.79	16.33	2.08	0.20	0.40	4.79	1.11	3.37	18.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	3.00	2.54	8.00	7.40	5.60	3.83	4.80	0.80	25.60	12.89	2.70	2.86	6.67
25AUG	SE	1.38	0.65	2.05	3.44	1.94	1.30	3.81	0.37	16.31	8.51	1.12	0.91	19.46
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	2.80	3.79	8.93	2.20	2.40	1.67	0.60	0.00	1.20	7.22	2.50	13.86	3.93
11SEP	SE	1.02	0.81	1.98	1.71	0.75	0.76	0.60	0.00	0.80	5.04	1.01	13.69	14.99
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	3.00	3.13	2.71	3.20	8.60	1.33	1.20	1.80	11.40	0.44	0.90	1.43	3.26
22SEP	SE	1.14	0.83	0.72	1.59	3.71	0.61	0.97	0.97	8.25	0.24	0.31	0.37	9.46
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	3.20	4.33	8.43	4.60	3.40	0.50	0.60	1.00	0.80	0.56	0.10	0.00	2.29
07OCT	SE	1.46	1.42	2.41	1.57	2.46	0.22	0.24	0.00	0.58	0.44	0.10	0.00	4.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	5.80	2.08	3.21	2.00	1.40	0.33	0.40	0.00	0.00	0.22	0.30	0.00	1.31
21OCT	SE	1.56	0.50	0.71	1.52	0.51	0.21	0.24	0.00	0.00	0.22	0.21	0.00	2.44
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-12 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	40	116	8	9	5	4	2	1	8	2	4	3	201
17JUN	SE	24	66	8	5	5	4	2	< 0.5	4	1	3	2	72
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	33	235	315	43	15	60	20	6	119	85	31	3	966
01JUL	SE	3	55	77	22	11	37	12	3	61	28	12	2	126
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	15	99	234	31	16	135	39	8	3	88	81	19	768
15JUL	SE	8	32	135	17	3	69	20	6	3	32	30	8	163
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	38	193	321	206	72	39	1	29	84	209	128	74	1394
29JUL	SE	20	51	97	58	43	8	1	27	50	66	42	26	166
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	24	405	486	52	21	330	23	< 0.5	5	174	57	113	1689
12AUG	SE	14	80	140	17	5	174	15	< 0.5	3	84	22	46	258
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	23	115	215	68	15	41	34	1	220	226	53	39	1051
25AUG	SE	10	29	55	32	5	14	27	< 0.5	140	149	22	12	221
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	21	172	240	20	6	18	4	0	10	127	49	188	857
11SEP	SE	8	37	53	16	2	8	4	0	7	88	20	186	218
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	23	142	73	29	23	14	9	2	98	8	18	19	458
22SEP	SE	9	38	19	15	10	7	7	1	71	4	6	5	86
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	24	197	227	42	9	5	4	1	7	10	2	0	528
07OCT	SE	11	65	65	14	6	2	2	0	5	8	2	0	94
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	44	95	86	18	4	4	3	0	0	4	6	0	263
21OCT	SE	12	23	19	14	1	2	2	0	0	4	4	0	36
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-13 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	1.92	1.93	0.00	0.27	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.59
18MAR	SE	1.19	1.05	0.00	0.27	0.00	0.00	0.00							1.61
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.57	0.00	1.71	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.33
31MAR	SE	0.57	0.00	1.71	0.00	0.00	0.00	0.00							1.81
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	6.21	0.58	0.31	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
09APR	SE	2.22	0.37	0.31	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.87	0.00	0.24	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
15APR	SE	0.00	0.55	0.00	0.24	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.22	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
22APR	SE	0.00	0.22	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.33	0.72	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
21MAY	SE	0.00	0.00	0.19	0.41	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
28MAY	SE	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.21	0.00	1.36	0.35	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
04JUN	SE	0.21	0.00	0.57	0.21	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-13 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.09
10JUN	SE	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.65
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.58	0.06
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.58	0.60
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.02
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.29
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.05
01JUL	SE	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.51
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.02
23SEP	SE	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00						0.18
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-14 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	401	442	0	40	0	0	0	NS	NS	NS	NS	NS	NS	883
18MAR	SE	249	241	0	40	0	0	0							349
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	119	0	551	0	0	0	0	NS	NS	NS	NS	NS	NS	670
31MAR	SE	119	0	551	0	0	0	0							564
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	1298	132	100	56	0	0	0	0	0	0	0	0	0	1586
09APR	SE	464	85	100	56	0	0	0	0	0	0	0	0	0	486
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	199	0	35	125	0	0	0	0	0	0	0	0	359
15APR	SE	0	126	0	35	125	0	0	0	0	0	0	0	0	180
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	51	0	0	29	0	0	0	0	0	0	0	0	80
22APR	SE	0	51	0	0	29	0	0	0	0	0	0	0	0	58
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	108	107	34	0	0	0	0	0	0	0	0	248
21MAY	SE	0	0	62	61	34	0	0	0	0	0	0	0	0	93
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	79	0	0	0	0	0	0	0	0	0	0	0	79
28MAY	SE	0	79	0	0	0	0	0	0	0	0	0	0	0	79
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	44	0	438	52	0	28	0	0	0	0	0	0	0	562
04JUN	SE	44	0	183	31	0	28	0	0	0	0	0	0	0	193
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-14 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	22	0	0	0	0	0	0	0	157	0	0	0	179
10JUN	SE	0	22	0	0	0	0	0	0	0	91	0	0	0	93
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	32	0	0	0	0	0	41	73
18JUN	SE	0	0	0	0	0	0	23	0	0	0	0	0	41	47
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	51	0	0	51
24JUN	SE	0	0	0	0	0	0	0	0	0	0	51	0	0	51
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	29	0	0	0	0	0	0	80	0	110
01JUL	SE	0	0	0	0	23	0	0	0	0	0	0	80	0	83
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	27	0	0	0	0	NS	NS	NS	NS	NS	27
23SEP	SE	0	0	0	27	0	0	0	0						27
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-15 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.15	0.01	0.00	< 0.005	0.01	0.00	0.06	0.00	0.12	0.00	0.03
09JUL	SE	0.00	0.00	0.00	0.06	0.01	0.00	< 0.005	0.01	0.00	0.06	0.00	0.12	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
22JUL	SE	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.06
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.02
05AUG	SE	0.00	0.00	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.12
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
19AUG	SE	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.10	0.00	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.04
02SEP	SE	0.00	0.00	0.06	0.00	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.38
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.51	0.00	0.00	0.00	0.07	0.00	0.00	0.05
16SEP	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.48	0.00	0.00	0.00	0.07	0.00	0.00	0.48
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.25	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
30SEP	SE	0.00	0.00	0.25	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
28OCT	SE	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
11NOV	SE	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.07	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
03DEC	SE	0.02	0.03	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-16 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	22	1	0	1	4	0	9	0	19	0	56
09JUL	SE	0	0	0	9	1	0	1	4	0	9	0	19	0	24
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	4	0	2	0	0	0	0	10	0	0	15
22JUL	SE	0	0	0	4	0	2	0	0	0	0	10	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	29	4	0	0	0	0	0	0	0	0	6	39
05AUG	SE	0	0	23	4	0	0	0	0	0	0	0	0	6	24
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	7	0	0	0	2	0	0	0	0	0	0	10
19AUG	SE	0	0	7	0	0	0	1	0	0	0	0	0	0	8
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	31	0	1	0	53	0	0	0	0	0	0	85
02SEP	SE	0	0	19	0	1	0	52	0	0	0	0	0	0	56
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	1	0	72	0	0	0	12	0	0	85
16SEP	SE	0	0	0	0	1	0	67	0	0	0	12	0	0	68
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	79	32	0	0	0	0	0	0	0	0	0	112
30SEP	SE	0	0	79	25	0	0	0	0	0	0	0	0	0	83
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
14OCT	SE	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	6	0	5	0	0	0	0	0	0	0	0	11
28OCT	SE	0	0	6	0	4	0	0	0	0	0	0	0	0	7
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	5	4	0	0	0	0	0	0	0	0	0	9
11NOV	SE	0	0	5	4	0	0	0	0	0	0	0	0	0	6
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	4	16	5	0	0	2	0	0	0	0	0	0	0	27
03DEC	SE	4	7	5	0	0	2	0	0	0	0	0	0	0	10
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-17 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.64	0.57	0.00	1.00	0.33	0.25	0.00	0.38	0.56	0.67	0.08	0.37
17JUN	SE	0.00	0.64	0.57	0.00	0.58	0.33	0.16	0.00	0.26	0.32	0.28	0.08	1.21
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.27	0.14	0.00	0.33	0.00	0.00	0.38	1.00	0.33	1.26	0.42	0.34
01JUL	SE	0.00	0.19	0.14	0.00	0.33	0.00	0.00	0.26	0.87	0.21	0.50	0.29	1.17
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.18	0.00	1.00	1.00	0.00	1.13	0.38	0.13	0.20	2.00	0.33	0.53
15JUL	SE	0.00	0.12	0.00	0.58	1.00	0.00	0.67	0.26	0.13	0.20	0.99	0.26	1.72
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.43	0.00	0.00	0.17	0.00	0.20	0.40	0.11	0.10	0.00	0.12
29JUL	SE	0.00	0.00	0.36	0.00	0.00	0.17	0.00	0.20	0.40	0.11	0.10	0.00	0.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.29	1.79	0.00	0.00	0.17	0.00	0.40	0.20	0.22	0.20	0.43	0.31
12AUG	SE	0.00	0.09	0.61	0.00	0.00	0.17	0.00	0.40	0.20	0.15	0.13	0.43	0.91
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.40	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.20	0.22	0.10	0.57	0.22
25AUG	SE	0.24	0.07	0.58	0.00	0.00	0.00	0.00	0.00	0.20	0.22	0.10	0.43	0.83
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.08
11SEP	SE	0.00	0.15	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.40
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.60	0.38	0.21	0.80	0.20	0.00	0.60	0.00	0.60	0.22	0.30	1.00	0.41
22SEP	SE	0.40	0.13	0.11	0.49	0.20	0.00	0.60	0.00	0.40	0.22	0.30	0.44	1.15
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.20	0.08	0.21	0.20	0.00	0.33	0.00	0.60	0.00	0.00	0.00	0.29	0.16
07OCT	SE	0.20	0.06	0.11	0.20	0.00	0.21	0.00	0.40	0.00	0.00	0.00	0.18	0.58
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.20	0.04	0.14	0.00	0.00	0.17	0.60	0.20	0.20	0.00	0.00	0.00	0.13
21OCT	SE	0.20	0.04	0.14	0.00	0.00	0.17	0.40	0.20	0.20	0.00	0.00	0.00	0.57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-18 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	29	15	0	3	4	2	0	3	10	13	1	80
17JUN	SE	0	29	15	0	2	4	1	0	2	6	6	1	34
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	12	4	0	1	0	0	< 0.5	9	6	25	6	63
01JUL	SE	0	9	4	0	1	0	0	< 0.5	7	4	10	4	17
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	8	0	9	3	0	8	< 0.5	1	4	39	5	77
15JUL	SE	0	6	0	5	3	0	5	< 0.5	1	4	20	3	22
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	12	0	0	2	0	< 0.5	3	2	2	0	21
29JUL	SE	0	0	10	0	0	2	0	< 0.5	3	2	2	0	11
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	13	48	0	0	2	0	< 0.5	2	4	4	6	79
12AUG	SE	0	4	16	0	0	2	0	< 0.5	2	3	3	6	19
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	3	6	27	0	0	0	0	0	2	4	2	8	51
25AUG	SE	2	3	16	0	0	0	0	0	2	4	2	6	18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	17	2	0	0	0	0	0	0	0	0	8	27
11SEP	SE	0	7	2	0	0	0	0	0	0	0	0	5	9
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	5	17	6	7	1	0	4	0	5	4	6	14	68
22SEP	SE	3	6	3	5	1	0	4	0	3	4	6	6	14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	2	4	6	2	0	4	0	1	0	0	0	4	21
07OCT	SE	2	3	3	2	0	2	0	< 0.5	0	0	0	3	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	2	2	4	0	0	2	4	< 0.5	2	0	0	0	15
21OCT	SE	2	2	4	0	0	2	3	< 0.5	2	0	0	0	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-19 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.38	0.00	0.54	0.28	0.00	0.00	NS	NS	NS	NS	NS	NS	0.17
18MAR	SE	0.00	0.38	0.00	0.54	0.28	0.00	0.00							0.72
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.49	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.07
31MAR	SE	0.00	0.00	0.49	0.00	0.00	0.00	0.00							0.49
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	1.25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
09APR	SE	0.46	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.17	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
15APR	SE	0.00	0.00	0.00	0.00	0.17	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.02
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.29
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
29APR	SE	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.31	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
06MAY	SE	0.00	0.31	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.02
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.21
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.24
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-19 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-20 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	87	0	79	59	0	0	NS	NS	NS	NS	NS	NS	226
18MAR	SE	0	87	0	79	59	0	0							132
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	158	0	0	0	0	NS	NS	NS	NS	NS	NS	158
31MAR	SE	0	0	158	0	0	0	0							158
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	261	0	0	0	94	0	0	0	0	0	0	0	0	355
09APR	SE	96	0	0	0	94	0	0	0	0	0	0	0	0	135
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	36	85	0	0	0	0	0	0	0	120
15APR	SE	0	0	0	0	36	85	0	0	0	0	0	0	0	92
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	41	0	0	0	0	0	0	41
22APR	SE	0	0	0	0	0	0	41	0	0	0	0	0	0	41
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	52	0	0	0	0	0	0	0	0	0	0	0	52
29APR	SE	0	52	0	0	0	0	0	0	0	0	0	0	0	52
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	72	0	95	0	0	0	0	0	0	0	0	0	167
06MAY	SE	0	72	0	32	0	0	0	0	0	0	0	0	0	78
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	29	0	47	0	0	0	0	0	77
12MAY	SE	0	0	0	0	0	29	0	47	0	0	0	0	0	56
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	34	0	0	0	0	0	0	34
21MAY	SE	0	0	0	0	0	0	34	0	0	0	0	0	0	34
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-20 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-21 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
05AUG	SE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.02
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.30
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
30SEP	SE	0.00	0.00	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01
14OCT	SE	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.05	0.04	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11NOV	SE	0.04	0.03	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
03DEC	SE	0.02	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-22 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	9	5	0	0	0	0	0	0	0	0	0	14
09JUL	SE	0	0	9	5	0	0	0	0	0	0	0	0	0	10
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	7	0	0	0	0	0	0	0	0	0	0	7
05AUG	SE	0	0	7	0	0	0	0	0	0	0	0	0	0	7
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	90	0	0	0	0	0	90
19AUG	SE	0	0	0	0	0	0	0	90	0	0	0	0	0	90
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	38	4	0	0	0	0	0	0	0	0	0	42
30SEP	SE	0	0	38	4	0	0	0	0	0	0	0	0	0	38
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	8	0	1	0	0	0	0	0	0	0	8	16
14OCT	SE	0	0	8	0	1	0	0	0	0	0	0	0	8	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
28OCT	SE	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	11	9	10	0	2	0	0	0	0	0	0	0	0	32
11NOV	SE	7	6	10	0	2	0	0	0	0	0	0	0	0	14
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	5	8	0	0	0	0	1	0	0	0	0	0	0	14
03DEC	SE	5	6	0	0	0	0	1	0	0	0	0	0	0	7
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-23 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.17	0.00	0.02
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.00	0.14
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.01
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.03
29JUL	SE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.04	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
11SEP	SE	0.00	0.04	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
22SEP	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.10	0.14	0.04
07OCT	SE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.10	0.14	0.24
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.02
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-24 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	1	3	0	4
17JUN	SE	0	0	0	0	0	0	0	0	0	1	2	0	3
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	1	0	0	1
01JUL	SE	0	0	0	0	0	0	0	0	0	1	0	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	4	0	0	0	0	0	2	0	0	0	6
29JUL	SE	0	0	4	0	0	0	0	0	2	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	2	0	0	1	0	0	0	0	0	0	0	2
11SEP	SE	0	2	0	0	1	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
22SEP	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	2	0	0	0	0	0	0	4	2	2	10
07OCT	SE	0	0	2	0	0	0	0	0	0	3	2	2	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	4	4
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	4	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-25 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	5.66	0.49
22APR	SE	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	3.82	3.85
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.40	5.30	264.10	55.32	25.04
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.40	3.75	49.74	46.79	68.40
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.40	0.00	0.00	0.00	0.00	0.57	10.10	3.38	8.31	1.21	276.20	594.80	545.42	110.80
06MAY	SE	0.40	0.00	0.00	0.00	0.00	0.34	5.26	1.81	4.08	1.21	191.01	199.93	128.59	305.03
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.26	1.00	0.46	4.13	240.06	212.70	564.96	111.28	87.30
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.26	0.49	0.19	2.36	220.78	194.00	59.38	80.31	310.42
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	34.47	1.83	5.85	0.91	173.58	220.13	136.70	44.11
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	28.40	1.32	3.48	0.91	97.74	112.99	122.31	195.19
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.15	6.43	0.51	1.50	1.93	1.26	697.18	571.20	1295.01	198.09
28MAY	SE	0.00	0.00	0.00	0.00	0.15	3.63	0.48	0.93	1.21	0.76	523.67	120.39	404.86	672.80
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.36	0.00	0.70	0.53	1.01	0.31	2.19	255.36	97.44	1407.88	135.83
04JUN	SE	0.00	0.00	0.00	0.36	0.00	0.70	0.53	0.77	0.18	0.46	100.47	21.93	634.92	643.20
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-25 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.57	1.50	50.21	15.01	1.17	5.29
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.57	1.50	18.81	4.72	1.17	19.50
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.47	0.00	0.22	10.75	3.14	0.13	2.76	1.33	5.35	4.85	2.23
18JUN	SE	0.00	0.00	0.00	0.33	0.00	0.22	7.06	2.63	0.13	2.00	1.33	5.35	3.43	10.16
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	1.02	0.61	0.19
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.51	0.61	1.16
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.01
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-26 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	45	0	0	0	0	0	0	0	0	0	79	403	526
22APR	SE	0	45	0	0	0	0	0	0	0	0	0	79	272	286
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	0	63	57	935	42449	3936	47439
29APR	SE	0	0	0	0	0	0	0	0	63	57	661	7995	3329	8686
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	83	0	0	0	0	118	1412	1007	1376	172	48693	95604	38806	187271
06MAY	SE	83	0	0	0	0	71	736	540	676	172	33674	32135	9149	47452
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	53	139	137	683	33961	37499	90807	7917	171197
12MAY	SE	0	0	0	0	0	53	68	56	390	31233	34201	9544	5714	47635
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	0	0	0	0	0	0	4819	546	968	128	30601	35382	9726	82171
21MAY	SE	0	0	0	0	0	0	3970	394	576	128	17231	18161	8702	26809
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	0	0	0	0	32	1334	71	448	320	178	122910	91811	92138	309242
28MAY	SE	0	0	0	0	32	753	66	276	200	107	92321	19350	28805	98631
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	0	0	0	54	0	145	74	300	52	310	45019	15662	100170	161785
04JUN	SE	0	0	0	54	0	145	74	231	30	65	17713	3525	45174	48652
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-26 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	0	0	0	0	0	0	41	0	94	212	8852	2412	83	11694
10JUN	SE	0	0	0	0	0	0	41	0	94	212	3317	759	83	3412
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	0	0	0	70	0	47	1502	935	21	390	235	860	345	4405
18JUN	SE	0	0	0	49	0	47	987	783	21	284	235	860	244	1590
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	120	0	164	44	327
24JUN	SE	0	0	0	0	0	0	0	0	0	120	0	82	44	151
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	0	0	0	0	0	0	0	0	20	0	0	0	0	20
01JUL	SE	0	0	0	0	0	0	0	0	20	0	0	0	0	20
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-27 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.07	1.90	0.00	0.29	0.25	0.29
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.48	1.55	0.00	0.29	0.25	1.68
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.80	4.58	7.61	51.68	179.18	139.01	208.68	45.52
06MAY	SE	0.00	0.00	0.00	0.18	0.00	0.00	0.49	2.99	3.08	19.00	56.82	27.16	38.77	76.48
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.53	0.00	1.34	0.67	3.34	6.06	8.50	41.90	107.48	289.58	323.68	400.14	91.02
12MAY	SE	0.00	0.53	0.00	0.62	0.67	2.94	4.56	3.07	19.31	29.22	51.14	39.89	189.60	203.52
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	2.77	0.00	0.31	4.03	31.63	75.80	73.24	191.25	214.31	98.01	239.09	313.48	95.69
21MAY	SE	0.00	2.77	0.00	0.31	3.10	17.16	22.75	29.88	34.16	47.82	20.87	85.99	95.99	149.06
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.17	2.00	6.82	50.14	49.19	43.40	47.78	41.37	67.82	93.54	155.64	42.91
28MAY	SE	0.00	0.00	0.17	1.43	2.57	20.45	31.29	8.98	20.88	16.06	30.45	16.93	44.88	73.54
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.33	2.57	1.90	1.57	8.92	4.67	20.22	15.61	58.17	1519.80	1507.12	241.61
04JUN	SE	0.00	0.00	0.24	0.74	0.83	1.08	3.64	2.78	6.38	2.86	21.78	538.72	486.48	726.24
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-27 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.68	3.93	0.40	1.64	4.07	4.14	17.11	22.83	113.67	738.24	236.02	87.90
10JUN	SE	0.00	0.00	0.40	1.71	0.24	0.67	1.94	2.21	8.69	11.52	9.21	290.04	41.86	293.56
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.25	0.00	4.17	1.06	7.32	10.98	11.50	8.80	42.96	104.02	14.70
18JUN	SE	0.00	0.00	0.00	0.25	0.00	3.08	0.70	3.64	4.06	5.32	3.69	10.42	41.46	43.69
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	1.83	0.14	0.00	3.32	3.38	4.06	0.00	23.43	2.78
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.78	0.14	0.00	1.80	3.38	3.30	0.00	20.50	21.13
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	0.14
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.93
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-28 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	28	0	177	269	0	47	18	539
29APR	SE	0	0	0	0	0	0	28	0	79	219	0	47	18	240
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	27	0	0	111	1366	1260	7312	31589	22344	14848	78856
06MAY	SE	0	0	0	27	0	0	68	892	510	2688	10016	4366	2759	11631
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	122	0	198	139	693	847	2533	6933	15205	51051	52026	28470	158217
12MAY	SE	0	122	0	92	139	610	637	916	3196	4134	9016	6412	13490	18258
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	635	0	45	839	6561	10596	21837	31648	30319	17279	38429	22304	180492
21MAY	SE	0	635	0	45	645	3561	3181	8909	5653	6765	3679	13821	6829	20783
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	55	296	1422	10402	6876	12939	7907	5852	11957	15034	11073	83814
28MAY	SE	0	0	55	212	535	4242	4374	2678	3455	2272	5368	2721	3193	10399
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	105	380	397	325	1247	1391	3346	2208	10255	244279	107230	371164
04JUN	SE	0	0	76	109	173	223	509	830	1055	405	3839	86590	34612	93343
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-28 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	220	580	84	340	569	1233	2831	3229	20039	118658	16793	164575
10JUN	SE	0	0	128	253	49	140	271	658	1438	1630	1624	46618	2978	46799
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	37	0	865	148	2182	1816	1627	1551	6905	7401	22531
18JUN	SE	0	0	0	37	0	639	97	1086	672	752	650	1675	2950	3814
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	380	19	0	550	478	717	0	1667	3811
24JUN	SE	0	0	0	0	0	163	19	0	299	478	583	0	1458	1677
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	134	134
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	66	66
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-29 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.17	0.00	0.00	0.00	0.46	0.59	1.20	2.45	4.86	0.00	0.00	0.75
06MAY	SE	0.00	0.00	0.17	0.00	0.00	0.00	0.46	0.46	0.81	1.84	2.61	0.00	0.00	3.37
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.25	0.83	1.44	1.47	2.33	7.12	60.61	117.68	147.30	14.72	0.00	27.21
12MAY	SE	0.00	0.00	0.25	0.30	0.84	1.47	0.83	2.67	22.12	14.58	36.84	14.01	0.00	47.60
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.31	3.16	22.24	66.48	152.22	847.36	1264.55	750.74	772.07	559.06	1.23	341.49
21MAY	SE	0.00	0.00	0.31	1.71	7.39	25.90	27.01	302.01	159.07	216.36	203.18	156.85	0.70	480.28
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	1.74	0.13	28.93	63.56	402.50	582.54	1415.76	1313.61	1579.97	1743.68	958.13	897.80	3.17	691.66
28MAY	SE	1.74	0.13	8.67	16.96	88.52	158.10	423.91	285.13	715.69	66.62	211.03	150.24	0.96	936.99
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.75	0.97	41.41	209.53	688.42	461.49	745.61	262.48	272.93	314.15	215.58	29.91	0.00	249.48
04JUN	SE	0.75	0.71	17.85	40.77	161.06	98.21	218.23	67.12	26.07	75.21	68.50	24.01	0.00	318.27
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-29 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	1.80	33.16	141.64	263.75	268.68	158.79	568.47	299.27	502.31	1916.08	3284.38	285.10	0.00	594.11
10JUN	SE	1.33	11.28	42.39	41.31	125.27	46.86	119.96	49.11	121.28	691.65	969.56	24.23	0.00	1213.28
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.54	11.82	22.00	98.84	87.14	48.91	367.54	365.77	517.55	795.93	1435.07	6.13	289.02
18JUN	SE	0.00	0.27	6.09	4.14	34.60	18.33	8.11	176.19	110.12	125.20	239.40	129.51	4.03	366.88
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.64	10.81	24.21	124.52	311.83	240.49	257.75	1187.87	489.24	871.96	846.30	335.82
24JUN	SE	0.00	0.00	0.52	7.22	9.19	39.27	82.77	71.82	41.05	291.45	107.51	530.28	557.03	838.66
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.77	3.63	70.23	127.94	85.38	362.42	418.64	290.40	670.80	32.90	158.70
01JUL	SE	0.00	0.00	0.00	0.77	1.88	12.65	17.54	36.96	75.14	98.76	55.50	189.31	29.38	238.79
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.04	3.19	18.46	11.54	NS	NS	NS	NS	NS	4.15
15JUL	SE	0.00	0.00	0.00	0.00	0.04	1.82	11.81	4.75						12.85
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.50	0.09	1.47	3.11	NS	NS	NS	NS	NS	0.65
29JUL	SE	0.00	0.00	0.00	0.00	0.50	0.09	1.24	2.15						2.54
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-30 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	54	0	0	0	64	176	198	347	856	0	0	1694
06MAY	SE	0	0	54	0	0	0	64	137	135	261	461	0	0	569
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	81	122	301	304	326	2124	10030	16649	25968	2365	0	58269
12MAY	SE	0	0	81	44	176	304	116	796	3661	2063	6495	2252	0	8105
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	98	467	4634	13791	21278	252627	209264	106208	136113	89859	87	834427
21MAY	SE	0	0	98	253	1539	5374	3776	90039	26323	30609	35820	25210	50	108172
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	364	31	9311	9390	83855	120850	197910	391632	261462	246678	168914	144305	226	1634928
28MAY	SE	364	31	2790	2505	18442	32799	59258	85008	118436	9425	37204	24148	68	168081
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	158	222	13325	30955	143422	95740	104230	78253	45166	44443	38006	4808	0	598727
04JUN	SE	158	164	5745	6023	33554	20373	30506	20010	4315	10639	12077	3859	0	56867
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-30 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	377	7607	45581	38966	55976	32942	79467	89224	83125	271068	579023	45824	0	1329179
10JUN	SE	279	2587	13643	6103	26098	9721	16770	14641	20071	97848	170930	3895	0	201769
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	125	3803	3250	20592	18078	6838	109575	60530	73218	140320	230662	436	667426
18JUN	SE	0	62	1961	612	7208	3802	1134	52529	18223	17712	42206	20817	287	75444
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	208	1597	5044	25832	43591	71698	42653	168047	86252	140151	60214	645287
24JUN	SE	0	0	168	1067	1914	8146	11571	21412	6794	41232	18954	85232	39632	107723
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	113	756	14570	17885	25454	59975	59225	51196	107819	2341	339335
01JUL	SE	0	0	0	113	391	2624	2452	11018	12435	13971	9785	30429	2090	38863
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	8	662	2580	3439	NS	NS	NS	NS	NS	6689
15JUL	SE	0	0	0	0	8	378	1650	1415						2206
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	104	19	205	928	NS	NS	NS	NS	NS	1256
29JUL	SE	0	0	0	0	104	19	173	642						673
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-31 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-31 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.04
24JUN	SE	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.47
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.77	0.04	0.12	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.09
01JUL	SE	0.00	0.00	0.00	0.77	0.04	0.12	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.82
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.05
15JUL	SE	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00						0.43
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	NS	NS	NS	NS	NS	0.03
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22						0.22
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.27	NS	NS	NS	NS	NS	0.08
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.27						0.41
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.33	0.00	0.22	0.04	0.54	NS	NS	NS	NS	NS	0.14
26AUG	SE	0.00	0.00	0.00	0.33	0.00	0.13	0.04	0.27						0.45
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.58	1.07	NS	NS	NS	NS	NS	0.21
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.69						0.90
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	NS	NS	NS	NS	NS	0.03
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26						0.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.02
07OCT	SE	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00						0.13
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-32 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-32 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	68	0	0	14	0	0	0	0	0	0	82
24JUN	SE	0	0	0	68	0	0	14	0	0	0	0	0	0	69
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	113	9	24	0	0	0	37	0	0	0	183
01JUL	SE	0	0	0	113	9	24	0	0	0	37	0	0	0	122
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	63	0	0	0	0	NS	NS	NS	NS	NS	63
15JUL	SE	0	0	0	63	0	0	0	0						63
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	66	NS	NS	NS	NS	NS	66
29JUL	SE	0	0	0	0	0	0	0	66						66
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	53	80	NS	NS	NS	NS	NS	134
12AUG	SE	0	0	0	0	0	0	43	80						91
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	49	0	46	6	160	NS	NS	NS	NS	NS	261
26AUG	SE	0	0	0	49	0	27	6	80						98
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	81	320	NS	NS	NS	NS	NS	401
10SEP	SE	0	0	0	0	0	0	81	205						220
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	78	NS	NS	NS	NS	NS	78
23SEP	SE	0	0	0	0	0	0	0	78						78
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	27	0	0	0	NS	NS	NS	NS	NS	27
07OCT	SE	0	0	0	0	27	0	0	0						27
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-33 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.03	0.00	0.06	0.00	0.00	0.02
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.03	0.00	0.06	0.00	0.00	0.10
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.40	0.24	0.29	0.82	0.00	0.00	0.14
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.26	0.13	0.29	0.82	0.00	0.00	0.92
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.40	0.12	0.25	0.06	0.00	0.11	0.14
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.11	0.08	0.18	0.06	0.00	0.11	0.42
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.52	0.37	1.07	0.17	0.00	0.10	0.00	0.17
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.38	0.24	0.57	0.06	0.00	0.10	0.00	0.73
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.23	0.28	0.07	0.00	0.00	0.06
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.22	0.07	0.00	0.00	0.26
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.06	1.29	0.00	4.95	0.00	0.00	0.49
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03	0.36	0.00	4.95	0.00	0.00	4.97
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.03	0.01	0.28	1.96	0.17	0.06	0.07	0.00	0.00	0.20
30SEP	SE	0.00	0.00	0.00	0.00	0.02	0.01	0.09	1.11	0.05	0.06	0.07	0.00	0.00	1.12
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.03	0.02	0.06	0.32	0.53	0.80	0.83	0.72	0.00	0.31	0.28
14OCT	SE	0.00	0.00	0.00	0.03	0.02	0.02	0.09	0.23	0.22	0.34	0.28	0.00	0.20	0.58
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.01	0.08	0.03	0.20	0.11	0.07	0.00	0.00	0.04
28OCT	SE	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.02	0.06	0.08	0.04	0.00	0.00	0.11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.10	0.32	0.13	0.45	0.38	1.91	0.12	0.00	0.27
11NOV	SE	0.00	0.00	0.00	0.00	0.02	0.03	0.10	0.04	0.15	0.15	0.55	0.06	0.00	0.61
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.05	1.95	0.85	0.74	0.13	1.88	0.35	0.20	0.09	0.00	0.03	0.05	0.49
03DEC	SE	0.02	0.03	0.49	0.35	0.24	0.03	0.50	0.12	0.12	0.06	0.00	0.03	0.05	0.84
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-34 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	18	0	6	0	11	0	0	34
09JUL	SE	0	0	0	0	0	0	10	0	6	0	11	0	0	16
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	13	119	39	41	145	0	0	357
22JUL	SE	0	0	0	0	0	0	6	78	21	41	145	0	0	171
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	120	118	20	36	11	0	8	312
05AUG	SE	0	0	0	0	0	0	46	32	14	26	11	0	8	64
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	2	73	109	177	24	0	17	0	402
19AUG	SE	0	0	0	0	0	2	53	70	94	8	0	17	0	130
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	13	26	38	40	12	0	0	128
02SEP	SE	0	0	0	0	0	0	6	15	17	32	12	0	0	41
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	14	17	214	0	873	0	0	1117
16SEP	SE	0	0	0	0	0	0	7	9	60	0	873	0	0	875
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	6	2	39	583	28	8	12	0	0	679
30SEP	SE	0	0	0	0	4	2	13	332	8	8	12	0	0	333
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	4	4	12	44	157	132	118	128	0	22	620
14OCT	SE	0	0	0	4	4	4	13	68	36	48	49	0	14	105
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	2	1	11	8	33	15	13	0	0	83
28OCT	SE	0	0	0	0	2	1	6	5	9	11	7	0	0	18
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	9	20	45	38	74	53	336	20	0	596
11NOV	SE	0	0	0	0	5	6	14	13	25	22	98	10	0	106
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	5	11	629	126	154	26	262	104	34	12	0	5	4	1373
03DEC	SE	5	6	158	52	50	7	70	35	20	8	0	5	4	192
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-35 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	< 0.005
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.06
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.43	1.33	1.00	0.33	1.25	0.63	0.50	0.80	0.47	0.08	0.57
01JUL	SE	0.00	0.00	0.30	1.33	0.58	0.33	0.98	0.38	0.50	0.34	0.27	0.08	1.96
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	2.00	0.33	0.00	0.00	5.38	1.75	0.25	1.47	1.47	0.08	1.06
15JUL	SE	0.00	0.00	1.84	0.33	0.00	0.00	3.63	0.53	0.16	0.69	0.73	0.08	4.24
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.21	1.21	6.40	1.00	3.33	0.40	9.00	6.60	4.56	4.70	0.57	3.17
29JUL	SE	0.00	0.17	0.72	3.78	1.00	2.95	0.40	4.74	4.49	2.56	2.53	0.43	8.97
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.17	1.36	3.80	15.00	2.50	5.20	12.20	0.20	18.67	24.80	1.29	7.10
12AUG	SE	0.00	0.13	0.82	2.20	12.81	0.99	2.31	3.71	0.20	6.56	18.48	1.13	23.99
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.25	2.14	6.20	1.20	0.83	11.00	10.40	20.40	17.22	21.60	1.00	7.69
25AUG	SE	0.00	0.14	1.35	5.23	0.58	0.54	8.26	4.30	10.21	4.35	12.85	0.53	20.13
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.21	1.79	1.20	0.20	3.83	3.20	3.00	4.20	8.56	8.00	2.43	3.05
11SEP	SE	0.00	0.17	0.78	0.80	0.20	3.25	1.24	1.34	2.75	3.01	3.93	2.43	7.29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.20	0.50	0.93	1.80	0.80	1.50	1.20	0.80	16.60	7.44	3.70	2.57	3.17
22SEP	SE	0.20	0.35	0.66	0.58	0.80	0.96	0.97	0.80	12.96	2.83	1.51	0.72	13.52
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.08	1.50	2.20	2.40	0.00	1.60	1.00	3.00	3.67	12.30	0.29	2.34
07OCT	SE	0.00	0.06	1.03	1.24	1.29	0.00	1.36	0.77	1.84	1.70	6.98	0.29	7.86
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.42	1.21	0.20	8.80	1.00	4.00	0.80	0.00	1.67	3.40	0.00	1.79
21OCT	SE	0.00	0.20	0.33	0.20	5.44	0.68	3.30	0.49	0.00	0.67	2.10	0.00	6.80
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-36 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	1	0	1
17JUN	SE	0	0	0	0	0	0	0	0	0	0	1	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	12	12	3	4	9	1	4	14	9	1	68
01JUL	SE	0	0	8	12	2	4	7	< 0.5	4	6	5	1	19
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	54	3	0	0	38	2	2	26	29	1	155
15JUL	SE	0	0	49	3	0	0	26	1	1	12	14	1	59
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	9	33	59	3	36	3	11	57	80	92	8	390
29JUL	SE	0	8	19	35	3	31	3	6	39	45	50	6	93
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	8	36	35	40	27	37	15	2	328	488	17	1032
12AUG	SE	0	6	22	20	34	11	16	5	2	115	364	15	385
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	11	58	57	3	9	78	13	176	302	425	14	1146
25AUG	SE	0	6	36	48	2	6	59	5	88	76	253	7	291
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	9	48	11	1	41	23	4	36	150	157	33	513
11SEP	SE	0	8	21	7	1	35	9	2	24	53	77	33	111
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	2	23	25	17	2	16	9	1	143	131	73	35	475
22SEP	SE	2	16	18	5	2	10	7	1	112	50	30	10	129
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	4	40	20	6	0	11	1	26	64	242	4	419
07OCT	SE	0	3	28	11	3	0	10	1	16	30	137	4	145
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	19	33	2	23	11	28	1	0	29	67	0	213
21OCT	SE	0	9	9	2	14	7	23	1	0	12	41	0	53
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-37 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.46	0.00	1.36	8.87	8.64	3.85	NS	NS	NS	NS	NS	NS	3.31
18MAR	SE	0.00	0.46	0.00	0.71	5.40	5.68	2.85							8.38
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	1.47	0.00	58.60	2.18	1.39	NS	NS	NS	NS	NS	NS	9.09
31MAR	SE	0.00	0.00	1.47	0.00	25.38	0.83	1.39							25.47
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	1.29	2.36	7.71	7.93	13.76	1.03	3.46	0.00	0.00	0.00	0.00	2.89
09APR	SE	0.00	0.00	0.70	2.36	3.89	4.53	10.14	1.03	2.84	0.00	0.00	0.00	0.00	12.40
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.86	5.46	18.14	6.61	2.87	7.76	3.05	9.07	1.31	0.00	0.00	4.24
15APR	SE	0.00	0.00	0.67	1.06	6.01	5.62	2.11	2.28	1.91	6.56	0.94	0.00	0.00	11.25
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.41	1.74	1.37	1.37	3.44	14.03	2.77	7.45	0.88	0.00	0.00	0.00	2.57
22APR	SE	0.00	0.25	0.55	0.73	0.68	1.91	7.42	1.83	1.32	0.56	0.00	0.00	0.00	8.10
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.18	0.18	0.88	0.56	1.64	2.13	1.14	0.76	0.00	0.00	0.00	0.57
29APR	SE	0.00	0.00	0.18	0.18	0.88	0.16	1.11	0.72	0.60	0.76	0.00	0.00	0.00	1.88
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	2.23	1.45	2.98	0.51	0.00	1.55	0.00	3.01	0.00	0.00	0.90
06MAY	SE	0.00	0.00	0.00	0.80	0.86	1.03	0.51	0.00	0.71	0.00	3.01	0.00	0.00	3.50
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.37	0.67	0.00	0.27	0.30	0.60	0.29	0.00	0.00	0.00	0.00	0.19
12MAY	SE	0.00	0.00	0.22	0.39	0.00	0.27	0.27	0.60	0.18	0.00	0.00	0.00	0.00	0.86
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.16	4.15	0.05	0.82	0.55	0.56	0.00	0.57	0.46	1.00	0.62	0.69
21MAY	SE	0.00	0.00	0.16	2.50	0.05	0.82	0.51	0.43	0.00	0.33	0.28	0.50	0.62	2.87
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.26	0.00	1.53	1.66	0.00	0.00	0.31
28MAY	SE	0.00	0.00	0.00	0.16	0.00	0.00	0.28	0.17	0.00	0.86	1.10	0.00	0.00	1.44
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.74	0.00	2.89	0.98	0.22	0.14	1.12	1.09	0.29	0.00	0.56	0.62
04JUN	SE	0.00	0.00	0.30	0.00	2.44	0.98	0.22	0.14	0.68	0.77	0.29	0.00	0.56	2.92
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-37 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	1.26	0.33	0.00	0.00	0.45	0.00	0.00	0.80	0.00	0.00	0.00	0.22
10JUN	SE	0.00	0.00	0.73	0.33	0.00	0.00	0.27	0.00	0.00	0.27	0.00	0.00	0.00	0.88
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.00	1.75	0.00	0.57	0.00	0.18
18JUN	SE	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.00	0.81	0.00	0.57	0.00	0.99
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.14	2.60	0.55	0.00	0.00	0.00	0.00	2.78	5.84	0.00	0.00	0.92
24JUN	SE	0.00	0.00	0.14	1.54	0.24	0.00	0.00	0.00	0.00	2.05	4.42	0.00	0.00	5.12
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.18	0.37	1.02	0.26	0.00	0.00	0.16
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.18	0.15	0.42	0.26	0.00	0.00	0.56
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	NS	NS	NS	NS	NS	0.03
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21						0.21
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	NS	NS	NS	NS	NS	0.03
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26						0.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.59	0.00	NS	NS	NS	NS	NS	0.08
10SEP	SE	0.00	0.00	0.00	0.00	0.04	0.00	0.29	0.00						0.30
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	NS	NS	NS	NS	NS	0.03
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00						0.24
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.79	NS	NS	NS	NS	NS	0.13
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	< 0.005						0.29
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-38 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	106	0	200	1849	1791	538	NS	NS	NS	NS	NS	NS	4485
18MAR	SE	0	106	0	105	1124	1178	398							1683
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	473	0	12208	452	194	NS	NS	NS	NS	NS	NS	13327
31MAR	SE	0	0	473	0	5287	172	194							5314
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	414	349	1606	1645	1923	307	573	0	0	0	0	6818
09APR	SE	0	0	226	349	810	940	1418	307	471	0	0	0	0	2010
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	276	807	3778	1372	401	2313	504	1284	231	0	0	10966
15APR	SE	0	0	215	157	1252	1167	295	680	316	928	166	0	0	2130
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	94	559	202	285	714	1961	825	1233	125	0	0	0	5997
22APR	SE	0	56	177	107	142	397	1038	547	218	80	0	0	0	1286
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	58	27	182	116	230	635	188	107	0	0	0	1543
29APR	SE	0	0	58	27	182	34	155	215	99	107	0	0	0	360
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	330	302	619	72	0	256	0	530	0	0	2108
06MAY	SE	0	0	0	118	178	214	72	0	117	0	530	0	0	626
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	120	99	0	56	42	179	48	0	0	0	0	543
12MAY	SE	0	0	69	57	0	56	37	179	29	0	0	0	0	213
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	52	613	11	171	76	167	0	81	82	161	44	1459
21MAY	SE	0	0	52	370	11	171	71	127	0	47	50	81	44	451
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	24	0	0	67	79	0	216	292	0	0	678
28MAY	SE	0	0	0	24	0	0	39	50	0	122	194	0	0	239
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	237	0	603	204	31	43	185	154	51	0	40	1546
04JUN	SE	0	0	97	0	509	204	31	43	113	109	51	0	40	584
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-38 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	405	48	0	0	62	0	0	113	0	0	0	628
10JUN	SE	0	0	234	48	0	0	38	0	0	38	0	0	0	245
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	8	0	6	0	0	247	0	92	0	353
18JUN	SE	0	0	0	0	8	0	6	0	0	114	0	92	0	147
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	44	384	115	0	0	0	0	394	1029	0	0	1966
24JUN	SE	0	0	44	227	49	0	0	0	0	291	779	0	0	865
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	37	52	61	145	45	0	0	340
01JUL	SE	0	0	0	0	0	0	22	52	25	59	45	0	0	97
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	63	NS	NS	NS	NS	NS	63
29JUL	SE	0	0	0	0	0	0	0	63						63
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	77	NS	NS	NS	NS	NS	77
12AUG	SE	0	0	0	0	0	0	0	77						77
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	8	0	82	0	NS	NS	NS	NS	NS	90
10SEP	SE	0	0	0	0	8	0	41	0						42
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	34	0	NS	NS	NS	NS	NS	34
23SEP	SE	0	0	0	0	0	0	34	0						34
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	41	235	NS	NS	NS	NS	NS	276
07OCT	SE	0	0	0	0	0	0	41	1						41
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-39 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.59	0.44	0.03	0.04	0.53	0.32	0.47	0.00	0.19
09JUL	SE	0.00	0.00	0.00	0.03	0.00	0.31	0.15	0.02	0.02	0.18	0.32	0.47	0.00	0.69
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.30	0.06	0.01	0.02	0.70	0.53	0.00	0.30	0.15
22JUL	SE	0.00	0.00	0.00	0.00	0.02	0.30	0.03	0.01	0.02	0.46	0.20	0.00	0.19	0.61
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.01	0.11	0.36	0.07	0.44	0.33	0.11
05AUG	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.01	0.09	0.23	0.07	0.44	0.21	0.55
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.03	0.20	0.04	0.00	0.00	0.35	0.32	0.00	0.00	0.07
19AUG	SE	0.00	0.00	0.00	0.00	0.02	0.20	0.03	0.00	0.00	0.15	0.17	0.00	0.00	0.30
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.35	0.48	0.06	0.12	0.10	0.09
02SEP	SE	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.16	0.22	0.06	0.12	0.10	0.32
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.08	0.01	0.00	0.01	0.03	0.14	0.11	6.03	0.12	0.00	0.50
16SEP	SE	0.00	0.00	0.00	0.04	0.01	0.00	0.01	0.03	0.06	0.07	5.78	0.12	0.00	5.78
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.31	0.00	0.26	0.46	2.11	0.35	0.30	0.07	0.45	0.00	0.33
30SEP	SE	0.00	0.00	0.00	0.21	0.00	0.26	0.42	0.74	0.35	0.30	0.07	0.45	0.00	1.12
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.34	0.06	0.44	1.95	0.44	0.35	1.80	0.07	0.93	0.41	0.52
14OCT	SE	0.00	0.00	0.00	0.19	0.03	0.27	1.15	0.19	0.13	0.60	0.07	0.56	0.29	1.50
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.10	0.20	0.00	0.13	0.00	1.00	0.13	0.62	1.27	0.59	0.00	0.00	0.31
28OCT	SE	0.00	0.10	0.11	0.00	0.04	0.00	0.31	0.06	0.07	0.63	0.22	0.00	0.00	0.76
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.04	0.05	0.90	0.07	0.06	0.80	0.39	0.70	0.69	1.82	0.47	0.00	0.46
11NOV	SE	0.00	0.03	0.03	0.76	0.04	0.03	0.23	0.08	0.28	0.28	0.77	0.19	0.00	1.19
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.34	1.10	1.15	1.07	0.45	0.10	2.25	1.52	0.33	0.19	0.00	0.00	0.00	0.65
03DEC	SE	0.14	0.27	0.17	0.51	0.12	0.02	0.73	0.66	0.11	0.14	0.00	0.00	0.00	1.18
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-40 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	5	0	122	61	8	6	74	56	75	0	408
09JUL	SE	0	0	0	5	0	64	21	6	4	26	56	75	0	119
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	3	62	8	4	3	99	94	0	21	296
22JUL	SE	0	0	0	0	3	62	4	4	3	65	35	0	13	98
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	2	0	9	4	18	51	12	71	24	191
05AUG	SE	0	0	0	0	2	0	4	4	15	32	12	71	15	82
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	7	41	5	0	0	49	57	0	0	159
19AUG	SE	0	0	0	0	4	41	4	0	0	22	29	0	0	55
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	4	0	0	4	0	58	68	10	19	7	170
02SEP	SE	0	0	0	4	0	0	4	0	26	32	10	19	7	47
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	12	1	0	2	8	24	16	1063	19	0	1146
16SEP	SE	0	0	0	5	1	0	1	8	11	9	1019	19	0	1019
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	46	0	54	64	628	57	42	13	73	0	976
30SEP	SE	0	0	0	30	0	54	58	221	57	42	13	73	0	258
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	50	13	91	272	133	58	255	12	150	29	1062
14OCT	SE	0	0	0	28	6	56	161	56	22	85	12	90	20	222
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	23	63	0	27	0	139	39	102	180	105	0	0	679
28OCT	SE	0	23	35	0	8	0	43	18	12	89	39	0	0	117
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	9	15	133	15	13	112	117	116	98	321	76	0	1025
11NOV	SE	0	6	11	112	8	6	32	24	46	40	136	31	0	194
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	70	252	369	159	93	21	315	454	55	27	0	0	0	1815
03DEC	SE	28	63	55	76	24	4	102	198	18	19	0	0	0	254
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-41 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	4.73	21.43	6.33	2.67	15.00	10.13	4.38	5.63	12.75	3.33	6.08	7.70
17JUN	SE	0.00	1.87	9.73	3.18	0.67	7.94	5.21	1.44	1.75	3.55	1.02	3.31	15.12
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	2.55	28.43	13.00	7.00	4.67	12.88	9.00	2.75	7.53	3.79	0.00	7.63
01JUL	SE	0.00	1.38	15.44	12.01	2.08	1.20	2.79	2.50	1.47	1.57	1.38	0.00	20.28
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	6.86	2.00	7.33	0.00	9.50	3.13	1.13	9.67	3.84	0.00	3.62
15JUL	SE	0.00	0.00	4.56	1.53	7.33	0.00	3.24	1.59	0.52	3.95	1.14	0.00	10.35
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.71	7.07	59.40	5.20	6.00	0.20	0.80	1.40	6.00	3.20	0.86	7.57
29JUL	SE	0.00	0.43	4.23	45.22	2.96	3.83	0.20	0.49	1.17	3.48	1.28	0.55	45.85
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	1.63	6.93	6.20	6.00	7.67	2.60	0.20	3.20	7.22	0.50	0.00	3.51
12AUG	SE	0.00	0.98	2.76	1.62	2.07	3.14	2.36	0.20	2.33	4.08	0.34	0.00	7.29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.21	2.43	45.80	0.40	4.17	0.00	0.80	3.40	15.33	3.90	4.71	6.76
25AUG	SE	0.00	0.12	1.45	36.47	0.40	2.26	0.00	0.80	1.63	7.53	2.77	2.50	37.56
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.58	1.93	0.60	1.00	3.50	1.20	2.20	7.80	6.22	2.40	0.29	2.31
11SEP	SE	0.00	0.16	0.52	0.40	0.45	1.18	1.20	1.28	5.20	2.18	1.11	0.29	6.18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.17	0.50	2.00	0.80	0.67	0.60	3.00	3.60	5.11	2.30	6.29	2.09
22SEP	SE	0.00	0.08	0.43	1.30	0.58	0.49	0.60	0.71	1.08	1.47	0.70	2.87	3.92
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.46	1.57	1.40	0.80	0.00	1.00	1.00	1.20	4.56	2.40	0.29	1.22
07OCT	SE	0.00	0.30	0.61	0.87	0.37	0.00	1.00	0.77	0.97	2.24	1.56	0.29	3.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	1.00	0.38	1.07	0.00	0.80	0.50	0.60	0.20	0.00	1.78	0.60	0.00	0.58
21OCT	SE	1.00	0.16	0.66	0.00	0.37	0.22	0.40	0.20	0.00	0.60	0.34	0.00	1.52
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-42 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	215	576	58	7	160	72	5	48	224	66	83	1514
17JUN	SE	0	85	262	29	2	85	37	2	15	62	20	45	303
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	116	764	120	18	50	91	11	24	132	75	0	1401
01JUL	SE	0	63	415	111	5	13	20	3	13	28	27	0	437
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	184	18	19	0	67	4	10	170	76	0	548
15JUL	SE	0	0	123	14	19	0	23	2	4	69	22	0	147
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	32	190	547	14	64	1	1	12	105	63	12	1042
29JUL	SE	0	19	114	417	8	41	1	1	10	61	25	8	440
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	74	186	57	16	82	18	< 0.5	28	127	10	0	598
12AUG	SE	0	45	74	15	5	33	17	< 0.5	20	72	7	0	121
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	9	65	422	1	44	0	1	29	269	77	64	983
25AUG	SE	0	5	39	336	1	24	0	1	14	132	54	34	370
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	27	52	6	3	37	9	3	67	109	47	4	363
11SEP	SE	0	7	14	4	1	13	9	2	45	38	22	4	67
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	8	13	18	2	7	4	4	31	90	45	85	308
22SEP	SE	0	4	12	12	2	5	4	1	9	26	14	39	53
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	21	42	13	2	0	7	1	10	80	47	4	228
07OCT	SE	0	14	16	8	1	0	7	1	8	39	31	4	56
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	8	17	29	0	2	5	4	< 0.5	0	31	12	0	108
21OCT	SE	8	7	18	0	1	2	3	< 0.5	0	10	7	0	24
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-43 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.75	0.72	5.90	28.97	2.35	2.14	NS	NS	NS	NS	NS	NS	5.83
18MAR	SE	0.00	0.47	0.44	4.14	19.35	1.22	1.74							19.91
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	1.96	0.94	19.74	1.32	1.61	NS	NS	NS	NS	NS	NS	3.65
31MAR	SE	0.00	0.00	1.96	0.62	2.56	0.47	1.33							3.57
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.28	1.84	1.50	4.89	6.06	0.19	3.49	0.77	3.49	0.94	3.89	0.00	0.00	2.10
09APR	SE	0.28	1.24	0.87	3.95	4.33	0.12	2.65	0.77	1.73	0.94	0.54	0.00	0.00	6.97
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	1.06	4.15	0.77	2.90	4.62	0.00	0.53	1.17	1.98	3.62	0.66	1.00	0.00	1.73
15APR	SE	0.71	2.92	0.77	1.49	1.55	0.00	0.50	0.78	1.42	2.15	0.66	1.00	0.00	4.82
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.34	1.90	2.18	0.75	0.16	0.85	1.42	0.00	2.60	0.30	0.00	0.63	0.00	0.86
22APR	SE	0.34	0.75	0.87	0.60	0.16	0.85	0.74	0.00	0.97	0.30	0.00	0.63	0.00	2.12
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.91	0.55	1.09	0.60	0.54	0.75	0.59	0.12	0.38	0.00	0.00	0.00	0.43
29APR	SE	0.00	0.91	0.28	0.70	0.60	0.54	0.50	0.27	0.12	0.38	0.00	0.00	0.00	1.59
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	2.53	0.21	3.75	1.49	0.00	1.98	2.26	1.15	0.00	2.16	0.00	0.00	1.20
06MAY	SE	0.00	0.51	0.21	0.72	1.07	0.00	0.71	1.88	0.63	0.00	0.85	0.00	0.00	2.66
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.58	1.73	0.67	0.00	0.28	1.81	0.76	2.63	0.00	0.38	0.00	0.00	0.68
12MAY	SE	0.00	0.48	0.98	0.39	0.00	0.28	0.92	0.58	2.22	0.00	0.38	0.00	0.00	2.77
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.12	0.70	0.13	0.82	0.00	0.46	1.55	0.00	0.29
21MAY	SE	0.00	0.00	0.00	0.00	0.05	0.12	0.70	0.13	0.47	0.00	0.46	0.90	0.00	1.33
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.55	0.38	0.00	0.00	0.76	0.76	0.18	2.78	0.23	0.00	0.00	0.43
28MAY	SE	0.00	0.00	0.55	0.22	0.00	0.00	0.46	0.29	0.18	0.93	0.23	0.00	0.00	1.27
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.16	0.61	0.00	0.05	0.00	0.07	0.13	0.00	1.96	0.00	0.00	1.21	0.32
04JUN	SE	0.00	0.16	0.61	0.00	0.05	0.00	0.04	0.13	0.00	1.15	0.00	0.00	1.21	1.79
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-43 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.21	0.95	0.00	0.05	0.61	0.26	0.78	0.00	1.12	0.00	0.00	0.43	0.34
10JUN	SE	0.00	0.12	0.55	0.00	0.05	0.61	0.26	0.78	0.00	0.65	0.00	0.00	0.43	1.40
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.58	0.47	0.00	0.54	1.55	0.00	0.57	0.00	0.29
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.48	0.37	0.00	0.25	1.32	0.00	0.57	0.00	1.58
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.36	1.30	0.69	0.27	0.11	0.54	1.57	0.14	1.95	4.14	1.91	1.13	1.08
24JUN	SE	0.00	0.36	0.80	0.32	0.17	0.11	0.27	0.47	0.14	0.95	1.09	0.96	1.13	2.34
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.17	0.00	0.04	0.22	0.42	0.33	0.35	1.51	1.79	0.00	1.09	0.46
01JUL	SE	0.00	0.00	0.17	0.00	0.04	0.22	0.38	0.19	0.23	0.30	1.13	0.00	1.09	1.70
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.63	NS	NS	NS	NS	NS	0.08
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.63						0.64
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	1.05	0.62	0.00	0.00	NS	NS	NS	NS	NS	0.21
12AUG	SE	0.00	0.00	0.00	0.00	0.64	0.62	0.00	0.00						0.90
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.28	NS	NS	NS	NS	NS	0.07
26AUG	SE	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.28						0.37
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	NS	NS	NS	NS	NS	0.07
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00						0.58
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.79	NS	NS	NS	NS	NS	0.25
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.79						1.06
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.27	NS	NS	NS	NS	NS	0.11
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.27						0.64
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-44 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	172	231	872	6035	487	300	NS	NS	NS	NS	NS	NS	8098
18MAR	SE	0	107	142	611	4032	254	244							4097
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	630	138	4113	274	225	NS	NS	NS	NS	NS	NS	5381
31MAR	SE	0	0	630	92	533	97	186							856
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	59	422	484	723	1262	39	488	231	577	133	686	0	0	5104
09APR	SE	59	284	280	583	903	24	371	231	286	133	95	0	0	1272
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	221	952	249	429	963	0	74	348	327	512	117	161	0	4353
15APR	SE	149	669	249	221	323	0	69	233	235	305	117	161	0	965
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	70	436	702	111	33	177	198	0	431	42	0	101	0	2301
22APR	SE	70	172	280	88	33	177	103	0	160	42	0	101	0	449
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	209	177	161	126	112	104	175	20	53	0	0	0	1139
29APR	SE	0	209	90	103	126	112	70	81	20	53	0	0	0	325
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	580	69	555	311	0	277	674	190	0	382	0	0	3037
06MAY	SE	0	117	69	106	222	0	99	560	104	0	150	0	0	660
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	133	558	99	0	59	253	226	435	0	67	0	0	1829
12MAY	SE	0	109	316	57	0	59	129	173	368	0	67	0	0	552
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	11	25	98	37	135	0	81	249	0	637
21MAY	SE	0	0	0	0	11	25	98	37	78	0	81	144	0	213
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	178	56	0	0	106	226	30	393	41	0	0	1030
28MAY	SE	0	0	178	33	0	0	64	87	30	132	41	0	0	254
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	37	195	0	9	0	10	38	0	277	0	0	86	654
04JUN	SE	0	37	195	0	9	0	6	38	0	162	0	0	86	274
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-44 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	48	306	0	10	127	37	232	0	158	0	0	30	949
10JUN	SE	0	28	176	0	10	127	37	232	0	91	0	0	30	336
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	121	66	0	89	219	0	92	0	587
18JUN	SE	0	0	0	0	0	100	51	0	42	187	0	92	0	240
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	82	419	103	56	22	75	467	23	276	731	308	80	2641
24JUN	SE	0	82	256	48	36	22	37	140	23	134	193	154	80	428
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	56	0	8	45	59	99	58	214	316	0	78	933
01JUL	SE	0	0	56	0	8	45	53	57	39	42	200	0	78	246
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	6	189	NS	NS	NS	NS	NS	195
29JUL	SE	0	0	0	0	0	0	6	189						189
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	219	129	0	0	NS	NS	NS	NS	NS	348
12AUG	SE	0	0	0	0	134	129	0	0						186
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	36	0	0	0	84	NS	NS	NS	NS	NS	119
26AUG	SE	0	0	0	36	0	0	0	84						91
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	81	0	NS	NS	NS	NS	NS	81
10SEP	SE	0	0	0	0	0	0	81	0						81
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	253	0	235	NS	NS	NS	NS	NS	488
23SEP	SE	0	0	0	0	0	146	0	235						277
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	81	79	NS	NS	NS	NS	NS	160
07OCT	SE	0	0	0	0	0	0	81	79						113
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-45 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.13	0.31	0.08	0.02	0.44	0.18	0.37	2.92	0.62	1.16	0.56	0.52
09JUL	SE	0.00	0.00	0.07	0.15	0.05	0.01	0.13	0.10	0.22	0.72	0.29	0.91	0.45	1.32
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.10	0.10	0.09	0.00	0.01	0.17	0.32	0.11	1.08	0.72	0.53	0.38	0.28
22JUL	SE	0.00	0.08	0.03	0.09	0.00	0.01	0.06	0.10	0.03	0.57	0.23	0.38	0.38	0.83
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.16	0.30	0.14	0.00	0.14	0.12	0.25	0.36	0.57	0.24	0.43	0.21
05AUG	SE	0.00	0.00	0.09	0.12	0.04	0.00	0.06	0.04	0.12	0.07	0.40	0.12	0.43	0.63
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.03	0.00	0.13	0.03	0.00	0.05	0.03	0.21	0.60	0.82	0.23	0.10	0.17
19AUG	SE	0.00	0.03	0.00	0.13	0.02	0.00	0.03	0.02	0.10	0.34	0.34	0.23	0.10	0.56
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.02	0.17	0.00	0.00	0.00	0.24	0.36	0.29	1.66	0.20	0.23	0.20	0.26
02SEP	SE	0.00	0.02	0.08	0.00	0.00	0.00	0.09	0.26	0.13	1.35	0.20	0.23	0.20	1.44
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.12	0.08	0.00	0.00	0.88	0.75	0.60	0.76	0.49	0.24	0.31	0.33
16SEP	SE	0.00	0.00	0.05	0.04	0.00	0.00	0.83	0.48	0.41	0.39	0.41	0.12	0.31	1.24
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.09	0.18	0.74	0.15	0.02	0.02	0.11	0.39	0.40	0.52	0.00	0.57	0.09	0.25
30SEP	SE	0.06	0.09	0.30	0.08	0.02	0.01	0.05	0.25	0.13	0.34	0.00	0.47	0.09	0.73
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.52	0.35	0.65	0.74	0.49	1.10	1.11	0.55	3.35	1.42	1.28	3.36	1.15
14OCT	SE	0.00	0.31	0.10	0.22	0.39	0.27	0.36	0.47	0.20	1.03	0.83	0.31	1.51	2.21
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	2.88	2.43	0.12	0.11	0.01	2.17	0.25	1.31	1.44	0.61	0.22	0.00	0.89
28OCT	SE	0.00	0.86	0.86	0.06	0.04	0.01	1.49	0.11	0.23	0.78	0.24	0.08	0.00	2.11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.80	1.21	0.52	0.55	0.14	0.04	0.55	0.46	0.58	0.50	3.20	1.56	0.08	0.78
11NOV	SE	0.24	0.43	0.19	0.29	0.05	0.02	0.17	0.12	0.13	0.22	0.78	0.75	0.05	1.29
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	2.04	5.08	0.92	0.47	0.28	0.04	1.69	0.57	0.83	0.31	0.07	0.09	0.00	0.95
03DEC	SE	0.73	0.46	0.28	0.10	0.12	0.02	0.48	0.13	0.29	0.19	0.04	0.05	0.00	1.10
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-46 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	43	46	17	4	61	54	61	413	109	186	40	1033
09JUL	SE	0	0	21	22	11	3	18	31	37	102	50	146	32	198
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	23	31	13	0	2	24	95	17	153	127	86	27	599
22JUL	SE	0	18	10	13	0	2	8	31	6	80	40	61	27	119
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	50	45	29	0	20	35	41	52	101	38	30	441
05AUG	SE	0	0	30	17	8	0	8	12	20	9	70	19	30	90
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	7	0	19	7	0	7	8	35	84	144	37	7	355
19AUG	SE	0	7	0	19	4	0	5	5	17	48	59	37	7	89
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	5	56	0	0	0	33	109	47	235	36	37	14	572
02SEP	SE	0	5	27	0	0	0	12	77	22	191	36	37	14	216
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	39	12	0	0	124	222	99	107	86	39	22	750
16SEP	SE	0	0	17	7	0	0	116	142	69	56	73	19	22	219
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	19	41	237	22	4	3	15	116	67	74	0	91	6	695
30SEP	SE	13	21	97	12	4	2	7	75	22	48	0	75	6	156
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	119	114	96	154	101	154	330	90	474	250	205	239	2325
14OCT	SE	0	72	31	32	81	56	51	139	33	145	146	50	107	310
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	660	781	18	23	3	304	74	216	203	107	36	0	2425
28OCT	SE	0	198	276	9	9	2	208	33	39	110	42	14	0	419
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	167	277	167	82	29	9	77	136	96	70	564	250	6	1929
11NOV	SE	51	99	62	43	11	4	23	35	22	31	138	121	4	234
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	427	1166	296	69	59	9	237	170	137	44	13	15	0	2642
03DEC	SE	153	106	89	14	25	3	67	39	47	27	7	8	0	229
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-47 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	2.18	5.57	4.67	0.00	5.67	0.50	1.50	8.50	5.69	0.72	4.33	3.28
17JUN	SE	0.00	0.82	2.70	3.28	0.00	3.18	0.33	1.13	5.12	1.47	0.39	1.32	7.78
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	1.64	2.43	2.00	0.00	0.00	2.38	1.75	0.25	5.07	1.74	2.33	1.63
01JUL	SE	0.00	1.35	1.54	2.00	0.00	0.00	1.27	1.05	0.25	1.06	0.62	0.85	3.63
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.27	1.00	4.33	2.67	0.00	1.13	0.25	0.00	6.07	2.58	0.42	1.56
15JUL	SE	0.00	0.19	1.00	3.33	2.19	0.00	0.74	0.16	0.00	2.99	1.00	0.23	5.24
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	2.60	2.63	1.21	6.40	0.60	2.83	0.00	0.40	3.00	3.67	1.80	7.71	2.74
29JUL	SE	1.47	1.14	0.59	3.41	0.60	2.09	0.00	0.24	2.14	1.94	0.74	3.40	6.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.40	3.42	7.36	0.00	0.40	1.83	10.60	0.20	0.80	3.67	1.20	0.29	2.51
12AUG	SE	0.40	1.30	3.70	0.00	0.24	1.64	9.86	0.20	0.49	1.65	0.81	0.18	10.92
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	2.20	0.58	1.50	18.40	1.00	0.00	1.40	1.40	0.80	1.67	2.00	4.57	2.96
25AUG	SE	1.20	0.27	0.51	17.65	1.00	0.00	1.40	1.40	0.80	0.91	1.31	2.45	18.10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	2.00	3.79	2.00	0.20	0.40	1.33	0.40	0.20	2.00	1.78	1.00	0.00	1.26
11SEP	SE	0.89	2.30	0.62	0.20	0.24	0.99	0.40	0.20	1.55	1.41	0.79	0.00	3.57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	4.80	0.58	0.07	2.20	0.00	0.17	0.20	3.20	1.60	2.56	1.80	0.71	1.49
22SEP	SE	3.01	0.21	0.07	0.97	0.00	0.17	0.20	1.32	0.81	0.73	0.55	0.57	3.70
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.80	0.42	0.50	1.20	0.00	0.33	0.40	0.20	1.00	1.89	0.20	0.14	0.59
07OCT	SE	0.58	0.22	0.29	0.73	0.00	0.33	0.24	0.20	0.55	0.79	0.13	0.14	1.48
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.40	0.46	0.43	0.20	0.40	0.33	2.00	0.20	0.00	0.89	0.30	0.14	0.48
21OCT	SE	0.40	0.20	0.20	0.20	0.40	0.21	1.55	0.20	0.00	0.45	0.15	0.14	1.78
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-48 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	99	150	43	0	60	4	2	73	100	14	59	604
17JUN	SE	0	37	73	30	0	34	2	1	44	26	8	18	108
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	74	65	18	0	0	17	2	2	89	34	32	334
01JUL	SE	0	61	41	18	0	0	9	1	2	19	12	12	81
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	12	27	40	7	0	8	< 0.5	0	107	51	6	257
15JUL	SE	0	9	27	31	6	0	5	< 0.5	0	53	20	3	70
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	20	119	33	59	2	30	0	< 0.5	26	64	35	105	493
29JUL	SE	11	52	16	31	2	22	0	< 0.5	18	34	15	46	91
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	3	155	198	0	1	20	75	< 0.5	7	64	24	4	551
12AUG	SE	3	59	99	0	1	17	70	< 0.5	4	29	16	3	140
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	17	27	40	170	3	0	10	2	7	29	39	62	405
25AUG	SE	9	12	14	163	3	0	10	2	7	16	26	33	170
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	15	172	54	2	1	14	3	< 0.5	17	31	20	0	329
11SEP	SE	7	104	17	2	1	11	3	< 0.5	13	25	16	0	111
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	36	27	2	20	0	2	1	4	14	45	35	10	196
22SEP	SE	23	9	2	9	0	2	1	2	7	13	11	8	33
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	6	19	13	11	0	4	3	< 0.5	9	33	4	2	104
07OCT	SE	4	10	8	7	0	4	2	< 0.5	5	14	3	2	22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	3	21	12	2	1	4	14	< 0.5	0	16	6	2	80
21OCT	SE	3	9	5	2	1	2	11	< 0.5	0	8	3	2	18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-49 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-49 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-50 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-50 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-51 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.66	1.53	2.14	23.14	42.05	123.36	21.19	NS	NS	NS	NS	NS	NS	30.58
04MAR	SE	0.47	0.85	0.76	10.97	18.73	49.23	6.12							54.16
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	11.88	18.06	12.36	11.44	24.06	10.72	NS	NS	NS	NS	NS	NS	12.65
18MAR	SE	0.00	11.12	6.83	8.11	1.14	7.30	1.70							17.14
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.69	NS	NS	NS	NS	NS	NS	0.11
31MAR	SE	0.00	0.00	0.00	0.00	0.05	0.00	0.41							0.42
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-51 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-52 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	139	351	690	3419	8760	25592	2962	NS	NS	NS	NS	NS	NS	41913
04MAR	SE	99	195	243	1620	3901	10213	856							11090
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	2725	5813	1826	2383	4991	1498	NS	NS	NS	NS	NS	NS	19236
18MAR	SE	0	2551	2199	1199	237	1515	237							3897
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	11	0	97	NS	NS	NS	NS	NS	NS	108
31MAR	SE	0	0	0	0	11	0	58							59
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-52 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-53 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	5.17	12.30	15.84	88.61	499.12	808.42	51.40	NS	NS	NS	NS	NS	NS	211.55
04MAR	SE	3.12	4.88	5.30	25.90	195.72	439.11	23.00							482.06
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	9.65	3577.56	1158.49	1095.05	60.73	122.79	36.50	NS	NS	NS	NS	NS	NS	865.83
18MAR	SE	5.83	2204.17	438.04	576.17	18.55	38.06	5.57							2320.36
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	5.92	296.19	1435.19	1084.63	515.50	31.43	14.60	NS	NS	NS	NS	NS	NS	483.35
31MAR	SE	4.98	181.10	1165.98	461.76	189.20	8.48	3.73							1281.19
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	360.71	1062.77	458.48	776.98	198.49	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	219.81
09APR	SE	178.65	681.18	102.52	197.77	85.65	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	743.56
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	226.32	275.96	126.10	248.40	23.24	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	69.24
15APR	SE	195.07	111.07	58.43	82.82	5.88	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	246.37
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	666.53	1056.76	137.77	133.00	11.00	0.43	0.07	0.00	0.00	0.00	0.00	0.00	0.00	154.27
22APR	SE	391.90	307.54	51.78	56.89	4.11	0.43	0.05	0.00	0.00	0.00	0.00	0.00	0.00	504.09
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	2544.43	138.53	25.30	116.20	272.62	36.04	1.03	0.00	0.00	0.43	0.00	0.00	0.00	241.12
29APR	SE	1300.61	103.75	17.00	40.95	206.33	32.23	0.61	0.00	0.00	0.43	0.00	0.00	0.00	1322.09
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	815.86	585.33	21.89	43.19	39.95	68.13	0.45	0.16	0.17	0.38	0.00	0.32	0.00	121.22
06MAY	SE	559.80	349.19	7.83	12.31	21.27	12.20	0.45	0.16	0.17	0.38	0.00	0.32	0.00	660.39
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	5.82	1.26	8.63	2.04	4.10	0.27	0.22	0.00	0.00	0.45	0.00	0.00	0.00	1.75
12MAY	SE	2.37	0.78	5.67	1.21	1.71	0.27	0.22	0.00	0.00	0.45	0.00	0.00	0.00	6.56
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
21MAY	SE	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-53 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-54 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	1080	2822	5098	13091	103985	167712	7185	NS	NS	NS	NS	NS	NS	300973
04MAR	SE	653	1119	1706	3826	40777	91095	3216							99953
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	2017	820766	372815	161780	12653	25473	5103	NS	NS	NS	NS	NS	NS	1400606
18MAR	SE	1219	505681	140966	85121	3864	7895	778							531893
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	1238	67951	461860	160239	107398	6519	2041	NS	NS	NS	NS	NS	NS	807247
31MAR	SE	1041	41549	375226	68219	39418	1759	522							385659
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	75392	243822	147544	114789	41353	16	5	0	0	0	0	0	0	622921
09APR	SE	37340	156277	32992	29218	17844	16	5	0	0	0	0	0	0	167563
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	47305	63311	40581	36698	4842	0	8	0	0	0	0	0	0	192745
15APR	SE	40773	25482	18804	12235	1226	0	5	0	0	0	0	0	0	53071
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	139314	242442	44335	19649	2291	89	10	0	0	0	0	0	0	448130
22APR	SE	81913	70556	16663	8405	856	89	6	0	0	0	0	0	0	109713
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	531818	31781	8141	17167	56797	7476	143	0	0	61	0	0	0	653384
29APR	SE	271844	23802	5470	6050	42985	6686	85	0	0	61	0	0	0	276450
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	170524	134286	7044	6381	8323	14135	62	48	27	54	0	51	0	340937
06MAY	SE	117005	80110	2519	1819	4431	2532	62	48	27	54	0	51	0	141928
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	1216	289	2777	301	854	56	31	0	0	64	0	0	0	5587
12MAY	SE	496	178	1825	179	356	56	31	0	0	64	0	0	0	1943
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	268	0	0	0	0	0	0	0	0	0	0	268
21MAY	SE	0	0	215	0	0	0	0	0	0	0	0	0	0	215
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-54 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-55 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	90.86	17.59	4.58	34.24	72.06	13.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.88
29APR	SE	22.59	8.97	1.50	12.86	65.17	10.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.52
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	982.26	587.93	26.78	42.37	46.83	376.34	3.24	1.30	0.15	0.40	0.00	0.00	0.00	159.05
06MAY	SE	770.21	362.90	10.94	10.45	27.39	67.86	2.83	0.75	0.15	0.40	0.00	0.00	0.00	854.70
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	515.61	178.82	125.31	186.30	115.34	23.95	18.53	2.46	4.16	0.00	0.00	0.00	0.00	90.04
12MAY	SE	194.33	83.46	65.81	104.17	51.78	12.02	9.91	1.16	1.41	0.00	0.00	0.00	0.00	250.68
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	40.52	321.26	174.40	94.30	63.19	80.44	13.62	0.54	1.87	0.00	0.48	0.52	0.00	60.86
21MAY	SE	23.76	88.15	49.65	38.35	31.75	43.11	6.81	0.27	1.20	0.00	0.48	0.52	0.00	123.23
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	28.65	59.71	53.43	36.28	233.94	2.23	2.67	5.52	0.17	4.07	0.00	0.00	0.00	32.82
28MAY	SE	18.13	28.89	13.94	22.98	92.01	1.85	1.55	2.25	0.17	1.15	0.00	0.00	0.00	101.80
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	53.05	11.56	6.27	2.31	10.96	43.58	53.53	4.61	0.34	0.00	0.00	1.02	0.00	14.40
04JUN	SE	39.62	3.35	2.04	1.94	9.00	29.31	17.74	2.87	0.34	0.00	0.00	1.02	0.00	53.42
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-55 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	22.90	17.27	27.13	7.09	3.83	64.25	10.18	0.18	3.13	0.28	0.00	0.00	0.00	12.02
10JUN	SE	5.03	7.16	11.44	4.07	1.70	31.92	3.66	0.18	0.65	0.28	0.00	0.00	0.00	35.49
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	32.92	10.02	6.64	12.41	3.90	34.07	25.37	3.64	0.57	2.55	0.67	2.72	8.69	11.09
18JUN	SE	32.30	2.16	2.11	3.41	1.74	22.49	11.52	1.43	0.42	1.57	0.67	1.11	8.69	42.28
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	37.56	9.59	5.08	5.67	64.97	23.17	5.69	10.82	1.82	2.26	0.58	0.00	0.61	12.91
24JUN	SE	22.43	2.14	1.22	0.59	64.08	7.87	2.16	5.52	1.25	0.80	0.58	0.00	0.61	68.67
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.63	0.55	0.49	7.91	13.77	8.05	0.18	0.13	0.00	0.00	0.00	1.09	2.52
01JUL	SE	0.00	0.63	0.35	0.49	5.05	3.86	2.35	0.18	0.13	0.00	0.00	0.00	1.09	6.92
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.15	3.03	25.42	1.12	NS	NS	NS	NS	NS	3.71
15JUL	SE	0.00	0.00	0.00	0.00	0.15	0.71	23.61	1.12						23.65
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.68	0.36	0.46	1.97	2.70	12.56	3.25	NS	NS	NS	NS	NS	2.75
29JUL	SE	0.00	0.68	0.36	0.46	0.75	0.71	1.85	0.93						2.48
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.35	4.03	14.02	9.99	2.39	NS	NS	NS	NS	NS	3.85
12AUG	SE	0.00	0.00	0.00	0.35	3.52	7.53	5.12	1.25						9.85
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	1.07	0.00	0.81	2.85	1.17	1.03	3.40	0.52	NS	NS	NS	NS	NS	1.36
26AUG	SE	1.07	0.00	0.81	0.22	0.25	0.32	1.56	0.26						2.12
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.31	0.79	2.81	2.12	1.06	NS	NS	NS	NS	NS	0.89
10SEP	SE	0.00	0.00	0.00	0.31	0.46	1.61	1.37	0.67						2.28
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.16	0.52	0.41	0.00	0.00	0.26	NS	NS	NS	NS	NS	0.17
23SEP	SE	0.00	0.00	0.16	0.17	0.25	0.00	0.00	0.26						0.43
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.56	0.00	1.31	0.86	1.32	NS	NS	NS	NS	NS	0.51
07OCT	SE	0.00	0.00	0.00	0.37	0.00	0.69	0.49	0.54						1.07
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-56 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	18991	4035	1473	5058	15012	2723	0	0	0	0	0	0	0	47294
29APR	SE	4722	2059	483	1900	13576	2171	0	0	0	0	0	0	0	14813
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	205305	134884	8619	6260	9757	78074	452	387	24	57	0	0	0	443820
06MAY	SE	160984	83257	3520	1544	5705	14077	395	223	24	57	0	0	0	181916
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	107770	41025	40328	27523	24030	4968	2590	733	689	0	0	0	0	249655
12MAY	SE	40617	19148	21177	15390	10787	2493	1385	346	234	0	0	0	0	53164
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	8469	73704	56124	13932	13164	16687	1903	161	309	0	85	83	0	184622
21MAY	SE	4966	20224	15978	5665	6614	8942	952	82	199	0	85	83	0	29082
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	5989	13700	17195	5360	48739	464	373	1647	28	575	0	0	0	94069
28MAY	SE	3790	6628	4485	3395	19168	384	216	671	28	162	0	0	0	21402
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	11087	2651	2018	342	2284	9041	7483	1374	56	0	0	164	0	36501
04JUN	SE	8281	769	656	287	1876	6081	2479	856	56	0	0	164	0	10821
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-56 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	4786	3961	8730	1048	799	13328	1423	55	517	40	0	0	0	34687
10JUN	SE	1051	1642	3681	601	355	6621	512	55	108	40	0	0	0	7871
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	6880	2300	2135	1833	813	7068	3546	1085	94	361	117	437	618	27287
18JUN	SE	6751	494	680	504	362	4665	1611	427	69	222	117	178	618	8467
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	7851	2201	1636	838	13535	4807	795	3226	300	320	103	0	43	35656
24JUN	SE	4687	491	393	88	13350	1633	302	1645	207	113	103	0	43	14357
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	145	175	72	1648	2857	1125	52	21	0	0	0	78	6174
01JUL	SE	0	145	114	72	1051	800	329	52	21	0	0	0	78	1379
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	32	628	3553	333	NS	NS	NS	NS	NS	4545
15JUL	SE	0	0	0	0	32	147	3301	333						3321
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	156	116	68	411	561	1756	970	NS	NS	NS	NS	NS	4038
29JUL	SE	0	156	116	68	156	148	259	277						482
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	51	839	2908	1397	713	NS	NS	NS	NS	NS	5908
12AUG	SE	0	0	0	51	732	1563	716	374						1907
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	223	0	260	421	244	213	476	156	NS	NS	NS	NS	NS	1992
26AUG	SE	223	0	260	33	53	67	218	78						424
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	45	165	583	296	315	NS	NS	NS	NS	NS	1404
10SEP	SE	0	0	0	45	96	334	191	201						447
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	50	76	85	0	0	78	NS	NS	NS	NS	NS	290
23SEP	SE	0	0	50	25	53	0	0	78						110
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	83	0	271	120	393	NS	NS	NS	NS	NS	868
07OCT	SE	0	0	0	55	0	143	69	160						232
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-57 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	2.79	0.25	0.16	0.65	7.87	17.34	1.98	1.25	0.15	0.07	0.25	0.51	0.47	2.59
09JUL	SE	0.78	0.10	0.06	0.31	4.46	3.49	0.53	0.24	0.07	0.07	0.11	0.13	0.36	5.77
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.33	0.03	0.03	0.00	0.00	6.54	1.06	1.27	0.99	0.06	0.11	0.14	0.10	0.82
22JUL	SE	0.20	0.03	0.03	0.00	0.00	3.10	0.49	0.42	0.39	0.06	0.11	0.14	0.10	3.20
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.03	0.00	0.02	2.14	6.11	21.85	1.26	0.74	0.59	0.06	0.00	0.11	0.00	2.53
05AUG	SE	0.03	0.00	0.02	0.69	2.24	7.54	0.62	0.20	0.19	0.06	0.00	0.11	0.00	7.92
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.06	0.00	0.00	5.18	8.72	1.13	0.20	0.37	0.00	0.07	0.00	0.00	1.21
19AUG	SE	0.00	0.06	0.00	0.00	2.13	3.78	0.39	0.09	0.14	0.00	0.07	0.00	0.00	4.36
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.08	0.22	0.10	2.78	1.77	0.20	0.39	0.77	0.00	0.00	0.00	0.00	0.49
02SEP	SE	0.00	0.08	0.07	0.06	1.24	0.85	0.10	0.12	0.17	0.00	0.00	0.00	0.00	1.53
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.03	0.29	0.20	0.34	0.59	0.35	0.13	0.30	0.11	0.07	0.00	0.00	0.18
16SEP	SE	0.00	0.03	0.22	0.09	0.11	0.22	0.15	0.08	0.07	0.07	0.07	0.00	0.00	0.40
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.03	0.05	0.28	0.23	0.89	0.33	0.46	0.12	0.09	0.00	0.00	0.00	0.00	0.19
30SEP	SE	0.03	0.03	0.13	0.10	0.80	0.18	0.38	0.05	0.04	0.00	0.00	0.00	0.00	0.92
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.08	0.21	0.13	0.08	0.39	0.16	0.29	0.20	0.00	0.41	0.12	0.20	0.17
14OCT	SE	0.00	0.05	0.07	0.07	0.04	0.07	0.05	0.12	0.08	0.00	0.24	0.12	0.12	0.35
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.19	0.11	0.00	0.07	0.41	0.49	0.08	0.27	0.81	0.37	0.15	0.00	0.23
28OCT	SE	0.00	0.08	0.06	0.00	0.03	0.11	0.09	0.02	0.12	0.22	0.19	0.09	0.00	0.38
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.03	0.02	0.05	0.00	0.28	0.32	0.14	0.23	0.17	0.33	0.81	0.26	0.28	0.22
11NOV	SE	0.03	0.02	0.02	0.00	0.07	0.09	0.05	0.11	0.08	0.17	0.25	0.13	0.16	0.41
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.08	0.02	0.33	0.61	0.22	0.24	0.04	0.09	0.14	0.42	0.12	0.06	0.00	0.18
03DEC	SE	0.04	0.02	0.16	0.17	0.07	0.07	0.03	0.05	0.06	0.16	0.05	0.04	0.00	0.32
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-58 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	582	58	52	96	1639	3596	277	371	25	10	44	82	33	6866
09JUL	SE	163	23	18	45	929	724	75	73	12	10	19	20	25	1196
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	69	6	8	0	0	1357	148	379	164	8	20	23	7	2188
22JUL	SE	42	6	8	0	0	642	69	126	64	8	20	23	7	663
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	7	0	8	316	1272	4533	176	220	97	8	0	17	0	6655
05AUG	SE	7	0	8	101	466	1564	86	60	32	8	0	17	0	1638
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	14	0	0	1080	1809	158	60	61	0	12	0	0	3193
19AUG	SE	0	14	0	0	445	784	54	25	23	0	12	0	0	904
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	19	71	15	579	368	28	117	127	0	0	0	0	1323
02SEP	SE	0	19	24	8	258	177	14	37	28	0	0	0	0	318
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	6	92	29	70	122	49	38	50	16	12	0	0	484
16SEP	SE	0	6	70	13	24	46	22	22	11	9	12	0	0	96
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	6	11	91	34	186	68	64	35	14	0	0	0	0	510
30SEP	SE	6	8	42	14	166	37	53	16	6	0	0	0	0	185
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	18	69	19	16	82	22	87	34	0	72	19	14	451
14OCT	SE	0	12	23	10	9	14	6	36	13	0	42	19	8	69
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	43	35	0	15	84	68	25	45	115	65	25	0	520
28OCT	SE	0	18	18	0	7	22	13	7	20	32	34	15	0	65
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	6	5	15	0	58	66	20	69	28	46	143	42	20	519
11NOV	SE	6	5	7	0	15	20	7	32	13	24	45	20	11	71
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	16	4	106	91	46	49	6	27	23	59	21	9	0	456
03DEC	SE	9	4	50	25	15	15	4	14	9	22	9	6	0	68
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-59 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.82	0.00	8.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
17JUN	SE	0.00	0.72	0.00	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	1.36	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14
01JUL	SE	0.00	0.92	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.96
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.13	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
29JUL	SE	0.00	0.09	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.20	0.21	0.14	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
12AUG	SE	0.20	0.13	0.14	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
25AUG	SE	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11SEP	SE	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22SEP	SE	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
07OCT	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
21OCT	SE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-60 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	37	0	80	0	0	0	0	0	0	0	0	117
17JUN	SE	0	33	0	17	0	0	0	0	0	0	0	0	37
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	62	8	0	0	0	0	0	0	0	0	1	71
01JUL	SE	0	42	8	0	0	0	0	0	0	0	0	1	42
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	6	0	6	0	0	0	0	0	0	0	0	11
29JUL	SE	0	4	0	6	0	0	0	0	0	0	0	0	7
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	2	9	4	4	0	0	0	0	0	0	0	0	18
12AUG	SE	2	6	4	2	0	0	0	0	0	0	0	0	8
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	6	0	0	0	0	0	0	0	0	0	0	6
25AUG	SE	0	4	0	0	0	0	0	0	0	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
11SEP	SE	0	3	0	0	0	0	0	0	0	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
22SEP	SE	0	3	0	0	0	0	0	0	0	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
07OCT	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
21OCT	SE	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-61 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.22	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03
04MAR	SE	0.00	0.00	0.22	0.00	0.00	0.00	0.00							0.22
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.25	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.04
18MAR	SE	0.00	0.00	0.25	0.00	0.00	0.00	0.00							0.25
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.73	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.10
31MAR	SE	0.00	0.00	0.73	0.00	0.00	0.00	0.00							0.73
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
09APR	SE	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.22	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
15APR	SE	0.00	0.00	0.00	0.22	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
22APR	SE	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
29APR	SE	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
06MAY	SE	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12MAY	SE	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.38	0.00	0.17	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
28MAY	SE	0.38	0.00	0.17	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
04JUN	SE	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-61 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.55	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
10JUN	SE	0.55	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
18JUN	SE	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-62 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	71	0	0	0	0	NS	NS	NS	NS	NS	NS	71
04MAR	SE	0	0	71	0	0	0	0							71
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	82	0	0	0	0	NS	NS	NS	NS	NS	NS	82
18MAR	SE	0	0	82	0	0	0	0							82
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	236	0	0	0	0	NS	NS	NS	NS	NS	NS	236
31MAR	SE	0	0	236	0	0	0	0							236
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	117	0	0	0	0	0	0	0	0	0	0	0	0	117
09APR	SE	117	0	0	0	0	0	0	0	0	0	0	0	0	117
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	33	36	0	0	0	0	0	0	0	0	69
15APR	SE	0	0	0	33	36	0	0	0	0	0	0	0	0	49
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	330	0	0	0	0	0	0	0	0	0	0	330
22APR	SE	0	0	174	0	0	0	0	0	0	0	0	0	0	174
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	27	0	0	0	0	0	0	0	0	0	27
29APR	SE	0	0	0	27	0	0	0	0	0	0	0	0	0	27
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	121	0	0	0	0	0	0	0	0	0	0	0	121
06MAY	SE	0	70	0	0	0	0	0	0	0	0	0	0	0	70
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	61	0	0	0	0	0	0	0	0	0	0	61
12MAY	SE	0	0	61	0	0	0	0	0	0	0	0	0	0	61
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	80	0	55	0	32	0	0	0	0	0	0	0	0	167
28MAY	SE	80	0	55	0	32	0	0	0	0	0	0	0	0	102
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	44	0	0	0	0	0	0	0	0	0	0	0	0	44
04JUN	SE	44	0	0	0	0	0	0	0	0	0	0	0	0	44
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-62 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	115	0	70	0	0	0	0	0	0	0	0	0	0	185
10JUN	SE	115	0	70	0	0	0	0	0	0	0	0	0	0	134
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	38	0	0	0	0	0	0	0	0	0	0	38
18JUN	SE	0	0	38	0	0	0	0	0	0	0	0	0	0	38
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-63 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09JUL	SE	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
22JUL	SE	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
19AUG	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
14OCT	SE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.06	0.08	0.02	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02
28OCT	SE	0.06	0.05	0.02	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.08
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.10	0.02	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.03	0.03	0.13	0.03
11NOV	SE	0.06	0.02	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.03	0.03	0.07	0.11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.12	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.09	0.03	0.00	0.04
03DEC	SE	0.05	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.06	0.03	0.00	0.11
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-64 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	17	8	0	0	0	0	0	0	0	0	0	0	0	25
09JUL	SE	11	8	0	0	0	0	0	0	0	0	0	0	0	13
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	8	0	0	0	0	0	0	0	0	0	0	0	0	8
22JUL	SE	8	0	0	0	0	0	0	0	0	0	0	0	0	8
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	3	0	0	0	0	0	0	0	0	3
19AUG	SE	0	0	0	0	3	0	0	0	0	0	0	0	0	3
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	9	0	0	0	0	0	0	0	0	0	0	9
16SEP	SE	0	0	9	0	0	0	0	0	0	0	0	0	0	9
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	8	0	0	0	0	0	0	0	0	0	0	8
14OCT	SE	0	0	8	0	0	0	0	0	0	0	0	0	0	8
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	12	18	6	4	0	2	0	0	0	0	5	0	0	46
28OCT	SE	12	11	6	4	0	2	0	0	0	0	5	0	0	18
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	21	5	0	0	2	3	3	0	0	0	6	6	10	55
11NOV	SE	12	5	0	0	2	2	3	0	0	0	6	6	5	17
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	24	15	26	0	0	0	0	0	7	12	16	5	0	104
03DEC	SE	10	9	10	0	0	0	0	0	5	6	10	5	0	21
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-65 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-66 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-67 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
06MAY	SE	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	540.24	808.28	12.71	0.18	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	104.82
21MAY	SE	183.35	415.35	7.37	0.18	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	454.09
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	45179.19	10818.36	1208.47	11.01	1.30	1.46	0.43	0.00	0.14	0.00	4.20	0.00	0.00	4401.89
28MAY	SE	4129.91	3004.52	658.66	10.05	0.72	1.46	0.43	0.00	0.14	0.00	4.20	0.00	0.00	5149.49
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	20718.25	4680.42	6.97	0.00	0.83	0.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	1954.44
04JUN	SE	6776.25	2378.43	5.45	0.00	0.83	0.00	0.81	0.14	0.00	0.00	0.00	0.00	0.00	7181.54
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-67 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	50096.81	15465.87	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.56	0.00	5043.34
10JUN	SE	14907.28	10150.71	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.56	0.00	18035.08
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	128830.7	113489.1	9648.82	5.69	1.81	1.04	6.27	1.71	0.00	0.00	0.33	0.00	0.00	19383.50
18JUN	SE	102408.0	72752.18	8208.07	2.91	1.21	0.95	6.27	1.71	0.00	0.00	0.33	0.00	0.00	125887.5
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	30240.15	19405.58	3601.67	1181.10	10.42	0.00	0.15	1.05	0.00	0.00	0.00	0.00	0.00	4187.70
24JUN	SE	7198.38	3767.59	1804.46	555.76	4.92	0.00	0.15	1.05	0.00	0.00	0.00	0.00	0.00	8341.24
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	23015.83	91569.97	52279.71	17039.52	1588.57	0.11	0.00	0.00	0.12	0.00	0.00	0.00	0.00	14268.76
01JUL	SE	4452.06	13542.88	17308.54	3672.88	520.19	0.11	0.00	0.00	0.12	0.00	0.00	0.00	0.00	22728.32
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	94834.96	52021.79	7021.39	1939.37	3286.47	240.09	3.86	7.55	NS	NS	NS	NS	NS	19919.43
15JUL	SE	69679.55	15841.54	1095.49	258.80	1453.57	229.82	2.88	3.84						71481.65
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	20648.48	16186.74	3.77	43.53	5.63	2.45	0.61	19.50	NS	NS	NS	NS	NS	4613.84
29JUL	SE	2113.99	4999.51	1.34	35.23	5.41	2.45	0.61	18.82						5428.23
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	59.61	248.97	3.51	321.24	644.56	0.00	0.00	0.00	NS	NS	NS	NS	NS	159.74
12AUG	SE	28.58	142.52	3.51	163.26	509.13	0.00	0.00	0.00						554.08
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.21
26AUG	SE	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00						1.67
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	1.82	0.56	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.30
07OCT	SE	1.82	0.56	0.00	0.00	0.00	0.00	0.00	0.00						1.90
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-68 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	83	0	0	0	0	0	0	0	0	0	0	0	0	83
06MAY	SE	83	0	0	0	0	0	0	0	0	0	0	0	0	83
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	112916	185435	4090	26	0	0	0	0	0	173	0	0	0	302641
21MAY	SE	38323	95291	2373	26	0	0	0	0	0	173	0	0	0	102736
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	9443026	2481952	388900	1626	272	303	60	0	24	0	741	0	0	12316904
28MAY	SE	863204	689299	211965	1485	150	303	60	0	24	0	741	0	0	1124805
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	4330374	1073782	2242	0	173	0	158	43	0	0	0	0	0	5406772
04JUN	SE	1416321	545660	1754	0	173	0	113	43	0	0	0	0	0	1517798
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-68 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	10470866	3548185	0	0	0	0	20	0	0	0	0	90	0	14019161
10JUN	SE	3115812	2328778	0	0	0	0	20	0	0	0	0	90	0	3889922
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	26927281	26036709	3105101	841	376	217	877	509	0	0	59	0	0	56071970
18JUN	SE	21404592	16690826	2641450	431	251	198	877	509	0	0	59	0	0	27271185
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	6320575	4452033	1159058	174491	2171	0	21	314	0	0	0	0	0	12108663
24JUN	SE	1504553	864361	580695	82107	1025	0	21	314	0	0	0	0	0	1831597
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	4810601	21008009	16824209	2517363	330958	22	0	0	20	0	0	0	0	45491182
01JUL	SE	930538	3107012	5570086	542620	108373	22	0	0	20	0	0	0	0	6469271
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	19821727	11934853	2259564	286516	684691	49808	540	2252	NS	NS	NS	NS	NS	35039951
15JUL	SE	14563924	3634370	352541	38234	302832	47677	403	1146						15017865
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	4315795	3713567	1215	6431	1173	508	85	5815	NS	NS	NS	NS	NS	8044589
29JUL	SE	441850	1146990	431	5205	1126	508	85	5610						1229178
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	12459	57120	1128	47459	134285	0	0	0	NS	NS	NS	NS	NS	252451
12AUG	SE	5974	32696	1128	24119	106069	0	0	0						113747
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	349	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	349
26AUG	SE	349	0	0	0	0	0	0	0						349
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	380	128	0	0	0	0	0	0	NS	NS	NS	NS	NS	508
07OCT	SE	380	128	0	0	0	0	0	0						401
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-69 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	40.31	5.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.53
28MAY	SE	40.31	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.60
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	13.55	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05
04JUN	SE	9.59	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.59
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-69 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	24.97	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58
10JUN	SE	16.97	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.99
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	177.63	129.24	8.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.23
18JUN	SE	77.58	98.12	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.33
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	2.58	2.72	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
24JUN	SE	2.58	2.72	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.39
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	26.36	0.42	0.00	0.00	27.86	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	4.22
01JUL	SE	26.36	0.42	0.00	0.00	16.20	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	30.94
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	34.42	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	4.30
15JUL	SE	0.00	0.00	0.00	24.50	0.00	0.00	0.00	0.00						24.50
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	21.60	81.56	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	12.89
29JUL	SE	17.74	81.56	0.00	0.00	0.00	0.00	0.00	0.00						83.46
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.21
12AUG	SE	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00						1.67
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-70 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	8424	1278	0	0	0	0	0	0	0	0	0	0	0	9702
28MAY	SE	8424	1121	0	0	0	0	0	0	0	0	0	0	0	8499
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	2833	27	0	0	0	0	0	0	0	0	0	0	0	2859
04JUN	SE	2004	27	0	0	0	0	0	0	0	0	0	0	0	2004
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-70 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	5219	1956	0	0	0	0	0	0	0	0	0	0	0	7176
10JUN	SE	3548	1956	0	0	0	0	0	0	0	0	0	0	0	4051
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	37127	29650	2594	0	0	0	0	0	0	0	0	0	0	69371
18JUN	SE	16215	22511	2499	0	0	0	0	0	0	0	0	0	0	27856
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	540	624	3298	0	0	0	0	0	0	0	0	0	0	4462
24JUN	SE	540	624	2415	0	0	0	0	0	0	0	0	0	0	2552
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	5510	97	0	0	5805	0	0	0	40	0	0	0	0	11451
01JUL	SE	5510	97	0	0	3375	0	0	0	40	0	0	0	0	6462
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	5085	0	0	0	0	NS	NS	NS	NS	NS	5085
15JUL	SE	0	0	0	3619	0	0	0	0						3619
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	4515	18711	0	0	0	0	0	0	NS	NS	NS	NS	NS	23225
29JUL	SE	3708	18711	0	0	0	0	0	0						19075
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	383	0	0	0	0	0	0	NS	NS	NS	NS	NS	383
12AUG	SE	0	383	0	0	0	0	0	0						383
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-71 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	13.35	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88
28MAY	SE	7.56	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.43
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	1419.41	422.17	75.11	19.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148.94
04JUN	SE	324.11	246.79	21.64	12.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	408.15
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-71 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	955.33	1995.77	439.60	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	0.00	261.57
10JUN	SE	131.71	1434.25	200.96	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	0.00	1454.27
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	4969.84	3505.18	1468.15	2006.33	2010.17	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1073.97
18JUN	SE	913.41	606.39	262.90	343.33	894.84	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1479.78
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	9344.85	5524.44	3272.32	2700.12	1249.12	205.81	2.51	0.00	1.62	0.00	0.00	0.00	0.00	1715.45
24JUN	SE	2757.12	1522.77	372.12	399.26	367.78	61.34	1.52	0.00	1.62	0.00	0.00	0.00	0.00	3218.30
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	3210.00	3345.55	3025.42	6925.23	3530.98	217.27	248.43	68.38	24.23	0.82	1.02	0.00	0.00	1584.41
01JUL	SE	1324.32	783.34	493.96	1207.72	1092.57	71.17	45.65	10.51	11.56	0.82	1.02	0.00	0.00	2295.90
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	2841.14	3171.88	3570.38	6135.94	1720.99	1090.25	1670.49	510.55	NS	NS	NS	NS	NS	2588.95
15JUL	SE	895.29	654.75	635.83	961.88	354.59	319.02	580.70	174.09						1776.16
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	2542.52	5441.12	1859.23	2121.78	490.76	188.21	435.39	61.01	NS	NS	NS	NS	NS	1642.50
29JUL	SE	444.59	2673.05	534.79	296.46	182.25	54.96	35.65	27.42						2784.78
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	5516.21	3441.14	1162.75	575.80	461.64	133.06	203.36	71.38	NS	NS	NS	NS	NS	1445.67
12AUG	SE	1079.07	686.49	450.44	132.05	81.83	28.04	36.75	22.79						1365.77
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	274.18	861.22	1415.62	574.17	78.96	51.32	101.43	62.03	NS	NS	NS	NS	NS	427.36
26AUG	SE	98.21	398.90	475.91	115.03	15.19	11.48	44.95	31.81						641.78
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	83.56	125.01	411.26	161.77	74.73	59.20	36.82	51.21	NS	NS	NS	NS	NS	125.45
10SEP	SE	10.81	21.83	144.73	25.00	18.77	16.33	9.67	24.11						153.17
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	556.50	99.71	15.33	44.06	21.55	2.91	10.36	44.88	NS	NS	NS	NS	NS	99.41
23SEP	SE	135.77	20.82	3.54	10.23	2.25	1.31	4.97	30.61						141.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	151.54	59.83	12.47	29.12	5.07	2.56	8.32	16.55	NS	NS	NS	NS	NS	35.68
07OCT	SE	44.52	14.66	3.97	5.44	1.78	1.18	2.59	11.55						48.85
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-72 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	2790	2547	0	0	0	0	0	0	0	0	0	0	0	5336
28MAY	SE	1579	2547	0	0	0	0	0	0	0	0	0	0	0	2997
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	296675	96854	24173	2876	0	0	0	0	0	0	0	0	0	420578
04JUN	SE	67743	56620	6964	1916	0	0	0	0	0	0	0	0	0	88583
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-72 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	199677	457871	141468	105	0	0	0	0	0	0	0	1435	0	800556
10JUN	SE	27529	329046	64670	105	0	0	0	0	0	0	0	1435	0	336472
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	1038761	804159	472469	296409	418791	393	0	0	0	0	0	0	0	3030981
18JUN	SE	190914	139118	84603	50722	186428	393	0	0	0	0	0	0	0	316683
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	1953194	1267420	1053072	398907	260236	42696	351	0	268	0	0	0	0	4976144
24JUN	SE	576273	349353	119753	58985	76622	12725	212	0	268	0	0	0	0	691369
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	670931	767537	973616	1023112	735631	45073	34729	20385	4010	116	180	0	0	4275319
01JUL	SE	276799	179714	158962	178425	227621	14765	6382	3134	1913	116	180	0	0	467015
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	593835	727693	1148989	906504	358545	226178	233519	152211	NS	NS	NS	NS	NS	4347475
15JUL	SE	187127	150212	204616	142104	73874	66182	81177	51903						372509
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	531418	1248303	598322	313466	102242	39044	60864	18188	NS	NS	NS	NS	NS	2911848
29JUL	SE	92925	613253	172100	43798	37970	11403	4983	8174						646463
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	1152957	789468	374186	85067	96176	27604	28428	21280	NS	NS	NS	NS	NS	2575167
12AUG	SE	225538	157494	144957	19509	17049	5817	5137	6794						312189
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	57308	197581	455563	84825	16449	10646	14179	18492	NS	NS	NS	NS	NS	855044
26AUG	SE	20526	91516	153152	16995	3164	2382	6284	9483						180792
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	17466	28680	132349	23899	15569	12282	5147	15268	NS	NS	NS	NS	NS	250661
10SEP	SE	2259	5008	46577	3694	3910	3388	1352	7187						47891
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	116315	22875	4933	6509	4490	603	1448	13381	NS	NS	NS	NS	NS	170554
23SEP	SE	28378	4777	1141	1511	468	272	695	9126						30262
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	31673	13727	4013	4302	1057	531	1163	4935	NS	NS	NS	NS	NS	61402
07OCT	SE	9305	3363	1276	803	371	245	363	3442						10599
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-73 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-73 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
10JUN	SE	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	25.11	52.13	26.96	9.66	46.06	0.72	NS	NS	NS	NS	NS	20.08
15JUL	SE	0.00	0.00	18.21	18.33	12.12	4.96	20.09	0.72						35.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.80	5.30	336.36	231.38	38.34	52.08	176.45	0.00	NS	NS	NS	NS	NS	105.09
29JUL	SE	0.80	4.46	122.94	119.74	14.28	13.69	68.30	0.00						185.82
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	55.26	143.86	475.23	169.42	50.67	81.69	186.18	17.50	NS	NS	NS	NS	NS	147.48
12AUG	SE	26.13	49.15	149.05	65.29	7.81	21.37	100.62	9.19						200.75
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	74.39	58.21	900.85	90.30	19.03	81.59	108.56	65.43	NS	NS	NS	NS	NS	174.80
26AUG	SE	16.16	9.41	346.87	29.90	8.09	12.70	21.74	52.29						353.55
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	1.80	178.59	685.75	317.68	54.15	156.41	122.89	121.94	NS	NS	NS	NS	NS	204.90
10SEP	SE	1.80	77.77	185.75	108.07	18.30	75.10	48.57	58.61						252.99
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	127.26	104.04	49.92	65.93	53.23	12.71	31.87	85.27	NS	NS	NS	NS	NS	66.28
23SEP	SE	74.48	11.64	13.58	18.27	12.70	3.70	17.33	59.27						100.94
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	17.78	40.98	53.31	45.62	31.98	32.00	83.13	48.27	NS	NS	NS	NS	NS	44.13
07OCT	SE	11.79	11.80	13.53	9.49	5.77	9.40	32.81	23.57						48.01
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-74 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-74 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	69	0	0	0	0	0	0	0	0	0	69
10JUN	SE	0	0	0	69	0	0	0	0	0	0	0	0	0	69
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	8082	7702	5616	2003	6439	216	NS	NS	NS	NS	NS	30058
15JUL	SE	0	0	5860	2708	2524	1029	2809	216						7553
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	166	1216	108243	34183	7989	10805	24666	0	NS	NS	NS	NS	NS	187267
29JUL	SE	166	1024	39563	17690	2974	2839	9547	0						44579
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	11550	33005	152933	25030	10556	16946	26026	5219	NS	NS	NS	NS	NS	281266
12AUG	SE	5462	11275	47965	9645	1627	4433	14065	2739						52709
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	15548	13355	289904	13341	3965	16926	15176	19506	NS	NS	NS	NS	NS	387722
26AUG	SE	3378	2160	111627	4418	1686	2634	3039	15588						112952
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	377	40972	220682	46933	11282	32448	17180	36355	NS	NS	NS	NS	NS	406228
10SEP	SE	377	17842	59776	15966	3814	15579	6789	17474						68958
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	26599	23869	16066	9741	11089	2638	4455	25422	NS	NS	NS	NS	NS	119878
23SEP	SE	15568	2670	4370	2699	2646	767	2422	17670						24526
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	3715	9402	17157	6739	6663	6638	11621	14391	NS	NS	NS	NS	NS	76327
07OCT	SE	2464	2707	4354	1403	1202	1950	4586	7026						10487
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-75 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	10.60	7.11	6.38	5.32	4.60	0.04	0.00	0.00	0.00	0.00	0.00	2.62
09JUL	SE	0.00	0.00	3.31	3.34	2.87	1.81	3.99	0.03	0.00	0.00	0.00	0.00	0.00	7.05
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.29	34.05	455.50	284.51	61.04	64.60	196.90	18.75	0.02	20.47	1.61	2.17	0.00	87.69
22JUL	SE	0.11	16.58	211.27	77.08	27.83	25.58	63.20	11.21	0.02	13.34	1.61	1.14	0.00	237.86
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	30.39	120.09	139.82	156.92	68.48	32.75	182.55	55.11	31.79	31.94	4.55	0.00	0.00	65.72
05AUG	SE	15.96	42.53	42.08	46.23	18.65	5.29	33.94	21.81	13.88	12.47	4.55	0.00	0.00	91.34
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	11.66	351.72	1003.29	259.38	240.73	52.16	192.17	43.75	13.82	45.06	4.22	0.00	0.00	170.61
19AUG	SE	4.80	270.58	185.87	44.26	88.64	13.95	52.00	10.23	5.37	14.83	4.16	0.00	0.00	347.66
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	89.16	312.31	860.99	304.21	46.95	41.05	26.22	4.27	0.04	5.03	38.09	0.95	0.00	133.02
02SEP	SE	39.98	117.89	137.78	86.74	11.45	14.03	13.13	1.71	0.03	3.22	38.00	0.95	0.00	209.67
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	34.27	33.38	121.29	30.13	44.60	17.89	68.26	26.78	10.51	13.84	6.69	0.00	0.00	31.36
16SEP	SE	23.37	28.99	33.99	9.00	14.85	4.89	35.75	11.32	6.69	3.69	4.93	0.00	0.00	66.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	14.55	1.47	62.83	8.10	36.30	11.95	26.02	17.39	30.70	1.65	0.00	0.00	0.00	16.23
30SEP	SE	3.24	0.51	17.34	3.85	18.39	3.27	7.10	6.05	27.05	1.03	0.00	0.00	0.00	38.66
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	1.35	16.33	25.39	7.79	28.06	33.08	22.60	0.81	7.55	1.33	0.00	0.00	0.00	11.10
14OCT	SE	1.07	8.19	8.67	1.72	8.06	7.44	6.12	0.81	1.98	1.33	0.00	0.00	0.00	17.62
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.30	0.63	0.56	0.94	0.12	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.20
28OCT	SE	0.10	0.19	0.33	0.32	0.03	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.51
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	1.63	1.89	1.66	0.54	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
11NOV	SE	0.37	0.45	0.80	0.20	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
03DEC	SE	0.05	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-76 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	3411	1050	1330	1103	643	13	0	0	0	0	0	7551
09JUL	SE	0	0	1067	494	599	376	558	9	0	0	0	0	0	1481
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	61	7811	146585	42033	12717	13401	27525	5589	3	2896	283	348	0	259254
22JUL	SE	24	3804	67988	11387	5798	5308	8835	3341	3	1887	283	183	0	70151
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	6353	27550	44994	23183	14267	6793	25518	16429	5261	4519	802	0	0	175669
05AUG	SE	3336	9756	13541	6830	3886	1098	4745	6502	2297	1765	802	0	0	20651
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	2437	80692	322871	38320	50153	10821	26864	13043	2287	6374	745	0	0	554607
19AUG	SE	1004	62076	59814	6539	18467	2894	7269	3049	889	2098	733	0	0	88838
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	18635	71649	277076	44943	9781	8517	3666	1274	7	711	6716	153	0	443128
02SEP	SE	8357	27047	44340	12815	2385	2910	1836	510	4	456	6700	153	0	54722
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	7164	7659	39033	4451	9293	3711	9542	7984	1740	1958	1179	0	0	93712
16SEP	SE	4884	6652	10940	1330	3094	1014	4997	3376	1106	521	868	0	0	15452
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	3041	338	20218	1197	7563	2478	3637	5185	5080	234	0	0	0	48972
30SEP	SE	678	117	5579	569	3832	678	992	1804	4476	145	0	0	0	8448
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	282	3746	8172	1151	5846	6863	3159	242	1250	189	0	0	0	30899
14OCT	SE	223	1880	2792	254	1679	1543	855	242	327	189	0	0	0	4192
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	63	145	180	139	25	0	2	0	0	5	0	0	0	560
28OCT	SE	20	43	107	48	7	0	2	0	0	5	0	0	0	126
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	340	433	536	79	4	0	0	0	0	0	0	0	0	1392
11NOV	SE	78	104	256	30	3	0	0	0	0	0	0	0	0	288
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	23	31	0	0	0	0	0	0	0	0	0	0	0	54
03DEC	SE	11	26	0	0	0	0	0	0	0	0	0	0	0	28
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-77 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.09	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
01JUL	SE	0.00	0.09	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
15JUL	SE	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.40	1.71	1.43	5.80	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81
29JUL	SE	0.40	0.85	1.43	4.86	20.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.42
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	4.40	0.08	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.40
12AUG	SE	4.15	0.08	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	4.17
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.13	0.00	8.80	0.00	67.00	0.00	0.00	0.80	0.00	0.00	0.00	6.39
25AUG	SE	0.00	0.13	0.00	4.60	0.00	65.02	0.00	0.00	0.80	0.00	0.00	0.00	65.19
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	1.33	0.21	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
11SEP	SE	0.00	0.68	0.21	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.46	0.14	77.20	0.00	0.00	27.20	3.40	7.40	0.00	0.00	0.00	9.65
22SEP	SE	0.00	0.32	0.10	51.24	0.00	0.00	26.95	1.44	6.91	0.00	0.00	0.00	58.32
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	5.20	0.42	0.00	30.60	0.40	0.00	0.20	16.80	1.40	0.00	0.00	0.00	4.58
07OCT	SE	2.63	0.22	0.00	13.04	0.40	0.00	0.20	9.89	0.98	0.00	0.00	0.00	16.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.67	0.00	0.00	4.00	0.17	0.20	0.00	3.40	0.78	0.00	0.00	0.77
21OCT	SE	0.00	0.62	0.00	0.00	2.92	0.17	0.20	0.00	3.40	0.66	0.00	0.00	4.58
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-78 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	4	77	0	0	0	0	0	0	0	0	0	81
01JUL	SE	0	4	68	0	0	0	0	0	0	0	0	0	68
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	1	0	0	0	0	0	0	0	1
15JUL	SE	0	0	0	0	1	0	0	0	0	0	0	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	3	78	38	53	64	0	0	0	0	0	0	0	237
29JUL	SE	3	39	38	45	55	0	0	0	0	0	0	0	89
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	33	4	0	0	0	4	0	0	0	0	0	0	40
12AUG	SE	31	4	0	0	0	4	0	0	0	0	0	0	32
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	6	0	81	0	714	0	0	7	0	0	0	807
25AUG	SE	0	6	0	42	0	693	0	0	7	0	0	0	694
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	61	6	53	0	0	0	0	0	0	0	0	120
11SEP	SE	0	31	6	33	0	0	0	0	0	0	0	0	46
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	21	4	711	0	0	193	4	64	0	0	0	997
22SEP	SE	0	14	3	472	0	0	191	2	59	0	0	0	513
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	39	19	0	282	1	0	1	21	12	0	0	0	375
07OCT	SE	20	10	0	120	1	0	1	12	8	0	0	0	123
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	30	0	0	11	2	1	0	29	14	0	0	87
21OCT	SE	0	28	0	0	8	2	1	0	29	12	0	0	43
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-79 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
06MAY	SE	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	4.03	1.16	1.29	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
12MAY	SE	2.95	0.63	0.65	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	17.55	16.75	12.34	12.89	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59
21MAY	SE	6.83	4.61	3.29	4.60	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	82.66	78.04	6.44	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.91
28MAY	SE	18.68	24.35	1.91	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.76
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	68.04	115.67	41.26	38.83	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.92
04JUN	SE	36.46	27.66	7.57	10.70	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.29
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-79 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	60.97	63.18	18.04	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.05
10JUN	SE	13.78	11.80	3.30	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.46
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	174.86	165.36	48.55	3.44	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.19
18JUN	SE	88.31	68.69	13.47	1.46	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.70
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	24.77	61.02	28.21	9.08	2.04	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.68
24JUN	SE	5.94	36.37	6.21	4.02	1.28	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.62
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	30.18	58.73	69.02	94.31	4.99	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	19.80
01JUL	SE	8.92	18.71	10.82	13.23	1.66	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	26.92
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	93.74	7.67	18.50	10.03	5.09	7.23	3.28	3.45	NS	NS	NS	NS	NS	18.62
15JUL	SE	17.06	4.20	5.24	3.84	3.31	2.50	2.66	2.02						19.47
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	11.44	39.46	6.32	1.60	1.27	0.27	0.81	0.22	NS	NS	NS	NS	NS	7.67
29JUL	SE	6.80	5.60	2.82	0.83	0.77	0.27	0.31	0.22						9.33
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	6.01	2.35	1.75	1.49	0.92	0.72	0.09	0.27	NS	NS	NS	NS	NS	1.70
12AUG	SE	3.03	1.08	1.26	0.86	0.61	0.63	0.09	0.27						3.68
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.89	3.19	2.75	0.90	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.97
26AUG	SE	0.89	2.33	1.28	0.61	0.00	0.00	0.00	0.00						2.87
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	18.06	7.93	6.28	4.20	0.68	0.27	0.00	NS	NS	NS	NS	NS	4.68
10SEP	SE	0.00	2.88	2.68	1.75	1.54	0.40	0.27	0.00						4.60
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	15.04	23.15	13.05	0.18	0.33	0.00	0.04	0.00	NS	NS	NS	NS	NS	6.47
23SEP	SE	8.83	7.54	5.66	0.18	0.16	0.00	0.04	0.00						12.92
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	10.99	27.03	19.01	7.05	7.12	0.00	0.00	0.00	NS	NS	NS	NS	NS	8.90
07OCT	SE	6.45	5.30	3.49	2.88	3.99	0.00	0.00	0.00						10.30
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-80 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	71	0	0	0	0	0	0	0	0	0	0	0	0	71
06MAY	SE	71	0	0	0	0	0	0	0	0	0	0	0	0	71
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	843	266	415	0	10	0	0	0	0	0	0	0	0	1535
12MAY	SE	616	144	209	0	10	0	0	0	0	0	0	0	0	666
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	3668	3842	3971	1904	34	0	0	0	0	0	0	0	0	13419
21MAY	SE	1427	1058	1060	679	34	0	0	0	0	0	0	0	0	2178
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	17278	17905	2072	103	0	0	0	0	0	0	0	0	0	37358
28MAY	SE	3904	5587	614	81	0	0	0	0	0	0	0	0	0	6844
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	14220	26538	13278	5737	1697	0	0	0	0	0	0	0	0	61470
04JUN	SE	7620	6346	2435	1581	1697	0	0	0	0	0	0	0	0	10471
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-80 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	12744	14496	5805	212	0	0	0	0	0	0	0	0	0	33257
10JUN	SE	2880	2708	1063	130	0	0	0	0	0	0	0	0	0	4095
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	36549	37937	15625	509	46	0	0	0	0	0	0	0	0	90665
18JUN	SE	18459	15759	4335	216	33	0	0	0	0	0	0	0	0	24656
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	5177	13999	9078	1342	425	139	0	0	0	0	0	0	0	30159
24JUN	SE	1241	8345	2000	594	266	139	0	0	0	0	0	0	0	8696
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	6309	13474	22211	13933	1041	0	19	0	0	0	0	0	0	56987
01JUL	SE	1864	4293	3483	1954	345	0	19	0	0	0	0	0	0	6162
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	19593	1759	5954	1481	1061	1500	458	1030	NS	NS	NS	NS	NS	32836
15JUL	SE	3566	964	1688	567	689	519	372	601						4249
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	2392	9052	2033	236	265	57	113	67	NS	NS	NS	NS	NS	14214
29JUL	SE	1421	1285	908	123	160	57	43	67						2132
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	1257	540	564	220	192	150	13	80	NS	NS	NS	NS	NS	3016
12AUG	SE	633	248	405	127	127	131	13	80						826
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	186	731	886	132	0	0	0	0	NS	NS	NS	NS	NS	1936
26AUG	SE	186	535	412	91	0	0	0	0						706
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	4143	2551	928	875	141	38	0	NS	NS	NS	NS	NS	8675
10SEP	SE	0	660	862	259	321	83	38	0						1165
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	3143	5310	4200	26	69	0	6	0	NS	NS	NS	NS	NS	12754
23SEP	SE	1845	1730	1820	26	33	0	6	0						3117
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	2297	6201	6118	1042	1483	0	0	0	NS	NS	NS	NS	NS	17141
07OCT	SE	1348	1216	1124	425	831	0	0	0						2330
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-81 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	6.91	11.43	12.82	7.16	0.69	0.99	0.05	0.00	0.00	0.00	0.00	0.00	0.00	3.08
09JUL	SE	3.81	4.29	3.24	3.82	0.43	0.61	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.65
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.72	20.94	2.73	0.33	1.71	6.20	2.98	1.36	0.00	0.29	0.00	0.00	0.00	2.87
22JUL	SE	0.16	10.87	1.59	0.28	0.88	2.26	2.25	0.67	0.00	0.29	0.00	0.00	0.00	11.50
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.15	0.24	0.27	0.48	0.05	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.09
05AUG	SE	0.13	0.11	0.07	0.27	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.33
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.03	0.47	0.69	0.12	0.01	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
19AUG	SE	0.03	0.37	0.42	0.07	0.01	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	7.80	7.36	6.67	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71
02SEP	SE	6.54	2.75	3.88	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.09
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.09	4.88	12.88	2.33	11.07	3.72	0.00	0.00	0.00	0.00	0.85	0.00	0.30	2.78
16SEP	SE	0.06	4.53	3.36	0.96	3.68	1.78	0.00	0.00	0.00	0.00	0.85	0.00	0.30	7.09
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	17.53	6.30	12.34	4.04	1.08	0.82	0.00	0.00	0.00	0.29	0.00	0.00	0.00	3.26
30SEP	SE	2.66	1.61	2.34	1.56	0.81	0.82	0.00	0.00	0.00	0.29	0.00	0.00	0.00	4.36
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.55	6.61	1.80	0.29	0.45	12.71	12.05	0.01	0.00	0.00	0.00	0.00	0.00	2.65
14OCT	SE	0.21	2.38	0.41	0.09	0.38	4.60	6.55	0.01	0.00	0.00	0.00	0.00	0.00	8.37
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	2.16	0.65	1.18	1.03	0.24	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
28OCT	SE	0.56	0.15	0.47	0.30	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	1.79	1.05	0.93	0.74	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.35
11NOV	SE	0.67	0.28	0.43	0.42	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.94
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
03DEC	SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-82 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	1445	2623	4126	1058	144	205	6	0	0	0	0	0	0	9607
09JUL	SE	796	984	1042	564	91	127	5	0	0	0	0	0	0	1741
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	150	4804	877	49	357	1286	417	404	0	41	0	0	0	8385
22JUL	SE	34	2494	512	41	183	469	314	201	0	41	0	0	0	2623
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	32	55	87	71	10	0	0	8	0	0	0	0	0	263
05AUG	SE	27	25	24	40	5	0	0	5	0	0	0	0	0	60
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	6	107	221	17	1	41	0	0	0	0	0	0	0	395
19AUG	SE	6	85	134	10	1	41	0	0	0	0	0	0	0	164
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	1631	1690	2146	49	0	0	0	0	0	0	0	0	0	5516
02SEP	SE	1366	632	1250	38	0	0	0	0	0	0	0	0	0	1957
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	18	1120	4145	344	2307	772	0	0	0	0	151	0	22	8877
16SEP	SE	12	1038	1081	141	767	369	0	0	0	0	151	0	22	1736
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	3665	1446	3970	597	224	170	0	0	0	41	0	0	0	10114
30SEP	SE	556	369	753	231	169	170	0	0	0	41	0	0	0	1061
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	116	1516	578	43	95	2636	1684	4	0	0	0	0	0	6671
14OCT	SE	43	546	131	14	78	955	915	4	0	0	0	0	0	1440
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	451	149	380	153	49	6	0	0	0	0	0	0	0	1188
28OCT	SE	117	35	152	45	12	3	0	0	0	0	0	0	0	200
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	374	242	301	110	0	0	3	0	0	0	0	0	0	1028
11NOV	SE	140	64	140	62	0	0	3	0	0	0	0	0	0	217
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	0	4
03DEC	SE	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-83 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.67	0.45	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
17JUN	SE	0.33	0.25	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	11.33	39.18	4.86	14.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.81
01JUL	SE	1.45	17.42	2.46	11.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.05
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.67	0.82	0.29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
15JUL	SE	0.67	0.35	0.29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.40	0.17	0.14	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
29JUL	SE	0.40	0.12	0.10	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
11SEP	SE	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.46	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.06
22SEP	SE	0.00	0.31	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	2.20	0.04	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
07OCT	SE	1.96	0.04	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21OCT	SE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-84 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	5	21	0	3	0	0	0	0	0	0	0	0	29
17JUN	SE	3	11	0	3	0	0	0	0	0	0	0	0	12
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	85	1780	131	132	0	0	0	0	0	0	0	0	2128
01JUL	SE	11	792	66	106	0	0	0	0	0	0	0	0	801
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	5	37	8	9	0	0	0	0	0	0	0	0	59
15JUL	SE	5	16	8	9	0	0	0	0	0	0	0	0	21
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	3	8	4	4	1	0	0	0	0	0	0	0	19
29JUL	SE	3	5	3	4	1	0	0	0	0	0	0	0	8
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	21	0	0	0	0	0	0	0	0	0	0	21
11SEP	SE	0	21	0	0	0	0	0	0	0	0	0	0	21
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	21	0	2	0	0	0	0	0	0	2	0	25
22SEP	SE	0	14	0	2	0	0	0	0	0	0	2	0	14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	17	2	0	6	0	0	0	0	0	0	0	0	24
07OCT	SE	15	2	0	6	0	0	0	0	0	0	0	0	16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	1	0	0	0	0	0	0	0	1
21OCT	SE	0	0	0	0	1	0	0	0	0	0	0	0	1
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-85 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1.14	1.63	74.80	6.01
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.81	1.28	52.49	52.52
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.39	92.33	42.82	10.50
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.39	48.09	15.47	50.53
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	20.83	61.19	121.00	15.67
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	6.12	36.91	61.60	72.07
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	1.50	9.10	21.36	2.67
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.20	3.75	15.07	15.66
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.55	87.31	23.32	10.71
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.47	56.37	15.20	60.66
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	51.07	452.74	39.18
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09	11.77	332.09	332.33
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89	0.54	40.59	3.46
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.54	22.52	22.56
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-85 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.10	0.00	0.00	1.01
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.00	0.00	6.72
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.02
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.32
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.22	0.21
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.61	1.63
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-86 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	84	201	262	5322	5869
22APR	SE	0	0	0	0	0	0	0	0	0	84	143	205	3735	3744
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	297	0	0	69	14841	3047	18253
29APR	SE	0	0	0	0	0	0	0	257	0	0	69	7730	1101	7813
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	0	0	0	0	0	0	0	0	121	0	3672	9836	8609	22238
06MAY	SE	0	0	0	0	0	0	0	0	121	0	1079	5932	4383	7455
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	390	264	1463	1519	3636
12MAY	SE	0	0	0	0	0	0	0	0	0	227	211	603	1072	1269
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	5033	14033	1659	20726
21MAY	SE	0	0	0	0	0	0	0	0	0	0	2903	9060	1081	9575
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	970	8208	32212	41390
28MAY	SE	0	0	0	0	0	0	0	0	0	0	721	1891	23628	23715
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	686	87	2888	3661
04JUN	SE	0	0	0	0	0	0	0	0	0	0	210	87	1602	1618
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-86 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	2310	0	0	2310
10JUN	SE	0	0	0	0	0	0	0	0	0	0	1186	0	0	1186
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	56	0	0	56
18JUN	SE	0	0	0	0	0	0	0	0	0	0	56	0	0	56
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	243	87	330
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	243	43	247
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-87 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	7.31	34.34	3.25
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	4.30	14.52	15.15
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	11.40	26.42	3.29
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.92	13.37	13.46
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.63	1.35	10.53	12.99	2.07
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.63	1.13	5.17	6.70	8.70
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.21	3.71	33.35	3.33
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	3.71	11.98	13.32
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.56	2.29	0.46
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	1.01	1.15	1.67
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-87 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.19	23.29	2.42
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.19	11.11	13.80
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.09
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-88 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	93	0	0	1176	2443	3712
06MAY	SE	0	0	0	0	0	0	0	0	71	0	0	691	1033	1245
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	861	1832	1880	4573
12MAY	SE	0	0	0	0	0	0	0	0	0	0	222	147	952	988
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	63	230	237	1693	924	3148
21MAY	SE	0	0	0	0	0	0	0	0	63	230	199	830	477	1007
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	1094	597	2373	4064
28MAY	SE	0	0	0	0	0	0	0	0	0	0	792	597	852	1307
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	198	412	163	772
04JUN	SE	0	0	0	0	0	0	0	0	0	0	120	162	82	217
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-88 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	1316	1657	2973
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	1316	790	1535
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	86	86
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	86	86
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-89 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.04
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.50
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.43	0.85	6.94	1.02
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.57	2.42	3.46
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.91	3.32	19.57	11.47	2.75
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.91	3.32	8.05	7.37	11.44
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	59.24	202.84	54.69	24.48
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	37.85	69.38	32.69	85.53
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	2.31	8.99	4.51	9.81	12.90	15.50	3.42	4.42
04JUN	SE	0.00	0.00	0.00	0.00	0.04	0.00	0.96	3.85	1.62	2.21	6.52	10.96	1.64	13.74
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-89 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	2.16	1.15	2.06	11.16	2.12	2.59	37.84	16.27	20.37	9.94	8.13
10JUN	SE	0.00	0.00	0.00	0.93	1.11	0.74	5.77	0.92	2.59	35.98	7.29	16.72	9.13	41.88
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.18	0.00	3.00	0.40	22.98	8.13	20.05	62.77	9.91	9.80
18JUN	SE	0.00	0.00	0.00	0.00	0.18	0.00	1.08	0.40	12.13	7.19	8.72	26.68	4.91	31.81
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	1.98	0.69	0.00	0.38	4.20	0.00	24.47	15.17	3.61
24JUN	SE	0.00	0.00	0.00	0.00	0.00	1.98	0.53	0.00	0.26	2.04	0.00	9.09	2.55	9.88
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.67	0.00	1.54	20.26	4.66	2.09
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.56	0.00	0.98	7.95	3.16	8.63
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-90 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	70	0	0	0	70
06MAY	SE	0	0	0	0	0	0	0	0	0	70	0	0	0	70
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	958	136	494	1588
12MAY	SE	0	0	0	0	0	0	0	0	0	0	422	92	172	465
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	89	128	585	3146	816	4764
21MAY	SE	0	0	0	0	0	0	0	0	56	128	585	1293	524	1520
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	211	10444	32603	3891	47149
28MAY	SE	0	0	0	0	0	0	0	0	0	163	6673	11151	2326	13203
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	9	0	323	2681	747	1388	2275	2492	244	10158
04JUN	SE	0	0	0	0	9	0	135	1149	269	312	1150	1762	117	2439
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-90 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	319	240	428	1560	631	428	5353	2869	3273	707	15808
10JUN	SE	0	0	0	137	231	154	807	274	428	5089	1286	2688	649	6017
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	38	0	419	119	3803	1150	3535	10089	705	19858
18JUN	SE	0	0	0	0	38	0	152	119	2007	1017	1538	4288	349	5097
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	411	97	0	63	594	0	3933	1080	6177
24JUN	SE	0	0	0	0	0	411	74	0	43	289	0	1462	181	1559
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	15	0	111	0	271	3257	331	3985
01JUL	SE	0	0	0	0	0	0	15	0	93	0	173	1278	225	1312
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-91 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-91 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	8.37	3.56	0.99
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	4.39	2.08	4.96
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.00	0.00	3.24	0.61	12.28	0.00	1.33
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	1.31	0.35	7.52	0.00	7.68
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.25	2.56	7.59	27.70	5.68	3.38
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.15	2.32	3.28	4.29	4.15	7.20
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	NS	NS	NS	NS	NS	0.28
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23						2.23
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	NS	NS	NS	NS	NS	0.03
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22						0.22
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.06	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.02
12AUG	SE	0.00	0.00	0.00	0.00	0.06	0.11	0.00	0.00						0.13
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.30	0.00	0.11	0.35	0.25	NS	NS	NS	NS	NS	0.13
26AUG	SE	0.00	0.00	0.00	0.30	0.00	0.11	0.30	0.25						0.51
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	NS	NS	NS	NS	NS	0.04
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00						0.29
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.10	0.24	0.00	NS	NS	NS	NS	NS	0.04
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.10	0.24	0.00						0.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.14	0.23	0.29	0.00	NS	NS	NS	NS	NS	0.08
07OCT	SE	0.00	0.00	0.00	0.00	0.14	0.13	0.29	0.00						0.35
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-92 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-92 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	172	1346	253	1771
18JUN	SE	0	0	0	0	0	0	0	0	0	0	172	706	148	742
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	165	0	0	459	108	1974	0	2705
24JUN	SE	0	0	0	0	0	0	110	0	0	186	62	1209	0	1230
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	22	0	41	362	1338	4452	404	6619
01JUL	SE	0	0	0	0	0	0	17	0	25	329	579	689	295	1003
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	663	NS	NS	NS	NS	NS	663
15JUL	SE	0	0	0	0	0	0	0	663						663
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	66	NS	NS	NS	NS	NS	66
29JUL	SE	0	0	0	0	0	0	0	66						66
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	12	23	0	0	NS	NS	NS	NS	NS	36
12AUG	SE	0	0	0	0	12	23	0	0						26
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	45	0	23	49	76	NS	NS	NS	NS	NS	192
26AUG	SE	0	0	0	45	0	23	42	76						100
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	41	0	NS	NS	NS	NS	NS	41
10SEP	SE	0	0	0	0	0	0	41	0						41
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	21	34	0	NS	NS	NS	NS	NS	55
23SEP	SE	0	0	0	0	0	21	34	0						40
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	30	48	41	0	NS	NS	NS	NS	NS	118
07OCT	SE	0	0	0	0	30	28	41	0						58
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-93 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.10	0.00	0.33	2.43	0.08	0.79	0.02	1.87	11.67	11.50	0.86	2.28
09JUL	SE	0.00	0.00	0.10	0.00	0.33	0.80	0.07	0.49	0.02	0.71	7.53	2.52	0.53	8.05
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.28	0.12	0.10	0.00	0.40	4.22	6.50	0.11	0.90
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.28	0.07	0.05	0.00	0.16	3.25	5.09	0.11	6.05
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.02	0.06	0.01	0.23	0.07	0.04	0.00	0.00	0.27	1.91	0.09	0.21
05AUG	SE	0.00	0.00	0.02	0.04	0.01	0.23	0.04	0.02	0.00	0.00	0.11	0.89	0.09	0.93
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	< 0.005	0.00	0.00	0.06	2.33	0.44	0.70	0.27
19AUG	SE	0.00	0.00	0.00	0.03	0.00	0.00	< 0.005	0.00	0.00	0.06	1.74	0.12	0.36	1.79
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.06	0.09	0.80	0.40	0.11
02SEP	SE	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.06	0.09	0.41	0.17	0.46
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.07	0.03	0.02	0.00	0.04	0.01	0.00	0.00	0.00	1.22	0.00	0.11
16SEP	SE	0.00	0.00	0.04	0.03	0.02	0.00	0.03	0.01	0.00	0.00	0.00	0.65	0.00	0.65
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.02	0.12	0.02	0.02	0.00	0.14	0.35	0.11	0.06
30SEP	SE	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.02	0.02	0.00	0.08	0.01	0.11	0.15
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.03	0.03	0.02	0.09	0.05	0.02	0.34	0.15	0.08	0.06	0.62	1.27	0.00	0.21
14OCT	SE	0.03	0.03	0.02	0.06	0.03	0.02	0.15	0.05	0.05	0.06	0.30	0.41	0.00	0.54
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
28OCT	SE	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11NOV	SE	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-94 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	32	0	68	503	11	235	3	265	2057	1848	61	5084
09JUL	SE	0	0	32	0	68	166	10	146	3	100	1327	404	38	1411
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	58	17	30	0	56	744	1044	8	1958
22JUL	SE	0	0	0	0	0	58	10	15	0	23	573	819	8	1002
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	7	9	1	47	9	13	0	0	48	307	6	448
05AUG	SE	0	0	7	6	1	47	6	7	0	0	19	143	6	152
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	4	0	0	1	0	0	8	412	71	50	546
19AUG	SE	0	0	0	4	0	0	1	0	0	8	308	19	26	309
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	11	0	0	0	2	0	0	0	8	16	128	28	193
02SEP	SE	0	8	0	0	0	2	0	0	0	8	16	66	12	70
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	23	4	4	0	5	4	0	0	0	196	0	236
16SEP	SE	0	0	12	4	4	0	5	4	0	0	0	104	0	105
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	8	5	17	5	3	0	25	57	8	127
30SEP	SE	0	0	0	0	4	3	7	5	3	0	15	2	8	20
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	5	6	8	14	11	5	48	45	14	8	110	204	0	478
14OCT	SE	5	6	8	9	5	4	21	14	8	8	54	65	0	90
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	16	0	0	0	0	0	0	0	0	0	16
28OCT	SE	0	0	0	10	0	0	0	0	0	0	0	0	0	10
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	43	0	0	0	0	0	0	0	0	0	0	43
11NOV	SE	0	0	43	0	0	0	0	0	0	0	0	0	0	43
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-95 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	8.33	0.67	4.38	1.13	9.00	3.75	12.17	10.58	4.17
17JUN	SE	0.00	0.00	0.00	0.00	8.33	0.67	2.59	0.88	5.06	1.91	4.71	7.80	13.77
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	1.67	5.63	4.63	1.00	0.27	6.37	2.25	1.82
01JUL	SE	0.00	0.00	0.00	0.00	0.00	1.67	3.39	2.33	0.53	0.18	3.37	1.23	5.73
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.36	3.14	5.33	2.00	6.00	1.63	1.88	1.75	2.13	9.89	4.75	3.24
15JUL	SE	0.00	0.28	1.52	2.03	1.53	2.00	1.16	0.74	1.21	1.21	4.44	3.65	7.12
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.08	2.00	1.00	4.80	3.83	7.80	1.40	1.60	1.56	7.70	9.00	3.40
29JUL	SE	0.00	0.08	1.21	0.45	1.20	1.28	6.12	0.51	0.93	1.32	1.56	2.54	7.35
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	1.57	0.00	2.40	13.50	10.40	3.80	3.00	1.44	12.80	9.86	4.90
12AUG	SE	0.00	0.00	1.42	0.00	1.29	2.55	4.03	2.85	1.67	0.77	4.12	4.83	8.85
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.79	1.80	2.60	15.00	8.80	6.00	10.20	1.56	7.50	9.29	5.29
25AUG	SE	0.00	0.00	0.59	1.80	0.51	5.11	3.67	1.30	3.18	0.34	2.70	2.78	8.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.50	2.86	0.40	0.60	4.00	2.00	0.20	2.20	2.33	8.10	5.71	2.41
11SEP	SE	0.00	0.23	1.04	0.40	0.60	1.61	0.32	0.20	2.20	1.31	1.97	2.63	4.67
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.54	1.86	2.80	2.80	2.50	0.60	1.40	1.60	0.11	1.90	6.29	1.87
22SEP	SE	0.00	0.18	1.05	2.13	2.13	0.92	0.60	0.87	1.12	0.11	0.57	1.89	4.16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.50	1.14	2.20	2.20	3.67	2.20	1.40	3.20	1.11	5.10	2.14	2.07
07OCT	SE	0.00	0.30	0.42	1.11	1.96	1.63	1.96	0.98	1.69	0.59	1.97	1.67	4.76
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	1.25	1.50	3.80	3.60	2.83	2.40	1.00	0.40	1.22	1.20	0.71	1.66
21OCT	SE	0.00	0.54	0.43	2.85	1.75	1.30	1.12	0.32	0.40	0.60	0.44	0.47	3.96
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-96 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	22	7	31	1	77	66	239	144	588
17JUN	SE	0	0	0	0	22	7	18	1	44	34	93	106	154
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	18	40	6	9	5	125	31	233
01JUL	SE	0	0	0	0	0	18	24	3	5	3	66	17	75
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	17	85	49	5	64	12	2	15	37	195	65	545
15JUL	SE	0	13	41	19	4	21	8	1	10	21	87	50	116
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	4	54	9	13	41	55	2	14	27	152	122	492
29JUL	SE	0	4	33	4	3	14	43	1	8	23	31	35	77
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	42	0	6	144	74	5	26	25	252	134	708
12AUG	SE	0	0	38	0	3	27	29	4	14	13	81	66	120
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	21	17	7	160	62	7	88	27	148	126	663
25AUG	SE	0	0	16	17	1	54	26	2	27	6	53	38	96
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	23	77	4	2	43	14	< 0.5	19	41	159	78	459
11SEP	SE	0	10	28	4	2	17	2	< 0.5	19	23	39	36	70
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	25	50	26	7	27	4	2	14	2	37	85	279
22SEP	SE	0	8	28	20	6	10	4	1	10	2	11	26	48
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	23	31	20	6	39	16	2	28	20	100	29	312
07OCT	SE	0	14	11	10	5	17	14	1	15	10	39	23	57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	57	40	35	9	30	17	1	3	21	24	10	248
21OCT	SE	0	24	12	26	5	14	8	< 0.5	3	10	9	6	44
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-97 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-97 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-98 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-98 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-99 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	< 0.005
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-100 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	5	0	0	0	0	0	5
05AUG	SE	0	0	0	0	0	0	0	5	0	0	0	0	0	5
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-101 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
01JUL	SE	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-102 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	1	0	0	0	0	0	0	0	1
01JUL	SE	0	0	0	0	1	0	0	0	0	0	0	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-103 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.03
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.35
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	65.79	175.79	18.63
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	36.37	155.63	159.83
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	167.38	94.58	20.16
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	47.86	78.37	91.83
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	25.63	322.04	261.26	46.93
06MAY	SE	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	18.12	141.15	64.08	156.07
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55	205.87	247.69	35.24
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.22	48.15	160.69	167.80
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	8.11	188.43	414.44	47.05
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	5.44	48.82	148.13	156.06
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.89	0.14	3.21	114.74	178.07	2451.81	211.48
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.49	0.14	2.04	78.84	4.74	1362.48	1364.77
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	466.36	383.86	0.00	0.36	0.00	1.08	0.00	0.00	0.00	5.98	0.00	5.58	133.01	76.63
04JUN	SE	466.36	383.86	0.00	0.36	0.00	1.08	0.00	0.00	0.00	5.98	0.00	2.08	61.23	607.15
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-103 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	280.54	367.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	2.57	1.17	50.16
10JUN	SE	280.54	363.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	1.42	1.17	459.10
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	14.74	0.00	0.00	0.74	0.00	0.05	0.00	0.27	0.65	0.00	18.73	0.00	2.71
18JUN	SE	0.00	14.74	0.00	0.00	0.74	0.00	0.05	0.00	0.27	0.65	0.00	18.73	0.00	23.86
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	0.21
24JUN	SE	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	2.14
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	289.97	52.47	0.00	0.00	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.37
01JUL	SE	289.97	52.47	0.00	0.00	12.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294.93
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-104 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	56	0	56
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	56	0	56
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	101	10574	12507	23182
22APR	SE	0	0	0	0	0	0	0	0	0	0	101	5846	11073	12522
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	41	0	0	0	26903	6729	33673
29APR	SE	0	0	0	0	0	0	0	41	0	0	0	7692	5576	9501
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	83	0	0	0	0	0	0	0	123	0	4519	51762	18589	75075
06MAY	SE	83	0	0	0	0	0	0	0	93	0	3195	22687	4559	23360
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	802	33091	17623	51516
12MAY	SE	0	0	0	0	0	0	0	0	0	0	743	7739	11433	13826
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	0	0	0	0	0	0	0	217	0	0	1429	30286	29487	61419
21MAY	SE	0	0	0	0	0	0	0	217	0	0	960	7848	10539	13177
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	0	0	0	0	0	0	62	264	24	454	20228	28621	174444	224097
28MAY	SE	0	0	0	0	0	0	62	145	24	289	13899	761	96940	97934
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	97475	88065	0	54	0	224	0	0	0	845	0	896	9464	197022
04JUN	SE	97475	88065	0	54	0	224	0	0	0	845	0	335	4356	131440
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-104 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	58637	84327	0	0	0	0	0	0	0	36	0	412	83	143495
10JUN	SE	58637	83372	0	0	0	0	0	0	0	36	0	228	83	101928
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	0	3382	0	0	154	0	7	0	45	92	0	3011	0	6691
18JUN	SE	0	3382	0	0	154	0	7	0	45	92	0	3011	0	4532
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	0	0	226	0	0	0	0	0	0	0	0	324	0	550
24JUN	SE	0	0	226	0	0	0	0	0	0	0	0	324	0	395
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	60608	12038	0	0	2792	0	0	0	0	0	0	0	0	75438
01JUL	SE	60608	12038	0	0	2530	0	0	0	0	0	0	0	0	61844
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-105 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.18	0.05	0.85	0.16	1.69	1.20	3.02	4.54	2.07	16.12	2.30
29APR	SE	0.00	0.00	0.00	0.18	0.05	0.85	0.10	1.03	0.77	1.67	2.09	1.32	8.37	9.02
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.18	0.07	3.54	0.56	11.27	13.38	13.00	32.27	59.09	29.74	12.55
06MAY	SE	0.00	0.00	0.00	0.18	0.07	1.77	0.26	4.00	2.64	5.35	6.94	15.04	4.79	18.76
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.53	0.00	0.50	0.67	4.81	3.54	3.72	14.11	18.33	46.35	87.93	1050.93	94.72
12MAY	SE	0.00	0.53	0.00	0.50	0.67	4.40	1.73	2.12	5.93	6.20	18.77	29.65	189.84	193.32
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	133.14	60.65	0.00	0.31	0.00	2.12	6.09	6.17	9.52	46.57	19.08	316.44	803.92	108.00
21MAY	SE	75.42	30.12	0.00	0.31	0.00	1.71	1.86	3.50	2.49	12.52	6.23	108.64	302.69	332.02
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	351.85	9.63	1.98	0.62	6.61	7.86	12.71	7.94	17.58	16.59	20.15	145.49	1848.57	188.27
28MAY	SE	212.80	7.72	1.98	0.47	4.56	6.05	4.27	3.30	8.37	9.49	10.39	67.28	746.06	779.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	24.20	0.00	0.00	0.00	0.14	1.82	1.06	0.00	1.48	0.63	1.65	156.51	585.09	59.43
04JUN	SE	18.98	0.00	0.00	0.00	0.14	1.29	1.06	0.00	0.79	0.63	0.89	68.73	222.79	233.93
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-105 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	5.87	0.00	0.38	0.00	0.00	0.60	0.41	0.00	1.23	2.29	2.08	36.42	98.60	11.37
10JUN	SE	3.46	0.00	0.38	0.00	0.00	0.60	0.41	0.00	0.76	2.29	2.08	23.85	42.92	49.33
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	23.12	0.00	0.00	0.00	0.00	0.00	0.98	0.39	2.94	1.95	0.98	1.94	154.94	14.40
18JUN	SE	23.12	0.00	0.00	0.00	0.00	0.00	0.46	0.22	0.82	1.16	0.98	1.94	76.26	79.73
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.69	0.29	6.01	8.07	27.24	3.29
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.69	0.29	3.06	5.33	22.41	23.26
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.22	0.00	0.14	0.00	0.00	0.00	0.00	1.84	1.26	0.27
01JUL	SE	0.00	0.00	0.00	0.00	0.22	0.00	0.14	0.00	0.00	0.00	0.00	1.84	0.72	2.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-106 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	26	10	176	22	503	198	428	800	333	1147	3643
29APR	SE	0	0	0	26	10	176	14	308	127	236	368	213	596	857
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	27	14	734	78	3360	2213	1838	5690	9498	2116	25569
06MAY	SE	0	0	0	27	14	367	37	1193	437	756	1224	2417	341	3127
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	122	0	73	139	998	495	1108	2335	2593	8171	14134	74773	104939
12MAY	SE	0	122	0	73	139	914	243	631	981	877	3309	4766	13507	14804
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	27829	13914	0	45	0	440	851	1840	1575	6588	3365	50861	57198	164506
21MAY	SE	15764	6910	0	45	0	355	260	1045	413	1771	1099	17462	21536	32723
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	73540	2209	636	91	1376	1630	1777	2367	2909	2347	3552	23384	131524	247342
28MAY	SE	44477	1771	636	70	951	1254	596	982	1384	1343	1833	10814	53082	70194
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	5058	0	0	0	30	377	148	0	245	89	291	25155	41629	73022
04JUN	SE	3966	0	0	0	30	268	148	0	130	89	157	11047	15851	19727
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-106 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	1226	0	121	0	0	124	57	0	204	323	367	5854	7015	15293
10JUN	SE	724	0	121	0	0	124	57	0	125	323	367	3833	3054	4983
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	4832	0	0	0	0	0	137	116	487	276	172	311	11024	17355
18JUN	SE	4832	0	0	0	0	0	65	67	136	164	172	311	5426	7278
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	64	0	115	41	1059	1296	1938	4513
24JUN	SE	0	0	0	0	0	0	64	0	115	41	540	857	1595	1894
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	46	0	19	0	0	0	0	296	90	452
01JUL	SE	0	0	0	0	46	0	19	0	0	0	0	296	52	305
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-107 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.18	0.00	3.41	3.78	3.61	28.48	192.29	115.99	53.48	0.75	30.92
06MAY	SE	0.00	0.00	0.00	0.18	0.00	1.75	1.59	3.21	14.06	110.99	54.28	22.10	0.75	126.36
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.15	4.53	11.52	6.89	11.14	42.53	29.70	71.94	143.90	13.34	0.00	25.82
12MAY	SE	0.00	0.00	0.15	2.36	4.50	1.91	2.48	29.97	9.32	15.81	92.98	6.56	0.00	99.80
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	2.84	0.00	0.00	5.35	15.59	26.43	28.26	144.39	156.52	224.25	1449.09	3762.19	833.52	511.42
21MAY	SE	2.84	0.00	0.00	3.14	5.53	12.19	7.60	68.28	36.26	36.08	500.67	733.38	489.07	1017.47
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	1119.90	270.94	10.31	20.14	84.12	140.27	100.32	395.02	989.37	1453.60	2174.18	4592.52	596.06	918.98
28MAY	SE	511.26	129.73	3.58	4.72	22.11	28.16	27.78	87.13	231.46	464.15	958.23	681.69	235.37	1412.52
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	826.34	483.41	32.23	35.04	63.85	262.80	325.09	405.36	317.14	425.29	236.14	153.84	24.77	276.25
04JUN	SE	238.47	218.80	9.51	7.29	11.84	57.24	80.86	113.03	100.60	82.05	88.26	69.59	8.81	396.46
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-107 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	678.58	530.80	184.45	13.91	40.70	102.68	413.55	209.63	254.86	800.53	1145.60	2435.24	378.51	553.01
10JUN	SE	497.97	466.74	118.66	2.47	17.04	42.58	69.89	34.03	55.67	225.26	310.73	475.08	165.90	944.28
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	69.53	26.34	24.49	21.28	93.22	40.41	62.17	204.60	275.65	534.42	532.24	569.33	325.04	213.75
18JUN	SE	34.93	7.59	19.99	16.70	79.87	8.28	10.30	82.77	68.80	49.25	99.18	103.16	183.74	277.05
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.11	0.00	0.91	4.13	31.59	206.45	188.84	357.63	250.66	412.48	689.04	681.91	217.21
24JUN	SE	0.00	0.11	0.00	0.91	2.00	23.56	46.82	71.17	130.56	45.27	83.69	200.94	266.35	381.09
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	5.11	1.69	0.00	88.56	47.28	2.82	2.81	89.59	281.22	633.08	1008.25	566.55	241.27	228.33
01JUL	SE	5.11	1.69	0.00	60.91	45.30	2.82	1.30	40.31	82.17	107.04	61.08	113.16	69.45	216.78
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	13.42	6.96	12.33	4.86	3.05	0.24	0.08	10.97	NS	NS	NS	NS	NS	6.49
15JUL	SE	13.42	6.96	12.33	4.86	3.05	0.24	0.08	7.09						21.53
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	NS	NS	NS	NS	NS	0.15
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00						1.21
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	NS	NS	NS	NS	NS	0.08
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66						0.66
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.03
23SEP	SE	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00						0.21
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.84	0.00	0.04	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.11
07OCT	SE	0.00	0.00	0.58	0.00	0.04	0.00	0.00	0.00						0.58
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-108 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	27	0	708	528	1075	4712	27203	20448	8596	53	63351
06MAY	SE	0	0	0	27	0	362	223	958	2327	15701	9570	3552	53	18901
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	48	669	2400	1430	1557	12680	4915	10177	25370	2145	0	61391
12MAY	SE	0	0	48	348	938	395	346	8936	1543	2236	16392	1054	0	18930
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	593	0	0	790	3248	5483	3950	43047	25902	31724	255468	604704	59304	1034212
21MAY	SE	593	0	0	464	1153	2529	1063	20356	6000	5104	88266	117878	34797	152914
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	234073	62158	3317	2975	17524	29101	14024	117769	163726	205640	383299	738163	42409	2014177
28MAY	SE	106860	29764	1153	697	4606	5843	3883	25976	38303	65664	168932	109570	16747	244243
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	172715	110904	10372	5177	13303	54519	45444	120852	52481	60166	41630	24727	1763	714053
04JUN	SE	49844	50196	3060	1077	2466	11876	11304	33699	16647	11608	15559	11186	627	84880
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-108 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	141831	121777	59359	2056	8480	21302	57811	62498	42176	113251	201964	391421	26931	1250857
10JUN	SE	104082	107079	38187	365	3551	8833	9769	10145	9213	31867	54781	76360	11804	184710
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	14534	6043	7882	3144	19422	8382	8691	60999	45616	75604	93832	91510	23127	458784
18JUN	SE	7300	1740	6432	2467	16641	1718	1440	24677	11385	6968	17485	16581	13073	43868
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	25	0	134	860	6553	28860	56300	59182	35461	72718	110750	48517	419360
24JUN	SE	0	25	0	134	416	4889	6545	21217	21606	6405	14754	32297	18950	51428
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	1068	387	0	13084	9849	586	393	26709	46537	89562	177751	91063	17166	474155
01JUL	SE	1068	387	0	8999	9437	586	181	12019	13598	15144	10768	18188	4941	34663
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	2805	1596	3968	718	635	50	12	3270	NS	NS	NS	NS	NS	13054
15JUL	SE	2805	1596	3968	718	635	50	12	2113						5617
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	169	0	NS	NS	NS	NS	NS	169
29JUL	SE	0	0	0	0	0	0	169	0						169
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	197	NS	NS	NS	NS	NS	197
12AUG	SE	0	0	0	0	0	0	0	197						197
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	47	0	0	0	0	0	0	NS	NS	NS	NS	NS	47
23SEP	SE	0	47	0	0	0	0	0	0						47
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	272	0	8	0	0	0	NS	NS	NS	NS	NS	280
07OCT	SE	0	0	185	0	8	0	0	0						186
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-109 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-109 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-110 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-110 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-111 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.63	2.63	0.05	159.37	49.84	27.38	5.24	18.86
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.34	0.04	50.13	13.86	7.43	3.06	52.64
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.14	0.00	0.00	0.03	6.94	1.68	30.43	14.13	21.80	1.92	5.93
22JUL	SE	0.00	0.00	0.00	0.14	0.00	0.00	0.03	3.58	0.76	7.39	0.67	12.12	0.80	14.70
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.09	0.22	2.57	4.44	6.10	13.74	2.11
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.06	0.13	0.60	0.69	2.19	5.14	5.67
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.06	0.00	0.00	0.00	0.00	0.02	0.01	0.07	0.00	1.60	0.92	12.36	0.90	1.23
19AUG	SE	0.04	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.00	1.43	0.86	8.98	0.32	9.14
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.10	0.04
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.10	0.32
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-112 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	88	784	9	22546	8786	4400	373	36985
09JUL	SE	0	0	0	0	0	0	53	398	6	7091	2444	1194	218	7609
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	20	0	0	4	2069	279	4305	2491	3504	137	12809
22JUL	SE	0	0	0	20	0	0	4	1066	126	1046	118	1948	57	2462
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	49	0	27	36	363	783	981	978	3216
05AUG	SE	0	0	0	0	0	49	0	19	22	85	122	352	366	532
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	12	0	0	0	0	3	1	20	0	226	162	1987	64	2476
19AUG	SE	8	0	0	0	0	2	1	13	0	203	152	1444	23	1466
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	74	7	81
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	49	7	50
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-113 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	5.33	1.33	2.50	0.63	6.13	0.50	6.56	1.33	2.03
17JUN	SE	0.00	0.00	0.00	0.00	5.33	1.33	2.50	0.63	3.01	0.22	3.41	0.82	7.63
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.71	0.00	0.00	0.00	1.38	39.38	0.88	8.33	42.00	14.42	8.92
01JUL	SE	0.00	0.00	0.71	0.00	0.00	0.00	0.75	27.45	0.88	3.58	23.75	9.15	37.63
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	6.88	109.63	0.13	24.40	31.84	1.92	14.57
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	6.31	52.39	0.13	10.06	17.54	1.07	56.52
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.20	1.00	0.00	0.00	0.80	0.60	2.00	2.60	2.43	0.80
29JUL	SE	0.00	0.00	0.00	0.20	0.77	0.00	0.00	0.37	0.60	1.53	1.37	2.11	3.13
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.40	0.00	0.00	3.00	0.00	6.95
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.08	0.00	0.00	1.47	0.00	51.10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	2.10	3.43	0.48
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.92	1.63	1.89
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.01
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-114 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	14	14	18	1	53	9	129	18	255
17JUN	SE	0	0	0	0	14	14	18	1	26	4	67	11	78
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	19	0	0	0	10	49	8	146	826	196	1254
01JUL	SE	0	0	19	0	0	0	5	34	8	63	467	124	489
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	49	136	1	428	627	26	1267
15JUL	SE	0	0	0	0	0	0	45	65	1	177	345	15	396
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	2	3	0	0	1	5	35	51	33	130
29JUL	SE	0	0	0	2	2	0	0	< 0.5	5	27	27	29	48
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	100	0	0	59	0	159
12AUG	SE	0	0	0	0	0	0	0	63	0	0	29	0	70
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	4	41	47	92
25AUG	SE	0	0	0	0	0	0	0	0	0	4	18	22	29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	2	2
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	2	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-115 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-115 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
10JUN	SE	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.08
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.10
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	0.00	0.66	0.00	0.00	49.29	4.01
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.66	0.00	0.00	37.87	37.89
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.20	5.41	0.74	23.78	40.88	57.08	36.69	12.68
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.15	3.07	0.48	11.75	13.80	20.64	28.02	39.37
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.71	13.41	NS	NS	NS	NS	NS	1.78
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.63	5.81						5.85
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	4.77	2.80	0.00	0.00	0.00	0.58	0.00	0.00	NS	NS	NS	NS	NS	1.02
29JUL	SE	4.77	2.80	0.00	0.00	0.00	0.58	0.00	0.00						5.56
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	NS	NS	NS	NS	NS	0.16
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68						0.68
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.54	NS	NS	NS	NS	NS	0.10
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.27						0.37
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.01
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00						0.12
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.26	0.19	0.00	0.00	NS	NS	NS	NS	NS	0.06
23SEP	SE	0.00	0.00	0.00	0.00	0.26	0.19	0.00	0.00						0.32
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.47	0.62	0.00	NS	NS	NS	NS	NS	0.14
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.20	0.29	0.00						0.35
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-116 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-116 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	98	0	0	0	0	0	0	0	0	0	0	98
10JUN	SE	0	0	98	0	0	0	0	0	0	0	0	0	0	98
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	176	0	176
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	176	0	176
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	299	0	0	93	0	0	3507	3898
24JUN	SE	0	0	0	0	0	0	138	0	0	93	0	0	2694	2699
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	22	28	1613	122	3364	7208	9174	2610	24142
01JUL	SE	0	0	0	0	0	22	21	914	80	1662	2434	3318	1994	4951
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	25	99	3997	NS	NS	NS	NS	NS	4121
15JUL	SE	0	0	0	0	0	25	87	1733						1736
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	998	642	0	0	0	121	0	0	NS	NS	NS	NS	NS	1760
29JUL	SE	998	642	0	0	0	121	0	0						1192
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	383	NS	NS	NS	NS	NS	383
12AUG	SE	0	0	0	0	0	0	0	202						202
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	37	160	NS	NS	NS	NS	NS	196
26AUG	SE	0	0	0	0	0	0	37	80						88
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	24	0	0	NS	NS	NS	NS	NS	24
10SEP	SE	0	0	0	0	0	24	0	0						24
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	54	40	0	0	NS	NS	NS	NS	NS	94
23SEP	SE	0	0	0	0	54	40	0	0						67
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	97	87	0	NS	NS	NS	NS	NS	184
07OCT	SE	0	0	0	0	0	41	41	0						58
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-117 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.19	0.67	0.04	0.00	1.21	2.27	4.80	0.00	0.71
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.19	0.40	0.03	0.00	0.57	1.71	0.87	0.00	2.05
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.73	0.02	0.25	1.36	1.81	0.11	0.33
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.38	0.02	0.10	0.86	0.70	0.11	1.18
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.37	0.02	0.00	0.00	0.00	0.00	0.03
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.23	0.02	0.00	0.00	0.00	0.00	0.23
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.23	0.02	0.88	0.71	0.47	0.00	0.18
19AUG	SE	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.23	0.02	0.44	0.56	0.47	0.00	0.88
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.01
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.45	0.18	0.57	0.12	0.00	0.10
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.41	0.11	0.41	0.12	0.00	0.60
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.46	0.45	0.51	0.05	0.00	0.00	0.00	0.00	0.11
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.30	0.33	0.32	0.04	0.00	0.00	0.00	0.00	0.55
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.01	< 0.005	0.39	0.08	1.18	0.67	0.00	0.00	0.18
14OCT	SE	0.00	0.00	0.00	0.00	0.02	0.01	< 0.005	0.21	0.03	0.53	0.33	0.00	0.00	0.66
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01
28OCT	SE	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.09	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01
11NOV	SE	0.00	0.00	0.00	0.07	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
03DEC	SE	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-118 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	40	94	13	0	171	400	772	0	1490
09JUL	SE	0	0	0	0	0	40	55	9	0	81	301	139	0	348
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	2	3	217	3	35	239	290	8	796
22JUL	SE	0	0	0	0	0	2	2	113	3	14	152	113	8	220
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	5	109	3	0	0	0	0	117
05AUG	SE	0	0	0	0	0	0	3	69	3	0	0	0	0	69
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	8	0	0	0	2	67	3	125	125	75	0	404
19AUG	SE	0	0	8	0	0	0	1	67	3	62	99	75	0	154
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	4	8	3	0	0	0	0	15
02SEP	SE	0	0	0	0	0	0	4	6	3	0	0	0	0	7
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	5	0	75	25	101	19	0	225
16SEP	SE	0	0	0	0	0	0	5	0	68	16	72	19	0	103
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	95	63	152	9	0	0	0	0	318
30SEP	SE	0	0	0	0	0	63	47	95	6	0	0	0	0	123
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	4	2	1	116	13	167	118	0	0	420
14OCT	SE	0	0	0	0	4	2	1	64	5	75	58	0	0	114
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	4	0	0	0	6	0	0	4	2	0	0	0	0	16
28OCT	SE	4	0	0	0	3	0	0	4	2	0	0	0	0	7
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	13	2	0	3	4	0	0	0	0	0	23
11NOV	SE	0	0	0	10	2	0	3	4	0	0	0	0	0	11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	8	0	0	0	0	0	0	0	0	0	0	0	0	8
03DEC	SE	8	0	0	0	0	0	0	0	0	0	0	0	0	8
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-119 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.01
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.36	0.14	0.00	0.33	1.67	0.13	0.00	0.75	0.27	1.47	1.25	0.53
01JUL	SE	0.00	0.28	0.14	0.00	0.33	1.67	0.13	0.00	0.75	0.15	0.87	1.25	2.43
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	1.29	0.33	0.00	0.00	1.38	6.25	0.00	1.13	2.74	0.08	1.10
15JUL	SE	0.00	0.00	1.13	0.33	0.00	0.00	0.80	3.73	0.00	0.40	1.44	0.08	4.26
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	1.79	0.20	0.20	3.33	0.00	1.20	0.00	4.78	2.10	0.00	1.13
29JUL	SE	0.00	0.00	1.42	0.20	0.20	3.33	0.00	0.97	0.00	3.26	1.00	0.00	5.08
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	5.86	0.00	0.00	0.00	0.20	0.60	0.00	5.33	0.60	0.00	1.05
12AUG	SE	0.00	0.00	3.32	0.00	0.00	0.00	0.20	0.24	0.00	2.11	0.40	0.00	3.97
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	3.14	2.80	2.20	7.50	0.00	1.00	19.40	3.33	3.40	0.14	3.58
25AUG	SE	0.00	0.00	1.87	2.56	2.20	7.50	0.00	0.45	11.00	0.60	2.98	0.14	14.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.13	2.64	0.00	1.80	11.67	0.40	0.00	0.00	3.44	0.40	0.00	1.71
11SEP	SE	0.00	0.13	1.40	0.00	1.36	7.82	0.40	0.00	0.00	1.47	0.31	0.00	8.21
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.13	0.29	0.00	0.00	1.17	0.00	1.60	1.80	0.11	0.80	0.86	0.56
22SEP	SE	0.00	0.09	0.19	0.00	0.00	0.98	0.00	0.75	0.66	0.11	0.80	0.46	1.69
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.88	2.50	2.00	0.00	0.33	0.00	0.00	7.00	0.11	0.10	0.00	1.08
07OCT	SE	0.00	0.79	1.43	1.76	0.00	0.21	0.00	0.00	5.58	0.11	0.10	0.00	6.08
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.21	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.05
21OCT	SE	0.00	0.00	0.15	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-120 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	2	0	2
17JUN	SE	0	0	0	0	0	0	0	0	0	0	2	0	2
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	17	4	0	1	18	1	0	6	5	29	17	97
01JUL	SE	0	13	4	0	1	18	1	0	6	3	17	17	33
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	35	3	0	0	10	8	0	20	54	1	130
15JUL	SE	0	0	30	3	0	0	6	5	0	7	28	1	43
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	48	2	1	36	0	1	0	84	41	0	213
29JUL	SE	0	0	38	2	1	36	0	1	0	57	20	0	80
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	158	0	0	0	1	1	0	94	12	0	265
12AUG	SE	0	0	89	0	0	0	1	< 0.5	0	37	8	0	97
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	85	26	6	80	0	1	167	59	67	2	492
25AUG	SE	0	0	50	24	6	80	0	1	95	11	59	2	148
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	6	71	0	5	124	3	0	0	60	8	0	277
11SEP	SE	0	6	38	0	4	83	3	0	0	26	6	0	95
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	6	8	0	0	12	0	2	15	2	16	12	73
22SEP	SE	0	4	5	0	0	10	0	1	6	2	16	6	22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	40	67	18	0	4	0	0	60	2	2	0	193
07OCT	SE	0	36	39	16	0	2	0	0	48	2	2	0	73
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	6	0	0	4	0	0	0	0	0	0	9
21OCT	SE	0	0	4	0	0	4	0	0	0	0	0	0	5
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-121 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.84	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.12
04MAR	SE	0.00	0.84	0.00	0.00	0.00	0.00	0.00							0.84
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.27	1.53	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.26
18MAR	SE	0.27	0.78	0.00	0.00	0.00	0.00	0.00							0.83
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.33	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.05
31MAR	SE	0.33	0.00	0.00	0.00	0.00	0.00	0.00							0.33
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
09APR	SE	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
06MAY	SE	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.26	0.76	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
21MAY	SE	0.26	0.34	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.17	0.34	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.05
28MAY	SE	0.00	0.00	0.17	0.19	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.29
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.02
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.22
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-121 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.02
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.27
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.26	0.00	0.00	0.04
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.26	0.00	0.00	0.36
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	NS	NS	NS	NS	NS	0.03
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21						0.21
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-122 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	193	0	0	0	0	0	NS	NS	NS	NS	NS	NS	193
04MAR	SE	0	193	0	0	0	0	0							193
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	56	350	0	0	0	0	0	NS	NS	NS	NS	NS	NS	406
18MAR	SE	56	180	0	0	0	0	0							188
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	68	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	68
31MAR	SE	68	0	0	0	0	0	0							68
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	261	0	0	0	0	0	0	0	0	0	0	0	0	261
09APR	SE	96	0	0	0	0	0	0	0	0	0	0	0	0	96
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	14	0	0	0	0	0	0	0	0	14
06MAY	SE	0	0	0	0	14	0	0	0	0	0	0	0	0	14
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	53	174	0	0	33	0	0	0	0	0	0	0	0	261
21MAY	SE	53	79	0	0	33	0	0	0	0	0	0	0	0	101
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	55	50	0	0	0	39	0	0	0	0	0	144
28MAY	SE	0	0	55	29	0	0	0	39	0	0	0	0	0	73
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	40	0	0	40
04JUN	SE	0	0	0	0	0	0	0	0	0	0	40	0	0	40
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-122 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	38	0	0	0	38
18JUN	SE	0	0	0	0	0	0	0	0	0	38	0	0	0	38
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	35	45	0	0	81
01JUL	SE	0	0	0	0	0	0	0	0	0	35	45	0	0	58
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	63	NS	NS	NS	NS	NS	63
29JUL	SE	0	0	0	0	0	0	0	63						63
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-123 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.23	0.00	0.00	0.03
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.13	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.27	0.00	0.00	0.00	0.02
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.27	0.00	0.00	0.00	0.27
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.07	0.00	0.00	0.01
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.07	0.00	0.00	0.07
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.06	0.13	0.00	0.00	0.02
16SEP	SE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.06	0.07	0.00	0.00	0.10
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.07	0.00	0.00	0.01
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.07	0.00	0.00	0.07
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.02	0.05	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
14OCT	SE	0.00	0.02	0.03	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
11NOV	SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-124 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	0	2
09JUL	SE	0	0	0	0	0	2	0	0	0	0	0	0	0	2
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	18	41	0	0	59
22JUL	SE	0	0	0	0	0	0	0	0	0	10	24	0	0	26
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	8	0	39	0	0	0	47
05AUG	SE	0	0	0	0	0	0	0	6	0	39	0	0	0	39
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	2	4	4	0	0	12	0	0	22
19AUG	SE	0	0	0	0	0	2	4	4	0	0	12	0	0	13
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	4	0	0	0	4	0	8	22	0	0	39
16SEP	SE	0	0	0	4	0	0	0	4	0	8	13	0	0	16
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	4	4	0	0	12	0	0	20
30SEP	SE	0	0	0	0	0	0	4	4	0	0	12	0	0	13
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	5	16	0	3	0	0	4	0	0	0	0	0	28
14OCT	SE	0	5	11	0	3	0	0	4	0	0	0	0	0	13
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	5	0	0	0	0	0	0	0	0	0	0	0	5
11NOV	SE	0	5	0	0	0	0	0	0	0	0	0	0	0	5
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-125 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.02
17JUN	SE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.19
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.73	0.14	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
01JUL	SE	0.00	0.73	0.14	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
15JUL	SE	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
29JUL	SE	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11SEP	SE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
22SEP	SE	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-126 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	4	0	0	0	0	0	1	0	0	0	5
17JUN	SE	0	0	4	0	0	0	0	0	1	0	0	0	4
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	33	4	0	1	0	0	0	0	0	0	0	38
01JUL	SE	0	33	4	0	1	0	0	0	0	0	0	0	33
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	15	0	0	0	0	0	0	0	0	0	15
15JUL	SE	0	0	15	0	0	0	0	0	0	0	0	0	15
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	17	0	0	0	0	0	0	0	0	0	0	17
29JUL	SE	0	17	0	0	0	0	0	0	0	0	0	0	17
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
11SEP	SE	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	6	0	0	0	0	0	0	0	0	0	6
22SEP	SE	0	0	6	0	0	0	0	0	0	0	0	0	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-127 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-127 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.01
18JUN	SE	0.00	0.00	0.00	0.00	0.04	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.14
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00	0.14
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00	1.76
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.23	0.05	39.36	NS	NS	NS	NS	NS	4.96
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.23	0.05	31.78						31.78
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.58	2.37	68.58	NS	NS	NS	NS	NS	8.94
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.23	1.09	43.17						43.18
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.35	3.79	42.41	NS	NS	NS	NS	NS	5.82
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.22	2.26	26.45						26.55
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.52	0.44	1.16	8.08	NS	NS	NS	NS	NS	1.27
23SEP	SE	0.00	0.00	0.00	0.00	0.38	0.19	0.65	4.77						4.83
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	1.82	6.66	0.48	8.16	4.70	NS	NS	NS	NS	NS	2.73
07OCT	SE	0.00	0.00	0.00	0.40	2.50	0.34	1.80	2.25						3.85
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-128 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-128 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	8	0	19	0	0	0	0	0	0	27
18JUN	SE	0	0	0	0	8	0	19	0	0	0	0	0	0	21
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	525	0	0	0	0	0	525
01JUL	SE	0	0	0	0	0	0	0	525	0	0	0	0	0	525
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	49	6	11735	NS	NS	NS	NS	NS	11790
12AUG	SE	0	0	0	0	0	49	6	9474						9474
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	121	331	20446	NS	NS	NS	NS	NS	20898
26AUG	SE	0	0	0	0	0	47	152	12870						12871
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	73	530	12643	NS	NS	NS	NS	NS	13245
10SEP	SE	0	0	0	0	0	46	316	7886						7892
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	108	91	162	2408	NS	NS	NS	NS	NS	2769
23SEP	SE	0	0	0	0	80	38	91	1422						1428
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	269	1387	99	1141	1400	NS	NS	NS	NS	NS	4296
07OCT	SE	0	0	0	59	521	70	251	670						890
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-129 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.31	6.66	1.43	0.81
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.69	3.44	0.95	3.95
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	5.42	0.09	2.40	3.10	17.09	5.53	2.59
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.38	0.05	0.78	1.69	8.75	4.83	10.44
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.09	7.75	7.96	4.08	32.33	4.21	3.35	4.60
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	4.17	4.40	1.65	11.71	1.15	1.38	13.41
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.13	5.30	5.03	6.43	9.60	6.12	0.09	2.52
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.56	2.32	1.98	5.77	5.15	0.09	8.70
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	1.59	3.36	2.53	3.16	10.35	5.76	1.29	2.16
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1.09	1.08	1.97	3.83	1.99	0.44	5.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	1.54	2.41	4.29	6.55	3.49	1.45	0.10	1.53
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.86	2.02	3.30	3.09	1.67	0.23	0.10	5.30
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.70	1.00	1.96	11.85	2.99	3.55	6.48	0.99	2.27
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.48	0.67	0.77	5.21	1.19	1.30	2.84	0.26	6.30
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.03	0.29	14.03	7.77	3.10	2.62	2.83	11.80	3.56	3.54
14OCT	SE	0.00	0.00	0.00	0.00	0.02	0.22	4.46	3.02	2.25	0.83	0.97	0.35	3.42	6.90
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
28OCT	SE	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-130 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	20	407	1070	102	1600
09JUL	SE	0	0	0	0	0	0	0	0	0	20	298	553	67	632
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	1	1617	14	340	547	2747	393	5660
22JUL	SE	0	0	0	0	0	0	1	709	8	110	298	1406	344	1643
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	13	2310	1318	578	5700	677	238	10834
05AUG	SE	0	0	0	0	0	0	6	1244	728	234	2065	185	98	2538
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	19	1581	833	909	1692	983	7	6023
19AUG	SE	0	0	0	0	0	0	7	762	384	280	1018	827	7	1590
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	223	1000	418	447	1825	925	92	4931
02SEP	SE	0	0	0	0	0	0	83	324	179	278	675	320	31	883
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	2	215	720	709	927	616	233	7	3429
16SEP	SE	0	0	0	0	0	2	120	603	545	436	294	36	7	976
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	146	139	584	1962	423	625	1042	71	4992
30SEP	SE	0	0	0	0	0	100	94	229	863	169	228	456	19	1051
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	7	60	1961	2315	513	370	500	1896	253	7876
14OCT	SE	0	0	0	0	5	45	623	899	372	118	172	56	243	1201
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	3	1	0	4	0	0	0	0	0	9
28OCT	SE	0	0	0	0	2	1	0	4	0	0	0	0	0	5
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	1	0	0	0	0	0	0	0	1
11NOV	SE	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-131 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.50	0.05
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.34	0.36
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.50	0.00	0.13	10.11	0.08	1.13
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.12	0.00	0.09	6.71	0.08	6.84
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	1.60	1.17	0.00	1.00	0.00	0.11	4.00	1.29	0.76
29JUL	SE	0.00	0.00	0.00	0.00	1.60	1.17	0.00	0.55	0.00	0.11	3.24	0.89	3.94
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.21	0.00	5.20	16.17	31.80	419.20	32.40	31.11	86.50	27.14	54.14
12AUG	SE	0.00	0.00	0.15	0.00	4.95	3.78	15.87	175.21	16.48	17.14	26.09	10.40	179.85
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.07	0.00	8.20	26.50	44.40	380.60	126.00	119.22	121.90	44.29	72.60
25AUG	SE	0.00	0.00	0.07	0.00	4.49	23.51	39.95	333.79	69.54	50.96	32.06	30.54	350.68
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.29	0.00	0.60	145.33	136.00	317.00	1.60	109.22	78.50	29.14	68.14
11SEP	SE	0.00	0.00	0.16	0.00	0.60	55.75	106.97	183.89	1.60	41.17	42.14	25.72	229.13
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.04	0.00	2.20	4.20	68.17	242.40	53.40	26.20	17.22	79.60	50.71	45.35
22SEP	SE	0.00	0.04	0.00	1.56	2.06	42.47	172.29	19.17	12.32	11.56	38.04	21.68	184.57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.21	1.79	15.40	7.60	8.83	27.60	18.80	16.60	4.33	6.50	0.29	9.00
07OCT	SE	0.00	0.21	1.00	7.78	3.33	3.08	19.35	11.78	7.12	2.33	3.43	0.29	25.75
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	5.00	18.83	1.50	50.20	106.80	82.50	372.20	33.80	33.20	0.56	46.30	0.00	62.57
21OCT	SE	4.75	11.91	0.75	35.21	78.72	77.73	306.79	21.35	27.45	0.56	42.74	0.00	332.87
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-132 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	3	7	10
01JUL	SE	0	0	0	0	0	0	0	0	0	0	2	5	5
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	5	3	0	2	199	1	211
15JUL	SE	0	0	0	0	0	0	5	1	0	2	132	1	132
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	4	12	0	1	0	2	79	17	116
29JUL	SE	0	0	0	0	4	12	0	1	0	2	64	12	66
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	6	0	14	172	226	520	279	546	1702	369	3833
12AUG	SE	0	0	4	0	13	40	113	217	142	301	513	141	675
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	2	0	22	282	315	472	1085	2093	2398	602	7271
25AUG	SE	0	0	2	0	12	250	283	414	599	895	631	415	1429
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	8	0	2	1548	965	393	14	1917	1545	396	6787
11SEP	SE	0	0	4	0	2	594	759	228	14	723	829	349	1521
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	2	0	20	11	726	1720	66	226	302	1566	689	5329
22SEP	SE	0	2	0	14	5	452	1223	24	106	203	748	295	1549
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	9	48	142	20	94	196	23	143	76	128	4	883
07OCT	SE	0	9	27	72	9	33	137	15	61	41	67	4	190
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	38	856	40	463	281	879	2641	42	286	10	911	0	6446
21OCT	SE	36	541	20	324	207	828	2177	26	236	10	841	0	2575
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-133 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.84	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.12
04MAR	SE	0.00	0.84	0.00	0.00	0.00	0.00	0.00							0.84
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	1.68	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.24
18MAR	SE	0.00	1.36	0.00	0.00	0.00	0.00	0.00							1.36
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.24	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03
31MAR	SE	0.00	0.00	0.00	0.24	0.00	0.00	0.00							0.24
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
29APR	SE	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
06MAY	SE	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.29	0.00	0.00	0.00	0.16	0.24	0.88	0.00	0.00	0.27	1.10	2.57	0.62	0.47
21MAY	SE	0.29	0.00	0.00	0.00	0.16	0.24	0.67	0.00	0.00	0.27	0.84	1.37	0.62	1.91
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.21	0.00	0.08	0.00	0.00	0.00	0.30	0.23	1.44	0.66	0.23
28MAY	SE	0.00	0.00	0.00	0.21	0.00	0.08	0.00	0.00	0.00	0.30	0.23	0.76	0.66	1.10
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.43	0.00	0.27	0.58	0.59	0.60	0.21
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.43	0.00	0.27	0.36	0.59	0.60	1.07
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-133 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.09
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.56
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.04
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.57
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.01
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.16
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-134 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	193	0	0	0	0	0	NS	NS	NS	NS	NS	NS	193
04MAR	SE	0	193	0	0	0	0	0							193
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	386	0	0	0	0	0	NS	NS	NS	NS	NS	NS	386
18MAR	SE	0	311	0	0	0	0	0							311
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	35	0	0	0	NS	NS	NS	NS	NS	NS	35
31MAR	SE	0	0	0	35	0	0	0							35
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	52	0	0	0	0	0	0	0	0	0	0	0	52
29APR	SE	0	52	0	0	0	0	0	0	0	0	0	0	0	52
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	29	0	0	0	0	0	0	0	0	0	29
06MAY	SE	0	0	0	29	0	0	0	0	0	0	0	0	0	29
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	61	0	0	0	34	50	123	0	0	38	194	414	44	957
21MAY	SE	61	0	0	0	34	50	94	0	0	38	148	220	44	300
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	31	0	17	0	0	0	43	41	232	47	411
28MAY	SE	0	0	0	31	0	17	0	0	0	43	41	122	47	148
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	31	129	0	38	103	95	43	439
04JUN	SE	0	0	0	0	0	0	31	129	0	38	63	95	43	184
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-134 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	179	0	179
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	90	0	90
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	92	0	92
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	92	0	92
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	49	0	0	0	0	0	49
01JUL	SE	0	0	0	0	0	0	0	49	0	0	0	0	0	49
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-135 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.60	0.00	0.00	0.00	0.00	0.06
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.60	0.00	0.00	0.00	0.00	0.63
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-136 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	27	0	99	0	0	0	0	126
02SEP	SE	0	0	0	0	0	0	27	0	99	0	0	0	0	103
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-137 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.05
17JUN	SE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.40
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
29JUL	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-138 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	3	0	0	0	0	0	0	4	0	7
17JUN	SE	0	0	0	3	0	0	0	0	0	0	4	0	5
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
29JUL	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-139 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.30	0.03
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.30	0.30
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	< 0.005
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.02	0.00	0.01	0.02	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.02
03DEC	SE	0.00	0.00	0.02	0.00	0.01	0.02	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.08
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-140 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	8	0	0	21	30
19AUG	SE	0	0	0	0	0	0	0	0	0	8	0	0	21	23
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	7	0	7
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	7	0	7
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	5	0	2	5	24	8	0	0	0	0	0	44
03DEC	SE	0	0	5	0	2	3	10	6	0	0	0	0	0	14
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-141 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.01
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.13
29JUL	SE	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	1.50
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	3.60	1.33	0.00	0.00	0.60	0.11	0.00	0.00	0.47
25AUG	SE	0.00	0.00	0.00	0.00	3.60	1.15	0.00	0.00	0.40	0.11	0.00	0.00	3.80
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	1.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.18
11SEP	SE	0.00	0.00	0.00	0.00	1.60	0.00	0.40	0.00	0.00	0.00	0.00	0.00	1.65
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.04	0.07	0.00	1.60	0.00	0.60	0.00	0.00	0.00	0.00	0.43	0.23
22SEP	SE	0.00	0.04	0.07	0.00	1.60	0.00	0.60	0.00	0.00	0.00	0.00	0.30	1.74
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.07	0.20	6.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.62
07OCT	SE	0.00	0.00	0.07	0.20	6.35	0.00	0.40	0.00	0.00	0.00	0.00	0.00	6.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.38
21OCT	SE	0.00	0.00	0.00	0.00	3.75	0.00	0.00	0.60	0.00	0.00	0.00	0.00	3.80
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-142 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
01JUL	SE	0	0	0	0	0	0	1	0	0	0	0	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	16	0	0	0	0	0	0	16
29JUL	SE	0	0	0	0	0	16	0	0	0	0	0	0	16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	9	14	0	0	5	2	0	0	31
25AUG	SE	0	0	0	0	9	12	0	0	3	2	0	0	16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	4	0	4	0	0	0	0	0	8
11SEP	SE	0	0	0	0	4	0	3	0	0	0	0	0	5
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	2	2	0	4	0	4	0	0	0	0	6	18
22SEP	SE	0	2	2	0	4	0	4	0	0	0	0	4	8
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	2	2	17	0	4	0	0	0	0	0	25
07OCT	SE	0	0	2	2	17	0	3	0	0	0	0	0	17
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	11	0	0	1	0	0	0	0	11
21OCT	SE	0	0	0	0	10	0	0	1	0	0	0	0	10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-143 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	< 0.005
11NOV	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	< 0.005
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-144 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	2	0	0	0	0	0	0	7	0	9
11NOV	SE	0	0	0	0	2	0	0	0	0	0	0	7	0	7
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	5	0	2	0	0	0	0	7
03DEC	SE	0	0	0	0	0	0	2	0	2	0	0	0	0	3
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-145 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.01
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.03
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.26
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.01
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.14	0.00	0.00	2.00	0.00	0.00	0.40	0.00	0.00	0.00	0.21
25AUG	SE	0.00	0.00	0.14	0.00	0.00	2.00	0.00	0.00	0.40	0.00	0.00	0.00	2.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	1.17	0.40	0.00	0.80	0.00	0.00	0.00	0.20
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.48	0.40	0.00	0.80	0.00	0.00	0.00	1.01
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.17	0.50	0.40	0.40	0.17	1.00	0.40	1.60	0.00	0.00	0.43	0.42
22SEP	SE	0.00	0.10	0.31	0.40	0.24	0.17	0.63	0.24	0.81	0.00	0.00	0.30	1.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.14	1.60	2.00	0.83	0.40	0.20	0.00	0.00	0.00	0.00	0.43
07OCT	SE	0.00	0.00	0.10	1.60	1.26	0.83	0.40	0.20	0.00	0.00	0.00	0.00	2.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	1.20	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.13
21OCT	SE	0.00	0.00	0.00	0.00	0.80	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.84
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-146 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	1	0	0	1
15JUL	SE	0	0	0	0	0	0	0	0	0	1	0	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	2	0	< 0.5	0	0	0	0	2
29JUL	SE	0	0	0	0	0	2	0	< 0.5	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	2	0	2
12AUG	SE	0	0	0	0	0	0	0	0	0	0	2	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	4	0	0	21	0	0	3	0	0	0	29
25AUG	SE	0	0	4	0	0	21	0	0	3	0	0	0	22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	12	3	0	7	0	0	0	22
11SEP	SE	0	0	0	0	0	5	3	0	7	0	0	0	9
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	8	13	4	1	2	7	< 0.5	14	0	0	6	55
22SEP	SE	0	4	8	4	1	2	4	< 0.5	7	0	0	4	14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	4	15	5	9	3	< 0.5	0	0	0	0	36
07OCT	SE	0	0	3	15	3	9	3	< 0.5	0	0	0	0	18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	3	2	0	< 0.5	0	0	0	0	5
21OCT	SE	0	0	0	0	2	2	0	< 0.5	0	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-147 REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-147 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-148 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-148 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-149 REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-150 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-151 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-152 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-153 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-153 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	1555.71	9176.92	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00	1.07	0.00	825.77
18JUN	SE	907.50	4452.51	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00	1.07	0.00	4544.05
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	716.42	689.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108.16
24JUN	SE	229.01	187.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	295.98
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	545.33	7285.53	75.50	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	608.20
01JUL	SE	356.07	3479.99	66.44	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3498.79
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	1319.15	2803.22	168.32	3.11	1.29	0.00	0.40	0.72	NS	NS	NS	NS	NS	537.03
15JUL	SE	1027.92	1676.33	139.00	2.76	1.29	0.00	0.40	0.72						1971.30
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	472.97	1991.48	89.24	0.00	0.00	0.27	0.00	0.42	NS	NS	NS	NS	NS	319.30
29JUL	SE	236.32	872.27	71.10	0.00	0.00	0.27	0.00	0.42						906.51
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	9.68	55.63	0.27	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	8.20
12AUG	SE	3.51	28.53	0.27	0.00	0.00	0.00	0.00	0.00						28.74
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-154 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-154 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST.CROP	325164	2105372	0	0	0	0	188	0	0	0	0	172	0	2430896
18JUN	SE	189679	1021496	0	0	0	0	188	0	0	0	0	172	0	1038957
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST.CROP	149741	158209	0	0	0	0	0	0	0	0	0	0	0	307951
24JUN	SE	47866	43018	0	0	0	0	0	0	0	0	0	0	0	64356
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST.CROP	113982	1671448	24298	33	0	0	0	0	0	0	0	0	0	1809761
01JUL	SE	74423	798381	21382	33	0	0	0	0	0	0	0	0	0	802127
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST.CROP	275718	643117	54168	460	268	0	55	216	NS	NS	NS	NS	NS	974002
15JUL	SE	214848	384584	44732	408	268	0	55	216						442793
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST.CROP	98858	456885	28720	0	0	56	0	126	NS	NS	NS	NS	NS	584645
29JUL	SE	49395	200116	22880	0	0	56	0	126						207388
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST.CROP	2024	12763	87	0	0	0	0	0	NS	NS	NS	NS	NS	14874
12AUG	SE	734	6545	87	0	0	0	0	0						6587
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-155 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-155 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-156 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-156 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-157 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-157 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	NS	NS	NS	NS	NS	0.13
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06						1.06
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-158 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-158 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	315	NS	NS	NS	NS	NS	315
15JUL	SE	0	0	0	0	0	0	0	315						315
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-159 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-159 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	NS	NS	NS	NS	NS	0.11
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00						0.05
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-160 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-160 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	125	0	NS	NS	NS	NS	NS	125
26AUG	SE	0	0	0	0	0	0	8	0						8
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-161 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.54	0.00	0.00	0.00	0.05
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.54	0.00	0.00	0.00	0.54
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.03	0.00	0.00	1.05	0.03	0.18	0.03	0.00	0.00	0.07	0.00	0.00	0.11
19AUG	SE	0.00	0.03	0.00	0.00	1.05	0.01	0.18	0.02	0.00	0.00	0.07	0.00	0.00	1.06
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.03	0.03	0.24	0.08	0.03	0.00	0.06	0.16	0.12	0.00	0.06
02SEP	SE	0.00	0.00	0.00	0.03	0.02	0.21	0.04	0.02	0.00	0.06	0.09	0.12	0.00	0.27
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.02	0.22	0.01	0.04	0.12	0.00	0.00	0.00	0.04
16SEP	SE	0.00	0.00	0.00	0.00	0.04	0.01	0.07	0.01	0.03	0.12	0.00	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.09	0.01	0.02	0.30	0.04	0.05	0.06	0.00	0.00	0.00	0.04
30SEP	SE	0.00	0.00	0.00	0.07	0.01	0.01	0.17	0.02	0.04	0.06	0.00	0.00	0.00	0.19
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.43	0.09	0.00	0.71	0.49	0.01	0.06	0.00	0.00	0.00	0.00	0.14
14OCT	SE	0.00	0.00	0.43	0.09	0.00	0.26	0.39	0.01	0.03	0.00	0.00	0.00	0.00	0.64
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.11	0.23	0.64	0.06	0.14	0.03	0.00	0.00	0.00	0.09
28OCT	SE	0.00	0.00	0.00	0.00	0.08	0.06	0.11	0.03	0.07	0.03	0.00	0.00	0.00	0.17
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.12	0.34	0.30	0.11	0.00	0.00	0.00	0.00	0.07
11NOV	SE	0.00	0.00	0.00	0.00	0.02	0.06	0.12	0.15	0.05	0.00	0.00	0.00	0.00	0.21
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.18	0.16	0.26	0.19	0.10	0.07	0.00	0.00	0.00	0.07
03DEC	SE	0.00	0.00	0.00	0.00	0.12	0.07	0.14	0.11	0.06	0.07	0.00	0.00	0.00	0.24
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-162 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	2	0	13	0	76	0	0	0	91
05AUG	SE	0	0	0	0	0	2	0	7	0	76	0	0	0	76
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	6	0	0	218	5	25	7	0	0	12	0	0	274
19AUG	SE	0	6	0	0	218	3	25	5	0	0	12	0	0	220
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	4	5	51	11	8	0	9	28	19	0	134
02SEP	SE	0	0	0	4	3	44	5	6	0	9	16	19	0	52
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	10	4	31	4	7	17	0	0	0	74
16SEP	SE	0	0	0	0	8	3	10	4	5	17	0	0	0	22
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	13	1	3	43	12	8	8	0	0	0	89
30SEP	SE	0	0	0	10	1	2	23	6	6	8	0	0	0	28
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	138	14	0	146	68	4	10	0	0	0	0	380
14OCT	SE	0	0	138	14	0	55	55	4	5	0	0	0	0	159
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	23	48	90	17	24	5	0	0	0	206
28OCT	SE	0	0	0	0	16	12	15	10	11	5	0	0	0	30
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	5	26	47	89	19	0	0	0	0	186
11NOV	SE	0	0	0	0	5	13	17	45	9	0	0	0	0	51
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	36	33	37	56	16	9	0	0	0	188
03DEC	SE	0	0	0	0	24	14	20	32	9	9	0	0	0	48
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-163 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.33	0.20	0.00	0.00	0.00	0.00	0.00	0.04
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.33	0.20	0.00	0.00	0.00	0.00	0.00	0.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	1.33	0.20	0.00	0.00	0.00	0.00	0.00	0.13
25AUG	SE	0.00	0.00	0.00	0.00	0.00	1.33	0.20	0.00	0.00	0.00	0.00	0.00	1.35
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.07
11SEP	SE	0.00	0.00	0.00	0.24	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.47
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.07	0.40	0.00	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.10
22SEP	SE	0.00	0.00	0.07	0.40	0.00	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.67
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-164 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	4	1	0	0	0	0	0	5
12AUG	SE	0	0	0	0	0	4	1	0	0	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	14	1	0	0	0	0	0	16
25AUG	SE	0	0	0	0	0	14	1	0	0	0	0	0	14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	4	0	0	3	0	0	0	0	0	7
11SEP	SE	0	0	0	2	0	0	3	0	0	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	2	4	0	5	1	0	0	0	0	0	12
22SEP	SE	0	0	2	4	0	5	1	0	0	0	0	0	7
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-165 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.23	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03
31MAR	SE	0.00	0.00	0.00	0.00	0.23	0.00	0.00							0.23
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.04
09APR	SE	0.00	0.00	0.00	0.00	0.17	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.34
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.53	1.58	2.55	0.00	1.93	0.87	0.00	0.00	0.00	0.00	0.00	0.57
15APR	SE	0.00	0.00	0.53	0.74	0.99	0.00	1.93	0.50	0.00	0.00	0.00	0.00	0.00	2.41
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	1.71	2.02	1.26	0.93	0.55	0.26	0.00	0.00	0.28	0.00	0.00	0.54
22APR	SE	0.00	0.00	1.01	1.02	1.26	0.57	0.55	0.26	0.00	0.00	0.28	0.00	0.00	2.11
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.11	2.83	5.39	0.64	0.96	1.01	1.99	0.63	1.13	0.00	0.00	0.00	1.13
29APR	SE	0.00	0.11	1.55	2.58	0.48	0.75	0.41	1.65	0.28	1.13	0.00	0.00	0.00	3.75
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.77	3.86	20.45	4.30	5.44	4.13	2.28	2.38	0.38	0.00	0.00	0.00	3.38
06MAY	SE	0.00	0.41	0.93	10.21	4.07	1.16	1.37	0.79	0.71	0.38	0.00	0.00	0.00	11.24
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	4.51	16.74	3.72	0.45	2.03	3.96	1.69	1.29	1.39	0.38	0.00	0.00	2.78
12MAY	SE	0.00	3.16	4.74	2.39	0.27	0.62	0.44	0.39	0.58	1.39	0.38	0.00	0.00	6.44
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.81	1.38	2.70	0.87	0.00	1.59	0.14	0.70	0.00	0.92	0.00	0.00	0.70
21MAY	SE	0.00	0.70	0.86	1.18	0.48	0.00	0.99	0.14	0.70	0.00	0.44	0.00	0.00	2.13
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	1.52	2.22	2.00	2.20	0.47	0.97	0.48	0.60	0.00	0.31	0.70	0.58	0.00	0.93
28MAY	SE	1.52	0.97	0.59	1.47	0.28	0.97	0.28	0.23	0.00	0.31	0.47	0.58	0.00	2.75
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	8.02	0.69	5.24	0.20	0.43	3.05	0.87	0.00	0.14	0.25	0.00	0.00	0.00	1.45
04JUN	SE	3.69	0.36	4.79	0.20	0.43	1.18	0.87	0.00	0.14	0.25	0.00	0.00	0.00	6.25
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-165 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	6.14	6.88	0.49	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	1.05
10JUN	SE	4.34	4.13	0.37	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	6.01
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.92	0.26	0.00	0.00	0.04	0.00	0.13	0.00	0.00	0.57	0.00	0.00	0.00	0.15
18JUN	SE	0.92	0.26	0.00	0.00	0.04	0.00	0.13	0.00	0.00	0.33	0.00	0.00	0.00	1.02
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	4.11	1.23	0.66	0.04	0.12	0.58	0.00	0.00	0.56	0.58	0.00	0.00	0.61
24JUN	SE	0.00	2.80	0.74	0.44	0.04	0.12	0.43	0.00	0.00	0.32	0.34	0.00	0.00	3.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.04	0.12	0.04	0.00	0.12	0.00	0.00	0.00	0.00	0.02
01JUL	SE	0.00	0.00	0.00	0.00	0.04	0.12	0.04	0.00	0.12	0.00	0.00	0.00	0.00	0.18
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	NS	NS	NS	NS	NS	0.04
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00						0.31
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	7.29	0.00	0.22	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.94
29JUL	SE	0.00	0.00	2.37	0.00	0.13	0.00	0.00	0.00						2.38
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	3.06	0.00	0.37	0.00	NS	NS	NS	NS	NS	0.43
12AUG	SE	0.00	0.00	0.00	0.00	1.76	0.00	0.29	0.00						1.78
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.78	0.13	0.33	0.93	0.82	NS	NS	NS	NS	NS	0.37
26AUG	SE	0.00	0.00	0.00	0.48	0.13	0.21	0.70	0.49						1.01
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	1.41	1.84	2.59	1.12	NS	NS	NS	NS	NS	0.87
10SEP	SE	0.00	0.00	0.00	0.00	0.87	0.81	2.20	0.77						2.62
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.17	0.57	0.21	0.00	0.79	NS	NS	NS	NS	NS	0.22
23SEP	SE	0.00	0.00	0.00	0.17	0.57	0.12	0.00	0.45						0.76
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.19	1.54	14.51	5.10	0.00	NS	NS	NS	NS	NS	2.67
07OCT	SE	0.00	0.00	0.00	0.19	1.05	9.29	1.07	0.00						9.41
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-166 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	47	0	0	NS	NS	NS	NS	NS	NS	47
31MAR	SE	0	0	0	0	47	0	0							47
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	61	0	41	0	0	0	0	0	0	101
09APR	SE	0	0	0	0	35	0	41	0	0	0	0	0	0	54
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	170	233	531	0	270	260	0	0	0	0	0	1464
15APR	SE	0	0	170	110	207	0	270	149	0	0	0	0	0	423
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	549	299	263	194	77	77	0	0	50	0	0	1509
22APR	SE	0	0	326	150	263	119	77	77	0	0	50	0	0	476
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	25	910	797	133	199	141	594	103	160	0	0	0	3062
29APR	SE	0	25	497	380	100	156	57	491	46	160	0	0	0	836
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	178	1241	3021	896	1130	577	679	395	54	0	0	0	8170
06MAY	SE	0	94	298	1508	849	241	191	237	118	54	0	0	0	1805
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	1035	5386	550	94	421	553	505	214	197	67	0	0	9023
12MAY	SE	0	725	1527	354	55	129	62	115	97	197	67	0	0	1753
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	186	444	399	182	0	222	41	116	0	162	0	0	1751
21MAY	SE	0	161	278	174	100	0	139	41	116	0	77	0	0	428
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	318	509	645	326	99	202	67	180	0	44	124	94	0	2607
28MAY	SE	318	222	189	218	58	202	39	69	0	44	82	94	0	549
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	1677	157	1686	29	89	633	121	0	24	36	0	0	0	4452
04JUN	SE	771	82	1541	29	89	245	121	0	24	36	0	0	0	1749
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-166 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	1283	1579	159	0	0	0	22	0	0	0	0	0	0	3043
10JUN	SE	907	948	118	0	0	0	22	0	0	0	0	0	0	1318
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	191	60	0	0	8	0	18	0	0	80	0	0	0	358
18JUN	SE	191	60	0	0	8	0	18	0	0	47	0	0	0	207
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	944	397	98	8	24	81	0	0	79	103	0	0	1733
24JUN	SE	0	642	237	65	8	24	60	0	0	45	59	0	0	695
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	8	24	6	0	20	0	0	0	0	58
01JUL	SE	0	0	0	0	8	24	6	0	20	0	0	0	0	33
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	44	0	NS	NS	NS	NS	NS	44
15JUL	SE	0	0	0	0	0	0	44	0						44
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	2347	0	47	0	0	0	NS	NS	NS	NS	NS	2394
29JUL	SE	0	0	763	0	28	0	0	0						764
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	636	0	52	0	NS	NS	NS	NS	NS	689
12AUG	SE	0	0	0	0	366	0	40	0						368
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	116	28	69	130	243	NS	NS	NS	NS	NS	586
26AUG	SE	0	0	0	70	28	44	98	145						195
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	294	381	362	334	NS	NS	NS	NS	NS	1371
10SEP	SE	0	0	0	0	182	169	307	229						456
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	25	118	44	0	235	NS	NS	NS	NS	NS	421
23SEP	SE	0	0	0	25	118	25	0	135						183
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	29	321	3010	712	0	NS	NS	NS	NS	NS	4072
07OCT	SE	0	0	0	29	220	1927	150	0						1945
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-167 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.90	4.85	0.66	0.43	1.10	0.28	0.78	0.09	0.00	1.81	0.30	0.13	0.00	0.87
09JUL	SE	0.64	1.63	0.16	0.23	0.76	0.14	0.24	0.05	0.00	0.68	0.18	0.13	0.00	2.08
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	1.07	1.30	1.37	0.47	0.17	0.08	0.13	0.23	0.16	0.72	0.85	2.21	0.00	0.67
22JUL	SE	0.68	0.50	0.38	0.28	0.09	0.05	0.07	0.08	0.08	0.54	0.55	1.45	0.00	1.91
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.03	2.65	2.40	9.78	2.62	0.82	1.15	0.33	0.23	0.49	1.62	0.00	0.26	1.72
05AUG	SE	0.03	1.19	0.33	2.45	0.66	0.25	0.35	0.13	0.09	0.22	0.71	0.00	0.26	2.97
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.07	2.30	1.72	0.15	2.46	1.96	3.42	0.60	0.26	0.00	0.72	0.00	0.00	1.05
19AUG	SE	0.07	1.31	0.75	0.12	1.08	0.50	1.15	0.29	0.15	0.00	0.42	0.00	0.00	2.31
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.06	0.10	0.43	1.17	2.44	3.60	5.37	1.92	1.00	2.07	2.88	0.00	0.00	1.62
02SEP	SE	0.06	0.05	0.12	0.32	0.77	0.93	1.59	0.68	0.29	1.31	0.94	0.00	0.00	2.70
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.03	0.14	0.42	5.64	1.39	1.60	10.02	1.77	2.35	2.26	3.14	0.00	0.53	2.25
16SEP	SE	0.03	0.05	0.17	1.05	0.69	0.25	2.74	0.93	0.29	1.10	2.07	0.00	0.32	3.97
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.03	0.02	1.34	9.16	5.30	2.36	11.40	1.55	2.72	3.93	2.25	0.11	0.00	3.09
30SEP	SE	0.03	0.02	0.61	2.48	2.13	0.55	2.79	0.40	0.63	0.09	1.12	0.11	0.00	4.58
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.29	1.28	7.72	9.42	7.54	16.30	5.01	3.42	4.21	7.23	0.00	0.92	4.87
14OCT	SE	0.00	0.12	0.72	2.18	3.24	1.96	2.92	2.02	0.52	1.63	2.32	0.00	0.92	6.43
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.03	0.87	2.85	2.13	6.51	11.23	12.03	6.26	2.87	6.71	1.09	0.03	0.00	4.05
28OCT	SE	0.03	0.30	1.17	0.89	2.58	2.09	2.21	1.60	0.61	2.18	0.49	0.03	0.00	5.10
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.03	0.08	1.09	2.10	15.32	11.41	8.60	2.74	3.63	8.37	1.72	0.00	0.00	4.24
11NOV	SE	0.03	0.05	0.57	0.70	3.92	1.86	1.05	1.04	0.80	3.48	0.60	0.00	0.00	5.91
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.13	1.57	4.69	6.36	3.51	1.60	1.71	0.68	3.05	0.21	0.00	0.00	1.81
03DEC	SE	0.02	0.07	0.49	0.77	1.71	1.23	0.72	0.89	0.33	1.52	0.12	0.00	0.00	3.01
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-168 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	188	1113	212	64	230	58	110	27	0	256	54	20	0	2330
09JUL	SE	134	375	51	34	159	28	34	15	0	96	32	20	0	448
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	223	298	441	70	36	17	18	70	26	102	150	355	0	1807
22JUL	SE	142	114	122	42	19	10	10	24	14	76	96	234	0	347
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	7	607	772	1444	547	171	161	98	38	70	286	0	18	4220
05AUG	SE	7	272	105	362	138	52	48	39	15	32	126	0	18	510
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	14	528	555	22	513	408	478	178	43	0	128	0	0	2866
19AUG	SE	14	301	241	17	225	105	161	87	24	0	74	0	0	500
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	13	23	139	172	509	747	750	574	166	293	507	0	0	3892
02SEP	SE	13	12	37	48	160	194	223	204	48	185	166	0	0	472
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	6	32	134	834	290	332	1401	527	388	319	553	0	38	4854
16SEP	SE	6	12	55	155	143	52	383	278	49	156	365	0	23	660
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	7	5	431	1353	1104	489	1594	463	450	555	396	18	0	6866
30SEP	SE	7	5	198	367	444	114	390	120	105	13	197	18	0	775
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	67	413	1141	1963	1564	2278	1493	566	595	1274	0	65	11419
14OCT	SE	0	28	233	323	675	406	408	601	86	231	409	0	65	1241
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	6	199	917	315	1356	2329	1682	1865	474	950	191	6	0	10291
28OCT	SE	6	69	376	132	536	434	308	477	102	308	87	6	0	1037
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	6	18	351	310	3192	2367	1202	818	601	1185	304	0	0	10353
11NOV	SE	6	11	183	103	818	386	146	310	133	493	106	0	0	1118
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	3	31	504	693	1325	728	224	510	112	432	37	0	0	4600
03DEC	SE	3	17	159	114	356	256	101	266	55	215	21	0	0	601
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-169 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.14	0.00	0.00	1.00	0.25	0.00	0.00	0.06	0.00	0.00	0.12
17JUN	SE	0.00	0.00	0.14	0.00	0.00	0.58	0.25	0.00	0.00	0.06	0.00	0.00	0.65
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.67	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.08
01JUL	SE	0.33	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.36
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	< 0.005
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.80	2.71	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.35
29JUL	SE	0.80	1.84	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	2.05
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	5.40	0.46	0.14	0.20	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.55
12AUG	SE	5.40	0.30	0.10	0.20	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	5.42
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.20	0.21	0.00	1.00	0.20	0.50	0.00	0.00	0.00	0.11	0.00	0.00	0.18
25AUG	SE	0.20	0.08	0.00	0.63	0.20	0.50	0.00	0.00	0.00	0.11	0.00	0.00	0.87
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.20	0.25	0.07	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
11SEP	SE	0.20	0.12	0.07	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
22SEP	SE	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
21OCT	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-170 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	4	0	0	11	2	0	0	1	0	0	17
17JUN	SE	0	0	4	0	0	6	2	0	0	1	0	0	8
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	5	8	0	0	0	0	0	0	0	1	0	0	14
01JUL	SE	3	6	0	0	0	0	0	0	0	1	0	0	6
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	1	0	1
15JUL	SE	0	0	0	0	0	0	0	0	0	0	1	0	1
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	6	123	0	6	0	0	0	0	0	2	0	0	137
29JUL	SE	6	84	0	4	0	0	0	0	0	2	0	0	84
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	41	21	4	2	1	2	0	0	0	0	0	0	69
12AUG	SE	41	14	3	2	1	2	0	0	0	0	0	0	43
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	2	9	0	9	1	5	0	0	0	2	0	0	28
25AUG	SE	2	4	0	6	1	5	0	0	0	2	0	0	9
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	2	11	2	6	0	0	0	0	0	0	0	0	20
11SEP	SE	2	6	2	6	0	0	0	0	0	0	0	0	8
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	6	0	0	0	0	0	0	0	0	6
22SEP	SE	0	0	0	4	0	0	0	0	0	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
21OCT	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-171 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-171 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-172 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-172 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-173 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.11	0.12	0.02
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.11	0.12	0.16
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.01
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.13	0.00	0.01
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.13	0.00	0.13
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.36	0.50	0.12	0.12	0.00	0.09
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.20	0.07	0.12	0.00	0.25
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.09	1.11	0.24	0.05	0.12
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.34	0.11	0.05	0.37
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-174 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
09JUL	SE	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	4	0	0	0	0	17	8	30
05AUG	SE	0	0	0	0	0	0	4	0	0	0	0	17	8	20
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	18	0	18
19AUG	SE	0	0	0	0	0	0	0	0	0	0	0	18	0	18
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	1	0	4	0	0	0	0	5
16SEP	SE	0	0	0	0	0	0	1	0	4	0	0	0	0	4
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	20	0	21
30SEP	SE	0	0	0	0	0	0	1	0	0	0	0	20	0	20
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	1	0	59	71	21	19	0	172
14OCT	SE	0	0	0	0	0	0	1	0	11	28	12	19	0	38
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	10	13	197	38	3	260
11NOV	SE	0	0	0	0	0	0	0	0	6	9	60	18	3	64
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	8	0	0	0	0	0	5	0	12
03DEC	SE	0	0	0	0	0	4	0	0	0	0	0	5	0	6
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-175 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.13	0.06	1.06	0.33	0.15
17JUN	SE	0.00	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.13	0.06	1.06	0.14	1.09
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.14	0.00	0.00	0.00	8.88	4.25	5.50	4.80	7.26	3.50	2.86
01JUL	SE	0.00	0.00	0.14	0.00	0.00	0.00	7.19	2.20	3.15	1.53	5.93	2.28	10.45
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.14	9.67	0.00	0.00	18.38	10.88	3.63	9.47	5.95	3.42	5.13
15JUL	SE	0.00	0.00	0.14	9.67	0.00	0.00	8.28	4.27	1.96	4.29	2.78	2.09	14.65
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.21	3.80	1.00	6.17	22.80	9.60	22.60	5.22	9.90	1.86	6.93
29JUL	SE	0.00	0.00	0.21	3.32	0.63	5.06	22.06	3.75	14.79	3.24	6.53	1.53	28.49
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	8.60	0.33	41.00	39.20	15.40	25.56	28.40	48.57	17.26
12AUG	SE	0.00	0.00	0.00	0.00	4.04	0.21	30.77	13.28	10.35	12.33	20.54	34.96	55.16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	1.40	4.20	0.83	15.60	38.20	33.80	11.78	19.00	3.00	10.65
25AUG	SE	0.00	0.00	0.00	1.40	2.24	0.83	12.92	17.07	19.49	2.62	10.58	1.50	31.10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	2.60	6.67	25.60	16.20	10.00	12.00	28.00	5.57	8.89
11SEP	SE	0.00	0.00	0.00	0.00	1.94	5.23	12.03	3.97	5.74	6.39	21.06	5.25	27.14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	1.20	2.33	8.20	10.40	13.60	10.22	7.30	31.29	7.05
22SEP	SE	0.00	0.00	0.00	0.00	0.73	1.67	4.54	4.23	8.23	2.73	3.82	10.46	15.52
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.40	6.00	23.80	3.80	4.00	0.89	7.40	0.43	3.89
07OCT	SE	0.00	0.00	0.00	0.00	0.24	6.00	8.63	0.97	1.38	0.51	6.00	0.20	12.24
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.20	2.00	5.40	0.80	2.00	2.11	10.00	0.00	1.88
21OCT	SE	0.00	0.00	0.00	0.00	0.20	2.00	2.93	0.58	2.00	0.59	3.80	0.00	5.63
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-176 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	4	4	0	0	0	0	0	1	1	21	5	35
17JUN	SE	0	4	4	0	0	0	0	0	1	1	21	2	22
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	4	0	0	0	63	5	47	84	143	48	394
01JUL	SE	0	0	4	0	0	0	51	3	27	27	117	31	137
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	4	89	0	0	130	13	31	166	117	46	598
15JUL	SE	0	0	4	89	0	0	59	5	17	75	55	28	146
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	6	35	3	66	162	12	195	92	195	25	789
29JUL	SE	0	0	6	31	2	54	157	5	127	57	129	21	255
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	23	4	291	49	133	449	559	660	2166
12AUG	SE	0	0	0	0	11	2	218	16	89	216	404	475	701
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	13	11	9	111	47	291	207	374	41	1103
25AUG	SE	0	0	0	13	6	9	92	21	168	46	208	20	288
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	7	71	182	20	86	211	551	76	1203
11SEP	SE	0	0	0	0	5	56	85	5	49	112	414	71	450
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	3	25	58	13	117	179	144	425	964
22SEP	SE	0	0	0	0	2	18	32	5	71	48	75	142	186
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	1	64	169	5	34	16	146	6	440
07OCT	SE	0	0	0	0	1	64	61	1	12	9	118	3	148
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	1	21	38	1	17	37	197	0	312
21OCT	SE	0	0	0	0	1	21	21	1	17	10	75	0	83
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-177 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.10	0.00	0.00	NS	NS	NS	NS	NS	NS	0.01
18MAR	SE	0.00	0.00	0.00	0.00	0.06	0.00	0.00							0.06
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.30	0.00	0.00	0.00	0.07
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.30	0.00	0.00	0.00	0.66
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.30	0.00	0.48	0.00	0.10
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.30	0.00	0.48	0.00	0.64
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	1.27	0.58	0.15
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.64	0.58	0.87
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.56	0.09
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.56	0.81
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-177 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43	0.05
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43	0.50
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.60	0.06
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.60	0.61
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.05
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.68
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	NS	NS	NS	NS	NS	0.01
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00						0.04
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-178 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	21	0	0	NS	NS	NS	NS	NS	NS	21
18MAR	SE	0	0	0	0	12	0	0							12
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	19	0	0	0	0	0	0	0	19
09APR	SE	0	0	0	0	0	19	0	0	0	0	0	0	0	19
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	97	43	0	0	0	139
15APR	SE	0	0	0	0	0	0	0	0	97	43	0	0	0	106
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	68	0	0	43	0	78	0	188
21MAY	SE	0	0	0	0	0	0	39	0	0	43	0	78	0	97
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	37	0	0	0	203	41	282
28MAY	SE	0	0	0	0	0	0	0	37	0	0	0	103	41	117
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	82	0	0	40	122
04JUN	SE	0	0	0	0	0	0	0	0	0	82	0	0	40	92
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-178 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	36	0	0	30	66
10JUN	SE	0	0	0	0	0	0	0	0	0	36	0	0	30	47
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	21	0	0	0	43	63
18JUN	SE	0	0	0	0	0	0	0	0	21	0	0	0	43	48
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	110	0	110
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	110	0	110
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	6	0	NS	NS	NS	NS	NS	6
15JUL	SE	0	0	0	0	0	0	6	0						6
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-179 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.07	0.00	0.00	0.00	0.01
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.07	0.00	0.00	0.00	0.08
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.11	0.01
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.11	0.11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.21	0.00	0.02
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.21	0.00	0.21
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.06	0.24	0.13	0.00	0.00	0.04
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.17	0.08	0.00	0.00	0.19
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.06	0.00	0.00	0.00	0.01
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.06
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.49	1.01	0.56	0.11	0.41	0.20
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.14	0.82	0.19	0.11	0.01	0.86
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	< 0.005
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.07	0.59	2.51	1.16	0.00	0.34
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.02	0.27	0.84	0.42	0.00	0.98
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.03	0.04	0.03	0.18	0.31	0.37	0.08
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.02	0.03	0.03	0.10	0.13	0.27	0.32
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-180 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	8	0	0	10	0	0	0	18
09JUL	SE	0	0	0	0	0	0	5	0	0	10	0	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	2	0	0	0	0	0	8	10
22JUL	SE	0	0	0	0	0	0	2	0	0	0	0	0	8	8
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	1	5	0	0	0	34	0	40
05AUG	SE	0	0	0	0	0	0	1	5	0	0	0	34	0	35
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	0	5	0	3	0	0	0	0	8
19AUG	SE	0	0	0	0	0	0	4	0	3	0	0	0	0	5
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	0	7	0	11	33	24	0	0	74
16SEP	SE	0	0	0	0	0	0	5	0	5	24	14	0	0	28
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	4	0	0	8	0	0	0	12
30SEP	SE	0	0	0	0	0	0	2	0	0	8	0	0	0	9
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	10	0	81	143	98	18	29	380
14OCT	SE	0	0	0	0	0	0	9	0	23	116	33	18	< 0.5	125
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	4	0	0	0	4
28OCT	SE	0	0	0	0	0	0	0	0	0	4	0	0	0	4
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	1	4	0	12	83	443	187	0	731
11NOV	SE	0	0	0	0	0	1	4	0	4	38	149	68	0	168
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	14	8	9	6	4	32	50	26	148
03DEC	SE	0	0	0	0	0	4	5	6	4	4	17	20	19	35
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-181 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.43	0.67	0.67	4.00	19.88	7.50	5.50	10.50	3.11	5.67	4.83
17JUN	SE	0.00	0.00	0.30	0.67	0.67	4.00	14.12	3.13	3.13	2.91	1.78	3.36	16.09
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	1.14	0.33	0.00	0.00	18.50	5.25	1.63	3.60	18.53	28.67	6.47
01JUL	SE	0.00	0.00	0.86	0.33	0.00	0.00	5.63	2.14	1.36	1.23	14.59	13.41	20.81
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.14	0.00	0.00	0.00	4.38	9.25	3.13	14.53	10.16	0.25	3.49
15JUL	SE	0.00	0.00	0.14	0.00	0.00	0.00	1.98	5.07	1.95	8.46	5.25	0.25	11.51
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.40	1.60	2.33	12.40	5.00	1.60	0.67	0.90	0.29	2.10
29JUL	SE	0.00	0.00	0.00	0.40	1.17	2.33	11.66	2.07	1.17	0.29	0.60	0.29	12.22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.21	0.20	0.20	0.17	11.40	7.00	0.20	2.89	6.60	16.00	3.74
12AUG	SE	0.00	0.00	0.15	0.20	0.20	0.17	8.24	3.11	0.20	2.02	4.12	13.02	16.38
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	1.40	0.00	1.20	1.80	0.00	2.44	15.30	1.14	1.94
25AUG	SE	0.00	0.00	0.00	0.00	0.98	0.00	1.20	1.36	0.00	1.06	8.76	0.70	9.09
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.14	0.20	2.80	0.83	4.40	11.40	1.60	0.67	21.10	0.57	3.64
11SEP	SE	0.00	0.00	0.10	0.20	1.39	0.83	3.92	8.20	1.36	0.29	18.08	0.57	20.36
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	1.20	0.33	0.40	7.80	11.20	3.11	5.40	18.71	4.01
22SEP	SE	0.00	0.00	0.00	0.00	0.97	0.33	0.40	3.12	3.50	1.49	1.60	8.18	9.75
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.58	0.57	0.40	3.00	2.33	9.60	18.40	6.80	8.33	3.00	0.00	4.42
07OCT	SE	0.00	0.58	0.44	0.40	1.14	2.33	3.67	8.16	2.65	4.37	1.78	0.00	10.81
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.21	0.00	0.20	3.33	2.40	1.20	2.40	3.56	6.00	0.29	1.63
21OCT	SE	0.00	0.00	0.15	0.00	0.20	2.58	1.08	0.58	1.91	1.06	2.17	0.29	4.21
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-182 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	12	6	2	43	141	9	47	184	61	77	582
17JUN	SE	0	0	8	6	2	43	100	4	27	51	35	46	136
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	31	3	0	0	131	7	14	63	365	389	1003
01JUL	SE	0	0	23	3	0	0	40	3	12	22	287	182	344
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	4	0	0	0	31	11	27	255	200	3	532
15JUL	SE	0	0	4	0	0	0	14	6	17	148	103	3	182
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	4	4	25	88	6	14	12	18	4	174
29JUL	SE	0	0	0	4	3	25	83	3	10	5	12	4	88
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	6	2	1	2	81	9	2	51	130	217	499
12AUG	SE	0	0	4	2	1	2	58	4	2	36	81	177	206
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	4	0	9	2	0	43	301	16	374
25AUG	SE	0	0	0	0	3	0	9	2	0	19	172	10	174
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	4	2	7	9	31	14	14	12	415	8	516
11SEP	SE	0	0	3	2	4	9	28	10	12	5	356	8	357
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	3	4	3	10	96	55	106	254	531
22SEP	SE	0	0	0	0	3	4	3	4	30	26	31	111	122
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	27	15	4	8	25	68	23	59	146	59	0	433
07OCT	SE	0	27	12	4	3	25	26	10	23	77	35	0	99
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	6	0	1	36	17	1	21	62	118	4	265
21OCT	SE	0	0	4	0	1	27	8	1	16	19	43	4	57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-183 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
29APR	SE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-183 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	NS	NS	NS	NS	NS	0.04
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00						0.29
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	NS	NS	NS	NS	NS	0.04
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00						0.30
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-184 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	42	0	0	0	0	0	0	0	0	42
29APR	SE	0	0	0	0	42	0	0	0	0	0	0	0	0	42
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-184 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	23	0	0	0	0	0	0	0	23
24JUN	SE	0	0	0	0	0	23	0	0	0	0	0	0	0	23
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	40	0	NS	NS	NS	NS	NS	40
12AUG	SE	0	0	0	0	0	0	40	0						40
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	42	0	NS	NS	NS	NS	NS	42
23SEP	SE	0	0	0	0	0	0	42	0						42
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-185 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
22JUL	SE	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
05AUG	SE	0.00	0.00	0.00	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.02	0.00	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
19AUG	SE	0.00	0.00	0.02	0.00	0.03	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
02SEP	SE	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
30SEP	SE	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-186 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	0	2
09JUL	SE	0	0	0	0	0	2	0	0	0	0	0	0	0	2
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	3	0	0	0	0	0	0	0	0	3
22JUL	SE	0	0	0	0	3	0	0	0	0	0	0	0	0	3
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	4	3	4	0	0	0	0	0	0	0	11
05AUG	SE	0	0	0	4	3	3	0	0	0	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	8	0	6	4	5	0	0	0	0	0	0	22
19AUG	SE	0	0	8	0	6	2	5	0	0	0	0	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	3	0	5	4	0	0	0	0	0	12
02SEP	SE	0	0	0	0	3	0	5	4	0	0	0	0	0	7
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	4	0	8	0	0	0	0	0	11
16SEP	SE	0	0	0	0	0	2	0	5	0	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	3	2	4	0	0	0	0	0	0	9
30SEP	SE	0	0	0	0	3	2	4	0	0	0	0	0	0	6
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-187 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-188 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-189 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.02
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.30
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.24
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-189 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
24JUN	SE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-190 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	20	0	0	0	0	0	0	0	20
09APR	SE	0	0	0	0	0	20	0	0	0	0	0	0	0	20
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	43	0	0	0	43
15APR	SE	0	0	0	0	0	0	0	0	0	43	0	0	0	43
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	34	0	0	0	0	0	0	34
21MAY	SE	0	0	0	0	0	0	34	0	0	0	0	0	0	34
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-19O (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	46	0	0	0	0	0	0	0	0	0	0	46
24JUN	SE	0	0	46	0	0	0	0	0	0	0	0	0	0	46
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-191 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.02	0.00	0.06	0.00	0.00	0.01
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.02	0.00	0.06	0.00	0.00	0.07
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.02	0.00	0.06	0.00	0.00	0.01
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.02	0.00	0.06	0.00	0.00	0.07
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.06	0.00	0.00	0.00	0.01
05AUG	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.06	0.00	0.00	0.00	0.07
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.01
19AUG	SE	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
14OCT	SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.06
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	< 0.005
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
11NOV	SE	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
03DEC	SE	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-192 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	1	0	3	0	11	0	0	15
09JUL	SE	0	0	0	0	0	0	1	0	3	0	11	0	0	12
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	4	4	3	0	11	0	0	22
22JUL	SE	0	0	0	0	0	0	4	4	3	0	11	0	0	12
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	3	0	0	0	5	8	0	0	0	17
05AUG	SE	0	0	0	0	3	0	0	0	5	8	0	0	0	10
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	6	0	4	0	0	0	0	6	0	0	0	0	15
19AUG	SE	0	6	0	4	0	0	0	0	4	0	0	0	0	8
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	2	0	0	4	0	0	0	0	6
02SEP	SE	0	0	0	0	0	2	0	0	4	0	0	0	0	4
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	0	4	0	0	0	0	0	0	0	4
16SEP	SE	0	0	0	0	0	2	0	0	0	0	0	0	0	2
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	2	0	4	0	0	0	0	0	6
30SEP	SE	0	0	0	0	0	2	0	4	0	0	0	0	0	5
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	5	0	0	0	0	0	0	0	0	10	0	0	15
14OCT	SE	0	5	0	0	0	0	0	0	0	0	10	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	2	0	0	2	0	0	0	0	4
28OCT	SE	0	0	0	0	0	2	0	0	2	0	0	0	0	3
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	4	0	0	0	0	0	0	0	0	4
11NOV	SE	0	0	0	0	3	0	0	0	0	0	0	0	0	3
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	4	0	0	0	0	2	0	0	0	0	0	0	0	5
03DEC	SE	4	0	0	0	0	2	0	0	0	0	0	0	0	4
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-193 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-194 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON THAN-YEARLING AND OLDER-IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-195 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-195 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	NS	NS	NS	NS	NS	0.03
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28						0.28
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	NS	NS	NS	NS	NS	0.03
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25						0.25
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	NS	NS	NS	NS	NS	0.03
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26						0.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.50	0.00	NS	NS	NS	NS	NS	0.08
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.25	0.00						0.28
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-196 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-196 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	83	NS	NS	NS	NS	NS	83
15JUL	SE	0	0	0	0	0	0	0	83						83
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	76	NS	NS	NS	NS	NS	76
26AUG	SE	0	0	0	0	0	0	0	76						76
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	76	NS	NS	NS	NS	NS	76
10SEP	SE	0	0	0	0	0	0	0	76						76
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	24	71	0	NS	NS	NS	NS	NS	94
23SEP	SE	0	0	0	0	0	24	35	0						42
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-197 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	1.26	0.00	0.12
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.45	0.00	0.53
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
19AUG	SE	0.00	0.00	0.00	0.00	0.00	0.01	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.00	0.00	0.00	0.00	< 0.005
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.03	0.00	0.00	0.06	0.00	0.00	0.01
16SEP	SE	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.02	0.00	0.00	0.06	0.00	0.00	0.07
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
30SEP	SE	0.00	0.00	0.00	0.03	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.01	0.00	0.34	0.00	0.00	0.00	0.03
14OCT	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.01	0.00	0.28	0.00	0.00	0.00	0.28
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.06	0.00	0.00	0.00	0.01
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.04	0.00	0.00	0.00	0.05
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
11NOV	SE	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-198 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	0	90	0	0	0	203	0	293
22JUL	SE	0	0	0	0	0	0	0	83	0	0	0	72	0	109
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	0	2	1	4	0	0	0	0	0	6
19AUG	SE	0	0	0	0	0	2	1	4	0	0	0	0	0	4
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	2	3	4	3	0	0	0	0	12
02SEP	SE	0	0	0	0	0	2	2	4	3	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	0	0	3	0	5	8	0	0	11	0	0	27
16SEP	SE	0	0	0	0	3	0	5	5	0	0	11	0	0	13
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	5	0	2	4	0	0	0	0	0	0	11
30SEP	SE	0	0	0	5	0	2	4	0	0	0	0	0	0	7
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	0	2	13	4	0	48	0	0	0	66
14OCT	SE	0	0	0	0	0	2	6	4	0	39	0	0	0	40
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	8	0	2	9	0	0	0	19
28OCT	SE	0	0	0	0	0	0	4	0	2	6	0	0	0	8
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	4	7	1	4	2	0	0	0	0	19
11NOV	SE	0	0	0	0	3	3	1	4	2	0	0	0	0	6
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-199 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
25AUG	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-200 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
25AUG	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-201 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.52	0.00	0.00	NS	NS	NS	NS	NS	NS	0.07
31MAR	SE	0.00	0.00	0.00	0.00	0.27	0.00	0.00							0.27
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.12	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
09APR	SE	0.00	0.00	0.12	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
15APR	SE	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.28	0.08	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.05
22APR	SE	0.00	0.00	0.00	0.00	0.28	0.08	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.38
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.11	0.00	0.00	0.00	0.14	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.03
29APR	SE	0.00	0.11	0.00	0.00	0.00	0.14	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.22
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.22	0.00	0.57	0.00	0.16	0.17	0.00	0.00	0.00	0.00	0.09
06MAY	SE	0.00	0.00	0.00	0.22	0.00	0.34	0.00	0.16	0.17	0.00	0.00	0.00	0.00	0.47
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.02
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.23
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.04
28MAY	SE	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.21
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-201 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.08
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	1.04
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.18	0.00	0.28	0.00	0.00	0.00	0.05
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.18	0.00	0.28	0.00	0.00	0.00	0.36
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.02
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.04
26AUG	SE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00						0.33
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-202 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	108	0	0	NS	NS	NS	NS	NS	NS	108
31MAR	SE	0	0	0	0	55	0	0							55
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	40	0	10	0	0	0	0	0	0	0	0	50
09APR	SE	0	0	40	0	10	0	0	0	0	0	0	0	0	41
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	36	0	0	0	0	0	0	0	0	36
15APR	SE	0	0	0	0	36	0	0	0	0	0	0	0	0	36
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	59	16	0	0	39	0	0	0	0	114
22APR	SE	0	0	0	0	59	16	0	0	39	0	0	0	0	72
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	25	0	0	0	28	0	0	23	0	0	0	0	76
29APR	SE	0	25	0	0	0	28	0	0	23	0	0	0	0	44
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	33	0	118	0	48	27	0	0	0	0	226
06MAY	SE	0	0	0	33	0	71	0	48	27	0	0	0	0	96
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	29	0	0	24	0	0	0	0	53
12MAY	SE	0	0	0	0	0	29	0	0	24	0	0	0	0	38
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	33	0	0	0	0	0	0	33
21MAY	SE	0	0	0	0	0	0	33	0	0	0	0	0	0	33
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	65	0	0	0	24	0	0	0	0	89
28MAY	SE	0	0	0	0	33	0	0	0	24	0	0	0	0	40
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	28	0	0	0	0	0	0	0	28
04JUN	SE	0	0	0	0	0	28	0	0	0	0	0	0	0	28
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-202 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	309	0	0	0	0	0	309
18JUN	SE	0	0	0	0	0	0	0	309	0	0	0	0	0	309
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	47	0	52	0	40	0	0	0	139
24JUN	SE	0	0	0	0	0	27	0	52	0	40	0	0	0	71
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	35	0	0	0	35
01JUL	SE	0	0	0	0	0	0	0	0	0	35	0	0	0	35
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	49	0	0	0	0	NS	NS	NS	NS	NS	49
26AUG	SE	0	0	0	49	0	0	0	0						49
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-203 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.00	0.05	0.03	0.02	0.00	0.07	0.01	0.02	0.14	0.00	0.00	0.00	0.03
09JUL	SE	0.00	0.00	0.03	0.03	0.02	0.00	0.04	0.01	0.02	0.14	0.00	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
22JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
05AUG	SE	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	< 0.005	0.03	0.00	0.00	0.00	0.00	0.00	< 0.005
19AUG	SE	0.00	0.00	0.00	0.00	0.01	0.00	< 0.005	0.02	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.00	0.00	0.02	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.00	0.00	0.02	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
30SEP	SE	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.03	0.05	0.00	0.04	0.00	0.02	0.00	0.00	0.00	0.00	0.01
14OCT	SE	0.00	0.00	0.00	0.03	0.02	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.13	0.00	0.01	0.01	0.10	0.00	0.00	0.07	0.00	0.07	0.00	0.03
28OCT	SE	0.00	0.00	0.11	0.00	0.01	0.01	0.05	0.00	0.00	0.05	0.00	0.04	0.00	0.14
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.01
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.14	0.09	0.07	0.09	0.00	0.07	0.01	0.00	0.09	0.00	0.00	0.00	0.04
03DEC	SE	0.00	0.07	0.06	0.07	0.06	0.00	0.06	0.01	0.00	0.09	0.00	0.00	0.00	0.17
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-204 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	0	17	5	3	0	10	4	3	20	0	0	0	62
09JUL	SE	0	0	11	5	3	0	5	4	3	20	0	0	0	24
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	0	0	0	0	0	4	4	0	0	0	0	0	9
22JUL	SE	0	0	0	0	0	0	4	4	0	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	0	0	5	4	0	0	0	3	0	0	0	0	11
05AUG	SE	0	0	0	5	2	0	0	0	3	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	0	0	2	0	1	8	0	0	0	0	0	11
19AUG	SE	0	0	0	0	2	0	1	5	0	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	0	0	7	4	0	2	0	0	0	0	0	0	0	13
16SEP	SE	0	0	7	4	0	2	0	0	0	0	0	0	0	9
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	3	0	0	0	0	0	0	0	0	0	3
30SEP	SE	0	0	0	3	0	0	0	0	0	0	0	0	0	3
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	4	11	0	5	0	4	0	0	0	0	23
14OCT	SE	0	0	0	4	5	0	4	0	4	0	0	0	0	9
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	41	0	2	2	14	0	0	10	0	11	0	80
28OCT	SE	0	0	35	0	2	2	6	0	0	7	0	7	0	37
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	1	12	0	0	0	0	0	0	13
11NOV	SE	0	0	0	0	0	1	7	0	0	0	0	0	0	7
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	31	30	10	18	0	10	4	0	13	0	0	0	117
03DEC	SE	0	15	20	10	12	0	9	4	0	13	0	0	0	34
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-205 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.14	0.67	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.08
17JUN	SE	0.00	0.00	0.14	0.67	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.69
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12AUG	SE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07OCT	SE	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-206 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	4	6	0	0	0	0	0	1	1	0	12
17JUN	SE	0	0	4	6	0	0	0	0	0	1	1	0	7
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
12AUG	SE	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
07OCT	SE	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-207 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-207 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	3.61	1.13	0.00	3.61	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74
24JUN	SE	0.00	3.61	1.13	0.00	2.06	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
01JUL	SE	0.00	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.22
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	4.26	0.33	11.90	7.48	0.00	0.00	NS	NS	NS	NS	NS	3.00
15JUL	SE	0.00	0.00	4.26	0.33	7.80	5.35	0.00	0.00						10.38
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	26.86	3.01	1.20	3.58	2.96	0.56	0.00	0.00	NS	NS	NS	NS	NS	4.77
29JUL	SE	26.86	2.73	1.20	3.15	1.29	0.56	0.00	0.00						27.25
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.70	0.42	0.00	0.35	1.05	0.62	0.00	0.00	NS	NS	NS	NS	NS	0.39
12AUG	SE	0.70	0.42	0.00	0.35	0.64	0.62	0.00	0.00						1.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	5.15	5.39	10.51	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.63
26AUG	SE	3.89	3.01	6.33	0.00	0.00	0.00	0.00	0.00						8.02
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	NS	NS	NS	NS	NS	0.03
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26						0.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	8.26	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.03
23SEP	SE	0.00	5.16	0.00	0.00	0.00	0.00	0.00	0.00						5.16
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	6.15	0.56	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.84
07OCT	SE	1.80	0.56	0.00	0.00	0.00	0.00	0.00	0.00						1.88
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-208 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-208 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	829	362	0	753	265	0	0	0	0	0	0	0	2209
24JUN	SE	0	829	362	0	429	265	0	0	0	0	0	0	0	1036
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	774	0	0	0	0	0	0	0	0	774
01JUL	SE	0	0	0	0	670	0	0	0	0	0	0	0	0	670
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	1372	49	2480	1552	0	0	NS	NS	NS	NS	NS	5453
15JUL	SE	0	0	1372	49	1624	1109	0	0						2399
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	5615	691	385	528	616	117	0	0	NS	NS	NS	NS	NS	7952
29JUL	SE	5615	627	385	465	270	117	0	0						5690
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	146	96	0	51	219	129	0	0	NS	NS	NS	NS	NS	641
12AUG	SE	146	96	0	51	134	129	0	0						260
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	1077	1236	3382	0	0	0	0	0	NS	NS	NS	NS	NS	5694
26AUG	SE	814	691	2038	0	0	0	0	0						2301
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	78	NS	NS	NS	NS	NS	78
10SEP	SE	0	0	0	0	0	0	0	78						78
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	1894	0	0	0	0	0	0	NS	NS	NS	NS	NS	1894
23SEP	SE	0	1183	0	0	0	0	0	0						1183
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	1285	128	0	0	0	0	0	0	NS	NS	NS	NS	NS	1413
07OCT	SE	376	128	0	0	0	0	0	0						397
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-209 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.07	0.10	0.08	0.58	25.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
09JUL	SE	0.07	0.07	0.04	0.31	24.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.83
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.33	1.40	0.21	0.03	0.27	3.30	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.50
22JUL	SE	0.15	0.56	0.12	0.03	0.12	1.06	0.45	0.00	0.00	0.00	0.00	0.00	0.00	1.30
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.12	4.05	0.48	0.55	1.53	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.52
05AUG	SE	0.08	2.90	0.20	0.19	1.04	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	3.09
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.20	1.79	0.45	0.06	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
19AUG	SE	0.14	1.15	0.37	0.06	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	1.31	2.40	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
02SEP	SE	0.80	1.64	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.43	0.41	1.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
16SEP	SE	0.38	0.19	0.63	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.96	0.23	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
30SEP	SE	0.55	0.11	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.32	0.97	0.33	0.13	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
14OCT	SE	0.17	0.46	0.11	0.07	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.10	0.06	0.08	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
28OCT	SE	0.06	0.03	0.04	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.22	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
11NOV	SE	0.15	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
03DEC	SE	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-210 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	14	23	27	86	5244	0	0	0	0	0	0	0	0	5394
09JUL	SE	14	16	14	46	5172	0	0	0	0	0	0	0	0	5172
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	69	322	67	4	56	684	128	0	0	0	0	0	0	1330
22JUL	SE	30	129	38	4	25	220	63	0	0	0	0	0	0	268
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	25	929	155	82	318	0	0	5	3	0	0	0	0	1516
05AUG	SE	17	665	64	27	216	0	0	5	3	0	0	0	0	703
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	41	410	145	9	42	0	0	0	0	0	0	0	0	646
19AUG	SE	29	265	118	9	26	0	0	0	0	0	0	0	0	293
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	273	550	109	0	0	0	0	0	0	0	0	0	0	933
02SEP	SE	167	375	57	0	0	0	0	0	0	0	0	0	0	414
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	90	94	322	4	11	0	0	0	0	0	0	0	0	522
16SEP	SE	79	44	202	4	7	0	0	0	0	0	0	0	0	221
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	200	52	17	0	0	0	0	0	0	0	0	0	0	268
30SEP	SE	116	26	12	0	0	0	0	0	0	0	0	0	0	119
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	68	223	106	19	7	5	0	0	0	0	0	0	0	427
14OCT	SE	36	106	34	10	4	3	0	0	0	0	0	0	0	118
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	21	15	25	7	0	1	0	0	0	0	0	0	0	69
28OCT	SE	13	8	14	7	0	1	0	0	0	0	0	0	0	22
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	47	0	0	4	0	0	0	0	0	0	0	0	0	50
11NOV	SE	32	0	0	4	0	0	0	0	0	0	0	0	0	32
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	4	0	0	0	2	0	0	0	0	0	0	0	0	6
03DEC	SE	4	0	0	0	2	0	0	0	0	0	0	0	0	4
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-211 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
29JUL	SE	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
12AUG	SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-212 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	2	6	0	0	0	0	0	0	0	0	0	0	7
29JUL	SE	2	6	0	0	0	0	0	0	0	0	0	0	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
12AUG	SE	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-213 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-213 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
10JUN	SE	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
26AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
10SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-214 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-214 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	285	0	0	0	0	0	0	0	0	0	0	0	0	285
10JUN	SE	30	0	0	0	0	0	0	0	0	0	0	0	0	30
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
29JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
12AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
26AUG	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
10SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23SEP	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-215 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
22JUL	SE	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
05AUG	SE	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.07	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
19AUG	SE	0.07	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
16SEP	SE	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
14OCT	SE	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-216 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	8	0	0	0	0	0	0	0	0	0	0	0	0	8
09JUL	SE	8	0	0	0	0	0	0	0	0	0	0	0	0	8
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	7	0	0	0	0	0	0	0	0	0	0	0	0	7
22JUL	SE	7	0	0	0	0	0	0	0	0	0	0	0	0	7
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	7	13	0	0	0	0	0	0	0	0	0	0	0	20
05AUG	SE	7	8	0	0	0	0	0	0	0	0	0	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	14	14	9	0	0	0	0	0	0	0	0	0	0	37
19AUG	SE	14	14	9	0	0	0	0	0	0	0	0	0	0	22
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	6	0	8	0	0	0	0	0	0	0	0	0	0	14
16SEP	SE	6	0	8	0	0	0	0	0	0	0	0	0	0	10
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	14	0	0	0	0	0	0	0	0	0	0	14
14OCT	SE	0	0	14	0	0	0	0	0	0	0	0	0	0	14
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-217 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-218 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
01JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
29JUL	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
25AUG	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22SEP	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
07OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
21OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-219 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
18MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
31MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-219 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	DENSITY	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
18JUN	SE	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	DENSITY	0.00	0.33	0.32	0.22	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
24JUN	SE	0.00	0.21	0.32	0.22	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	DENSITY	0.00	0.00	0.36	0.21	0.04	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.08
01JUL	SE	0.00	0.00	0.22	0.21	0.04	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.51
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
15JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	NS	NS	NS	NS	NS	0.02
29JUL	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00						0.11
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	DENSITY	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.02
12AUG	SE	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00						0.13
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	DENSITY	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.22
26AUG	SE	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00						1.76
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	DENSITY	0.00	0.00	0.00	0.32	0.00	0.75	0.00	0.00	NS	NS	NS	NS	NS	0.13
10SEP	SE	0.00	0.00	0.00	0.32	0.00	0.75	0.00	0.00						0.81
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	DENSITY	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.04
23SEP	SE	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00						0.30
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-220 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
02MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
16MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	12							74
29MAR-	ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
31MAR	SE	0	0	0	0	0	0	0							0
	NO. TOWS	10	10	11	11	10	10	11							73
05APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
12APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
19APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
26APR-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29APR	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
03MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	11	6	14	10	11	7	8	8	10	134
10MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
17MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
24MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28MAY	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
01JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE E-220 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
07JUN-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUN	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
14JUN-	ST. CROP	0	0	0	0	36	0	0	0	0	0	0	0	0	36
18JUN	SE	0	0	0	0	29	0	0	0	0	0	0	0	0	29
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
21JUN-	ST. CROP	0	76	103	33	35	0	0	0	0	0	0	0	0	247
24JUN	SE	0	48	103	33	35	0	0	0	0	0	0	0	0	123
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
28JUN-	ST. CROP	0	0	117	32	8	0	57	0	0	0	0	0	0	214
01JUL	SE	0	0	72	32	8	0	57	0	0	0	0	0	0	97
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
13JUL-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
15JUL	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81
27JUL-	ST. CROP	0	0	0	0	0	38	0	0	NS	NS	NS	NS	NS	38
29JUL	SE	0	0	0	0	0	22	0	0						22
	NO. TOWS	6	11	13	14	13	8	10	6						81
10AUG-	ST. CROP	0	0	0	0	28	0	0	0	NS	NS	NS	NS	NS	28
12AUG	SE	0	0	0	0	28	0	0	0						28
	NO. TOWS	6	11	13	14	13	8	10	6						81
24AUG-	ST. CROP	0	0	567	0	0	0	0	0	NS	NS	NS	NS	NS	567
26AUG	SE	0	0	567	0	0	0	0	0						567
	NO. TOWS	6	11	13	14	13	8	10	6						81
08SEP-	ST. CROP	0	0	0	47	0	155	0	0	NS	NS	NS	NS	NS	202
10SEP	SE	0	0	0	47	0	155	0	0						162
	NO. TOWS	6	11	13	14	13	8	10	6						81
21SEP-	ST. CROP	0	0	98	0	0	0	0	0	NS	NS	NS	NS	NS	98
23SEP	SE	0	0	98	0	0	0	0	0						98
	NO. TOWS	6	11	13	14	13	8	10	6						81
05OCT-	ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07OCT	SE	0	0	0	0	0	0	0	0						0
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE E-221 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	DENSITY	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
09JUL	SE	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	DENSITY	0.00	0.03	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22JUL	SE	0.00	0.03	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	DENSITY	0.00	0.03	0.00	0.03	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
05AUG	SE	0.00	0.03	0.00	0.03	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	DENSITY	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
19AUG	SE	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	DENSITY	0.07	0.38	0.25	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
02SEP	SE	0.04	0.32	0.22	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	DENSITY	0.03	0.00	0.13	0.25	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
16SEP	SE	0.03	0.00	0.11	0.25	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	DENSITY	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
30SEP	SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
14OCT	SE	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11NOV	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03DEC	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-222 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2004

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
06JUL-	ST. CROP	0	6	0	0	0	0	0	0	0	0	0	0	0	6
09JUL	SE	0	6	0	0	0	0	0	0	0	0	0	0	0	6
	NO. TOWS	14	18	24	22	22	22	22	21	15	10	6	6	8	210
19JUL-	ST. CROP	0	7	8	0	0	0	3	0	0	0	0	0	0	17
22JUL	SE	0	7	8	0	0	0	3	0	0	0	0	0	0	11
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
02AUG-	ST. CROP	0	6	0	5	0	87	0	0	0	0	0	0	0	98
05AUG	SE	0	6	0	5	0	59	0	0	0	0	0	0	0	59
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16AUG-	ST. CROP	0	0	41	0	0	0	0	0	0	0	0	0	0	41
19AUG	SE	0	0	13	0	0	0	0	0	0	0	0	0	0	13
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
30AUG-	ST. CROP	14	88	79	4	0	0	0	0	0	0	0	0	0	185
02SEP	SE	9	73	72	4	0	0	0	0	0	0	0	0	0	103
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
13SEP-	ST. CROP	6	0	42	37	5	0	0	0	0	0	0	0	0	90
16SEP	SE	6	0	35	37	3	0	0	0	0	0	0	0	0	51
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
27SEP-	ST. CROP	0	5	0	0	0	0	0	0	0	0	0	0	0	5
30SEP	SE	0	5	0	0	0	0	0	0	0	0	0	0	0	5
	NO. TOWS	14	18	24	21	22	22	22	22	14	10	6	6	8	209
11OCT-	ST. CROP	0	0	0	0	4	0	0	0	0	0	0	0	0	4
14OCT	SE	0	0	0	0	4	0	0	0	0	0	0	0	0	4
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
25OCT-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28OCT	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
08NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11NOV	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
29NOV-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03DEC	SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	12	16	13	11	15	12	14	10	10	8	10	10	8	149

TABLE E-223 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	CPUE	0.33	0.91	0.43	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
17JUN	SE	0.33	0.28	0.43	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	CPUE	0.67	1.55	1.71	0.67	3.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.66
01JUL	SE	0.67	0.53	0.84	0.33	2.08	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.45
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	CPUE	0.33	0.27	1.00	1.33	1.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.36
15JUL	SE	0.33	0.19	0.58	0.67	0.58	0.33	0.00	0.00	0.00	0.00	0.00	0.00	1.17
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	CPUE	2.80	0.50	0.64	0.40	0.20	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.43
29JUL	SE	1.36	0.10	0.20	0.40	0.20	0.67	0.00	0.00	0.00	0.00	0.00	0.00	1.59
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	CPUE	0.20	0.54	1.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
12AUG	SE	0.20	0.17	0.86	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	CPUE	0.20	0.58	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
25AUG	SE	0.20	0.20	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	CPUE	0.40	1.54	0.21	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
11SEP	SE	0.24	0.48	0.11	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	CPUE	0.40	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
22SEP	SE	0.40	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	CPUE	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07OCT	SE	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	CPUE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21OCT	SE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE E-224 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2004

DATE		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
15JUN-	ST. CROP	3	41	12	15	0	0	0	0	0	0	0	0	71
17JUN	SE	3	13	12	8	0	0	0	0	0	0	0	0	19
	NO. TOWS	3	11	7	3	3	3	8	8	8	16	18	12	100
29JUN-	ST. CROP	5	70	46	6	8	4	0	0	0	0	0	0	139
01JUL	SE	5	24	23	3	5	4	0	0	0	0	0	0	34
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
12JUL-	ST. CROP	3	12	27	12	3	4	0	0	0	0	0	0	60
15JUL	SE	3	9	16	6	2	4	0	0	0	0	0	0	19
	NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
26JUL-	ST. CROP	21	23	17	4	1	7	0	0	0	0	0	0	72
29JUL	SE	10	5	5	4	1	7	0	0	0	0	0	0	15
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
09AUG-	ST. CROP	2	25	40	4	0	0	0	0	0	0	0	0	70
12AUG	SE	2	8	23	4	0	0	0	0	0	0	0	0	25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
23AUG-	ST. CROP	2	27	13	0	0	0	0	0	0	0	0	0	41
25AUG	SE	2	9	6	0	0	0	0	0	0	0	0	0	11
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
07SEP-	ST. CROP	3	70	6	7	0	0	0	0	0	0	0	0	86
11SEP	SE	2	22	3	3	0	0	0	0	0	0	0	0	22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20SEP-	ST. CROP	3	19	0	0	0	0	0	0	0	0	0	0	22
22SEP	SE	3	10	0	0	0	0	0	0	0	0	0	0	10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
04OCT-	ST. CROP	0	2	2	0	0	0	0	0	0	0	0	0	4
07OCT	SE	0	2	2	0	0	0	0	0	0	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
18OCT-	ST. CROP	0	0	0	2	0	0	0	0	0	0	0	0	2
21OCT	SE	0	0	0	2	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100