

IPRenewal NPEmails

From: Nancy Decker <ndecker@asaac.com>
Sent: Thursday, April 21, 2016 10:10 AM
To: Wentzel, Michael
Cc: Dara Gray
Subject: [External_Sender] Email 3 for 2013 YCR
Attachments: 2013-Appendix D.pdf

Nancy Decker

ASA **Solutions through Science**

ASA Analysis & Communication, Inc.

37 Turk Hill Road

Brewster, New York 10509

Tel: 845-279-9109

Email: ndecker@asaac.com

Hearing Identifier: IndianPointUnits2and3NonPublic_EX
Email Number: 5498

Mail Envelope Properties (BLUPR0201MB14254CC5F4FE2AF2C1731487B46E0)

Subject: [External_Sender] Email 3 for 2013 YCR
Sent Date: 4/21/2016 10:09:57 AM
Received Date: 4/21/2016 10:10:19 AM
From: Nancy Decker

Created By: ndecker@asaac.com

Recipients:

"Dara Gray" <dgray@entergy.com>
Tracking Status: None
"Wentzel, Michael" <Michael.Wentzel@nrc.gov>
Tracking Status: None

Post Office: BLUPR0201MB1425.namprd02.prod.outlook.com

Files	Size	Date & Time
MESSAGE	181	4/21/2016 10:10:19 AM
2013-Appendix D.pdf	1963669	

Options

Priority: Standard
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Sensitivity: Normal
Expiration Date:
Recipients Received:

Appendix D

Density and Standing Crop Estimates

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D-192	Regional standing crop (in thousands) of Atlantic sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2013
D-193	Regional density (no./1,000 m ³) of Atlantic sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-194	Regional standing crop (in thousands) of Atlantic sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-195	Regional density (no./1,000 m ³) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-196	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-197	Regional density (no./1,000 m ³) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-198	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-199	Regional catch-per-unit-effort of Atlantic sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-200	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013

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<u>Number</u>	<u>Title</u>
D-201	Regional density (no./1,000 m ³) of shortnose sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2013
D-202	Regional standing crop (in thousands) of shortnose sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2013
D-203	Regional density (no./1,000 m ³) of shortnose sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2013
D-204	Regional standing crop (in thousands) of shortnose sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2013
D-205	Regional density (no./1,000 m ³) of shortnose sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-206	Regional standing crop (in thousands) of shortnose sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-207	Regional density (no./1,000 m ³) of shortnose sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-208	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-209	Regional density (no./1,000 m ³) of shortnose sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-210	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-211	Regional catch-per-unit-effort of shortnose sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-212	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-213	Regional density (no./1,000 m ³) of white catfish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-214	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-215	Regional density (no./1,000 m ³) of white catfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-216	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013

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LIST OF TABLES (CONTINUED)

<u>Number</u>	<u>Title</u>
D-217	Regional catch-per-unit-effort of white catfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013
D-218	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013
D-219	Regional density (no./1,000 m ³) of white catfish yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-220	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-221	Regional density (no./1,000 m ³) of white catfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-222	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-223	Regional catch-per-unit-effort of white catfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-224	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-225	Regional density (no./1,000 m ³) of weakfish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-226	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-227	Regional density (no./1,000 m ³) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-228	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-229	Regional catch-per-unit-effort of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013
D-230	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013
D-231	Regional density (no./1,000 m ³) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2013

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LIST OF TABLES (CONTINUED)

<u>Number</u>	<u>Title</u>
D-232	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2013
D-233	Regional density (no./1,000 m ³) of weakfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-234	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-235	Regional catch-per-unit-effort of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-236	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2013
D-237	Regional density (no./1,000 m ³) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-238	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2013
D-239	Regional density (no./1,000 m ³) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-240	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2013
D-241	Regional catch-per-unit-effort of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013
D-242	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2013

TABLE D-1 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
26APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- DENSITY	0.00	0.00	0.00	0.88	0.00	71.21	34.43	30.80	466.82	117.64	16.85	0.00	0.00	56.82
03MAY SE	0.00	0.00	0.00	0.88	0.00	35.08	20.63	12.84	144.23	56.18	9.07	0.00	0.00	160.82
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	2.09	0.00	0.00	0.33	39.52	315.83	1866.23	3146.18	2426.32	895.93	30.34	0.71	2.00	671.19
10MAY SE	2.09	0.00	0.00	0.33	19.91	154.44	1184.53	1381.89	1652.59	176.06	8.15	0.44	1.44	2469.63
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	0.45	8.36	2501.85	8206.21	1131.85	398.63	552.25	173.89	4.76	0.67	998.38
17MAY SE	0.00	0.00	0.00	0.45	1.86	2201.13	5547.58	368.93	135.02	196.58	55.11	3.15	0.67	5984.70
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	6.33	0.61	1.96	280.42	714.26	572.56	2120.06	1725.98	355.64	64.83	3.83	449.73
24MAY SE	0.00	0.00	4.78	0.45	0.85	107.01	252.36	178.51	956.54	618.23	131.39	33.84	3.83	1192.74
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	4.04	3.84	2.46	59.76	734.42	58.16	69.88	200.79	673.49	414.34	330.83	0.00	196.31
31MAY SE	0.00	2.20	1.92	1.19	22.35	345.48	34.08	18.27	93.19	233.13	161.79	208.38	0.00	503.98
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-1 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN-	DENSITY	0.00	0.00	0.64	11.16	11.93	73.50	73.58	62.26	241.16	49.00	160.63	108.61	232.50	78.84
07JUN	SE	0.00	0.00	0.64	5.64	4.24	42.33	17.13	31.48	143.14	32.75	66.37	82.78	232.50	300.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN-	DENSITY	0.00	20.06	2.24	6.86	2.90	11.80	6.74	5.39	20.70	0.30	8.92	47.38	2.89	10.48
15JUN	SE	0.00	13.02	1.07	2.82	1.47	2.64	3.54	1.87	11.65	0.30	6.04	41.67	2.89	46.06
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN-	DENSITY	0.00	0.00	0.00	0.45	4.15	2.73	1.67	0.00	1.31	13.64	65.90	139.56	6.36	18.14
22JUN	SE	0.00	0.00	0.00	0.45	2.12	1.22	0.96	0.00	0.99	6.98	32.51	73.63	5.41	81.02
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	1.28	2.26	0.73	4.38	8.26	25.04	0.00	3.23
28JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.54	1.17	0.40	4.00	7.05	21.44	0.00	22.96
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-2 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	219	219
26APR SE	0	0	0	0	0	0	0	0	0	0	0	0	151	151
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST.CROP	0	0	0	130	0	14773	4813	9184	77252	16643	2971	0	0	125765
03MAY SE	0	0	0	130	0	7277	2884	3829	23868	7947	1599	0	0	26671
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST.CROP	437	0	0	49	8232	65521	260883	937982	401518	126747	5349	114	142	1806976
10MAY SE	437	0	0	49	4148	32039	165587	411987	273478	24907	1437	70	103	523076
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST.CROP	0	0	0	67	1742	519024	1147154	337441	65967	78127	30655	766	48	2180990
17MAY SE	0	0	0	67	388	456637	775502	109990	22344	27810	9715	507	48	907406
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST.CROP	0	0	2037	89	408	58175	99848	170699	350838	244174	62698	10421	273	999659
24MAY SE	0	0	1539	67	178	22200	35277	53220	158292	87461	23164	5439	273	194536
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST.CROP	0	927	1237	364	12451	152360	8130	20835	33228	95279	73046	53174	0	451032
31MAY SE	0	505	619	175	4657	71671	4765	5446	15422	32981	28524	33493	0	92046
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-2 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST.CROP	0	0	205	1649	2486	15249	10285	18562	39908	6932	28318	17456	16542	157594
07JUN SE	0	0	205	833	883	8781	2395	9386	23687	4633	11701	13305	16542	36641
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST.CROP	0	4602	722	1013	604	2447	943	1607	3426	43	1573	7616	206	24801
15JUN SE	0	2986	344	417	306	548	495	558	1928	43	1065	6698	206	7741
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST.CROP	0	0	0	66	864	567	234	0	216	1930	11618	22432	452	38378
22JUN SE	0	0	0	66	441	252	134	0	163	987	5732	11835	385	13204
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST.CROP	0	0	0	0	0	0	179	674	120	620	1456	4025	0	7074
28JUN SE	0	0	0	0	0	0	76	349	66	565	1242	3447	0	3725
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-3 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	10	10	11	11	10	10	12							74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.68	0.00	0.00	0.00	0.00	0.10
03MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.55	0.00	0.00	0.00	0.00	0.84
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	0.00	0.00	0.33	12.29	21.06	29.84	14.50	42.44	39.93	12.58	0.00	0.00	0.00	13.31
10MAY	SE	0.00	0.00	0.33	5.80	5.60	13.54	5.47	13.06	15.40	5.30	0.00	0.00	0.00	26.73
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	0.00	0.00	0.00	46.07	665.72	1333.77	711.73	6053.32	1657.17	145.85	17.11	0.00	0.00	817.75
17MAY	SE	0.00	0.00	0.00	15.77	50.13	662.70	249.15	2938.35	972.30	71.59	4.28	0.00	0.00	3176.23
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	0.00	0.19	0.00	0.00	19.17	519.83	1560.62	1236.33	1233.95	132.65	95.70	8.21	0.00	369.74
24MAY	SE	0.00	0.19	0.00	0.00	10.55	125.23	634.00	287.98	223.92	23.06	55.80	4.30	0.00	744.64
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	0.00	0.67	12.28	351.88	2169.69	890.13	340.82	372.25	147.39	74.42	0.55	0.00	0.67	335.44
31MAY	SE	0.00	0.67	6.29	198.81	995.23	254.13	108.96	59.14	46.22	53.39	0.34	0.00	0.67	1055.93
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-3 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	0.64	0.00	0.98	21.23	401.46	126.55	52.09	1911.95	797.42	1881.18	2537.41	40.91	0.47	597.87	
07JUN	SE	0.64	0.00	0.72	7.79	355.37	38.81	16.99	998.41	306.65	279.11	741.28	19.07	0.47	1358.96	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN-	DENSITY	0.00	12.81	48.98	93.40	91.25	261.13	398.68	496.09	161.25	93.40	11.16	0.00	0.00	128.32	
15JUN	SE	0.00	5.53	7.53	24.10	15.01	64.10	123.64	117.17	33.87	25.30	2.77	0.00	0.00	189.25	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN-	DENSITY	1.24	0.00	0.28	5.58	6.07	16.93	10.25	3.22	12.77	137.40	29.83	8.83	0.65	17.93	
22JUN	SE	1.24	0.00	0.28	2.23	2.53	12.70	3.53	1.36	2.70	49.57	13.99	4.20	0.65	53.54	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN-	DENSITY	0.00	0.83	0.00	0.27	0.46	4.73	4.58	53.65	74.34	140.03	77.06	52.32	20.04	32.95	
28JUN	SE	0.00	0.83	0.00	0.27	0.21	1.32	1.70	14.39	14.92	45.76	20.24	31.63	10.84	63.69	
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
27JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
23AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
06SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
20SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-4 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	190	113	0	0	0	0	303	303
03MAY SE	0	0	0	0	0	0	0	190	91	0	0	0	0	211	211
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY- ST. CROP	0	0	105	1816	4387	6190	2028	12654	6608	1779	0	0	0	35567	35567
10MAY SE	0	0	105	857	1167	2810	764	3893	2549	749	0	0	0	5727	5727
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	0	0	0	6806	138693	276698	99493	1804698	274236	20633	3016	0	0	2624274	2624274
17MAY SE	0	0	0	2329	10443	137482	34829	876020	160900	10128	755	0	0	902016	902016
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	0	45	0	0	3994	107841	218160	368592	204200	18766	16871	1320	0	939787	939787
24MAY SE	0	45	0	0	2199	25981	88627	85858	37055	3263	9837	690	0	131860	131860
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	0	153	3952	51985	452025	184663	47644	110981	24391	10529	96	0	48	886464	886464
31MAY SE	0	153	2023	29372	207343	52722	15231	17633	7649	7554	59	0	48	217476	217476
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-4 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
04JUN- ST. CROP	134	0	314	3136	83638	26253	7281	570015	131960	266131	447334	6575	33	1542806
07JUN SE	134	0	232	1151	74036	8051	2374	297660	50745	39486	130684	3065	33	339671
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	2938	15762	13799	19010	54173	55732	147900	26684	13213	1967	0	0	351176
15JUN SE	0	1268	2425	3561	3127	13298	17284	34934	5605	3579	489	0	0	42076
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	260	0	89	824	1265	3513	1433	961	2113	19438	5258	1420	46	36620
22JUN SE	260	0	89	329	527	2634	493	404	446	7012	2466	676	46	7983
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	189	0	40	95	980	641	15996	12303	19809	13586	8410	1426	73476
28JUN SE	0	189	0	40	44	274	237	4291	2470	6474	3568	5083	771	10284
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81

TABLE D-5 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	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
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.02
10MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.25
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	11.75	46.45	51.21	31.32	297.79	215.84	105.07	21.65	3.57	0.00	60.36
17MAY SE	0.00	0.00	0.00	3.24	6.20	21.40	9.01	187.69	122.23	54.84	15.13	3.57	0.00	232.39
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	1.97	157.43	690.89	687.48	3710.36	1224.43	549.82	191.99	198.74	16.50	0.00	571.51
24MAY SE	0.00	0.00	0.71	65.35	268.44	93.77	1582.89	267.49	85.07	80.92	113.29	4.39	0.00	1639.77
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	375.94	299.91	651.46	2209.59	3537.71	1294.09	841.25	322.87	108.75	251.94	16.12	1.14	2.35	762.55
31MAY SE	139.53	49.76	119.61	913.07	1124.03	300.52	177.37	85.48	39.94	55.68	8.96	1.14	1.93	1505.74
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-5 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
														AL	ALL COMBINED
04JUN-	DENSITY	8.05	59.26	430.11	828.97	1030.61	619.38	551.73	841.36	307.19	318.90	82.42	16.76	0.00	391.90
07JUN	SE	4.86	37.32	81.25	126.43	218.88	115.63	52.31	353.64	83.31	92.07	34.26	8.23	0.00	479.31
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN-	DENSITY	56.25	628.78	1070.21	1212.74	732.86	1072.04	1028.45	776.33	317.33	480.70	23.34	0.00	0.00	569.16
15JUN	SE	12.78	190.89	135.01	144.18	201.62	307.03	228.31	173.65	192.30	230.82	17.68	0.00	0.00	619.18
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN-	DENSITY	1.28	65.63	155.86	132.40	57.27	158.15	72.45	6.41	5.85	0.95	1.06	0.00	0.46	50.60
22JUN	SE	1.28	19.78	20.99	18.14	14.17	44.76	13.96	2.35	2.89	0.60	0.35	0.00	0.46	59.80
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN-	DENSITY	1.89	16.39	67.44	35.30	30.81	53.92	57.36	101.27	96.84	306.77	41.79	5.21	0.00	62.69
28JUN	SE	1.89	9.84	16.99	6.73	6.66	28.32	16.25	24.02	21.76	100.57	12.50	3.90	0.00	113.49
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL-	DENSITY	0.00	3.05	13.42	35.76	7.15	22.41	31.97	25.61	NS	NS	NS	NS	NS	17.42
11JUL	SE	0.00	1.95	2.46	6.42	2.63	11.28	11.07	3.84						17.96
	NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL-	DENSITY	0.00	0.00	0.00	1.78	0.53	0.76	6.57	0.66	NS	NS	NS	NS	NS	1.29
27JUL	SE	0.00	0.00	0.00	0.93	0.32	0.76	5.34	0.34						5.50
	NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.25	NS	NS	NS	NS	NS	0.06
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.25						0.28
	NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG	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
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP	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
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP	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
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT	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 D-6 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	35	0	0	0	0	0	0	35
10MAY SE	0	0	0	0	0	0	35	0	0	0	0	0	0	35
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	1736	9678	10624	4378	88783	35717	14864	3817	573	0	170170
17MAY SE	0	0	0	479	1292	4440	1259	55957	20228	7758	2667	573	0	60259
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	633	23258	143936	142621	518675	365042	90987	27161	35037	2652	0	1350002
24MAY SE	0	0	228	9654	55926	19453	221274	79748	14077	11447	19973	706	0	244233
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	78576	68805	209647	326438	737034	268467	117600	96257	17996	35642	2842	183	167	1959652
31MAY SE	29163	11415	38490	134894	234176	62344	24794	25483	6610	7877	1579	183	137	284176
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-6 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	1683	13596	138415	122469	214713	128494	77126	250836	50836	45115	14530	2694	0	1060508	
07JUN SE	1015	8562	26148	18678	45601	23988	7313	105431	13787	13026	6039	1324	0	123810	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST. CROP	11756	144255	344407	179166	152681	222402	143768	231450	52513	68005	4114	0	0	1554518	
15JUN SE	2672	43793	43448	21301	42005	63695	31916	51771	31822	32654	3118	0	0	125998	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST. CROP	267	15057	50157	19560	11932	32809	10127	1911	967	134	187	0	33	143141	
22JUN SE	267	4537	6756	2680	2952	9286	1952	700	478	84	62	0	33	13152	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST. CROP	394	3761	21701	5215	6419	11186	8018	30191	16025	43399	7367	838	0	154515	
28JUN SE	394	2257	5468	994	1389	5876	2271	7160	3601	14227	2204	627	0	18699	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- ST. CROP	0	700	4318	5283	1489	4648	4469	7634	NS	NS	NS	NS	NS	28541	
11JUL SE	0	447	793	948	547	2341	1547	1144						3348	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST. CROP	0	0	0	262	110	157	919	198	NS	NS	NS	NS	NS	1646	
27JUL SE	0	0	0	138	66	157	747	100						785	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST. CROP	0	0	0	0	0	0	26	76	NS	NS	NS	NS	NS	102	
09AUG SE	0	0	0	0	0	0	17	76						78	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-7 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-7 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	0.00	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	6	123	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	0.00	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	6	123	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.67	0.04	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
22JUN SE	0.00	0.00	0.00	0.67	0.04	0.04	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.67
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
28JUN SE	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	1.14	1.55	0.12	0.05	3.21	NS	NS	NS	NS	NS	0.76	0.76
11JUL SE	0.00	0.00	0.00	0.49	0.80	0.12	0.12	0.05	1.46	NS	NS	NS	NS	NS	1.74	1.74
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81
24JUL- DENSITY	0.00	0.00	4.58	8.83	0.99	0.24	0.93	0.93	0.00	NS	NS	NS	NS	NS	1.95	1.95
27JUL SE	0.00	0.00	4.58	4.56	0.44	0.24	0.93	0.93	0.00	NS	NS	NS	NS	NS	6.55	6.55
NO. TOWS	4	7	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	75	75
08AUG- DENSITY	0.00	0.00	0.00	0.42	1.16	0.00	0.43	0.43	0.00	NS	NS	NS	NS	NS	0.25	0.25
09AUG SE	0.00	0.00	0.00	0.30	0.62	0.00	0.35	0.35	0.00	NS	NS	NS	NS	NS	0.77	0.77
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81
20AUG- DENSITY	0.00	0.00	0.35	0.97	0.04	0.00	0.00	2.11	0.82	NS	NS	NS	NS	NS	0.54	0.54
23AUG SE	0.00	0.00	0.20	0.59	0.04	0.00	0.00	1.39	0.82	NS	NS	NS	NS	NS	1.73	1.73
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	1.43	0.11	1.87	1.87	0.00	NS	NS	NS	NS	NS	0.43	0.43
06SEP SE	0.00	0.00	0.00	0.00	1.43	0.11	1.70	1.70	0.00	NS	NS	NS	NS	NS	2.22	2.22
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.00	NS	NS	NS	NS	NS	0.05	0.05
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.00	NS	NS	NS	NS	NS	0.39	0.39
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81	81

TABLE D-8 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-8 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	98	8	20	0	0	0	0	0	0	0	0	126
22JUN SE	0	0	0	98	8	20	0	0	0	0	0	0	0	0	101
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- ST. CROP	0	0	146	0	0	0	0	0	0	0	0	0	0	0	146
28JUN SE	0	0	108	0	0	0	0	0	0	0	0	0	0	0	108
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- ST. CROP	0	0	0	168	322	26	6	957	NS	NS	NS	NS	NS	1480	1480
11JUL SE	0	0	0	73	167	26	6	436						474	474
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	1473	1304	206	50	129	0	NS	NS	NS	NS	NS	3163	3163
27JUL SE	0	0	1473	674	91	50	129	0						1628	1628
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	63	242	0	59	0	NS	NS	NS	NS	NS	365	365
09AUG SE	0	0	0	44	129	0	49	0						145	145
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	111	143	8	0	295	244	NS	NS	NS	NS	NS	802	802
23AUG SE	0	0	64	87	8	0	195	244						330	330
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	297	24	262	0	NS	NS	NS	NS	NS	583	583
06SEP SE	0	0	0	0	297	24	238	0						381	381
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	54	0	NS	NS	NS	NS	NS	54	54
20SEP SE	0	0	0	0	0	0	54	0						54	54
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-9 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	1.54	1.07	3.05	0.80	1.39	1.24	0.77	0.14	0.50	0.12	0.10	0.83
04JUL SE	0.00	0.00	0.56	0.50	1.37	0.49	0.70	0.69	0.48	0.08	0.24	0.12	0.10	1.99
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.03	0.00	0.00	0.55	0.30	4.24	0.38	0.06	0.17	6.52	1.21	0.66	1.09
20JUL SE	0.00	0.03	0.00		0.49	0.21	1.61	0.19	0.06	0.17	5.32	0.57	0.39	5.64
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.39	2.67	0.18	0.24	0.40	0.00	0.00	0.00	2.59	3.39	0.38	0.79
02AUG SE	0.00	0.00	0.26	1.17	0.08	0.24	0.22	0.00	0.00	0.00	2.12	1.83	0.38	3.09
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.14	0.97	1.41	0.46	1.25	0.14	0.21	0.00	3.30	1.85	0.00	1.16	0.84
17AUG SE	0.00	0.14	0.49	0.64	0.34	0.69	0.06	0.20	0.00	1.96	1.17	0.00	0.55	2.61
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.88	0.05	0.02	0.25	0.02	0.04	0.92	1.69	0.17	0.13	0.32
31AUG SE	0.00	0.00	0.00	0.47	0.03	0.02	0.11	0.02	0.03	0.71	0.96	0.17	0.13	1.30
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.03	0.49	1.54	0.03	0.01	0.27	0.21	0.00	0.52	0.39	0.00	0.49	0.31
13SEP SE	0.00	0.03	0.23	0.60	0.02	0.01	0.11	0.21	0.00	0.30	0.29	0.00	0.38	0.89
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.53	1.42	0.19	0.00	0.04	0.00	0.41	0.38	0.42	0.00	0.00	0.26
27SEP SE	0.00	0.00	0.29	0.58	0.07	0.00	0.04	0.00	0.41	0.38	0.16	0.00	0.00	0.88
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.04	0.38	0.34	1.51	0.02	0.23	0.27	0.00	0.00	0.38	0.17	0.00	0.00	0.26
10OCT SE	0.04	0.27	0.25	0.81	0.02	0.07	0.07	0.00	0.00	0.29	0.17	0.00	0.00	0.96
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.02	0.00	0.00	0.00	0.01	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
24OCT SE	0.02	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.02	0.02	0.22	0.13	0.07	0.01	0.07	0.01	0.01	0.03	0.00	0.00	0.00	0.05
08NOV SE	0.02	0.02	0.08	0.09	0.02	0.01	0.03	0.01	0.01	0.03	0.00	0.00	0.00	0.14
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.08	0.97	0.05	0.04	0.03	0.00	0.03	0.00	0.02	0.00	0.00	0.09
21NOV SE	0.00	0.00	0.06	0.44	0.02	0.04	0.02	0.00	0.03	0.00	0.02	0.00	0.00	0.45
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-10 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	496	157	636	167	195	371	128	19	88	19	7	2283	
04JUL SE	0	0	179	74	286	103	98	207	79	11	42	19	7	437	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- ST. CROP	0	6	0	0	115	62	593	114	10	24	1149	195	47	2317	
20JUL SE	0	6	0		103	45	226	56	10	24	939	92	27	978	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	125	394	37	49	55	0	0	0	456	545	27	1689	
02AUG SE	0	0	83	172	16	49	30	0	0	0	374	294	27	517	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	32	312	208	96	260	20	64	0	467	326	0	82	1867	
17AUG SE	0	32	158	94	71	143	8	59	0	278	207	0	39	431	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	130	9	5	35	5	7	130	298	27	9	655	
31AUG SE	0	0	0	69	6	5	15	5	5	101	169	27	9	211	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	8	157	228	7	2	37	63	0	74	68	0	35	679	
13SEP SE	0	8	74	89	4	2	15	63	0	42	51	0	27	151	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP- ST. CROP	0	0	170	209	40	0	6	0	68	54	74	0	0	621	
27SEP SE	0	0	94	86	14	0	5	0	68	54	28	0	0	158	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	7	88	108	224	4	48	38	0	0	53	29	0	0	600	
10OCT SE	7	61	80	120	4	14	9	0	0	41	29	0	0	166	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	5	0	0	0	2	9	1	0	0	0	0	0	0	18	
24OCT SE	5	0	0	0	2	4	1	0	0	0	0	0	0	7	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV- ST. CROP	4	5	70	20	14	2	10	4	2	4	0	0	0	134	
08NOV SE	4	5	27	13	4	2	4	4	2	4	0	0	0	32	
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	25	144	11	8	4	0	4	0	4	0	0	201	
21NOV SE	0	0	20	65	4	8	3	0	4	0	4	0	0	69	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-11 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	2.43	4.67	0.00	0.00	1.38	0.75	0.13	1.07	0.58	0.25	0.94
13JUN SE	0.00	0.00	1.23	1.76	0.00	0.00	0.68	0.49	0.13	0.42	0.31	0.18	2.38
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.91	0.29	0.33	4.67	6.00	1.50	2.63	9.25	1.53	0.42	0.58	2.34
26JUN SE	0.00	0.41	0.29	0.33	2.60	3.21	0.57	1.18	4.26	0.56	0.14	0.23	6.14
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	3.33	2.55	4.86	12.00	20.00	2.67	24.50	25.38	6.38	10.80	1.32	1.08	9.57
11JUL SE	0.33	0.90	2.32	11.50	3.00	1.76	8.85	11.73	3.32	2.67	0.34	0.58	19.63
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	3.80	3.33	8.36	7.20	1.60	14.50	7.00	6.40	0.00	4.56	3.00	1.86	5.13
26JUL SE	2.22	0.70	2.48	3.18	0.93	7.45	2.14	1.36	0.00	1.51	0.82	0.80	9.39
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.40	2.67	6.00	1.00	2.00	2.33	2.40	4.20	8.20	7.56	5.70	2.14	3.72
09AUG SE	0.40	0.51	1.84	0.55	0.32	0.67	2.16	1.16	3.95	2.95	3.44	1.18	6.95
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	2.60	1.71	2.64	1.20	1.00	0.33	3.40	5.20	1.80	2.22	19.60	2.14	3.65
23AUG SE	1.29	0.42	0.97	0.73	0.32	0.33	1.40	1.83	1.36	0.91	8.88	1.28	9.59
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	1.60	1.38	2.36	0.00	0.20	0.17	0.00	1.20	1.00	2.56	5.00	1.00	1.37
06SEP SE	0.93	0.33	0.69	0.00	0.20	0.17	0.00	0.97	0.45	1.73	3.71	1.00	4.52
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.20	1.71	1.00	1.80	7.60	0.33	0.60	3.60	0.80	2.78	2.00	0.14	1.88
20SEP SE	0.20	0.61	0.26	0.37	4.13	0.33	0.60	2.29	0.80	1.26	1.37	0.14	5.25
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	3.00	1.46	3.93	0.80	0.00	0.00	0.00	1.40	0.20	0.56	0.10	0.00	0.95
04OCT SE	2.53	0.43	1.10	0.37	0.00	0.00	0.00	0.87	0.20	0.34	0.10	0.00	2.98
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	3.20	1.46	1.50	2.00	8.60	0.17	0.40	7.00	1.40	0.11	0.30	0.00	2.18
17OCT SE	1.59	0.47	0.61	1.10	5.65	0.17	0.40	4.14	0.60	0.11	0.15	0.00	7.35
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-12 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	65	43	0	0	10	1	1	19	11	3	154
13JUN SE	0	0	33	16	0	0	5	1	1	7	6	2	39
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	41	8	3	12	64	11	3	80	27	8	8	265
26JUN SE	0	19	8	3	7	34	4	1	37	10	3	3	56
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	25	116	131	111	53	28	174	31	55	190	26	15	953
11JUL SE	3	41	62	106	8	19	63	15	29	47	7	8	157
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	29	151	225	66	4	154	50	8	0	80	59	25	852
26JUL SE	17	32	67	29	2	79	15	2	0	27	16	11	119
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	3	121	161	9	5	25	17	5	71	133	112	29	692
09AUG SE	3	23	49	5	1	7	15	1	34	52	68	16	110
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	20	78	71	11	3	4	24	6	15	39	386	29	685
23AUG SE	10	19	26	7	1	4	10	2	12	16	175	17	180
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	12	62	63	0	1	2	0	1	9	45	98	14	307
06SEP SE	7	15	19	0	1	2	0	1	4	30	73	14	84
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	2	78	27	17	20	4	4	4	7	49	39	2	252
20SEP SE	2	28	7	3	11	4	4	3	7	22	27	2	47
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	23	66	106	7	0	0	0	2	2	10	2	0	217
04OCT SE	19	19	30	3	0	0	0	1	2	6	2	0	41
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	24	66	40	18	23	2	3	9	12	2	6	0	205
17OCT SE	12	21	16	10	15	2	3	5	5	2	3	0	36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-13 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	1.20	1.22	0.28	0.28	0.31	0.00	0.00	NS	NS	NS	NS	NS	NS	0.47	
15MAR	SE	0.37	0.79	0.28	0.28	0.31	0.00	0.00							1.01	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.23	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03	
22MAR	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	12							74	
26MAR-	DENSITY	0.69	1.19	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.27	
28MAR	SE	0.45	0.20	0.00	0.00	0.00	0.00	0.00							0.49	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	1.15	0.44	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
05APR	SE	1.15	0.26	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	DENSITY	0.00	0.00	0.48	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
12APR	SE	0.00	0.00	0.28	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	0.00	0.27	0.19	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
19APR	SE	0.00	0.27	0.19	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	DENSITY	0.00	0.00	0.19	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	
26APR	SE	0.00	0.00	0.19	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	DENSITY	0.00	0.26	0.00	0.22	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
03MAY	SE	0.00	0.26	0.00	0.22	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.00	0.00	0.15	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
10MAY	SE	0.00	0.00	0.00	0.15	0.00	0.18	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	
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17MAY	SE	0.00	0.00	0.00	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	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24MAY	SE	0.00	0.00	0.00	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	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31MAY	SE	0.00	0.00	0.00	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 D-13 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.31	0.00	0.45	0.16	
07JUN SE	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.31	0.00	0.45	1.19	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- DENSITY	0.00	0.00	0.29	0.00	0.00	0.00	0.05	0.00	0.00	0.30	0.00	0.00	0.00	0.05	
15JUN SE	0.00	0.00	0.29	0.00	0.00	0.00	0.05	0.00	0.00	0.30	0.00	0.00	0.00	0.42	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- DENSITY	0.00	0.00	0.00	0.48	0.04	0.00	0.14	1.09	0.00	0.00	0.00	0.00	0.00	0.13	
22JUN SE	0.00	0.00	0.00	0.48	0.04	0.00	0.09	0.92	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	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	
28JUN SE	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.08	0.00	NS	NS	NS	NS	NS	0.03	
11JUL SE	0.00	0.00	0.00	0.18	0.00	0.00	0.08	0.00	NS	NS	NS	NS	NS	0.20	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	0.47	0.18	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.08	
27JUL SE	0.00	0.00	0.35	0.18	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.39	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-14 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	251	279	91	41	65	0	0	NS	NS	NS	NS	NS	NS	728	
15MAR SE	78	180	91	41	65	0	0							230	
NO. TOWS	10	10	11	11	10	10	12							74	
20MAR- ST. CROP	0	0	0	0	48	0	0	NS	NS	NS	NS	NS	NS	48	
22MAR SE	0	0	0	0	48	0	0							48	
NO. TOWS	10	10	11	11	10	10	12							74	
26MAR- ST. CROP	143	273	0	0	0	0	0	NS	NS	NS	NS	NS	NS	417	
28MAR SE	94	45	0	0	0	0	0							104	
NO. TOWS	10	10	11	11	10	10	12							74	
02APR- ST. CROP	241	102	0	29	0	0	0	0	0	0	0	0	0	371	
05APR SE	241	59	0	29	0	0	0	0	0	0	0	0	0	249	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR- ST. CROP	0	0	155	105	0	0	0	0	0	0	0	0	0	259	
12APR SE	0	0	90	42	0	0	0	0	0	0	0	0	0	100	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR- ST. CROP	0	62	60	31	0	0	0	0	0	0	0	0	0	153	
19APR SE	0	62	60	31	0	0	0	0	0	0	0	0	0	92	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR- ST. CROP	0	0	60	85	0	0	0	0	0	0	0	0	0	145	
26APR SE	0	0	60	55	0	0	0	0	0	0	0	0	0	81	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR- ST. CROP	0	60	0	32	43	0	0	0	0	0	0	0	0	136	
03MAY SE	0	60	0	32	43	0	0	0	0	0	0	0	0	81	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY- ST. CROP	0	0	0	22	0	37	0	0	0	0	0	0	0	59	
10MAY SE	0	0	0	22	0	37	0	0	0	0	0	0	0	43	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17MAY 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	
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24MAY 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	
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31MAY 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 D-14 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	232	0	0	0	0	0	0	0	45	55	0	32	364	
07JUN SE	0	232	0	0	0	0	0	0	0	45	55	0	32	245	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST. CROP	0	0	94	0	0	0	6	0	0	43	0	0	0	143	
15JUN SE	0	0	94	0	0	0	6	0	0	43	0	0	0	103	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST. CROP	0	0	0	70	8	0	20	325	0	0	0	0	0	423	
22JUN SE	0	0	0	70	8	0	13	273	0	0	0	0	0	282	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST. CROP	0	0	0	0	8	0	0	0	0	0	0	0	0	8	
28JUN SE	0	0	0	0	8	0	0	0	0	0	0	0	0	8	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- ST. CROP	0	0	0	26	0	0	12	0	NS	NS	NS	NS	NS	38	
11JUL SE	0	0	0	26	0	0	12	0						29	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST. CROP	0	0	150	27	0	0	0	0	NS	NS	NS	NS	NS	177	
27JUL SE	0	0	111	27	0	0	0	0						114	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
09AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-15 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
														AL	
30JUN-	DENSITY	0.00	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14	0.00	0.00	0.02
04JUL	SE	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL-	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	0.00	< 0.005
20JUL	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	0.00	0.02
	NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL-	DENSITY	0.00	0.00	0.00	0.17	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02
02AUG	SE	0.00	0.00	0.00	0.17	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.17
	NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG-	DENSITY	0.00	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.03
17AUG	SE	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP-	DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
13SEP	SE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP	SE	0.00	0.00	0.00	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
07OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT	SE	0.00	0.00	0.00	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
21OCT-	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	0.00	< 0.005
24OCT	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	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV-	DENSITY	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
08NOV	SE	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.00	0.00	0.06	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
21NOV	SE	0.00	0.00	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
	NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-16 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	36	0	0	0	2	0	0	0	24	0	0	0	62
04JUL SE	0	0	21	0	0	0	1	0	0	0	24	0	0	0	32
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- ST. CROP	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
20JUL SE	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	0	25	0	0	5	0	0	0	0	0	0	0	30
02AUG SE	0	0	0	25	0	0	5	0	0	0	0	0	0	0	25
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	0	55	10	0	0	0	0	0	0	0	0	0	7	73
17AUG SE	0	0	30	7	0	0	0	0	0	0	0	0	0	7	32
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
13SEP SE	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP SE	0	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	
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT SE	0	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	
21OCT- ST. CROP	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
24OCT SE	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV- ST. CROP	0	0	19	0	0	0	1	0	0	0	0	0	0	0	20
08NOV SE	0	0	19	0	0	0	1	0	0	0	0	0	0	0	19
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	19	21	0	0	0	0	0	0	0	0	0	0	40
21NOV SE	0	0	19	11	0	0	0	0	0	0	0	0	0	0	22
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-17 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.09	0.14	0.00	0.00	0.00	1.38	0.63	1.88	0.80	0.21	0.42	0.46
13JUN SE	0.00	0.09	0.14	0.00	0.00	0.00	0.71	0.26	1.74	0.40	0.10	0.15	1.95
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.27	0.86	0.33	0.33	0.00	1.63	0.25	0.38	0.47	0.11	1.08	0.48
26JUN SE	0.00	0.19	0.34	0.33	0.33	0.00	1.08	0.25	0.18	0.19	0.07	0.63	1.45
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.33	0.18	0.29	0.00	0.67	1.00	0.50	0.63	0.25	0.27	0.11	0.25	0.37
11JUL SE	0.33	0.12	0.18	0.00	0.67	1.00	0.27	0.26	0.16	0.15	0.07	0.13	1.35
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.08	0.14	0.20	0.00	0.50	0.00	0.40	0.00	0.00	0.00	0.43	0.15
26JUL SE	0.00	0.06	0.14	0.20	0.00	0.50	0.00	0.40	0.00	0.00	0.00	0.30	0.75
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.08	0.21	0.00	0.20	0.33	0.20	0.60	0.00	0.00	0.00	0.00	0.14
09AUG SE	0.00	0.08	0.11	0.00	0.20	0.21	0.20	0.40	0.00	0.00	0.00	0.00	0.55
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.08	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.11	0.30	0.00	0.06
23AUG SE	0.00	0.06	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.11	0.21	0.00	0.30
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- 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
06SEP 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
17SEP- CPUE	0.00	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
20SEP SE	0.00	0.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- 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
04OCT 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
14OCT- 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
17OCT 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 D-18 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	4	4	0	0	0	10	1	16	14	4	6	58
13JUN SE	0	4	4	0	0	0	5	< 0.5	15	7	2	2	18
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	12	23	3	1	0	12	< 0.5	3	8	2	15	79
26JUN SE	0	9	9	3	1	0	8	< 0.5	2	3	1	9	18
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	3	8	8	0	2	11	4	1	2	5	2	3	47
11JUL SE	3	6	5	0	2	11	2	< 0.5	1	3	1	2	14
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	4	4	2	0	5	0	< 0.5	0	0	0	6	21
26JUL SE	0	3	4	2	0	5	0	< 0.5	0	0	0	4	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	4	6	0	1	4	1	1	0	0	0	0	16
09AUG SE	0	4	3	0	1	2	1	< 0.5	0	0	0	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	4	0	0	0	2	0	0	0	2	6	0	13
23AUG SE	0	3	0	0	0	2	0	0	0	2	4	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	2	2	0	0	0	0	0	0	0	0	0	4
06SEP 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
17SEP- ST. CROP	0	4	4	0	0	0	0	0	0	0	0	0	8
20SEP SE	0	3	3	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
02OCT- ST. CROP	0	2	2	0	0	0	0	0	0	0	0	0	4
04OCT 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
14OCT- ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
17OCT 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 D-19 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	1.18	0.73	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.27	
15MAR	SE	0.92	0.65	0.00	0.00	0.00	0.00	0.00							1.12	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	1.01	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.14	
22MAR	SE	0.41	0.00	0.00	0.00	0.00	0.00	0.00							0.41	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	DENSITY	0.00	0.68	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.10	
28MAR	SE	0.00	0.34	0.00	0.00	0.00	0.00	0.00							0.34	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	0.00	0.19	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
05APR	SE	0.00	0.19	0.00	0.20	0.00	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	
09APR-	DENSITY	0.81	0.00	0.17	0.16	0.05	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.12	
12APR	SE	0.81	0.00	0.17	0.16	0.05	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.90	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19APR	SE	0.00	0.00	0.00	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	
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26APR	SE	0.00	0.00	0.00	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	
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03MAY	SE	0.00	0.00	0.00	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	
07MAY-	DENSITY	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.16	0.46	0.00	0.00	0.00	0.00	0.06	
10MAY	SE	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.16	0.46	0.00	0.00	0.00	0.00	0.51	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17MAY	SE	0.00	0.00	0.00	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	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.02	
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	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	
31MAY	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	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-19 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
22JUN SE	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-20 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	248	168	0	0	0	0	0	NS	NS	NS	NS	NS	NS	416
15MAR SE	192	149	0	0	0	0	0							243
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	211	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	211
22MAR SE	86	0	0	0	0	0	0							86
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	156	0	0	0	0	0	NS	NS	NS	NS	NS	NS	156
28MAR SE	0	78	0	0	0	0	0							78
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	44	0	30	0	0	0	0	0	0	0	0	0	74
05APR SE	0	44	0	30	0	0	0	0	0	0	0	0	0	53
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	169	0	56	24	10	0	49	0	0	0	0	0	0	308
12APR SE	169	0	56	24	10	0	44	0	0	0	0	0	0	185
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	22	0	0	0	49	76	0	0	0	0	148
10MAY SE	0	0	0	22	0	0	0	49	76	0	0	0	0	93
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	48	0	0	48
24MAY SE	0	0	0	0	0	0	0	0	0	0	48	0	0	48
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	51	0	0	51
31MAY SE	0	0	0	0	0	0	0	0	0	0	51	0	0	51
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-20 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	107	0	0	0	0	0	0	0	0	0	0	107
22JUN SE	0	0	107	0	0	0	0	0	0	0	0	0	0	107
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-21 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
20JUL 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	0.00	0.04
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- 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	0.09	0.01
17AUG 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	0.09	0.10
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.01
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.09
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- 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
10OCT 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	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- 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
21NOV 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	13	15	10	10	8	10	10	7	150

TABLE D-22 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	8	0	0	0	0	0	0	0	0	0	0	0	8
20JUL SE	0	8	0	0	0	0	0	0	0	0	0	0	0	8
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	5	0	0	0	0	7	12
17AUG SE	0	0	0	0	0	0	0	5	0	0	0	0	7	8
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	26	0	0	0	0	0	26
31AUG SE	0	0	0	0	0	0	0	26	0	0	0	0	0	26
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
10OCT 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
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	0	4
21NOV SE	0	4	0	0	0	0	0	0	0	0	0	0	0	4
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-23 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN 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
24JUN- 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
26JUN 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
09JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.05	0.00	0.03
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.05	0.00	0.18
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.14	0.03
26JUL SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.14	0.25
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.04	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.04
09AUG SE	0.00	0.04	0.00	0.00	0.00	0.00	0.40	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-24 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	1	0	1
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	1	0	1
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	< 0.5	1	0	1	0	2
11JUL SE	0	0	0	0	0	0	0	< 0.5	1	0	1	0	2
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	2	0	0	0	0	0	0	2	0	0	2	6
26JUL SE	0	2	0	0	0	0	0	0	2	0	0	2	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	2	0	0	0	0	3	0	0	0	0	0	5
09AUG SE	0	2	0	0	0	0	3	0	0	0	0	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-25 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- 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
12APR 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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.04
26APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.47
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	1.16	5.95	7.48	582.80	9.23	46.67
03MAY SE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.97	4.19	3.44	286.07	5.33	286.18
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.00	3.82	1.59	0.00	0.00	0.00	0.00	1.32	1.96	96.80	425.82	316.80	759.69	123.68
10MAY SE	0.00	3.82	1.59	0.00	0.00	0.00	0.00	1.32	1.77	55.89	123.77	62.08	537.54	557.92
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	1.04	1.94	18.81	0.56	220.30	16.43	824.00	168.99	96.31
17MAY SE	0.00	0.00	0.00	0.00	0.00	1.04	1.94	18.81	0.36	144.06	8.71	690.70	124.36	716.75
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	1.31	1940.67	158.51	1533.32	904.37	349.12
24MAY SE	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.78	1317.71	117.97	99.68	499.14	1417.51
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09	0.60	8.86	116.80	119.51	23.40	21.02
31MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.60	2.81	41.98	24.09	12.82	50.18
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-25 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.13	0.00	3.56	2.57	94.12	10.36	201.11	76.49	29.87
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.13	0.00	3.25	0.88	30.75	3.02	56.08	55.90	85.06
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.68	0.56	0.88	1.48	0.00	11.68	158.89	206.49	29.28
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.56	0.36	0.51	0.79	0.00	6.86	36.47	92.96	100.10
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	1.83	0.17	0.00	1.72	10.77	36.24	7.65	10.01	5.26
22JUN SE	0.00	0.00	0.00	0.00	0.00	1.18	0.17	0.00	0.71	5.35	14.78	1.45	8.24	17.86
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.16	4.63	2.03	6.57	26.10	3.12
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.16	1.80	1.22	1.18	3.64	4.47
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-26 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	42	0	0	0	42
12APR SE	0	0	0	0	0	0	0	0	0	42	0	0	0	42
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	83	0	0	83
26APR SE	0	0	0	0	0	0	0	0	0	0	83	0	0	83
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	0	0	0	10	0	0	0	192	842	1318	93674	656	96692
03MAY SE	0	0	0	0	10	0	0	0	161	593	606	45981	379	45991
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	877	510	0	0	0	0	393	324	13694	75070	50920	54051	195840
10MAY SE	0	877	510	0	0	0	0	393	293	7907	21820	9978	38246	45850
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	0	0	216	271	5609	92	31166	2897	132443	12024	184718
17MAY SE	0	0	0	0	0	216	271	5609	59	20380	1536	111018	8848	113369
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	86	0	0	0	216	274546	27945	246452	64345	613591
24MAY SE	0	0	0	0	86	0	0	0	129	186416	20798	16021	35514	191576
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	0	1220	100	1254	20592	19209	1665	44039
31MAY SE	0	0	0	0	0	0	0	496	100	397	7401	3871	912	8426
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-26 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST.CROP	0	0	0	0	0	27	0	1060	426	13314	1827	32325	5442	54421
07JUN SE	0	0	0	0	0	27	0	970	145	4350	533	9013	3977	10827
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST.CROP	0	0	0	0	0	140	79	262	245	0	2059	25538	14691	43014
15JUN SE	0	0	0	0	0	117	50	151	131	0	1209	5862	6614	8924
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST.CROP	0	0	0	0	0	381	24	0	284	1524	6389	1229	712	10544
22JUN SE	0	0	0	0	0	245	24	0	118	757	2605	234	586	2798
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST.CROP	0	0	0	0	0	0	0	305	26	656	357	1055	1857	4256
28JUN SE	0	0	0	0	0	0	0	228	26	255	214	190	259	517
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
24JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75
06AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
20AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
04SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
17SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81

TABLE D-27 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL
															REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	10	10	11	11	10	10	12							74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	10	10	11	11	10	10	12							74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.32	0.00	0.39	4.03	5.54	0.84
03MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.20	0.00	0.39	1.67	3.11	3.61
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	2.21	0.00	0.08	0.00	13.38	62.02	208.85	270.60	160.30	55.19
10MAY	SE	0.00	0.00	0.00	0.00	1.43	0.00	0.08	0.00	5.07	25.01	56.86	101.75	36.18	124.70
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	8.43	5.81	25.97	116.44	151.48	152.42	54.21	19.83	41.12
17MAY	SE	0.00	0.00	0.00	0.00	0.00	8.43	3.19	21.90	26.59	59.66	48.51	21.04	12.82	88.25
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.89	6.71	6.43	55.50	149.18	56.39	17.31	36.02	25.26
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.67	2.41	2.01	24.49	8.06	13.46	4.21	11.63	31.77
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	0.00	0.00	0.00	0.55	2.06	5.67	22.15	57.57	19.15	68.55	24.90	26.17	38.98	20.44
31MAY	SE	0.00	0.00	0.00	0.55	1.12	3.53	5.93	23.07	7.83	39.25	5.66	7.69	10.24	48.78
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-27 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.64	1.00	5.29	2.38	18.24	12.65	18.57	186.43	329.39	1415.78	229.40	170.75	
07JUN SE	0.00	0.00	0.64	0.55	2.49	0.77	3.05	6.43	5.23	51.45	169.86	613.75	71.39	642.93	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- DENSITY	0.00	0.00	1.37	4.98	6.34	7.52	9.34	113.91	96.58	24.28	232.70	39.29	15.66	42.46	
15JUN SE	0.00	0.00	0.74	2.72	2.99	0.76	4.44	43.01	14.31	7.93	132.38	12.14	6.70	140.97	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- DENSITY	0.00	0.00	0.00	0.26	1.23	3.85	2.03	0.59	2.93	45.63	15.42	12.56	4.07	6.81	
22JUN SE	0.00	0.00	0.00	0.26	0.84	2.72	1.13	0.38	1.50	15.35	5.36	6.95	2.06	18.13	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.36	1.67	0.60	2.52	0.58	9.72	13.55	63.38	809.21	69.35	
28JUN SE	0.00	0.00	0.00	0.00	0.36	0.64	0.26	1.03	0.42	5.36	6.15	20.88	134.11	135.97	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-28 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	184	53	0	69	648	394	1348	1348
03MAY SE	0	0	0	0	0	0	0	184	33	0	69	268	222	401	401
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY- ST. CROP	0	0	0	0	459	0	12	0	2214	8773	36820	43494	11405	103177	103177
10MAY SE	0	0	0	0	298	0	12	0	839	3539	10024	16355	2574	19695	19695
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	0	0	0	0	0	1749	812	7742	19270	21430	26871	8713	1411	87998	87998
17MAY SE	0	0	0	0	0	1749	446	6528	4400	8440	8552	3382	912	14896	14896
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	0	0	0	0	0	184	937	1918	9185	21105	9942	2782	2563	48617	48617
24MAY SE	0	0	0	0	0	138	337	599	4054	1140	2373	676	828	5000	5000
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	0	0	0	81	428	1176	3097	17165	3168	9698	4389	4206	2773	46182	46182
31MAY SE	0	0	0	81	233	733	828	6878	1296	5553	999	1236	729	9174	9174
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-28 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS COMBINED

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL
04JUN- ST. CROP	0	0	205	147	1103	494	2550	3771	3072	26374	58069	227561	16321	339668
07JUN SE	0	0	205	82	518	160	426	1918	865	7279	29945	98648	5080	103498
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	0	440	735	1320	1560	1305	33960	15982	3435	41023	6315	1114	107189
15JUN SE	0	0	237	402	623	158	621	12822	2368	1121	23338	1951	477	26851
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	0	39	257	800	284	175	486	6455	2718	2019	289	13521
22JUN SE	0	0	0	39	176	565	158	112	248	2171	945	1117	146	2707
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	74	346	84	750	96	1375	2388	10187	57575	72875
28JUN SE	0	0	0	0	74	133	36	307	70	758	1085	3356	9542	10207
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-29 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.45	0.49	5.75	1.53	3.51	417.31	450.54	449.25	984.99	3.01	178.22
17MAY	SE	0.00	0.00	0.00	0.45	0.44	2.90	0.77	1.61	89.55	174.32	149.88	452.70	3.01	515.58
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.96	2.69	13.53	82.42	1030.55	749.49	826.29	703.16	10.48	263.04
24MAY	SE	0.00	0.00	0.00	0.00	0.59	1.17	5.05	31.46	375.39	108.07	286.04	159.27	3.91	510.70
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	0.52	0.97	0.98	20.94	106.18	283.72	819.40	684.47	295.42	444.26	13.29	3.93	0.00	205.70
31MAY	SE	0.52	0.97	0.63	13.57	19.41	76.53	85.16	213.85	124.53	31.67	6.14	3.04	0.00	275.61
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-29 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	0.00	0.39	1.28	47.96	140.15	279.52	382.64	1064.66	357.00	754.82	311.77	333.23	0.00	282.57
07JUN SE	0.00	0.39	0.72	15.21	52.36	52.73	90.67	601.38	110.53	80.87	121.09	156.81	0.00	658.52
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	2.09	10.58	88.04	332.38	433.87	618.06	767.94	2576.43	1551.47	1774.82	131.59	0.00	0.58	637.53
15JUN SE	1.10	3.66	8.82	61.06	135.57	170.02	121.25	349.06	320.04	857.39	68.66	0.00	0.58	1014.85
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	1.77	22.30	52.66	108.77	142.52	114.23	11.93	3.47	4.54	0.36	0.00	0.00	35.58
22JUN SE	0.00	1.59	6.29	8.29	31.29	43.06	19.89	3.86	2.18	1.53	0.36	0.00	0.00	57.97
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	1.89	0.47	9.23	11.83	13.49	42.50	53.20	39.12	55.24	85.64	177.28	364.18	388.04	95.55
28JUN SE	1.89	0.47	3.02	1.25	3.63	23.62	16.24	9.91	19.59	21.90	99.87	121.50	186.20	247.42
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	0.00	0.39	10.69	1.44	2.22	25.86	10.35	NS	NS	NS	NS	NS	6.37
11JUL SE	0.00	0.00	0.39	3.16	0.51	1.39	7.93	4.14	NS	NS	NS	NS	NS	9.61
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.03	3.58	25.87	10.54	NS	NS	NS	NS	NS	5.00
27JUL SE	0.00	0.00	0.00	0.00	0.03	2.17	21.61	3.09	NS	NS	NS	NS	NS	21.94
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.57	NS	NS	NS	NS	NS	0.17
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.29	NS	NS	NS	NS	NS	0.80
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-30 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	67	103	1193	214	1047	69058	63737	79201	158319	214	373153
17MAY SE	0	0	0	67	91	601	107	479	14819	24661	26423	72763	214	82590
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	201	558	1891	24572	170540	106030	145671	113020	746	563228
24MAY SE	0	0	0	0	124	242	706	9380	62121	15289	50427	25599	278	85905
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	108	222	315	3093	22121	58860	114545	204065	48887	62850	2344	632	0	518043
31MAY SE	108	222	202	2005	4043	15876	11905	63755	20607	4480	1083	489	0	70179
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-30 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	90	412	7086	29198	57988	53489	317411	59077	106785	54963	53561	0	740060
07JUN SE	0	90	230	2247	10908	10939	12674	179293	18292	11441	21347	25204	0	184680
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	437	2427	28333	49105	90391	128221	107352	768119	256744	251084	23198	0	41	1705453
15JUN SE	230	839	2837	9020	28245	35273	16950	104067	52962	121295	12104	0	41	175822
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	405	7176	7780	22661	29567	15968	3556	573	643	63	0	0	88392
22JUN SE	0	366	2023	1224	6518	8932	2780	1152	360	217	63	0	0	11715
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	394	108	2969	1748	2810	8818	7436	11663	9141	12116	31254	58536	27609	174602
28JUN SE	394	108	973	184	756	4900	2270	2954	3242	3098	17606	19529	13248	30440
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	124	1579	301	460	3615	3087	NS	NS	NS	NS	NS	9165
11JUL SE	0	0	124	467	106	288	1108	1234	NS	NS	NS	NS	NS	1754
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
24JUL- ST. CROP	0	0	0	0	7	742	3617	3143	NS	NS	NS	NS	NS	7509
27JUL SE	0	0	0	0	7	451	3021	923	NS	NS	NS	NS	NS	3190
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75
06AUG- ST. CROP	0	0	0	0	0	0	111	170	NS	NS	NS	NS	NS	281
09AUG SE	0	0	0	0	0	0	105	87	NS	NS	NS	NS	NS	136
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-31 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	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
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY SE	0.00	0.00	0.00	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
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY SE	0.00	0.00	0.00	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
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY SE	0.00	0.00	0.00	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
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY SE	0.00	0.00	0.00	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 D-31 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.74	NS	NS	NS	NS	NS	0.11
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.74	NS	NS	NS	NS	NS	0.75
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.10	0.00	NS	NS	NS	NS	NS	0.03
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.10	0.00	NS	NS	NS	NS	NS	0.16
NO. TOWS	4	7	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	4.47	0.06	0.00	0.76	0.25	NS	NS	NS	NS	NS	0.69
09AUG SE	0.00	0.00	0.00	0.00	4.08	0.06	0.00	0.32	0.25	NS	NS	NS	NS	NS	4.10
NO. TOWS	6	11	13	14	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	NS	NS	NS	NS	NS	0.09
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	NS	NS	NS	NS	NS	0.68
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	NS	NS	NS	NS	NS	0.06
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	NS	NS	NS	NS	NS	0.35
NO. TOWS	6	11	13	14	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	NS	NS	NS	NS	NS	0.01
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	NS	NS	NS	NS	NS	0.11
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	6	NS	NS	NS	NS	NS	81

TABLE D-32 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-32 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	30	0	0	220	NS	NS	NS	NS	NS	250	250
11JUL SE	0	0	0	0	30	0	0	220						222	222
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	25	14	0	NS	NS	NS	NS	NS	39	39
27JUL SE	0	0	0	0	0	25	14	0						29	29
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	660	13	0	107	74	NS	NS	NS	NS	NS	855	855
09AUG SE	0	0	0	602	13	0	45	74						609	609
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	101	0	NS	NS	NS	NS	NS	101	101
23AUG SE	0	0	0	0	0	0	95	0						95	95
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	67	0	NS	NS	NS	NS	NS	67	67
06SEP SE	0	0	0	0	0	0	49	0						49	49
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	16	0	NS	NS	NS	NS	NS	16	16
20SEP SE	0	0	0	0	0	0	16	0						16	16
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-33 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.07	0.00	0.00	0.02
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.07	0.00	0.00	0.21
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.20	0.48	0.74	0.07	0.45	0.00	0.00	0.00	0.15
20JUL SE	0.00	0.00	0.00	0.00	0.00	0.20	0.37	0.36	0.03	0.37	0.00	0.00	0.00	0.67
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.02	0.02	0.52	0.66	7.09	0.00	0.66
02AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.02	0.02	0.38	0.53	5.84	0.00	5.88
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.02	0.22	0.31	0.00	0.00	0.33	0.28	0.39	0.40	0.15
17AUG SE	0.00	0.00	0.00	0.00	0.02	0.21	0.13	0.00	0.00	0.33	0.12	0.39	0.29	0.65
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.41	0.00	3.04	0.17	0.38	0.32
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.41	0.00	1.92	0.17	0.24	1.99
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.01	0.02	0.20	0.00	0.00	1.57	0.32	0.00	0.38	0.19
13SEP SE	0.00	0.00	0.00	0.00	0.01	0.01	0.11	0.00	0.00	0.65	0.32	0.00	0.25	0.77
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.71	0.33	0.00	0.00	0.09
27SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.50	0.19	0.00	0.00	0.54
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.08	0.08	0.29	0.14	0.13	0.00	0.06
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.05	0.17	0.14	0.13	0.00	0.27
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.15	0.03	0.05	0.00	0.00	0.03
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.03	0.04	0.00	0.00	0.11
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.14	0.02	0.30	0.09	0.03	0.03	0.05	0.05
08NOV SE	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.02	0.12	0.04	0.03	0.03	0.05	0.16
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.05	0.12	0.08	0.39	0.25	0.48	0.14	0.02	0.00	0.00	0.12
21NOV SE	0.00	0.00	0.00	0.06	0.05	0.03	0.13	0.08	0.18	0.08	0.02	0.00	0.00	0.26
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-34 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	0	0	0	65	0	0	12	0	0	0	77
04JUL SE	0	0	0	0	0	0	0	60	0	0	12	0	0	0	61
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	0	0	0	0	0	42	67	221	11	63	0	0	0	0	405
20JUL SE	0	0	0	0	0	42	52	107	5	52	0	0	0	0	137
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	0	0	0	0	0	0	42	5	3	74	116	1139	0	0	1379
02AUG SE	0	0	0	0	0	0	16	5	3	54	94	939	0	0	945
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	0	0	0	0	3	46	44	0	0	47	50	62	29	0	280
17AUG SE	0	0	0	0	3	44	18	0	0	47	22	62	21	0	96
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	0	0	0	0	19	0	67	0	536	27	27	0	677
31AUG SE	0	0	0	0	0	0	9	0	67	0	338	27	17	0	347
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	0	0	0	2	5	28	0	0	222	57	0	27	0	339
13SEP SE	0	0	0	0	2	3	15	0	0	92	57	0	18	0	110
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	0	0	0	0	0	0	1	10	7	101	59	0	0	0	178
27SEP SE	0	0	0	0	0	0	1	7	5	71	34	0	0	0	79
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	0	0	0	7	9	23	13	41	26	21	0	0	140
10OCT SE	0	0	0	0	0	5	6	19	9	24	26	21	0	0	46
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	0	0	0	0	0	0	42	25	4	10	0	0	0	80
24OCT SE	0	0	0	0	0	0	0	19	12	4	6	0	0	0	24
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
04NOV- ST. CROP	0	0	0	0	0	3	19	5	50	13	5	5	3	0	104
08NOV SE	0	0	0	0	0	3	9	5	19	6	5	5	3	0	24
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	9	25	18	54	75	80	19	4	0	0	0	283
21NOV SE	0	0	0	9	11	6	19	23	29	11	4	0	0	0	46
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-35 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.13	0.00	0.00	0.03
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.13	0.00	0.00	0.21
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	1.29	0.33	0.33	0.33	3.75	3.63	1.63	0.80	0.21	0.33	1.05
11JUL SE	0.00	0.00	1.13	0.33	0.33	0.33	1.31	1.87	1.63	0.30	0.10	0.26	3.10
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.08	2.50	0.20	0.20	2.00	3.00	0.60	0.20	0.44	0.50	0.00	0.81
26JUL SE	0.00	0.06	1.46	0.20	0.20	1.61	1.38	0.40	0.20	0.34	0.27	0.00	2.67
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.08	5.86	0.40	0.20	0.17	1.00	1.60	3.60	1.11	1.40	1.57	1.42
09AUG SE	0.00	0.06	2.65	0.24	0.20	0.17	0.77	0.93	2.46	0.48	0.62	1.41	4.16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.42	1.43	2.60	0.00	0.00	0.20	1.20	0.20	0.44	4.20	9.57	1.69
23AUG SE	0.00	0.31	1.02	2.11	0.00	0.00	0.20	0.73	0.20	0.34	1.55	6.24	6.91
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.33	0.79	0.20	0.00	0.00	0.00	0.40	0.60	0.00	1.00	0.14	0.29
06SEP SE	0.00	0.19	0.43	0.20	0.00	0.00	0.00	0.40	0.60	0.00	0.73	0.14	1.16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.04	1.07	0.40	0.60	0.00	0.00	0.80	0.40	0.67	0.20	0.00	0.35
20SEP SE	0.00	0.04	0.58	0.40	0.60	0.00	0.00	0.49	0.24	0.47	0.13	0.00	1.18
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	2.36	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	3.86	0.57
04OCT SE	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	2.49	2.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	1.20	3.60	0.17	0.00	1.60	6.40	0.22	0.60	0.29	1.17
17OCT SE	0.00	0.00	0.00	0.97	2.20	0.17	0.00	1.03	3.41	0.22	0.40	0.29	4.34
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-36 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	2	2	0	0	4
26JUN SE	0	0	0	0	0	0	0	0	1	2	0	0	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	35	3	1	4	27	4	14	14	4	5	110
11JUL SE	0	0	30	3	1	4	9	2	14	5	2	3	36
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	4	67	2	1	21	21	1	2	8	10	0	136
26JUL SE	0	3	39	2	1	17	10	< 0.5	2	6	5	0	45
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	4	158	4	1	2	7	2	31	20	28	21	276
09AUG SE	0	3	71	2	1	2	5	1	21	9	12	19	79
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	19	38	24	0	0	1	1	2	8	83	130	306
23AUG SE	0	14	27	19	0	0	1	1	2	6	31	85	97
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	15	21	2	0	0	0	< 0.5	5	0	20	2	65
06SEP SE	0	9	12	2	0	0	0	< 0.5	5	0	14	2	21
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	2	29	4	2	0	0	1	3	12	4	0	56
20SEP SE	0	2	16	4	2	0	0	1	2	8	3	0	18
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	63	0	0	0	0	1	0	0	0	52	117
04OCT SE	0	0	36	0	0	0	0	1	0	0	0	34	49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	11	9	2	0	2	55	4	12	4	99
17OCT SE	0	0	0	9	6	2	0	1	29	4	8	4	33
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-37 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.11	0.28	6.15	9.28	16.59	2.24	NS	NS	NS	NS	NS	NS	4.95
15MAR SE	0.00	0.11	0.28	1.63	6.60	8.20	0.43							10.67
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	1.66	6.66	7.81	4.70	NS	NS	NS	NS	NS	NS	2.98
22MAR SE	0.00	0.00	0.00	0.94	3.31	3.34	1.66							5.07
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- DENSITY	0.00	0.00	0.00	0.37	1.06	4.81	5.07	NS	NS	NS	NS	NS	NS	1.62
28MAR SE	0.00	0.00	0.00	0.37	0.68	2.69	2.44							3.71
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.18	0.32	0.34	2.52	2.14	14.38	0.26	1.51	0.64	0.00	0.00	1.71
05APR SE	0.00	0.00	0.18	0.32	0.24	1.35	0.58	0.52	0.26	1.14	0.64	0.00	0.00	2.10
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- DENSITY	0.00	0.00	0.27	0.35	3.44	5.05	2.04	17.20	1.83	0.29	0.35	0.00	0.00	2.37
12APR SE	0.00	0.00	0.27	0.20	2.03	2.72	0.94	0.49	1.16	0.29	0.35	0.00	0.00	3.78
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- DENSITY	0.00	0.00	1.38	0.84	0.88	1.86	1.28	4.97	1.46	1.17	3.68	0.00	0.00	1.35
19APR SE	0.00	0.00	0.83	0.59	0.39	0.82	0.64	4.97	0.86	0.68	2.67	0.00	0.00	5.94
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- DENSITY	0.00	0.00	0.00	0.94	1.35	0.65	4.55	5.76	2.74	0.42	1.74	0.00	0.00	1.40
26APR SE	0.00	0.00	0.00	0.37	1.18	0.32	1.72	2.46	2.20	0.42	1.14	0.00	0.00	4.12
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- DENSITY	0.00	0.00	0.00	0.64	0.54	0.17	0.56	0.00	0.80	0.42	0.00	0.00	0.00	0.24
03MAY SE	0.00	0.00	0.00	0.42	0.49	0.17	0.56	0.00	0.50	0.42	0.00	0.00	0.00	1.09
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.00	0.00	0.00	0.15	0.63	0.18	0.50	0.19	0.16	0.47	0.00	0.00	0.00	0.18
10MAY SE	0.00	0.00	0.00	0.15	0.63	0.18	0.50	0.19	0.16	0.47	0.00	0.00	0.00	1.00
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.96	0.00	1.64	0.80	0.00	0.00	0.00	0.00	0.00	0.26
17MAY SE	0.00	0.00	0.00	0.00	0.51	0.00	0.78	0.65	0.00	0.00	0.00	0.00	0.00	1.14
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.84	0.15	0.00	0.24	0.00	1.82	0.00	0.00	0.24
24MAY SE	0.00	0.00	0.00	0.00	0.00	0.33	0.11	0.00	0.24	0.00	0.91	0.00	0.00	1.00
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	0.00	0.00	0.18	0.11	0.00	0.83	0.00	0.92	3.05	0.00	0.00	0.61	0.44
31MAY SE	0.00	0.00	0.00	0.18	0.06	0.00	0.41	0.00	0.59	2.31	0.00	0.00	0.61	2.50
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-37 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.24	0.23	0.00	0.18	0.00	0.00	0.29	1.27	0.00	5.54	0.60	
07JUN SE	0.00	0.00	0.00	0.24	0.14	0.00	0.13	0.00	0.00	0.29	0.52	0.00	3.23	3.30	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- DENSITY	0.00	0.00	0.00	0.23	0.25	0.00	0.56	0.23	0.00	1.77	0.32	0.00	0.58	0.30	
15JUN SE	0.00	0.00	0.00	0.23	0.14	0.00	0.40	0.23	0.00	0.75	0.32	0.00	0.58	1.13	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- DENSITY	0.00	0.00	0.00	0.26	0.04	0.59	0.24	0.00	0.00	0.30	0.69	0.00	0.92	0.23	
22JUN SE	0.00	0.00	0.00	0.26	0.04	0.59	0.15	0.00	0.00	0.30	0.40	0.00	0.92	1.24	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- DENSITY	0.00	0.00	0.00	0.24	0.04	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.07	
28JUN SE	0.00	0.00	0.00	0.24	0.04	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.37	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.13	0.00	NS	NS	NS	NS	NS	0.04	
11JUL SE	0.00	0.00	0.00	0.18	0.00	0.00	0.08	0.00	NS	NS	NS	NS	NS	0.20	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	0.00	0.21	0.05	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.03	
27JUL SE	0.00	0.00	0.00	0.21	0.05	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.21	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	NS	NS	NS	NS	NS	0.02	
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	NS	NS	NS	NS	NS	0.18	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.01	
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.05	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.01	
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.11	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.30	NS	NS	NS	NS	NS	0.07	
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.30	NS	NS	NS	NS	NS	0.34	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	NS	NS	NS	NS	NS	0.09	
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	NS	NS	NS	NS	NS	0.75	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-38 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	24	90	909	1934	3442	312	NS	NS	NS	NS	NS	NS	6712	2204
15MAR SE	0	24	90	241	1375	1702	61							74	
NO. TOWS	10	10	11	11	10	10	12								
20MAR- ST. CROP	0	0	0	246	1388	1621	657	NS	NS	NS	NS	NS	NS	3912	1014
22MAR SE	0	0	0	138	690	692	232							74	
NO. TOWS	10	10	11	11	10	10	12								
26MAR- ST. CROP	0	0	0	55	222	997	708	NS	NS	NS	NS	NS	NS	1982	671
28MAR SE	0	0	0	55	141	558	341							74	
NO. TOWS	10	10	11	11	10	10	12								
02APR- ST. CROP	0	0	59	47	71	522	299	4288	43	214	112	0	0	5655	
05APR SE	0	0	59	47	50	281	82	154	43	161	112	0	0	397	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR- ST. CROP	0	0	86	52	717	1047	285	5129	303	42	61	0	0	7721	
12APR SE	0	0	86	30	422	565	132	146	191	42	61	0	0	766	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR- ST. CROP	0	0	446	124	184	385	179	1483	242	166	648	0	0	3856	
19APR SE	0	0	267	87	80	170	89	1483	143	96	470	0	0	1604	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR- ST. CROP	0	0	0	138	281	134	637	1718	453	59	307	0	0	3727	
26APR SE	0	0	0	54	246	67	240	734	365	59	200	0	0	917	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR- ST. CROP	0	0	0	94	113	34	78	0	132	60	0	0	0	512	
03MAY SE	0	0	0	62	102	34	78	0	83	60	0	0	0	179	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY- ST. CROP	0	0	0	23	132	37	71	56	26	67	0	0	0	411	
10MAY SE	0	0	0	23	132	37	71	56	26	67	0	0	0	180	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY- ST. CROP	0	0	0	0	200	0	229	240	0	0	0	0	0	668	
17MAY SE	0	0	0	0	107	0	109	194	0	0	0	0	0	247	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY- ST. CROP	0	0	0	0	0	175	21	0	40	0	321	0	0	557	
24MAY SE	0	0	0	0	0	68	16	0	40	0	160	0	0	179	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY- ST. CROP	0	0	0	27	22	0	116	0	152	432	0	0	44	792	
31MAY SE	0	0	0	27	13	0	57	0	97	327	0	0	44	349	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-38 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	36	48	0	26	0	0	41	224	0	394	767	
07JUN SE	0	0	0	36	30	0	18	0	0	41	91	0	230	255	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST. CROP	0	0	0	34	53	0	78	68	0	251	56	0	41	579	
15JUN SE	0	0	0	34	28	0	56	68	0	106	56	0	41	160	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST. CROP	0	0	0	39	8	123	34	0	0	43	122	0	65	434	
22JUN SE	0	0	0	39	8	123	20	0	0	43	70	0	65	168	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST. CROP	0	0	0	36	8	0	93	0	0	0	0	0	0	137	
28JUN SE	0	0	0	36	8	0	39	0	0	0	0	0	0	53	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- ST. CROP	0	0	0	27	0	0	18	0	NS	NS	NS	NS	NS	44	
11JUL SE	0	0	0	27	0	0	11	0						29	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST. CROP	0	0	0	31	10	0	0	0	NS	NS	NS	NS	NS	40	
27JUL SE	0	0	0	31	10	0	0	0						32	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST. CROP	0	0	0	0	0	0	26	0	NS	NS	NS	NS	NS	26	
09AUG SE	0	0	0	0	0	0	26	0						26	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST. CROP	0	0	0	0	0	0	7	0	NS	NS	NS	NS	NS	7	
23AUG SE	0	0	0	0	0	0	7	0						7	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST. CROP	0	0	0	0	0	24	0	0	NS	NS	NS	NS	NS	24	
06SEP SE	0	0	0	0	0	24	0	0						24	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST. CROP	0	0	0	0	0	54	0	91	NS	NS	NS	NS	NS	144	
20SEP SE	0	0	0	0	0	32	0	91						96	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST. CROP	0	0	0	0	0	0	105	0	NS	NS	NS	NS	NS	105	
04OCT SE	0	0	0	0	0	0	105	0						105	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-39 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.06	0.02	0.04	0.10	0.00	0.04	0.14	3.59	3.56	3.20	0.83
04JUL SE	0.00	0.00	0.00	0.06	0.02	0.02	0.04	0.00	0.04	0.14	3.31	1.71	1.58	4.05
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.08	0.15	0.19	0.26	0.04	0.07	1.12	0.00	0.00	0.15
20JUL SE	0.00	0.00	0.00		0.05	0.10	0.12	0.22	0.03	0.07	0.89	0.00	0.00	0.93
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.04	0.04	0.14	0.06	0.25	0.41	0.02	0.00	0.00	0.14	0.22	0.10
02AUG SE	0.00	0.00	0.04	0.04	0.04	0.05	0.09	0.28	0.02	0.00	0.00	0.14	0.13	0.36
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.34	0.00	0.22	0.08	0.00	0.10	0.00	0.07	0.00	0.00	0.06
17AUG SE	0.00	0.00	0.00	0.22	0.00	0.20	0.04	0.00	0.04	0.00	0.07	0.00	0.00	0.31
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.09	0.02	0.00	0.00	0.00	0.00	0.01
31AUG SE	0.00	0.00	0.00	0.00	0.02	0.02	0.01	0.04	0.02	0.00	0.00	0.00	0.00	0.06
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.30	0.08	0.24	0.49	0.04	0.02	0.17	0.08	0.00	0.13	0.12
13SEP SE	0.00	0.00	0.00	0.21	0.05	0.23	0.24	0.04	0.02	0.10	0.08	0.00	0.13	0.44
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.18	0.07	0.01	0.15	0.42	0.09	0.41	0.28	0.00	0.14	0.13
27SEP SE	0.00	0.00	0.00	0.12	0.03	0.01	0.08	0.26	0.05	0.34	0.19	0.00	0.14	0.51
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.03	0.06	0.00	0.20	0.08	0.00	0.22	0.08	0.00	0.55	0.10
10OCT SE	0.00	0.00	0.00	0.03	0.04	0.00	0.13	0.04	0.00	0.22	0.08	0.00	0.41	0.49
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.02	0.00	0.00	0.01	0.02	0.27	0.19	0.09	0.10	0.10	0.04	0.06
24OCT SE	0.00	0.00	0.02	0.00	0.00	0.01	0.02	0.08	0.06	0.09	0.08	0.07	0.04	0.17
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.02	0.86	0.09	0.02	0.03	0.36	0.37	0.45	0.20	0.31	0.65	0.23	0.28
08NOV SE	0.00	0.02	0.78	0.04	0.01	0.02	0.09	0.10	0.15	0.10	0.09	0.28	0.10	0.87
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.05	0.26	0.11	0.18	0.03	0.70	1.08	0.99	1.32	0.76	0.03	0.00	0.42
21NOV SE	0.00	0.03	0.08	0.11	0.06	0.01	0.19	0.19	0.15	0.61	0.25	0.03	0.00	0.75
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-40 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	10	3	9	14	0	7	20	633	573	228	1497
04JUL SE	0	0	0	10	3	5	5	0	7	20	583	275	112	655
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	0	0	0	0	17	30	26	77	7	10	197	0	0	365
20JUL SE	0	0	0		11	21	17	67	5	10	157	0	0	173
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	14	7	28	13	35	123	4	0	0	22	16	262
02AUG SE	0	0	14	7	9	10	12	85	4	0	0	22	9	91
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	50	0	45	11	0	17	0	12	0	0	134
17AUG SE	0	0	0	32	0	41	6	0	7	0	12	0	0	54
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	5	7	1	27	4	0	0	0	0	44
31AUG SE	0	0	0	0	3	5	1	13	4	0	0	0	0	15
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	44	17	50	69	12	4	24	14	0	9	244
13SEP SE	0	0	0	31	11	48	34	12	4	14	14	0	9	72
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	0	27	14	3	21	124	14	58	49	0	10	320
27SEP SE	0	0	0	18	7	3	12	77	8	48	33	0	10	100
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	4	13	0	29	24	0	31	15	0	39	155
10OCT SE	0	0	0	4	8	0	18	11	0	31	15	0	29	51
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	5	0	0	1	2	80	32	12	18	16	3	170
24OCT SE	0	0	5	0	0	1	2	23	10	12	14	11	3	33
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	4	276	13	4	7	51	110	74	28	54	104	16	741
08NOV SE	0	4	250	6	3	4	13	28	25	14	16	44	7	258
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	11	83	17	37	6	99	323	163	187	135	5	0	1065
21NOV SE	0	6	24	17	13	3	27	57	25	87	45	5	0	124
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-41 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- CPUE	0.67	3.18	5.71	1.00	0.00	2.00	0.75	11.13	2.63	6.40	3.79	2.83	3.34
13JUN SE	0.33	2.79	2.97	0.58	0.00	2.00	0.41	2.01	0.80	2.10	1.15	0.81	5.68
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	1.36	1.71	2.33	1.67	6.00	3.38	4.13	7.88	4.27	5.16	7.33	3.77
26JUN SE	0.00	0.43	1.13	2.33	0.33	6.00	1.27	1.80	2.10	0.95	1.98	1.62	7.73
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.33	1.00	3.43	0.00	0.33	0.33	2.50	1.88	3.50	2.67	2.84	3.58	1.87
11JUL SE	0.33	0.47	1.29	0.00	0.33	0.33	1.79	0.67	1.15	0.72	0.81	0.87	3.02
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	1.33	1.36	1.00	0.80	0.67	3.40	2.20	0.40	1.33	4.90	1.86	1.60
26JUL SE	0.00	0.50	0.48	0.63	0.58	0.42	2.11	0.86	0.40	0.85	1.40	0.63	3.14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.13	1.93	1.60	1.00	0.67	7.20	4.40	1.80	3.33	13.30	7.43	3.57
09AUG SE	0.00	0.09	0.73	0.98	0.77	0.49	5.00	1.33	1.11	1.76	8.39	5.98	11.82
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.58	0.43	0.80	0.40	0.33	1.60	1.40	0.00	0.11	10.70	1.14	1.46
23AUG SE	0.00	0.36	0.23	0.80	0.40	0.21	0.93	0.60	0.00	0.11	5.96	0.99	6.23
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	1.04	1.14	1.80	0.00	0.00	0.00	1.60	4.00	0.33	1.70	1.57	1.10
06SEP SE	0.00	0.54	0.49	1.36	0.00	0.00	0.00	0.81	3.10	0.33	1.05	1.27	3.93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.04	0.21	0.00	0.20	0.00	0.00	0.40	1.20	0.67	0.30	0.43	0.29
20SEP SE	0.00	0.04	0.15	0.00	0.20	0.00	0.00	0.24	0.97	0.67	0.15	0.30	1.27
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.04	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.07
04OCT SE	0.00	0.04	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.42
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.60	7.80	0.67	0.70	0.29	0.95
17OCT SE	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.60	3.57	0.44	0.40	0.18	3.85
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-42 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	5	145	154	9	0	21	5	14	23	112	75	38	601
13JUN SE	3	127	80	5	0	21	3	2	7	37	23	11	158
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	62	46	22	4	64	24	5	68	75	101	100	571
26JUN SE	0	20	30	22	1	64	9	2	18	17	39	22	92
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	3	45	92	0	1	4	18	2	30	47	56	49	346
11JUL SE	3	21	35	0	1	4	13	1	10	13	16	12	50
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	61	36	9	2	7	24	3	3	23	96	25	291
26JUL SE	0	22	13	6	2	4	15	1	3	15	28	9	45
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	6	52	15	3	7	51	5	15	59	262	101	575
09AUG SE	0	4	20	9	2	5	36	2	10	31	165	81	191
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	27	12	7	1	4	11	2	0	2	211	16	291
23AUG SE	0	16	6	7	1	2	7	1	0	2	117	13	120
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	47	31	17	0	0	0	2	34	6	33	21	192
06SEP SE	0	25	13	13	0	0	0	1	27	6	21	17	49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	2	6	0	1	0	0	< 0.5	10	12	6	6	42
20SEP SE	0	2	4	0	1	0	0	< 0.5	8	12	3	4	16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	2	12	0	0	0	0	0	0	0	8	0	21
04OCT SE	0	2	8	0	0	0	0	0	0	0	6	0	10
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	0	4	0	0	1	67	12	14	4	101
17OCT SE	0	0	0	0	3	0	0	1	31	8	8	3	33
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-43 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.98	1.32	1.90	2.53	9.65	7.13	6.78	NS	NS	NS	NS	NS	NS	4.33	
15MAR	SE	0.71	0.79	0.54	0.78	8.28	2.62	1.66							8.95	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.34	0.10	0.70	4.99	3.55	2.66	1.68	NS	NS	NS	NS	NS	NS	2.00	
22MAR	SE	0.34	0.10	0.34	2.81	1.40	1.38	1.08							3.63	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	DENSITY	0.00	1.58	1.85	1.09	2.14	1.70	2.05	NS	NS	NS	NS	NS	NS	1.49	
28MAR	SE	0.00	1.18	1.85	0.64	0.99	1.11	0.20							2.73	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	1.60	6.48	1.58	1.36	0.16	0.32	0.00	2.25	0.00	6.08	0.00	0.00	0.46	1.56	
05APR	SE	1.21	2.61	0.69	0.46	0.16	0.23	0.00	1.48	0.00	4.01	0.00	0.00	0.46	5.25	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	DENSITY	0.00	1.75	1.94	1.72	4.75	0.09	0.34	1.54	0.78	0.30	0.00	0.00	0.00	1.02	
12APR	SE	0.00	1.26	0.67	0.58	3.87	0.09	0.34	0.61	0.46	0.30	0.00	0.00	0.00	4.26	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	0.26	3.44	6.60	0.21	0.06	0.00	0.00	0.59	1.96	2.69	5.57	1.58	3.68	2.05	
19APR	SE	0.26	1.36	3.35	0.21	0.06	0.00	0.00	0.59	0.90	1.01	2.00	0.92	2.49	5.14	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	DENSITY	0.43	2.19	1.58	3.08	0.18	0.47	1.20	1.06	1.66	1.66	1.33	2.66	2.50	1.54	
26APR	SE	0.43	1.01	0.67	0.69	0.18	0.01	0.45	0.66	0.50	1.10	0.75	0.69	1.22	2.60	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	DENSITY	0.97	0.95	0.99	1.43	2.29	1.21	1.35	0.36	0.16	2.97	0.00	0.59	6.41	1.51	
03MAY	SE	0.97	0.35	0.21	0.90	0.96	0.97	0.19	0.22	0.16	1.85	0.00	0.59	2.57	3.77	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.81	0.68	3.56	0.53	0.00	0.31	0.35	1.66	0.91	1.46	0.65	0.37	0.87	
10MAY	SE	0.00	0.50	0.45	1.42	0.32	0.00	0.24	0.35	0.79	0.46	0.83	0.65	0.37	2.20	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY-	DENSITY	0.00	0.64	1.03	0.78	2.83	0.09	3.41	1.35	0.34	0.00	0.52	0.00	0.00	0.85	
17MAY	SE	0.00	0.32	0.34	0.45	1.43	0.09	1.50	0.72	0.34	0.00	0.52	0.00	0.00	2.37	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY-	DENSITY	0.00	0.00	0.16	0.22	0.20	0.12	1.30	0.00	1.33	5.41	4.17	0.00	3.89	1.29	
24MAY	SE	0.00	0.00	0.16	0.22	0.20	0.12	0.48	0.00	0.92	2.49	2.62	0.00	0.07	3.78	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	DENSITY	0.00	0.00	1.43	2.08	0.27	0.00	0.43	0.14	0.51	4.59	0.70	0.00	0.00	0.78	
31MAY	SE	0.00	0.00	0.76	1.13	0.21	0.00	0.28	0.14	0.33	1.72	0.70	0.00	0.00	2.35	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-43 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	0.00	0.00	0.31	0.24	0.49	1.25	0.45	0.66	0.95	2.18	0.31	1.11	5.94	1.07
07JUN SE	0.00	0.00	0.31	0.24	0.36	1.03	0.30	0.42	0.81	0.94	0.31	0.79	4.75	5.14
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.69	0.13	1.16	0.51	0.71	1.91	0.86	0.16	2.46	3.92	1.04	0.00	1.04
15JUN SE	0.00	0.69	0.13	0.23	0.23	0.60	0.45	0.60	0.16	0.84	2.03	1.04	0.00	2.73
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.35	4.33	0.23	0.11	0.19	1.28	0.44	1.37	0.35	0.00	2.33	0.85
22JUN SE	0.00	0.00	0.22	2.53	0.14	0.11	0.14	0.92	0.29	0.97	0.35	0.00	1.24	3.17
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	0.00	3.54	0.50	3.25	0.14	0.54	1.68	0.21	0.50	0.31	3.08	1.12	1.06	1.23
28JUN SE	0.00	3.31	0.38	1.47	0.09	0.54	0.65	0.21	0.50	0.31	2.17	0.79	0.77	4.50
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	1.73	0.00	3.14	0.48	1.14	0.95	1.64	NS	NS	NS	NS	NS	1.13
11JUL SE	0.00	1.73	0.00	1.40	0.32	0.66	0.35	0.53	NS	NS	NS	NS	NS	2.43
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
24JUL- DENSITY	0.00	0.00	0.85	1.25	2.48	1.16	0.99	3.03	NS	NS	NS	NS	NS	1.22
27JUL SE	0.00	0.00	0.48	0.59	1.57	0.84	0.67	1.77	NS	NS	NS	NS	NS	2.71
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75
06AUG- DENSITY	0.00	0.00	0.00	0.19	0.70	0.90	0.83	0.50	NS	NS	NS	NS	NS	0.39
09AUG SE	0.00	0.00	0.00	0.19	0.16	0.18	0.36	0.25	NS	NS	NS	NS	NS	0.53
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG- DENSITY	0.00	0.00	0.00	0.58	0.00	0.37	0.05	0.82	NS	NS	NS	NS	NS	0.23
23AUG SE	0.00	0.00	0.00	0.30	0.00	0.23	0.05	0.82	NS	NS	NS	NS	NS	0.90
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	0.00	0.86	0.00	0.36	0.59	0.10	0.51	NS	NS	NS	NS	NS	0.30
06SEP SE	0.00	0.00	0.86	0.00	0.36	0.36	0.10	0.25	NS	NS	NS	NS	NS	1.04
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP- DENSITY	0.00	0.00	0.63	0.00	2.32	0.42	1.18	1.24	NS	NS	NS	NS	NS	0.72
20SEP SE	0.00	0.00	0.63	0.00	1.47	0.42	0.62	0.80	NS	NS	NS	NS	NS	1.94
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.18	0.47	0.30	NS	NS	NS	NS	NS	0.12
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.18	0.39	0.30	NS	NS	NS	NS	NS	0.52
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-44 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	204	304	612	374	2011	1480	948	NS	NS	NS	NS	NS	NS	5933
15MAR SE	149	182	173	116	1724	544	232							1850
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	72	23	225	737	739	552	235	NS	NS	NS	NS	NS	NS	2583
22MAR SE	72	23	110	415	291	286	151							616
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	362	594	162	446	352	286	NS	NS	NS	NS	NS	NS	2202
28MAR SE	0	271	594	95	206	230	28							729
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	335	1486	508	201	33	67	0	670	0	860	0	0	33	4193
05APR SE	253	598	223	68	33	48	0	442	0	568	0	0	33	999
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	401	624	254	991	19	48	458	130	42	0	0	0	2967
12APR SE	0	289	216	86	806	19	48	182	76	42	0	0	0	911
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	55	789	2123	31	13	0	0	174	325	380	982	253	262	5388
19APR SE	55	313	1079	31	13	0	0	174	149	143	353	149	177	1232
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	90	502	508	454	38	98	168	317	274	235	235	427	178	3523
26APR SE	90	231	217	102	38	3	62	196	83	155	132	111	87	480
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	203	218	320	211	477	251	189	106	26	420	0	95	456	2971
03MAY SE	203	81	67	133	201	201	27	65	26	261	0	95	183	516
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	186	218	526	110	0	43	103	275	129	257	105	26	1978
10MAY SE	0	116	144	210	67	0	34	103	130	65	147	105	26	386
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	147	332	115	590	19	476	402	55	0	91	0	0	2229
17MAY SE	0	73	111	67	298	19	210	215	55	0	91	0	0	461
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	53	32	42	24	182	0	220	765	734	0	276	2329
24MAY SE	0	0	53	32	42	24	66	0	153	352	463	0	5	610
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	460	308	56	0	60	43	84	650	123	0	0	1783
31MAY SE	0	0	245	167	43	0	39	43	54	243	123	0	0	412
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-44 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	101	35	101	260	62	198	156	308	55	179	423	1879
07JUN SE	0	0	101	35	75	214	42	126	134	132	55	126	338	499
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	158	42	171	106	147	267	255	27	348	691	168	0	2378
15JUN SE	0	158	42	34	48	123	63	179	27	119	359	168	0	503
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	114	640	47	22	27	382	73	194	62	0	166	1728
22JUN SE	0	0	72	374	28	22	19	275	48	137	62	0	88	505
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	811	161	481	29	112	235	63	83	44	542	180	76	2818
28JUN SE	0	759	121	217	20	112	91	63	83	44	382	127	54	915
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	396	0	464	100	236	133	489	NS	NS	NS	NS	NS	1818
11JUL SE	0	396	0	207	67	137	49	159						501
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	274	184	517	241	138	903	NS	NS	NS	NS	NS	2257
27JUL SE	0	0	154	87	328	174	94	529						676
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	28	145	186	116	150	NS	NS	NS	NS	NS	625
09AUG SE	0	0	0	28	32	37	50	75						107
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	86	0	78	7	244	NS	NS	NS	NS	NS	415
23AUG SE	0	0	0	44	0	48	7	244						253
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	277	0	76	123	14	151	NS	NS	NS	NS	NS	641
06SEP SE	0	0	277	0	76	74	14	76						307
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	204	0	483	87	164	368	NS	NS	NS	NS	NS	1306
20SEP SE	0	0	204	0	307	87	86	239						455
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	36	65	88	NS	NS	NS	NS	NS	190
04OCT SE	0	0	0	0	0	36	54	88						109
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-45 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.04	0.16	1.77	1.66	1.16	0.29	0.51	0.28	1.17	1.06	4.55	1.21	0.52	1.11
04JUL SE	0.04	0.08	0.60	0.42	0.45	0.08	0.17	0.11	0.49	0.68	4.41	0.50	0.34	4.61
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.04	0.09	0.63	0.00	1.29	0.52	1.39	1.03	0.35	1.29	0.39	1.83	1.70	0.81
20JUL SE	0.04	0.04	0.17		0.53	0.34	0.40	0.16	0.08	0.83	0.19	1.09	0.40	1.64
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.09	1.88	2.93	0.65	0.65	1.12	0.65	1.46	2.67	0.84	6.59	1.50
02AUG SE	0.00	0.00	0.09	0.83	1.12	0.36	0.25	0.36	0.34	0.88	2.15	0.48	3.21	4.29
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.18	1.20	1.26	0.53	0.07	1.03	0.24	0.54	3.22	1.03	0.38	1.82	0.89
17AUG SE	0.00	0.08	0.45	0.57	0.16	0.03	0.33	0.23	0.17	1.02	0.23	0.21	0.74	1.56
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.46	0.38	1.07	0.29	0.41	0.86	1.30	0.89	1.51	0.29	8.46	1.22
31AUG SE	0.00	0.00	0.08	0.16	0.35	0.11	0.18	0.21	0.50	0.51	0.77	0.15	4.25	4.41
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.24	2.27	1.84	0.88	0.09	1.06	0.04	0.70	1.30	1.42	0.35	5.07	1.17
13SEP SE	0.00	0.11	0.85	0.53	0.59	0.03	0.31	0.04	0.17	0.18	0.62	0.18	0.95	1.69
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	1.76	0.62	0.58	0.07	0.29	0.57	0.99	1.84	2.78	0.17	8.02	1.36
27SEP SE	0.00	0.00	0.74	0.31	0.25	0.03	0.11	0.17	0.48	0.60	0.99	0.17	3.06	3.42
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.34	0.39	0.47	1.04	0.25	1.58	0.53	0.70	1.52	0.64	0.67	1.09	0.71
10OCT SE	0.00	0.12	0.18	0.25	0.40	0.10	1.09	0.15	0.26	0.46	0.45	0.49	0.81	1.69
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.05	0.27	0.00	0.11	0.00	0.03	0.27	0.15	0.06	0.46	0.03	0.05	0.11
24OCT SE	0.00	0.04	0.23	0.00	0.10	0.00	0.02	0.10	0.07	0.04	0.20	0.03	0.05	0.35
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.66	1.14	0.19	0.03	0.01	0.40	0.15	0.28	0.28	0.35	0.32	0.23	0.31
08NOV SE	0.00	0.18	0.54	0.06	0.02	0.01	0.08	0.07	0.13	0.19	0.12	0.11	0.12	0.66
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.22	1.20	1.05	0.47	0.07	0.02	0.12	0.39	0.31	0.36	0.63	0.03	0.17	0.39
21NOV SE	0.20	0.42	0.31	0.19	0.04	0.01	0.09	0.16	0.08	0.17	0.26	0.03	0.17	0.72
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-46 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	8	38	569	246	242	61	71	84	194	150	801	194	37	2695
04JUL SE	8	19	192	62	93	17	23	34	80	97	777	80	24	824
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	8	21	202	0	269	109	194	306	58	183	68	294	121	1832
20JUL SE	8	10	55		110	71	56	46	14	118	34	175	28	269
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	28	277	611	135	91	334	107	206	471	135	469	2865
02AUG SE	0	0	28	123	234	76	35	109	56	125	379	77	229	557
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	42	387	186	111	15	144	73	89	455	182	61	130	1874
17AUG SE	0	19	146	84	33	7	46	69	27	144	40	34	52	253
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	149	56	222	60	58	255	215	126	265	47	602	2056
31AUG SE	0	0	25	23	73	23	25	63	82	73	135	24	303	366
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	55	730	272	184	19	148	12	116	184	250	56	361	2388
13SEP SE	0	26	273	79	123	7	44	12	29	25	109	29	68	343
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	566	91	121	14	40	170	164	260	491	27	571	2516
27SEP SE	0	0	239	46	51	6	16	52	80	85	175	27	217	397
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	79	124	70	216	53	221	158	116	215	112	108	78	1550
10OCT SE	0	28	56	37	83	22	152	44	43	65	80	79	57	244
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	12	86	0	23	0	5	80	25	8	82	6	3	329
24OCT SE	0	9	73	0	21	0	3	31	12	5	34	6	3	91
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	152	367	27	6	2	57	43	46	40	62	52	16	871
08NOV SE	0	42	174	9	3	2	12	21	22	26	21	17	8	186
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	46	275	339	69	15	4	17	117	51	50	111	5	12	1113
21NOV SE	41	97	101	28	9	3	13	47	13	24	46	5	12	166
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-47 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.27	1.43	0.00	0.00	5.33	1.13	6.00	2.25	4.00	2.53	2.42	2.11
13JUN SE	0.00	0.27	0.61	0.00	0.00	4.37	0.64	2.78	0.96	0.91	0.72	0.73	5.52
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.67	0.64	0.14	3.00	1.67	0.00	1.75	2.00	2.38	2.93	4.63	6.75	2.21
26JUN SE	0.67	0.31	0.14	2.52	0.67	0.00	0.77	0.65	1.02	0.76	1.22	2.61	4.27
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.33	1.45	4.14	2.00	0.67	1.33	1.50	2.25	2.63	1.60	2.74	2.58	1.94
11JUL SE	0.33	0.31	1.45	0.58	0.67	0.33	0.89	0.65	0.38	0.51	0.84	0.80	2.48
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.79	2.43	0.40	1.60	0.83	2.80	1.00	2.20	0.56	5.00	1.43	1.59
26JUL SE	0.00	0.32	1.17	0.24	1.36	0.48	1.02	0.77	0.58	0.34	2.03	0.57	3.19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.80	0.88	2.07	0.80	1.00	0.33	9.80	1.20	0.20	1.89	2.60	4.57	2.18
09AUG SE	0.58	0.35	1.02	0.58	0.77	0.21	7.19	0.97	0.20	1.23	1.69	2.73	8.18
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.20	1.17	0.50	0.80	0.60	0.00	1.40	0.60	0.00	0.56	3.40	1.43	0.89
23AUG SE	0.20	0.42	0.36	0.80	0.60	0.00	1.40	0.40	0.00	0.24	2.03	0.72	2.86
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.20	1.08	1.43	0.60	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.34
06SEP SE	0.20	0.45	1.14	0.40	0.20	0.00	0.20	0.00	0.20	0.00	0.13	0.00	1.35
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.60	0.13	0.50	1.20	0.20	0.00	0.00	0.20	0.20	0.22	0.30	1.14	0.39
20SEP SE	0.60	0.07	0.23	0.37	0.20	0.00	0.00	0.20	0.20	0.22	0.21	0.86	1.23
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	23.00	0.50	1.21	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	2.08
04OCT SE	18.36	0.38	0.88	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	18.39
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	3.00	0.54	0.43	1.40	2.60	0.17	0.00	0.00	0.00	0.11	0.40	0.71	0.78
17OCT SE	1.84	0.35	0.29	0.60	1.17	0.17	0.00	0.00	0.00	0.11	0.31	0.71	2.44
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-48 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	12	38	0	0	57	8	7	19	70	50	33	295
13JUN SE	0	12	16	0	0	47	5	3	8	16	14	10	57
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	5	29	4	28	4	0	12	2	20	51	91	92	339
26JUN SE	5	14	4	23	2	0	5	1	9	13	24	35	54
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	3	66	111	18	2	14	11	3	23	28	54	35	367
11JUL SE	3	14	39	5	2	4	6	1	3	9	17	11	48
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	36	65	4	4	9	20	1	19	10	98	19	286
26JUL SE	0	14	31	2	4	5	7	1	5	6	40	8	55
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	6	40	56	7	3	4	70	1	2	33	51	62	334
09AUG SE	4	16	27	5	2	2	51	1	2	22	33	37	81
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	2	53	13	7	2	0	10	1	0	10	67	19	184
23AUG SE	2	19	10	7	2	0	10	< 0.5	0	4	40	10	48
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	2	49	38	6	1	0	1	0	2	0	4	0	102
06SEP SE	2	20	31	4	1	0	1	0	2	0	3	0	37
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	5	6	13	11	1	0	0	< 0.5	2	4	6	16	63
20SEP SE	5	3	6	3	1	0	0	< 0.5	2	4	4	12	16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	173	23	33	0	0	0	1	0	0	0	0	0	230
04OCT SE	138	17	24	0	0	0	1	0	0	0	0	0	141
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	23	25	12	13	7	2	0	0	0	2	8	10	100
17OCT SE	14	16	8	6	3	2	0	0	0	2	6	10	26
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-49 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	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
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY SE	0.00	0.00	0.00	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
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY SE	0.00	0.00	0.00	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
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY SE	0.00	0.00	0.00	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
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY SE	0.00	0.00	0.00	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 D-49 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-50 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-51 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	2.73	2.38	0.00	0.17	0.00	NS	NS	NS	NS	NS	NS	0.75	
15MAR	SE	0.00	0.00	1.40	0.90	0.00	0.11	0.00							1.67	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.00	0.00	0.00	0.73	1.65	0.58	0.00	NS	NS	NS	NS	NS	NS	0.42	
22MAR	SE	0.00	0.00	0.00	0.49	0.96	0.58	0.00							1.23	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	DENSITY	0.00	0.00	0.26	0.67	0.00	0.48	0.00	NS	NS	NS	NS	NS	NS	0.20	
28MAR	SE	0.00	0.00	0.26	0.50	0.00	0.48	0.00							0.74	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
05APR	SE	0.00	0.00	0.00	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	
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12APR	SE	0.00	0.00	0.00	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	
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19APR	SE	0.00	0.00	0.00	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	
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26APR	SE	0.00	0.00	0.00	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	
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03MAY	SE	0.00	0.00	0.00	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	
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10MAY	SE	0.00	0.00	0.00	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	
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17MAY	SE	0.00	0.00	0.00	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	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24MAY	SE	0.00	0.00	0.00	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	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31MAY	SE	0.00	0.00	0.00	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 D-51 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-52 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	877	351	0	36	0	NS	NS	NS	NS	NS	NS	1264	
15MAR SE	0	0	451	133	0	22	0							470	
NO. TOWS	10	10	11	11	10	10	12							74	
20MAR- ST. CROP	0	0	0	108	343	121	0	NS	NS	NS	NS	NS	NS	572	
22MAR SE	0	0	0	73	200	121	0							245	
NO. TOWS	10	10	11	11	10	10	12							74	
26MAR- ST. CROP	0	0	84	100	0	99	0	NS	NS	NS	NS	NS	NS	283	
28MAR SE	0	0	84	74	0	99	0							149	
NO. TOWS	10	10	11	11	10	10	12							74	
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05APR 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	
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12APR 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	
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19APR 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	
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26APR 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	
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03MAY 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	
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10MAY 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	
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17MAY 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	
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24MAY 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	
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31MAY 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 D-52 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-53 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	1.08	11.43	2.40	1.85	0.54	0.00	NS	NS	NS	NS	NS	NS	2.47	
15MAR	SE	0.00	0.83	5.52	1.20	0.87	0.54	0.00							5.80	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.00	0.72	12.29	14.94	48.30	1.02	0.53	NS	NS	NS	NS	NS	NS	11.11	
22MAR	SE	0.00	0.36	6.41	6.97	23.04	0.67	0.53							24.93	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	DENSITY	0.00	0.53	2.26	18.13	25.36	9.28	0.69	NS	NS	NS	NS	NS	NS	8.04	
28MAR	SE	0.00	0.35	1.15	6.82	15.48	9.10	0.43							19.25	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	3.93	4.17	7.17	8.92	24.44	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	3.74	
05APR	SE	1.87	1.07	2.28	2.92	14.70	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	15.31	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	DENSITY	0.00	5.58	31.23	19.29	9.17	0.00	0.00	0.00	11.49	0.00	0.00	0.00	0.00	5.90	
12APR	SE	0.00	5.58	26.74	10.67	6.95	0.00	0.00	0.00	11.49	0.00	0.00	0.00	0.00	32.26	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	6.57	27.25	53.17	0.37	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	6.77	
19APR	SE	1.92	17.95	30.76	0.37	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	35.68	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	DENSITY	1.19	14.35	5.58	23.23	35.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.15	
26APR	SE	0.75	4.31	1.97	8.28	21.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.82	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	DENSITY	16.93	4.68	6.08	7.49	14.73	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	3.88	
03MAY	SE	9.84	3.63	2.64	3.18	7.71	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	13.66	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.11	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
10MAY	SE	0.00	0.11	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY-	DENSITY	0.00	0.00	0.38	0.00	1.16	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
17MAY	SE	0.00	0.00	0.22	0.00	0.97	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31MAY	SE	0.00	0.00	0.00	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 D-53 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	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	11	13	14	13	8	10	6							81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	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	11	13	14	13	8	10	6							81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	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	11	13	14	13	8	10	6							81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-54 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	249	3677	354	386	113	0	NS	NS	NS	NS	NS	NS	4778
15MAR SE	0	190	1775	178	181	113	0							1807
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	164	3955	2207	10063	212	74	NS	NS	NS	NS	NS	NS	16675
22MAR SE	0	82	2062	1030	4801	138	74							5328
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	122	728	2679	5284	1926	97	NS	NS	NS	NS	NS	NS	10836
28MAR SE	0	80	369	1008	3225	1888	59							3889
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	821	956	2307	1318	5091	0	6	0	0	0	0	0	0	10499
05APR SE	391	245	734	431	3062	0	6	0	0	0	0	0	0	3211
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	1280	10050	2849	1910	0	0	0	1902	0	0	0	0	17991
12APR SE	0	1280	8606	1576	1447	0	0	0	1902	0	0	0	0	9160
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	1373	6252	17111	55	0	0	0	0	0	100	0	0	0	24891
19APR SE	401	4117	9900	55	0	0	0	0	0	100	0	0	0	10730
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	249	3292	1794	3433	7429	0	0	0	0	0	0	0	0	16197
26APR SE	158	988	635	1223	4545	0	0	0	0	0	0	0	0	4853
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	3538	1075	1956	1107	3069	0	71	0	0	0	0	0	0	10815
03MAY SE	2057	832	849	470	1605	0	65	0	0	0	0	0	0	2907
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	25	0	0	0	184	0	0	0	0	0	0	0	210
10MAY SE	0	25	0	0	0	184	0	0	0	0	0	0	0	186
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	123	0	242	84	0	0	0	0	0	0	0	448
17MAY SE	0	0	71	0	201	84	0	0	0	0	0	0	0	229
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	28	0	0	0	0	0	0	0	28
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-54 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-55 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
26APR	SE	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR-	DENSITY	29.50	2.76	0.90	5.90	18.70	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	4.49
03MAY	SE	10.30	1.33	0.45	3.38	7.74	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	13.40
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	10.77	8.61	4.31	13.80	30.84	6.44	1.89	0.55	0.00	0.00	0.00	0.00	0.00	5.94
10MAY	SE	0.63	5.66	1.26	6.00	9.76	1.55	0.99	0.37	0.00	0.00	0.00	0.00	0.00	12.99
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	16.83	10.15	12.18	7.60	34.45	3.81	2.36	1.44	0.17	0.00	0.00	0.00	0.00	6.85
17MAY	SE	2.74	7.41	5.30	3.87	4.55	1.50	1.37	0.71	0.17	0.00	0.00	0.00	0.00	11.44
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	11.20	1.63	1.49	3.21	9.96	22.21	12.88	1.05	1.22	1.98	0.00	0.00	0.00	5.14
24MAY	SE	11.20	1.02	0.67	1.30	2.74	6.57	5.14	0.64	1.22	1.28	0.00	0.00	0.00	14.47
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	11.59	2.81	1.79	7.89	3.36	1.59	2.05	0.29	0.00	0.00	0.00	0.00	0.00	2.41
31MAY	SE	5.30	0.92	0.57	2.16	1.18	1.00	0.67	0.29	0.00	0.00	0.00	0.00	0.00	6.07
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-55 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	0.00	4.95	1.01	4.24	3.44	1.90	1.73	1.73	0.16	0.98	0.00	0.00	0.00	0.00	1.55
07JUN	SE	0.00	2.66	0.68	1.19	0.75	1.00	0.69	0.90	0.16	0.64	0.00	0.00	0.00	0.00	3.50
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN-	DENSITY	6.94	6.09	1.88	1.62	2.35	0.77	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.59
15JUN	SE	3.63	2.32	0.53	0.46	0.87	0.49	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN-	DENSITY	10.76	1.18	5.40	6.96	3.91	1.73	0.81	0.57	0.00	0.00	0.00	0.00	0.00	0.00	2.41
22JUN	SE	2.66	1.04	1.87	3.28	1.76	0.67	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	5.12
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN-	DENSITY	5.46	1.89	1.44	2.82	0.86	0.97	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07
28JUN	SE	3.27	1.67	0.78	0.75	0.39	0.62	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL-	DENSITY	2.42	5.62	6.82	0.54	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	1.92
11JUL	SE	2.42	3.01	3.34	0.36	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	5.12
	NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL-	DENSITY	0.00	0.81	0.39	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.15
27JUL	SE	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.39
	NO. TOWS	4	7	13	14	13	8	10	6							75
08AUG-	DENSITY	4.46	0.00	0.40	3.16	1.34	0.31	0.20	0.00	NS	NS	NS	NS	NS	NS	1.23
09AUG	SE	4.46	0.00	0.24	2.20	0.86	0.31	0.13	0.00	NS	NS	NS	NS	NS	NS	5.06
	NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG-	DENSITY	0.00	0.00	0.00	0.82	0.16	0.52	0.61	0.00	NS	NS	NS	NS	NS	NS	0.26
23AUG	SE	0.00	0.00	0.00	0.58	0.16	0.38	0.31	0.00	NS	NS	NS	NS	NS	NS	0.77
	NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	1.32	0.74	NS	NS	NS	NS	NS	NS	0.27
06SEP	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.64	0.74	NS	NS	NS	NS	NS	NS	0.98
	NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.22	0.40	0.33	NS	NS	NS	NS	NS	NS	0.12
20SEP	SE	0.00	0.00	0.00	0.00	0.00	0.22	0.35	0.33	NS	NS	NS	NS	NS	NS	0.53
	NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.18	0.37	0.00	NS	NS	NS	NS	NS	NS	0.07
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.18	0.37	0.00	NS	NS	NS	NS	NS	NS	0.41
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-56 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	73	0	0	0	0	0	0	0	0	0	0	0	73	73
26APR SE	0	73	0	0	0	0	0	0	0	0	0	0	0	73	73
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
30APR- ST. CROP	6165	633	291	872	3897	0	87	0	0	0	0	0	0	11945	11945
03MAY SE	2152	306	146	499	1613	0	54	0	0	0	0	0	0	2757	2757
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY- ST. CROP	2251	1975	1388	2038	6424	1336	264	164	0	0	0	0	0	15841	15841
10MAY SE	132	1298	406	886	2034	322	138	111	0	0	0	0	0	2631	2631
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	3519	2329	3919	1123	7177	791	331	429	28	0	0	0	0	19645	19645
17MAY SE	574	1701	1707	571	948	311	191	211	28	0	0	0	0	2746	2746
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	2341	374	479	474	2075	4608	1801	313	202	281	0	0	0	12949	12949
24MAY SE	2341	234	215	192	571	1363	719	191	202	181	0	0	0	2903	2903
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	2422	645	575	1166	701	329	286	86	0	0	0	0	0	6210	6210
31MAY SE	1108	212	183	319	245	206	94	86	0	0	0	0	0	1236	1236
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-56 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	ALL
04JUN- ST. CROP	0	1134	324	626	716	395	242	515	26	139	0	0	0	4117
07JUN SE	0	610	220	176	156	208	97	268	26	90	0	0	0	781
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	1451	1398	604	239	490	159	150	0	0	0	0	0	0	4490
15JUN SE	758	532	170	68	181	101	70	0	0	0	0	0	0	969
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	2249	270	1739	1028	814	358	113	169	0	0	0	0	0	6739
22JUN SE	556	239	601	485	368	139	50	107	0	0	0	0	0	1063
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	1142	433	465	416	179	201	63	0	0	0	0	0	0	2899
28JUN SE	684	383	250	110	81	130	43	0	0	0	0	0	0	845
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	507	1288	2194	80	0	0	0	0	NS	NS	NS	NS	NS	4069
11JUL SE	507	690	1076	53	0	0	0	0	NS	NS	NS	NS	NS	1376
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	186	124	0	0	0	0	0	NS	NS	NS	NS	NS	310
27JUL SE	0	0	124	0	0	0	0	0						124
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	931	0	128	466	280	65	27	0	NS	NS	NS	NS	NS	1897
09AUG SE	931	0	76	325	179	65	18	0						1008
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	121	34	109	85	0	NS	NS	NS	NS	NS	349
23AUG SE	0	0	0	86	34	79	43	0						129
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	25	184	220	NS	NS	NS	NS	NS	429
06SEP SE	0	0	0	0	0	25	90	220						239
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	46	56	99	NS	NS	NS	NS	NS	200
20SEP SE	0	0	0	0	0	46	48	99						119
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	36	52	0	NS	NS	NS	NS	NS	89
04OCT SE	0	0	0	0	0	36	52	0						64
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-57 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN-	DENSITY	2.30	3.93	0.91	1.35	0.88	0.49	0.04	0.05	0.00	0.00	0.00	0.12	0.00	0.77
04JUL	SE	0.61	1.13	0.31	0.48	0.20	0.26	0.03	0.05	0.00	0.00	0.00	0.12	0.00	1.45
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL-	DENSITY	1.93	3.81	0.66	0.00	1.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
20JUL	SE	0.45	1.66	0.38		0.95	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
	NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL-	DENSITY	0.14	2.78	0.44	0.76	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
02AUG	SE	0.08	0.90	0.37	0.34	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22
	NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG-	DENSITY	0.93	2.30	0.19	0.23	0.91	0.56	0.20	0.02	0.00	0.07	0.00	0.00	0.00	0.42
17AUG	SE	0.45	1.05	0.08	0.15	0.70	0.28	0.09	0.02	0.00	0.07	0.00	0.00	0.00	1.38
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG-	DENSITY	0.00	0.00	0.28	0.08	0.14	0.45	0.68	0.33	0.02	0.00	0.00	0.00	0.00	0.15
31AUG	SE	0.00	0.00	0.10	0.08	0.06	0.22	0.21	0.22	0.02	0.00	0.00	0.00	0.00	0.40
	NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP-	DENSITY	0.00	0.25	0.11	0.09	0.09	0.28	0.67	0.14	0.00	0.09	0.08	0.00	0.00	0.14
13SEP	SE	0.00	0.09	0.06	0.04	0.04	0.08	0.14	0.05	0.00	0.09	0.08	0.00	0.00	0.24
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP-	DENSITY	0.06	0.08	0.04	0.03	0.06	0.27	0.20	0.16	0.08	0.09	0.19	0.31	0.00	0.12
27SEP	SE	0.06	0.08	0.04	0.03	0.04	0.11	0.16	0.06	0.04	0.09	0.11	0.31	0.00	0.42
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.00	0.00	0.02	0.03	0.00	0.54	0.16	0.26	0.13	0.26	0.00	0.00	0.00	0.11
10OCT	SE	0.00	0.00	0.02	0.03	0.00	0.12	0.09	0.11	0.07	0.18	0.00	0.00	0.00	0.27
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.01
24OCT	SE	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	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
04NOV-	DENSITY	0.00	0.00	0.00	0.02	0.02	0.05	0.01	0.05	0.05	0.00	0.00	0.03	0.00	0.02
08NOV	SE	0.00	0.00	0.00	0.02	0.01	0.02	0.01	0.04	0.03	0.00	0.00	0.03	0.00	0.06
	NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.00	0.02	0.02	0.09	0.02	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01
21NOV	SE	0.00	0.02	0.02	0.04	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05
	NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-58 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
30JUN- ST. CROP	481	903	292	199	183	101	5	14	0	0	0	19	0	0	2197
04JUL SE	127	260	100	70	42	53	4	14	0	0	0	19	0	0	322
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	403	874	214	0	235	2	0	0	0	0	0	0	0	0	1728
20JUL SE	95	382	121	198	198	2	0	0	0	0	0	0	0	0	457
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	29	637	142	112	252	0	0	0	0	0	0	0	0	0	1172
02AUG SE	16	206	117	50	135	0	0	0	0	0	0	0	0	0	278
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	195	527	61	34	190	117	27	5	0	10	0	0	0	0	1165
17AUG SE	93	240	27	21	145	58	12	5	0	10	0	0	0	0	304
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	91	11	29	93	95	98	3	0	0	0	0	0	420
31AUG SE	0	0	33	11	13	45	30	66	3	0	0	0	0	0	93
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	58	34	14	19	58	94	42	0	12	14	0	0	0	346
13SEP SE	0	20	19	6	8	17	20	13	0	12	14	0	0	0	45
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	13	19	12	4	12	57	28	47	12	13	33	50	0	0	300
27SEP SE	13	19	12	4	9	23	22	19	6	13	19	50	0	0	72
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	8	4	0	112	23	79	21	37	0	0	0	0	283
10OCT SE	0	0	8	4	0	25	13	34	11	25	0	0	0	0	53
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	0	0	0	0	5	0	9	2	0	0	0	0	0	16
24OCT SE	0	0	0	0	0	3	0	6	2	0	0	0	0	0	7
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
04NOV- ST. CROP	0	0	0	3	4	11	1	15	9	0	0	5	0	0	47
08NOV SE	0	0	0	3	3	3	1	11	5	0	0	5	0	0	14
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	4	5	13	5	0	0	0	0	4	0	0	0	0	30
21NOV SE	0	4	5	6	3	0	0	0	0	4	0	0	0	0	10
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-59 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-60 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-61 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9		
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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 D-61 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-62 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-62 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-63 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
20JUL SE	0.05	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
24OCT SE	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01
08NOV SE	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.07
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.03	0.00	0.12	0.01	0.00	0.00	0.03	0.00	0.08	0.02	0.00	0.00	0.02
21NOV SE	0.00	0.02	0.00	0.07	0.01	0.00	0.00	0.02	0.00	0.08	0.02	0.00	0.00	0.11
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-64 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	10	0	0	0	0	0	0	0	0	0	0	0	0	10
20JUL SE	10	0	0	0	0	0	0	0	0	0	0	0	0	10
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	4	0	0	0	0	0	0	0	0	0	0	0	0	4
24OCT SE	4	0	0	0	0	0	0	0	0	0	0	0	0	4
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	0	19	0	0	0	0	0	0	4	0	0	0	23
08NOV SE	0	0	19	0	0	0	0	0	0	4	0	0	0	19
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	8	0	17	2	0	0	9	0	11	4	0	0	51
21NOV SE	0	5	0	10	2	0	0	6	0	11	4	0	0	18
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-65 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-66 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-67 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- 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
05APR 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	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.11
03MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.00	1.44
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
10MAY SE	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	31.65	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.96
17MAY SE	14.17	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.57
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	666.14	3733.34	1269.54	27.65	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	438.46
24MAY SE	189.12	1020.74	850.91	9.01	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1342.31
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	2115.74	343.04	7.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	189.70
31MAY SE	1054.06	258.52	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	1085.30
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-67 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	3713.26	7791.84	3028.85	516.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1157.76
07JUN SE	948.35	3991.79	705.55	516.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4195.08
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	4140.75	792.87	0.86	1.12	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	379.69
15JUN SE	1248.05	509.87	0.86	0.87	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1348.18
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	1865.50	8572.52	284.24	0.42	1.05	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	824.95
22JUN SE	382.42	3009.57	124.12	0.42	0.95	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	3036.31
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	35178.05	665.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2757.21
28JUN SE	6417.08	533.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6439.25
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	52298.09	41023.69	1709.70	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	11878.94
11JUL SE	40796.96	18966.84	555.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44993.79
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
24JUL- DENSITY	15132.54	1154.71	200.61	20.38	0.39	0.00	0.00	8.25	NS	NS	NS	NS	NS	2064.61
27JUL SE	10380.74	74.57	97.33	9.27	0.34	0.00	0.00	8.25	0.00	0.00	0.00	0.00	0.00	10381.47
NO. TOWS	4	7	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	75
08AUG- DENSITY	7124.78	4928.59	259.47	126.75	103.74	0.41	0.72	0.00	NS	NS	NS	NS	NS	1568.06
09AUG SE	1808.71	1498.15	128.43	49.77	60.30	0.25	0.36	0.00	0.00	0.00	0.00	0.00	0.00	2353.40
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
20AUG- DENSITY	146.38	194.99	10.05	6.84	22.82	0.00	0.00	0.00	NS	NS	NS	NS	NS	47.64
23AUG SE	63.24	86.24	3.43	3.08	20.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108.94
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
04SEP- DENSITY	1.83	0.00	0.49	0.00	1326.06	0.00	0.00	0.00	NS	NS	NS	NS	NS	166.05
06SEP SE	1.83	0.00	0.49	0.00	1209.41	0.00	0.00	0.00	NS	NS	NS	NS	NS	1209.41
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.01
20SEP SE	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81

TABLE D-68 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	27	0	0	0	0	0	0	0	0	0	27
05APR SE	0	0	0	27	0	0	0	0	0	0	0	0	0	27
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	232	0	232
03MAY SE	0	0	0	0	0	0	0	0	0	0	0	232	0	232
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	146	0	0	0	0	0	0	0	0	0	0	0	0	146
10MAY SE	146	0	0	0	0	0	0	0	0	0	0	0	0	146
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	6615	1561	0	0	0	0	0	0	0	0	0	0	0	8176
17MAY SE	2962	1481	0	0	0	0	0	0	0	0	0	0	0	3311
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	139232	856505	408554	4086	697	0	0	0	0	0	0	0	0	1409074
24MAY SE	39528	234178	273833	1331	621	0	0	0	0	0	0	0	0	362475
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	442217	78699	2295	0	0	0	0	0	0	0	45	0	0	523256
31MAY SE	220312	59309	983	0	0	0	0	0	0	0	45	0	0	228158
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-68 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST.CROP	776120	1787606	974718	76362	0	0	0	0	0	0	0	0	0	0	3614805
07JUN SE	198217	915798	227053	76362	0	0	0	0	0	0	0	0	0	0	967140
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- ST.CROP	865468	181901	278	165	84	0	0	0	0	0	0	0	0	0	1047896
15JUN SE	260858	116975	278	128	66	0	0	0	0	0	0	0	0	0	285885
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN- ST.CROP	389914	1966709	91470	62	219	0	0	0	0	0	120	0	0	0	2448494
22JUN SE	79931	690457	39942	62	197	0	0	0	0	0	120	0	0	0	696215
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN- ST.CROP	7352656	152708	0	0	0	0	0	0	0	0	0	0	0	0	7505364
28JUN SE	1341251	122485	0	0	0	0	0	0	0	0	0	0	0	0	1346832
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL- ST.CROP	10930973	9411667	550202	0	0	0	0	0	NS	NS	NS	NS	NS	NS	20892842
11JUL SE	8527091	4351377	178809	0	0	0	0	0	NS	NS	NS	NS	NS	NS	9574849
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- ST.CROP	3162894	264913	64559	3011	81	0	0	2459	NS	NS	NS	NS	NS	NS	3497918
27JUL SE	2169707	17108	31321	1370	70	0	0	2459							2170002
NO. TOWS	4	7	13	14	13	8	10	6							75
08AUG- ST.CROP	1489170	1130719	83499	18725	21613	85	100	0	NS	NS	NS	NS	NS	NS	2743912
09AUG SE	378044	343706	41329	7352	12564	52	50	0							512807
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- ST.CROP	30595	44735	3235	1011	4755	0	0	0	NS	NS	NS	NS	NS	NS	84331
23AUG SE	13217	19785	1103	456	4223	0	0	0							24195
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- ST.CROP	382	0	157	0	276267	0	0	0	NS	NS	NS	NS	NS	NS	276806
06SEP SE	382	0	157	0	251963	0	0	0							251964
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- ST.CROP	0	0	0	0	16	0	0	0	NS	NS	NS	NS	NS	NS	16
20SEP SE	0	0	0	0	16	0	0	0							16
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-69 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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	126

TABLE D-69 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	0.00	1.31	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
07JUN	SE	0.00	1.31	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN	SE	0.00	0.00	0.00	0.00	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	6	123
18JUN-	DENSITY	1.24	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
22JUN	SE	1.24	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN-	DENSITY	178.00	13.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.76
28JUN	SE	61.97	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.67
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL-	DENSITY	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.11
11JUL	SE	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.87
	NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL-	DENSITY	0.00	63.78	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	7.97
27JUL	SE	0.00	63.78	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	63.78
	NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
23AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-70 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-70 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
04JUN- ST. CROP	0	302	537	0	0	0	0	0	0	0	0	0	0	839
07JUN SE	0	302	332	0	0	0	0	0	0	0	0	0	0	449
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	260	166	0	0	0	0	0	0	0	0	0	0	0	426
22JUN SE	260	166	0	0	0	0	0	0	0	0	0	0	0	308
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	37204	3198	0	0	0	0	0	0	0	0	0	0	0	40402
28JUN SE	12953	2143	0	0	0	0	0	0	0	0	0	0	0	13129
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	182	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	182
11JUL SE	182	0	0	0	0	0	0	0	0	0	0	0	0	182
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
24JUL- ST. CROP	0	14632	0	0	0	0	0	0	NS	NS	NS	NS	NS	14632
27JUL SE	0	14632	0	0	0	0	0	0	0	0	0	0	0	14632
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81

TABLE D-71 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.34	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.05	0.05
22MAR	SE	0.34	0.00	0.00	0.00	0.00	0.00	0.00							0.34	0.34
	NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
19APR	SE	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
03MAY	SE	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04
24MAY	SE	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY-	DENSITY	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
31MAY	SE	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.17
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-71 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN-	DENSITY	18.63	73.70	24.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.95
07JUN	SE	10.87	37.66	20.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.45
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN-	DENSITY	3.32	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
15JUN	SE	1.54	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN-	DENSITY	5.19	6.42	0.45	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.94
22JUN	SE	2.64	2.77	0.35	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	3.84
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN-	DENSITY	215.85	125.59	12.33	0.00	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.41
28JUN	SE	58.96	40.19	6.94	0.00	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.73
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL-	DENSITY	267.89	374.29	172.91	18.12	0.15	0.00	0.00	0.00	NS	NS	NS	NS	NS	104.17
11JUL	SE	68.30	96.41	86.69	6.49	0.11	0.00	0.00	0.00	NS	NS	NS	NS	NS	146.69
	NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL-	DENSITY	1593.53	2610.07	2919.74	1195.28	311.65	46.16	24.85	10.74	NS	NS	NS	NS	NS	1089.00
27JUL	SE	323.28	1159.36	1069.40	342.85	44.96	9.40	12.77	2.73	NS	NS	NS	NS	NS	1646.83
	NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG-	DENSITY	693.14	776.40	756.12	450.63	461.83	88.18	524.51	103.49	NS	NS	NS	NS	NS	481.79
09AUG	SE	310.15	454.76	103.99	90.43	109.45	35.98	226.41	86.33	NS	NS	NS	NS	NS	627.68
	NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG-	DENSITY	624.57	522.57	998.69	1757.36	588.89	144.10	207.76	77.39	NS	NS	NS	NS	NS	615.17
23AUG	SE	90.97	101.57	215.00	332.70	174.04	51.13	47.60	30.70	NS	NS	NS	NS	NS	460.02
	NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP-	DENSITY	458.71	396.55	289.32	610.63	982.63	154.52	143.30	29.29	NS	NS	NS	NS	NS	383.12
06SEP	SE	107.29	104.33	60.04	220.06	336.82	136.42	42.46	10.77	NS	NS	NS	NS	NS	456.52
	NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP-	DENSITY	97.58	86.14	330.74	365.12	204.82	40.83	265.63	41.05	NS	NS	NS	NS	NS	178.99
20SEP	SE	50.75	28.10	49.80	21.38	45.75	15.28	83.60	8.52	NS	NS	NS	NS	NS	125.26
	NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT-	DENSITY	40.44	77.30	89.27	42.99	44.63	22.46	6.79	46.84	NS	NS	NS	NS	NS	46.34
04OCT	SE	20.40	19.72	21.51	8.24	13.59	9.83	3.05	26.67	NS	NS	NS	NS	NS	48.35
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-72 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	72	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	72
22MAR SE	72	0	0	0	0	0	0							72
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	30	0	0	0	0	0	0	0	0	0	0	0	30
19APR SE	0	30	0	0	0	0	0	0	0	0	0	0	0	30
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	54	0	0	0	0	0	0	0	0	0	0	54
03MAY SE	0	0	54	0	0	0	0	0	0	0	0	0	0	54
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	103	0	0	0	0	0	0	0	0	103
24MAY SE	0	0	0	0	103	0	0	0	0	0	0	0	0	103
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	245	0	0	0	0	0	0	0	0	0	0	0	0	245
31MAY SE	245	0	0	0	0	0	0	0	0	0	0	0	0	245
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-72 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	3894	16908	7742	0	0	0	0	0	0	0	0	0	0	28544
07JUN SE	2272	8640	6745	0	0	0	0	0	0	0	0	0	0	11194
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	695	115	0	0	0	0	0	0	0	0	0	0	0	810
15JUN SE	323	115	0	0	0	0	0	0	0	0	0	0	0	343
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	1086	1473	146	0	0	0	20	0	0	0	0	0	0	2724
22JUN SE	552	635	114	0	0	0	20	0	0	0	0	0	0	849
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	45115	28814	3967	0	526	0	0	0	0	0	0	0	0	78422
28JUN SE	12323	9221	2234	0	526	0	0	0	0	0	0	0	0	15561
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	55991	85870	55646	2677	32	0	0	0	NS	NS	NS	NS	NS	200217
11JUL SE	14275	22119	27897	959	23	0	0	0	0	0	0	0	0	38369
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
24JUL- ST. CROP	333069	598804	939606	176587	64929	9576	3474	3201	NS	NS	NS	NS	NS	2129245
27JUL SE	67569	265980	344145	50651	9367	1950	1785	815	0	0	0	0	0	443179
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75
08AUG- ST. CROP	144876	178123	243327	66575	96216	18293	73321	30854	NS	NS	NS	NS	NS	851586
09AUG SE	64826	104332	33465	13360	22802	7463	31651	25736	0	0	0	0	0	136476
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
20AUG- ST. CROP	130543	119888	321389	259627	122687	29894	29043	23073	NS	NS	NS	NS	NS	1036144
23AUG SE	19014	23301	69189	49152	36258	10607	6655	9153	0	0	0	0	0	98299
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
04SEP- ST. CROP	95875	90977	93106	90212	204717	32055	20032	8733	NS	NS	NS	NS	NS	635708
06SEP SE	22424	23936	19320	32511	70173	28302	5936	3210	0	0	0	0	0	90977
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
17SEP- ST. CROP	20396	19762	106437	53941	42672	8471	37133	12238	NS	NS	NS	NS	NS	301050
20SEP SE	10608	6446	16025	3159	9530	3171	11686	2539	0	0	0	0	0	25783
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
01OCT- ST. CROP	8453	17734	28729	6352	9297	4660	950	13965	NS	NS	NS	NS	NS	90141
04OCT SE	4263	4524	6923	1217	2831	2039	426	7951	0	0	0	0	0	12791
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81

TABLE D-73 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	4.33	1.05	0.53	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.84	
15MAR	SE	1.11	0.41	0.37	0.00	0.00	0.00	0.00							1.24	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.33	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.05	
22MAR	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	12							74	
26MAR-	DENSITY	0.21	0.10	0.00	0.00	0.00	0.08	0.00	NS	NS	NS	NS	NS	NS	0.06	
28MAR	SE	0.21	0.10	0.00	0.00	0.00	0.08	0.00							0.24	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	2.41	0.68	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	
05APR	SE	1.51	0.44	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	DENSITY	0.00	0.35	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	
12APR	SE	0.00	0.26	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	1.97	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	
19APR	SE	0.69	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	DENSITY	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
26APR	SE	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	DENSITY	0.48	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	
03MAY	SE	0.48	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10MAY	SE	0.00	0.00	0.00	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	
15MAY-	DENSITY	0.00	0.00	0.44	0.68	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	
17MAY	SE	0.00	0.00	0.44	0.51	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY-	DENSITY	2.89	0.79	0.16	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	
24MAY	SE	0.57	0.62	0.16	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31MAY	SE	0.00	0.00	0.00	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 D-73 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN	SE	0.00	0.00	0.00	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
11JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN	SE	0.00	0.00	0.00	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
18JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN	SE	0.00	0.00	0.00	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
25JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN	SE	0.00	0.00	0.00	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
09JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11JUL	SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
24JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01
27JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75
08AUG-	DENSITY	10.31	21.76	17.70	5.25	0.28	0.73	5.92	2.27	NS	NS	NS	NS	NS	8.03
09AUG	SE	6.44	8.14	9.87	2.52	0.24	0.73	4.10	1.75	NS	NS	NS	NS	NS	15.23
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG-	DENSITY	20.37	61.50	196.41	132.32	34.34	28.80	31.76	13.21	NS	NS	NS	NS	NS	64.84
23AUG	SE	11.02	9.94	60.88	30.84	24.84	19.45	9.51	6.26	NS	NS	NS	NS	NS	77.48
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
04SEP-	DENSITY	86.14	200.87	116.42	188.02	171.24	11.59	64.14	12.62	NS	NS	NS	NS	NS	106.38
06SEP	SE	9.79	43.04	20.08	74.73	50.34	5.93	20.29	4.79	NS	NS	NS	NS	NS	104.59
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP-	DENSITY	46.08	110.30	327.90	516.99	187.65	46.19	183.32	41.62	NS	NS	NS	NS	NS	182.51
20SEP	SE	27.89	30.45	38.41	64.53	106.37	36.78	64.54	9.06	NS	NS	NS	NS	NS	155.76
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
01OCT-	DENSITY	5.21	29.75	63.35	166.84	81.05	6.48	44.91	50.53	NS	NS	NS	NS	NS	56.01
04OCT	SE	3.74	6.26	14.86	33.83	24.21	1.76	18.06	33.15	NS	NS	NS	NS	NS	58.59
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-74 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	ST. CROP	905	242	170	0	0	0	0	NS	NS	NS	NS	NS	NS	1317	
15MAR	SE	232	93	120	0	0	0	0							277	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	ST. CROP	70	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	70	
22MAR	SE	70	0	0	0	0	0	0							70	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	ST. CROP	43	22	0	0	0	17	0	NS	NS	NS	NS	NS	NS	83	
28MAR	SE	43	22	0	0	0	17	0							52	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	ST. CROP	504	157	0	113	0	0	0	0	0	0	0	0	0	774	
05APR	SE	315	100	0	44	0	0	0	0	0	0	0	0	0	334	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	ST. CROP	0	80	181	0	0	0	0	0	0	0	0	0	0	261	
12APR	SE	0	60	132	0	0	0	0	0	0	0	0	0	0	145	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	ST. CROP	412	765	0	0	0	0	0	0	0	0	0	0	0	1176	
19APR	SE	145	506	0	0	0	0	0	0	0	0	0	0	0	526	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	ST. CROP	0	0	119	0	0	0	0	0	0	0	0	0	0	119	
26APR	SE	0	0	119	0	0	0	0	0	0	0	0	0	0	119	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	ST. CROP	101	0	0	28	0	0	0	0	0	0	0	0	0	129	
03MAY	SE	101	0	0	28	0	0	0	0	0	0	0	0	0	105	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10MAY	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	
15MAY-	ST. CROP	0	0	143	101	98	0	0	0	0	0	0	0	0	341	
17MAY	SE	0	0	143	75	98	0	0	0	0	0	0	0	0	189	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY-	ST. CROP	604	181	52	153	0	0	0	0	0	0	0	0	0	990	
24MAY	SE	119	143	52	100	0	0	0	0	0	0	0	0	0	217	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31MAY	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 D-74 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
24JUL- ST. CROP	0	0	0	0	0	0	7	0	NS	NS	NS	NS	NS	7	7
27JUL SE	0	0	0	0	0	0	7	0	0	0	0	0	0	7	7
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75	75
06AUG- ST. CROP	2155	4991	5697	776	58	151	827	675	NS	NS	NS	NS	NS	15331	15331
09AUG SE	1347	1868	3175	373	50	151	574	522	NS	NS	NS	NS	NS	4019	4019
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
20AUG- ST. CROP	4258	14109	63206	19548	7154	5975	4440	3938	NS	NS	NS	NS	NS	122628	122628
23AUG SE	2304	2281	19592	4555	5175	4035	1330	1867	NS	NS	NS	NS	NS	21527	21527
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
04SEP- ST. CROP	18004	46084	37464	27778	35676	2403	8967	3764	NS	NS	NS	NS	NS	180141	180141
06SEP SE	2045	9874	6461	11040	10487	1231	2836	1429	NS	NS	NS	NS	NS	19670	19670
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
17SEP- ST. CROP	9632	25304	105523	76379	39094	9583	25627	12407	NS	NS	NS	NS	NS	303550	303550
20SEP SE	5829	6985	12361	9534	22161	7630	9022	2701	NS	NS	NS	NS	NS	31056	31056
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
01OCT- ST. CROP	1089	6826	20385	24648	16886	1344	6278	15063	NS	NS	NS	NS	NS	92519	92519
04OCT SE	781	1437	4784	4999	5044	365	2525	9883	NS	NS	NS	NS	NS	13423	13423
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81

TABLE D-75 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
20JUL SE	0.00	0.27	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	2.62	106.96	21.78	64.06	0.71	0.39	0.00	1.79	0.00	0.00	0.00	0.00	15.26
02AUG SE	0.00	2.58	33.74	8.52	22.44	0.37	0.38	0.00	1.33	0.00	0.00	0.00	0.00	41.51
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.64	64.84	36.73	35.75	66.31	25.66	33.17	19.25	64.29	14.62	10.57	1.05	0.00	28.68
17AUG SE	0.19	26.97	12.96	12.83	34.09	5.74	13.26	5.33	30.89	3.63	10.34	1.05	0.00	59.46
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	9.40	25.60	24.20	32.28	152.11	61.74	93.48	58.42	30.49	39.84	54.59	13.00	19.43	47.28
31AUG SE	4.69	10.28	4.97	18.11	79.79	19.83	34.49	23.39	20.68	13.68	30.04	4.68	9.18	102.95
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	7.16	49.66	37.70	48.60	206.56	67.50	114.27	66.36	43.27	63.74	17.74	39.11	3.71	58.88
13SEP SE	3.39	20.42	7.55	18.54	95.50	35.09	60.83	51.66	26.20	20.76	12.62	9.47	3.16	137.57
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	6.74	65.17	59.75	59.92	82.34	91.18	137.42	177.48	44.63	75.33	58.10	14.61	0.85	67.19
27SEP SE	2.98	21.30	7.56	11.66	29.16	27.83	81.65	67.64	21.52	32.90	15.28	11.17	0.50	124.20
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	37.81	43.32	30.38	21.42	43.20	47.23	83.89	114.29	11.63	47.68	22.88	4.06	0.00	39.06
10OCT SE	14.22	17.20	6.11	4.60	10.25	10.44	39.43	26.02	3.93	19.79	21.50	1.88	0.00	62.26
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.21	0.62	1.41	0.50	0.16	0.47	0.71	0.05	0.00	0.03	0.00	0.00	0.00	0.32
24OCT SE	0.07	0.23	0.67	0.22	0.07	0.09	0.13	0.02	0.00	0.03	0.00	0.00	0.00	0.77
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.20	0.46	0.27	0.49	0.18	0.03	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.14
08NOV SE	0.09	0.13	0.11	0.15	0.06	0.02	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.27
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.99	1.40	0.28	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
21NOV SE	0.21	0.44	0.11	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-76 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL SE	0	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	8	210
16JUL- ST. CROP	0	61	0	0	0	0	0	0	0	0	0	0	0	0	61
20JUL SE	0	61	0	0	0	0	0	0	0	0	0	0	0	0	61
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	0	601	34422	3217	13346	148	55	0	297	0	0	0	0	0	52087
02AUG SE	0	592	10857	1259	4676	77	52	0	220	0	0	0	0	0	11905
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	133	14877	11819	5282	13814	5323	4637	5739	10639	2068	1863	169	0	0	76363
17AUG SE	41	6188	4170	1896	7103	1190	1853	1589	5112	514	1824	169	0	0	12118
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	1965	5873	7787	4769	31691	12808	13068	17417	5045	5636	9624	2090	1382	119155	
31AUG SE	981	2359	1600	2675	16622	4115	4822	6973	3423	1936	5295	751	653	20636	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	1497	11392	12134	7180	43033	14004	15974	19784	7161	9017	3128	6286	264	150853	
13SEP SE	708	4685	2431	2740	19896	7280	8504	15401	4336	2937	2225	1522	225	28791	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	1409	14952	19228	8852	17155	18916	19210	52912	7385	10657	10242	2348	61	183326	
27SEP SE	623	4887	2434	1723	6075	5773	11413	20166	3561	4655	2694	1796	36	26175	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	7903	9938	9776	3165	9000	9799	11726	34073	1925	6746	4034	653	0	108738	
10OCT SE	2973	3947	1967	679	2136	2166	5512	7759	651	2800	3791	302	0	12301	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	44	141	454	74	32	98	100	14	0	4	0	0	0	0	961
24OCT SE	16	53	217	32	15	19	19	7	0	4	0	0	0	0	228
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
04NOV- ST. CROP	41	106	87	72	37	6	19	14	0	0	0	0	0	0	382
08NOV SE	19	30	35	22	12	4	11	14	0	0	0	0	0	0	58
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	207	321	91	55	0	0	0	0	0	0	0	0	0	0	674
21NOV SE	44	102	36	41	0	0	0	0	0	0	0	0	0	0	124
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-77 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- CPUE	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
26JUN SE	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.56
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- CPUE	0.20	9.33	0.64	8.40	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	1.56
26JUL SE	0.20	4.68	0.37	4.74	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	6.67
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	53.80	124.50	1.43	6.60	4.00	7.83	0.00	4.20	2.20	0.22	1.00	0.71	17.21
09AUG SE	25.63	59.37	0.82	3.53	2.51	4.34	0.00	3.01	0.97	0.22	0.56	0.71	65.04
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	85.60	69.04	75.00	218.60	12.60	9.17	22.20	19.00	5.00	0.00	0.20	7.57	43.66
23AUG SE	54.25	19.56	17.94	139.40	5.65	4.99	21.95	8.11	2.72	0.00	0.20	7.57	154.11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	34.33	9.57	4.20	4.40	1.33	0.00	0.00	3.20	0.00	0.00	0.14	4.77
06SEP SE	0.00	14.78	4.96	2.69	4.40	0.61	0.00	0.00	2.52	0.00	0.00	0.14	16.63
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	31.80	43.33	20.07	49.40	305.80	80.83	0.00	3.40	4.60	0.00	0.30	0.00	44.96
20SEP SE	19.85	17.67	13.13	19.08	192.21	51.12	0.00	3.40	3.49	0.00	0.15	0.00	202.05
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	5.58	45.14	0.00	0.20	48.50	0.40	42.00	9.20	0.00	2.10	0.00	12.76
04OCT SE	0.00	2.96	19.09	0.00	0.20	22.20	0.24	42.00	6.37	0.00	2.10	0.00	51.72
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	1.40	14.42	2.14	0.60	177.00	174.33	2.20	48.00	0.00	0.11	0.70	0.00	35.08
17OCT SE	1.17	11.28	2.07	0.40	114.62	89.09	1.74	29.60	0.00	0.11	0.37	0.00	148.61
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-78 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	23	0	0	0	0	0	0	0	0	1	24
26JUN SE	0	0	15	0	0	0	0	0	0	0	0	1	15
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	2	424	17	77	0	0	0	0	2	0	0	0	522
26JUL SE	2	212	10	44	0	0	0	0	2	0	0	0	217
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	405	5657	38	61	11	83	0	5	19	4	20	10	6313
09AUG SE	193	2697	22	33	7	46	0	4	8	4	11	10	2705
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	645	3137	2017	2015	33	98	158	24	43	0	4	103	8275
23AUG SE	409	889	482	1285	15	53	156	10	23	0	4	103	1697
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	1560	257	39	12	14	0	0	28	0	0	2	1911
06SEP SE	0	672	133	25	12	7	0	0	22	0	0	2	686
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	239	1969	540	455	806	861	0	4	40	0	6	0	4920
20SEP SE	149	803	353	176	507	545	0	4	30	0	3	0	1173
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	254	1214	0	1	517	3	52	79	0	41	0	2160
04OCT SE	0	134	513	0	1	236	2	52	55	0	41	0	587
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	11	655	58	6	466	1857	16	60	0	2	14	0	3143
17OCT SE	9	513	56	4	302	949	12	37	0	2	7	0	1122
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-79 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	7.72	4.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	1.67
15MAR	SE	1.99	1.50	0.00	0.00	0.00	0.00	0.00							2.49
	NO. TOWS	10	10	11	11	10	10	12							74
20MAR-	DENSITY	19.94	1.56	1.65	0.47	0.11	0.00	0.00	NS	NS	NS	NS	NS	NS	3.39
22MAR	SE	2.04	1.11	0.69	0.29	0.11	0.00	0.00							2.45
	NO. TOWS	10	10	11	11	10	10	12							74
26MAR-	DENSITY	0.44	2.11	2.79	2.22	1.11	0.00	0.00	NS	NS	NS	NS	NS	NS	1.24
28MAR	SE	0.44	0.96	1.17	1.04	0.32	0.00	0.00							1.92
	NO. TOWS	10	10	11	11	10	10	12							74
02APR-	DENSITY	3.50	7.11	0.52	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08
05APR	SE	1.36	1.74	0.32	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR-	DENSITY	0.00	1.19	5.81	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
12APR	SE	0.00	1.03	2.63	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR-	DENSITY	0.33	3.42	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
19APR	SE	0.33	1.85	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR-	DENSITY	0.00	0.10	1.25	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
26APR	SE	0.00	0.10	0.69	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR-	DENSITY	0.00	0.09	2.17	1.81	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
03MAY	SE	0.00	0.09	0.77	1.81	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	0.00	0.09	0.85	9.60	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
10MAY	SE	0.00	0.09	0.43	5.10	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.14
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	4.10	2.24	3.14	4.10	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
17MAY	SE	1.90	1.34	2.33	1.56	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	47.53	28.13	29.68	18.89	4.67	2.19	0.94	0.00	0.00	0.00	0.00	0.00	0.00	10.16
24MAY	SE	34.31	19.25	5.12	3.97	2.46	1.04	0.55	0.00	0.00	0.00	0.00	0.00	0.00	39.96
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	95.02	82.80	42.78	54.13	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.29
31MAY	SE	20.44	25.38	7.74	17.10	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.63
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-79 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	42.79	61.03	59.68	23.96	4.88	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	14.87
07JUN SE	35.31	20.97	25.24	5.13	2.68	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	48.56
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- DENSITY	19.24	46.00	17.55	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.42
15JUN SE	8.02	9.06	8.78	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.96
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN- DENSITY	4.48	90.82	17.41	17.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.01
22JUN SE	3.20	32.40	6.52	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.27
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN- DENSITY	89.68	47.75	11.21	1.52	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.56
28JUN SE	25.30	30.18	4.81	1.06	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.69
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL- DENSITY	45.29	95.14	53.67	8.61	0.66	1.29	2.62	0.50	NS	NS	NS	NS	NS	NS	25.97
11JUL SE	10.29	16.78	23.84	3.29	0.62	1.29	0.33	0.50	NS	NS	NS	NS	NS	NS	31.13
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
24JUL- DENSITY	11.54	16.53	46.23	16.99	9.88	2.37	0.17	0.00	NS	NS	NS	NS	NS	NS	12.96
27JUL SE	5.65	11.13	17.50	6.20	2.31	1.69	0.11	0.00	NS	NS	NS	NS	NS	NS	22.56
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	75
08AUG- DENSITY	14.80	20.22	5.87	4.97	0.75	0.16	6.70	0.00	NS	NS	NS	NS	NS	NS	6.68
09AUG SE	6.15	6.29	1.24	1.30	0.27	0.16	2.82	0.00	NS	NS	NS	NS	NS	NS	9.42
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
20AUG- DENSITY	6.53	3.84	9.83	4.65	3.17	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	3.50
23AUG SE	5.83	2.78	2.92	1.58	1.76	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	7.48
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	10.16	4.29	3.82	1.66	0.96	1.31	0.00	NS	NS	NS	NS	NS	NS	2.78
06SEP SE	0.00	5.04	2.37	2.33	0.91	0.63	0.93	0.00	NS	NS	NS	NS	NS	NS	6.21
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
17SEP- DENSITY	3.38	5.56	2.22	10.61	14.40	1.38	1.98	0.00	NS	NS	NS	NS	NS	NS	4.94
20SEP SE	3.38	3.61	1.23	5.53	8.40	1.38	1.37	0.00	NS	NS	NS	NS	NS	NS	11.44
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	6.02	4.53	1.82	0.98	0.36	6.89	0.27	NS	NS	NS	NS	NS	NS	2.61
04OCT SE	0.00	3.47	3.37	1.82	0.98	0.36	3.30	0.27	NS	NS	NS	NS	NS	NS	6.22
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81

TABLE D-80 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	1614	918	0	0	0	0	0	NS	NS	NS	NS	NS	NS	2532
15MAR SE	416	344	0	0	0	0	0							540
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	4167	359	531	70	23	0	0	NS	NS	NS	NS	NS	NS	5151
22MAR SE	427	256	221	43	23	0	0							547
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	93	484	896	328	231	0	0	NS	NS	NS	NS	NS	NS	2032
28MAR SE	93	220	377	154	67	0	0							477
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	732	1631	167	427	0	0	0	0	0	0	0	0	0	2957
05APR SE	283	400	104	132	0	0	0	0	0	0	0	0	0	518
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	273	1868	166	0	0	0	0	0	0	0	0	0	2307
12APR SE	0	236	846	125	0	0	0	0	0	0	0	0	0	887
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	68	784	639	0	0	0	0	0	0	0	0	0	0	1492
19APR SE	68	424	414	0	0	0	0	0	0	0	0	0	0	596
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	22	403	393	0	0	0	0	0	0	0	0	0	819
26APR SE	0	22	221	203	0	0	0	0	0	0	0	0	0	301
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	22	697	268	13	0	0	0	0	0	0	0	0	1000
03MAY SE	0	22	247	268	13	0	0	0	0	0	0	0	0	366
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	20	273	1418	99	0	0	0	0	0	0	0	0	1810
10MAY SE	0	20	140	754	99	0	0	0	0	0	0	0	0	773
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	857	514	1010	606	145	0	0	0	0	0	0	0	0	3132
17MAY SE	397	307	751	231	108	0	0	0	0	0	0	0	0	939
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	9934	6455	9550	2791	973	455	131	0	0	0	0	0	0	30288
24MAY SE	7171	4416	1649	587	513	217	77	0	0	0	0	0	0	8620
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	19860	18995	13767	7998	433	0	0	0	0	0	0	0	0	61052
31MAY SE	4273	5822	2492	2527	274	0	0	0	0	0	0	0	0	8051
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-80 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	8943	14001	19206	3540	1016	0	0	0	0	0	178	0	0	46886
07JUN SE	7380	4812	8123	758	558	0	0	0	0	0	178	0	0	12022
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	4022	10554	5647	105	0	0	0	0	0	0	0	0	0	20328
15JUN SE	1677	2080	2825	43	0	0	0	0	0	0	0	0	0	3888
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	936	20837	5602	2584	0	0	0	0	0	0	0	0	0	29958
22JUN SE	668	7434	2099	1249	0	0	0	0	0	0	0	0	0	7853
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	18743	10956	3609	225	20	0	0	0	0	0	0	0	0	33554
28JUN SE	5287	6924	1548	156	20	0	0	0	0	0	0	0	0	8850
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	9466	21827	17271	1272	137	267	367	148	NS	NS	NS	NS	NS	50754
11JUL SE	2152	3849	7671	486	129	267	47	148						8868
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	2412	3793	14878	2510	2058	492	24	0	NS	NS	NS	NS	NS	26166
27JUL SE	1182	2554	5632	916	481	351	16	0						6390
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- ST. CROP	3094	4638	1888	734	156	32	936	0	NS	NS	NS	NS	NS	11478
09AUG SE	1286	1443	399	192	56	32	394	0						2023
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	1365	881	3164	687	661	0	0	0	NS	NS	NS	NS	NS	6759
23AUG SE	1219	639	941	234	366	0	0	0						1722
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	2330	1379	564	346	200	184	0	NS	NS	NS	NS	NS	5003
06SEP SE	0	1156	763	344	190	132	130	0						1452
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	706	1276	715	1568	3000	286	277	0	NS	NS	NS	NS	NS	7828
20SEP SE	706	829	396	817	1751	286	191	0						2278
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	1381	1457	269	205	74	964	82	NS	NS	NS	NS	NS	4431
04OCT SE	0	796	1084	269	205	74	461	82						1466
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-81 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	37.29	55.16	3.33	0.00	0.32	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	7.39
04JUL SE	14.20	31.66	1.47	0.00	0.32	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	34.73
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	43.03	29.28	17.85	61.05	11.91	0.94	2.53	0.68	0.00	0.36	0.00	0.00	0.00	12.89
20JUL SE	25.79	6.57	11.04		7.20	0.71	1.83	0.35	0.00	0.36	0.00	0.00	0.00	29.77
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	1.30	6.99	1.75	3.20	6.92	0.28	0.44	0.50	0.02	0.33	1.04	0.00	0.00	1.75
02AUG SE	0.55	1.87	1.01	1.00	4.26	0.25	0.37	0.34	0.02	0.33	1.04	0.00	0.00	5.04
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	1.19	2.05	0.44	0.67	2.91	0.46	0.37	0.60	0.47	1.39	2.07	0.50	0.00	1.01
17AUG SE	0.75	1.06	0.15	0.30	2.45	0.30	0.33	0.60	0.47	1.39	2.07	0.50	0.00	3.87
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	11.07	2.16	1.16	0.14	0.39	0.01	0.01	0.00	0.00	0.72	0.00	0.00	0.00	1.20
31AUG SE	4.98	2.05	0.34	0.08	0.31	0.01	0.01	0.00	0.00	0.72	0.00	0.00	0.00	5.45
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	6.12	2.27	1.09	0.54	6.89	1.93	0.04	0.00	0.00	1.62	0.00	0.00	0.00	1.58
13SEP SE	2.90	0.83	0.48	0.20	2.68	1.43	0.04	0.00	0.00	1.16	0.00	0.00	0.00	4.47
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.31	0.73	0.49	0.37	1.07	1.85	0.39	0.00	0.41	0.68	0.00	0.00	0.00	0.48
27SEP SE	0.19	0.30	0.18	0.15	0.68	0.74	0.39	0.00	0.41	0.43	0.00	0.00	0.00	1.30
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	1.97	2.07	0.96	0.19	2.27	1.18	0.05	1.92	0.44	0.22	0.93	0.52	0.00	0.98
10OCT SE	1.70	0.84	0.53	0.13	1.02	0.54	0.04	0.95	0.44	0.22	0.93	0.52	0.00	2.74
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.14	0.89	1.58	0.77	0.16	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.28
24OCT SE	0.04	0.24	0.74	0.49	0.08	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.92
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	1.05	0.04	0.32	0.19	0.12	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.14
08NOV SE	0.29	0.03	0.15	0.09	0.06	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.35
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.31	0.49	0.08	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
21NOV SE	0.14	0.25	0.06	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-82 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	7795	12655	1072	0	67	0	3	0	0	0	0	0	0	21592
04JUL SE	2969	7263	475	0	66	0	3	0	0	0	0	0	0	7861
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	8994	6718	5744	9019	2482	196	353	203	0	51	0	0	0	33760
20JUL SE	5390	1508	3553		1501	146	255	105	0	51	0	0	0	6805
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	272	1604	565	472	1442	58	61	149	4	47	184	0	0	4858
02AUG SE	115	428	326	148	887	52	52	101	4	47	184	0	0	1078
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	248	471	142	99	606	95	51	178	78	197	365	81	0	2610
17AUG SE	157	242	47	44	510	63	46	178	78	197	365	81	0	754
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	2314	495	374	21	82	2	1	0	0	102	0	0	0	3389
31AUG SE	1041	471	109	12	66	2	1	0	0	102	0	0	0	1154
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	1279	521	350	80	1436	400	6	0	0	230	0	0	0	4302
13SEP SE	606	191	156	29	559	297	6	0	0	164	0	0	0	925
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	65	167	156	55	224	383	55	0	68	96	0	0	0	1269
27SEP SE	40	68	58	22	141	153	55	0	68	61	0	0	0	254
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	413	475	308	28	473	244	7	573	73	31	165	84	0	2874
10OCT SE	355	193	170	19	212	111	6	282	73	31	165	84	0	608
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	29	205	507	114	33	7	2	4	0	0	0	0	0	903
24OCT SE	9	54	239	72	17	6	2	4	0	0	0	0	0	256
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	219	9	104	28	25	3	3	0	0	0	0	0	0	391
08NOV SE	61	6	50	13	12	2	3	0	0	0	0	0	0	81
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	65	112	24	21	0	0	0	0	0	0	0	0	0	223
21NOV SE	30	56	20	11	0	0	0	0	0	0	0	0	0	67
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-83 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	1.33	9.73	1.86	2.33	1.67	0.00	0.13	0.25	0.13	0.13	0.63	0.25	1.54
13JUN SE	0.88	4.67	0.86	1.33	0.88	0.00	0.13	0.25	0.13	0.09	0.27	0.18	5.11
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	198.00	32.36	0.71	14.67	3.67	1.33	1.88	0.50	0.00	0.20	0.37	0.42	21.18
26JUN SE	103.06	14.28	0.42	6.98	1.76	0.67	1.06	0.33	0.00	0.11	0.28	0.19	104.30
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	1.33	5.82	0.00	0.00	2.67	0.00	1.13	1.25	0.75	0.53	0.32	4.50	1.52
11JUL SE	1.33	2.16	0.00	0.00	1.33	0.00	0.48	0.37	0.37	0.26	0.17	2.28	3.74
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	2.20	9.50	0.71	7.60	0.20	0.67	0.20	0.20	0.20	0.00	0.00	0.00	1.79
26JUL SE	0.86	5.25	0.34	2.46	0.20	0.33	0.20	0.20	0.20	0.00	0.00	0.00	5.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.04	0.14	0.00	1.20	0.50	17.60	4.40	0.20	0.00	0.00	0.00	2.01
09AUG SE	0.00	0.04	0.14	0.00	0.80	0.34	17.35	2.38	0.20	0.00	0.00	0.00	17.54
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.17	0.14	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.06
23AUG SE	0.00	0.12	0.10	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.00	0.00	0.30
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
06SEP SE	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	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.08
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.40	0.00	0.00	0.00	0.35
17OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	0.40	0.00	0.00	0.00	2.41
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-84 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	10	442	50	22	4	0	1	< 0.5	1	2	12	3	548
13JUN SE	7	212	23	12	2	0	1	< 0.5	1	2	5	2	214
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	1491	1470	19	135	10	14	13	1	0	4	7	6	3170
26JUN SE	776	649	11	64	5	7	8	< 0.5	0	2	5	3	1014
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	10	264	0	0	7	0	8	2	6	9	6	61	374
11JUL SE	10	98	0	0	4	0	3	< 0.5	3	4	3	31	104
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	17	432	19	70	1	7	1	< 0.5	2	0	0	0	548
26JUL SE	6	238	9	23	1	4	1	< 0.5	2	0	0	0	240
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	2	4	0	3	5	125	5	2	0	0	0	146
09AUG SE	0	2	4	0	2	4	123	3	2	0	0	0	123
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	8	4	0	0	2	0	< 0.5	0	0	0	0	13
23AUG SE	0	5	3	0	0	2	0	< 0.5	0	0	0	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	13	0	0	0	0	0	0	0	0	0	0	13
06SEP SE	0	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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	1	0	0	0	0	1
04OCT SE	0	0	0	0	0	0	0	1	0	0	0	0	1
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	0	0	0	0	5	3	0	0	0	8
17OCT SE	0	0	0	0	0	0	0	3	3	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-85 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.59	22.47	1.81
26APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.59	17.50	17.51
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	12.71	0.28	1.07
03MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	6.67	0.28	6.71
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	102.82	0.00	0.00	0.00	0.00	19.67	0.77	9.48
10MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	102.82	0.00	0.00	0.00	0.00	17.75	0.77	104.35
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.38	2.67	1.46
17MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.60	1.77	13.72
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.99	2.69	7.51
24MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.44	2.69	53.51
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	9.08	0.00	0.74
31MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	7.21	0.00	7.22
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-85 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	9.86	19.19	2.26
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	9.01	13.39	16.15
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	7.13	0.72
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	4.05	4.63
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.82	0.00	1.60	0.36
22JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.00	0.00	0.84	2.19
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	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
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-86 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	59	0	94	1598	1751
26APR SE	0	0	0	0	0	0	0	0	0	59	0	94	1245	1250
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	151	2043	20	2214
03MAY SE	0	0	0	0	0	0	0	0	0	0	107	1073	20	1078
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	0	0	0	14374	0	0	0	0	3162	55	17590
10MAY SE	0	0	0	0	0	0	14374	0	0	0	0	2853	55	14654
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	2632	190	2822
17MAY SE	0	0	0	0	0	0	0	0	0	0	0	2186	126	2190
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	15268	191	15460
24MAY SE	0	0	0	0	0	0	0	0	0	0	0	8590	191	8592
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	90	1459	0	1548
31MAY SE	0	0	0	0	0	0	0	0	0	0	55	1159	0	1161
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-86 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST.CROP	0	0	0	0	0	0	0	0	0	47	0	1586	1366	2998	
07JUN SE	0	0	0	0	0	0	0	0	0	47	0	1449	953	1735	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	360	507	868	
15JUN SE	0	0	0	0	0	0	0	0	0	0	0	360	288	461	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST.CROP	0	0	0	0	0	0	0	0	0	45	498	0	114	656	
22JUN SE	0	0	0	0	0	0	0	0	0	45	352	0	60	360	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28JUN 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	
09JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
11JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
27JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
09AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-87 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49	0.27	0.27
10MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.22	1.63	1.63
17MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.03	14.03	14.03
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.86	0.86
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.61	0.65	0.56	1.15	0.38	0.38
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.61	0.65	0.56	0.82	2.86	2.86
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-87 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	0.00	3.67	0.74	0.74
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.94	0.00	1.72	6.18	6.18
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.06
22JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.72
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-88 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	248	248	248
10MAY SE	0	0	0	0	0	0	0	0	0	0	0	0	120	120	120
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	1510	1510	1510
17MAY SE	0	0	0	0	0	0	0	0	0	0	0	0	998	998	998
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	793	793	793
24MAY SE	0	0	0	0	0	0	0	0	0	0	0	0	377	377	377
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	369	115	90	82	655	655
31MAY SE	0	0	0	0	0	0	0	0	0	369	115	90	59	401	401
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-88 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	1047	0	261	1308
15JUN SE	0	0	0	0	0	0	0	0	0	0	1047	0	123	1054
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	126	0	0	126
22JUN SE	0	0	0	0	0	0	0	0	0	0	126	0	0	126
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81

TABLE D-89 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.84	21.91	1.98	1.98
17MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	18.47	18.61	18.61
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.11	4.78	4.78
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.07	15.07	15.07
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	2.61	3.31	15.90	2.68	1.92	1.92
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	2.61	1.69	7.21	2.68	8.31	8.31
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-89 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	4.58	3.04	22.69	0.64	2.40
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	4.58	3.04	17.83	0.64	18.67
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	8.91	0.00	0.00	0.76
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	8.91	0.00	0.00	8.96
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.26	0.00	0.10	0.29	1.11	1.11	2.47	6.00	0.00	0.65	0.92
22JUN SE	0.00	0.00	0.00	0.26	0.00	0.10	0.18	0.93	0.68	1.34	1.95	0.00	0.65	2.73
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.12	0.00	0.28	0.00	0.48	0.95	4.89	0.57	4.98	0.94
28JUN SE	0.00	0.00	0.00	0.00	0.12	0.00	0.18	0.00	0.48	0.72	4.89	0.57	2.90	5.79
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.01
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.05
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-90 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	618	1559	2177
17MAY SE	0	0	0	0	0	0	0	0	0	0	0	375	1314	1366
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	4419	4419
24MAY SE	0	0	0	0	0	0	0	0	0	0	0	0	1072	1072
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	69	0	0	369	583	2555	191	3767
31MAY SE	0	0	0	0	0	0	69	0	0	369	298	1159	191	1268
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-90 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	52	648	535	3646	46	4927
07JUN SE	0	0	0	0	0	0	0	0	52	648	535	2866	46	2988
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	161	0	1570	0	0	1731
15JUN SE	0	0	0	0	0	0	0	0	161	0	1570	0	0	1578
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	0	39	0	20	41	330	184	349	1057	0	46	2065
22JUN SE	0	0	0	39	0	20	26	278	113	189	343	0	46	498
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	25	0	40	0	80	135	863	91	354	1587
28JUN SE	0	0	0	0	25	0	26	0	80	102	863	91	206	902
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	6	0	NS	NS	NS	NS	NS	6
11JUL SE	0	0	0	0	0	0	6	0						6
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-91 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-91 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.07	0.00	0.42	1.87	0.00	3.39	2.12	1.09	0.00	0.00	0.69
22JUN SE	0.00	0.00	0.00	0.00	0.05	0.00	0.23	1.02	0.00	1.91	0.73	0.77	0.00	0.00	2.42
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.98	0.30	5.49	6.99	16.52	2.36	2.36
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.60	0.30	4.03	3.32	6.39	8.28	8.28
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.00	0.18	0.00	0.00	0.31	0.25	NS	NS	NS	NS	NS	0.09	0.09
11JUL SE	0.00	0.00	0.00	0.18	0.00	0.00	0.31	0.25	NS	NS	NS	NS	NS	0.44	0.44
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
24JUL- DENSITY	0.00	0.00	0.00	0.40	0.00	0.81	0.00	0.00	NS	NS	NS	NS	NS	0.15	0.15
27JUL SE	0.00	0.00	0.00	0.29	0.00	0.81	0.00	0.00	NS	NS	NS	NS	NS	0.86	0.86
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.00	NS	NS	NS	NS	NS	0.02	0.02
09AUG SE	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.00	NS	NS	NS	NS	NS	0.10	0.10
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81

TABLE D-92 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-92 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	16	0	59	556	0	480	374	176	0	1660
22JUN SE	0	0	0	0	10	0	32	303	0	271	128	124	0	445
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	0	0	51	0	163	42	967	1124	1175	3522
28JUN SE	0	0	0	0	0	0	51	0	100	42	710	533	454	1005
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	27	0	0	44	74	NS	NS	NS	NS	NS	145
11JUL SE	0	0	0	27	0	0	44	74						90
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	59	0	167	0	0	NS	NS	NS	NS	NS	227
27JUL SE	0	0	0	42	0	167	0	0						172
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	9	0	13	0	NS	NS	NS	NS	NS	21
09AUG SE	0	0	0	0	9	0	13	0						15
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-93 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.53	0.01	0.00	0.42	3.00	2.15	2.50	3.01	0.69	0.95	
04JUL SE	0.00	0.00	0.00	0.00	0.47	0.01	0.00	0.27	1.38	1.00	0.99	1.49	0.43	2.57	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.96	0.14	1.09	0.20	
20JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.88	0.14	0.62	1.14	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- DENSITY	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	1.92	0.86	0.22	
02AUG SE	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	1.66	0.44	1.72	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02	0.02	0.73	1.03	0.12	0.10	0.16	
17AUG SE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02	0.02	0.66	1.03	0.12	0.10	1.24	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005	
31AUG SE	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.04	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13SEP SE	0.00	0.00	0.00	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	
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27SEP SE	0.00	0.00	0.00	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	
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.08	0.00	0.00	0.34	0.03	
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.08	0.00	0.00	0.22	0.24	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24OCT SE	0.00	0.00	0.00	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	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
21NOV SE	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-94 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	110	2	0	124	497	304	440	484	49	2011	
04JUL SE	0	0	0	0	98	2	0	80	229	142	174	240	30	421	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- ST. CROP	0	0	0	0	0	0	51	0	0	0	169	22	78	319	
20JUL SE	0	0	0	0	0	0	51	0	0	0	155	22	44	170	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	0	6	0	0	5	0	0	0	0	309	61	382	
02AUG SE	0	0	0	6	0	0	5	0	0	0	0	267	32	269	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	0	0	5	0	0	0	5	3	103	182	20	7	325	
17AUG SE	0	0	0	5	0	0	0	5	3	94	182	20	7	206	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	0	2	0	5	0	4	0	0	0	0	10	
31AUG SE	0	0	0	0	2	0	5	0	4	0	0	0	0	6	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13SEP 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	
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27SEP 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	
07OCT- ST. CROP	0	0	0	0	0	2	0	0	0	11	0	0	24	37	
10OCT SE	0	0	0	0	0	2	0	0	0	11	0	0	16	19	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24OCT 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	
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	42	0	2	0	0	0	0	0	0	0	0	44	
21NOV SE	0	0	26	0	2	0	0	0	0	0	0	0	0	26	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-95 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.86	2.00	0.00	7.00	33.63	7.13	61.13	67.93	2.00	0.33	15.17
13JUN SE	0.00	0.00	0.59	2.00	0.00	5.03	13.13	2.84	36.15	24.48	0.95	0.22	46.01
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.00	0.33	2.33	17.33	5.25	1.13	1.50	14.87	9.16	18.58	5.87
26JUN SE	0.00	0.00	0.00	0.33	1.45	11.84	1.53	0.61	0.68	3.17	2.74	8.61	15.40
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.45	0.14	3.00	1.00	1.33	0.38	0.88	0.63	1.93	1.89	56.83	5.71
11JUL SE	0.00	0.45	0.14	2.52	0.58	0.88	0.18	0.23	0.26	0.63	0.67	18.61	18.84
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.21	1.00	0.60	0.20	3.83	0.20	0.80	2.00	3.11	1.60	8.86	1.87
26JUL SE	0.00	0.10	0.46	0.60	0.20	1.45	0.20	0.58	0.71	1.03	0.56	6.57	6.94
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.13	0.50	0.20	0.20	0.67	4.80	0.60	2.20	3.11	0.50	0.43	1.11
09AUG SE	0.00	0.07	0.36	0.20	0.20	0.49	3.62	0.40	0.92	1.22	0.34	0.20	4.03
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.08	0.00	0.20	0.40	1.83	0.20	0.80	0.40	0.89	0.00	0.00	0.40
23AUG SE	0.00	0.06	0.00	0.20	0.24	0.70	0.20	0.80	0.24	0.42	0.00	0.00	1.23
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.13	0.36	0.00	0.00	2.00	2.00	0.00	0.00	0.78	0.60	1.14	0.58
06SEP SE	0.00	0.07	0.20	0.00	0.00	1.00	1.22	0.00	0.00	0.52	0.22	0.83	1.88
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.29	0.00	0.40	3.67	4.40	0.00	0.40	1.89	5.20	1.29	1.46
20SEP SE	0.00	0.00	0.16	0.00	0.24	1.82	4.40	0.00	0.40	0.81	1.86	0.61	5.23
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	0.14	0.60	0.00	0.00	0.00	1.00	0.00	1.44	0.30	0.00	0.29
04OCT SE	0.00	0.00	0.10	0.40	0.00	0.00	0.00	1.00	0.00	1.44	0.21	0.00	1.82
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.46	0.00	0.00	0.20	2.67	0.20	0.00	0.20	0.00	0.10	0.00	0.32
17OCT SE	0.00	0.29	0.00	0.00	0.20	1.31	0.20	0.00	0.20	0.00	0.10	0.00	1.39
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-96 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	23	18	0	75	239	9	526	1193	39	5	2126
13JUN SE	0	0	16	18	0	54	93	4	311	430	19	3	542
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	3	6	185	37	1	13	261	180	252	939
26JUN SE	0	0	0	3	4	126	11	1	6	56	54	117	189
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	21	4	28	3	14	3	1	5	34	37	772	922
11JUL SE	0	21	4	23	2	9	1	< 0.5	2	11	13	253	255
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	9	27	6	1	41	1	1	17	55	31	120	309
26JUL SE	0	5	12	6	1	15	1	1	6	18	11	89	94
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	6	13	2	1	7	34	1	19	55	10	6	153
09AUG SE	0	3	10	2	1	5	26	< 0.5	8	21	7	3	37
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	4	0	2	1	20	1	1	3	16	0	0	48
23AUG SE	0	3	0	2	1	7	1	1	2	7	0	0	11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	6	10	0	0	21	14	0	0	14	12	16	92
06SEP SE	0	3	5	0	0	11	9	0	0	9	4	11	21
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	8	0	1	39	31	0	3	33	102	17	235
20SEP SE	0	0	4	0	1	19	31	0	3	14	37	8	55
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	4	6	0	0	0	1	0	25	6	0	42
04OCT SE	0	0	3	4	0	0	0	1	0	25	4	0	26
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	21	0	0	1	28	1	0	2	0	2	0	55
17OCT SE	0	13	0	0	1	14	1	0	2	0	2	0	19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-97 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.33	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.05	0.05
22MAR	SE	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
	NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	< 0.005
10MAY	SE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.64	0.06	0.06
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.64	0.65	0.65
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.78	0.00	0.00	0.00	0.00	0.00	0.08	0.08
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.66	0.00	0.00	0.00	0.00	0.00	0.70	0.70
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-97 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-98 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	70	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	70
22MAR SE	70	0	0	0	0	0	0							70
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	10	0	0	0	0	0	0	0	0	10
10MAY SE	0	0	0	0	10	0	0	0	0	0	0	0	0	10
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	35	0	0	0	0	45	80
24MAY SE	0	0	0	0	0	0	0	35	0	0	0	0	45	57
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	32	232	0	0	0	0	0	264
31MAY SE	0	0	0	0	0	0	32	197	0	0	0	0	0	199
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-98 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-99 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21NOV SE	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150

TABLE D-100 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL SE	0	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	
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP SE	0	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	
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP SE	0	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	
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT SE	0	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	
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT SE	0	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	
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-101 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13	0.00	0.00	0.02
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13	0.00	0.00	0.18
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-102 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	< 0.5	0	2	0	0	2
13JUN SE	0	0	0	0	0	0	0	< 0.5	0	2	0	0	2
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-103 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.05
12APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.63
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	8.69	0.80
19APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	8.69	8.85
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	10.38	32.23	0.68	998.37	80.14
26APR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	10.38	28.47	0.68	619.19	619.94
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.00	5.08	55.50	75.83	253.69	2831.60	100.69	255.57
03MAY SE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	3.29	10.96	68.29	76.13	1171.76	45.59	1177.16
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	205.58	2569.61	2788.07	1936.67	576.92
10MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	153.98	170.27	631.73	927.41	1145.37
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.37	2.18	7.23	403.41	739.85	88.74
17MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.37	1.67	6.03	228.36	375.08	439.18
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	3.27	1.23	213.21	611.64	63.81
24MAY SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	2.54	0.76	79.58	544.55	550.34
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.60	0.00	59.12	54.64	10.84	9.65
31MAY SE	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.60	0.00	10.77	22.08	4.55	24.99
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-103 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	1.56	2.84	51.85	4.35
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	1.56	2.04	51.85	51.91
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	1.06	0.54	12.13	1.10
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	1.06	0.54	10.99	11.07
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.68	0.00	0.00	0.08
22JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.68	0.00	0.00	0.75
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- 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
28JUN 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	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6					81	
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-104 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	101	0	101
12APR SE	0	0	0	0	0	0	0	0	0	0	0	101	0	101
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	269	618	887
19APR SE	0	0	0	0	0	0	0	0	0	0	0	269	618	674
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	0	0	0	0	0	0	50	0	1469	5682	110	71033	78343
26APR SE	0	0	0	0	0	0	0	50	0	1469	5019	110	44055	44365
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	0	0	0	10	0	0	1514	9184	10728	44724	455128	7164	528452
03MAY SE	0	0	0	0	10	0	0	982	1814	9661	13421	188340	3243	189103
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	29083	453012	448132	137792	1068019
10MAY SE	0	0	0	0	0	0	0	0	0	21784	30018	101539	65984	126648
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	0	0	0	0	0	90	0	62	308	1275	64840	52640	119214
17MAY SE	0	0	0	0	0	0	72	0	62	236	1063	36705	26687	45395
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	30	462	218	34269	43517	78496
24MAY SE	0	0	0	0	0	0	0	0	30	360	133	12792	38744	40803
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	31	0	0	0	0	100	0	10423	8782	771	20108
31MAY SE	0	0	0	31	0	0	0	0	100	0	1899	3549	323	4040
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-104 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST.CROP	0	0	0	0	0	0	0	0	0	49	275	457	3689	4470	
07JUN SE	0	0	0	0	0	0	0	0	0	49	275	327	3689	3714	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST.CROP	0	0	0	0	0	0	0	0	86	0	187	87	863	1224	
15JUN SE	0	0	0	0	0	0	0	0	86	0	187	87	782	813	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST.CROP	0	0	0	0	0	0	0	0	0	46	120	0	0	166	
22JUN SE	0	0	0	0	0	0	0	0	0	46	120	0	0	128	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST.CROP	0	0	0	0	0	0	0	0	0	42	0	0	0	42	
28JUN SE	0	0	0	0	0	0	0	0	0	42	0	0	0	42	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
11JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
27JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
09AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-105 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.32	1.68	0.15	0.00	0.00	0.00	0.00	0.17
26APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.80	0.15	0.00	0.00	0.00	0.00	0.85
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.52	1.78	3.89	7.21	8.45	22.00	19.79	52.41	8.93
03MAY	SE	0.00	0.00	0.00	0.00	0.00	0.52	1.06	3.21	3.27	3.00	7.57	6.44	19.20	22.34
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	0.00	0.00	0.00	0.20	0.23	2.27	2.20	5.10	10.96	41.37	37.34	179.92	317.21	45.91
10MAY	SE	0.00	0.00	0.00	0.20	0.17	1.15	1.20	2.05	5.18	23.06	14.34	65.31	173.77	187.70
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	6.83	0.54	0.00	0.00	0.00	0.24	4.76	15.93	7.27	4.38	36.29	12.89	131.42	16.97
17MAY	SE	5.16	0.54	0.00	0.00	0.00	0.24	2.36	14.85	3.95	2.53	22.13	12.89	49.46	58.11
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	1.55	0.00	0.24	0.00	1.07	0.98	3.40	0.98	13.81	7.26	127.24	22.70	51.85	17.78
24MAY	SE	0.91	0.00	0.24	0.00	0.89	0.98	1.26	0.76	5.25	5.35	120.62	10.27	14.64	122.19
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.19	0.12	0.08	1.48	8.60	422.98	135.68	106.42	167.48	64.85
31MAY	SE	0.00	0.00	0.00	0.00	0.19	0.12	0.08	0.85	5.52	193.52	40.07	17.56	40.24	202.51
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-105 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	4.18	8.15	0.00	0.53	0.06	0.00	0.00	1.74	1.93	0.00	6.00	1190.57	1523.35	210.50	
07JUN SE	4.18	7.89	0.00	0.33	0.06	0.00	0.00	1.74	1.03	0.00	5.09	700.67	512.90	868.40	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- DENSITY	0.00	0.00	0.00	0.47	0.00	0.00	0.00	5.45	1.62	0.29	76.07	80.02	55.49	16.88	
15JUN SE	0.00	0.00	0.00	0.47	0.00	0.00	0.00	5.45	1.06	0.29	53.22	27.34	18.24	62.80	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.15	0.74	0.00	0.00	0.00	0.08	
22JUN SE	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.15	0.74	0.00	0.00	0.00	0.77	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	4.95	0.00	0.00	0.41	
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	4.95	0.00	0.00	4.97	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-106 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	45	501	25	0	0	0	0	0	571
26APR SE	0	0	0	0	0	0	36	238	25	0	0	0	0	0	242
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
30APR- ST. CROP	0	0	0	0	0	108	249	1161	1193	1196	3879	3181	3729	14695	14695
03MAY SE	0	0	0	0	0	108	149	956	541	425	1335	1035	1366	2478	2478
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY- ST. CROP	0	0	0	30	47	472	308	1520	1814	5853	6582	28919	22569	68114	68114
10MAY SE	0	0	0	30	36	239	168	612	856	3263	2529	10497	12363	16771	16771
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	1428	124	0	0	0	50	665	4750	1203	619	6398	2072	9351	26660	26660
17MAY SE	1078	124	0	0	0	50	330	4426	653	358	3901	2072	3519	7302	7302
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	324	0	78	0	223	204	476	293	2285	1027	22432	3649	3689	34680	34680
24MAY SE	191	0	78	0	185	204	176	225	869	757	21264	1651	1042	21389	21389
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	0	0	0	0	40	25	11	441	1424	59838	23920	17106	11916	114721	114721
31MAY SE	0	0	0	0	40	25	11	254	914	27377	7063	2823	2863	28573	28573
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-106 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
04JUN- ST. CROP	873	1870	0	79	13	0	0	519	320	0	1058	191363	108385	304479
07JUN SE	873	1811	0	48	13	0	0	519	171	0	897	112619	36493	118406
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	0	0	70	0	0	0	1624	268	41	13410	12862	3948	32222
15JUN SE	0	0	0	70	0	0	0	1624	175	41	9383	4394	1298	10569
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	0	0	25	0	0	0	24	105	0	0	0	154
22JUN SE	0	0	0	0	25	0	0	0	24	105	0	0	0	111
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	121	0	0	873	0	0	993
28JUN SE	0	0	0	0	0	0	0	121	0	0	873	0	0	881
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-107 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR 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
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.19	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02
26APR SE	0.00	0.00	0.19	0.00	0.00	0.00	0.04	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
30APR- DENSITY	0.00	0.00	0.00	0.32	0.00	1.87	0.19	0.64	1.60	0.00	2.93	0.54	0.41	0.65
03MAY SE	0.00	0.00	0.00	0.32	0.00	0.99	0.09	0.64	0.86	0.00	1.07	0.54	0.41	1.96
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- DENSITY	0.00	0.00	0.00	1.38	1.06	0.68	1.23	11.72	23.72	61.34	51.25	202.12	24.72	29.17
10MAY SE	0.00	0.00	0.00	0.52	0.59	0.34	0.62	7.71	11.42	19.59	13.47	94.78	19.85	100.67
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- DENSITY	10.32	0.00	0.46	2.52	2.86	10.71	19.38	8.62	227.35	136.21	166.13	1647.17	101.83	179.50
17MAY SE	8.02	0.00	0.29	1.02	1.13	8.01	6.89	4.37	151.99	85.63	48.65	836.96	22.96	856.75
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- DENSITY	3.58	4.65	3.12	0.83	1.83	4.03	20.82	42.01	85.45	154.18	615.24	1648.11	361.38	226.56
24MAY SE	1.28	3.29	1.47	0.83	0.88	1.25	9.54	6.31	33.70	39.70	163.48	48.99	81.42	196.51
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	15.37	1.76	2.73	1.64	51.82	61.74	280.92	1897.43	1265.73	1602.67	97.82	55.28	6.23	410.86
31MAY SE	12.65	0.88	1.04	0.91	14.96	26.27	55.72	492.51	365.49	356.35	36.32	31.86	2.94	713.90
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-107 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- DENSITY	0.64	5.87	3.64	8.77	19.19	302.39	470.76	801.28	502.42	2727.93	1814.64	879.71	274.48	600.90
07JUN SE	0.64	2.25	1.98	3.35	4.34	32.12	60.70	248.17	69.86	580.26	1044.72	533.87	238.67	1356.96
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	3.02	4.03	19.79	139.59	1070.20	616.14	741.86	2531.46	2898.55	1131.66	450.12	40.82	15.12	743.26
15JUN SE	1.92	2.18	3.03	17.99	367.80	121.88	163.32	518.05	1358.61	468.21	101.29	11.17	4.23	1587.76
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	6.25	3.01	2.51	7.18	34.06	44.43	44.42	72.04	20.18	29.31	21.27	2.20	0.46	22.10
22JUN SE	1.34	1.39	0.72	2.21	15.56	16.16	8.50	31.72	8.63	7.26	6.27	1.10	0.46	41.94
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	1.65	2.42	1.87	1.03	2.51	7.15	8.82	32.82	20.39	53.02	132.43	710.07	1446.91	186.24
28JUN SE	1.65	1.87	0.73	0.62	0.68	3.43	2.45	6.39	2.90	18.83	80.71	285.20	309.86	429.29
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	2.09	1.51	1.22	0.07	0.00	4.81	5.07	NS	NS	NS	NS	NS	1.85
11JUL SE	0.00	2.09	0.80	0.71	0.04	0.00	1.63	0.89	NS	NS	NS	NS	NS	2.99
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
24JUL- DENSITY	0.00	0.00	3.14	0.00	0.19	0.81	2.94	2.73	NS	NS	NS	NS	NS	1.23
27JUL SE	0.00	0.00	3.14	0.00	0.19	0.81	1.47	2.04	NS	NS	NS	NS	NS	4.11
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	NS	NS	NS	NS	NS	0.01
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	NS	NS	NS	NS	NS	0.06
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	NS	NS	NS	NS	NS	0.09
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	NS	NS	NS	NS	NS	0.76
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.04
20SEP SE	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.30
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-108 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	60	0	0	0	5	0	0	0	0	0	0	65
26APR SE	0	0	60	0	0	0	5	0	0	0	0	0	0	60
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	0	0	48	0	389	26	190	265	0	517	87	30	1551
03MAY SE	0	0	0	48	0	205	13	190	142	0	189	87	30	380
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	204	220	141	173	3495	3925	8678	9034	32487	1759	60117
10MAY SE	0	0	0	77	123	71	86	2299	1891	2771	2375	15235	1412	16009
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	2157	0	149	372	597	2223	2709	2570	37623	19269	29288	264753	7245	368953
17MAY SE	1677	0	94	150	235	1663	963	1304	25152	12114	8577	134526	1634	137699
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	748	1066	1005	123	381	835	2910	12524	14141	21812	108464	264904	25712	454626
24MAY SE	267	754	473	123	182	259	1333	1882	5578	5616	28822	7875	5793	31547
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	3213	404	880	242	10796	12808	39270	565686	209458	226729	17246	8885	443	1096060
31MAY SE	2645	202	334	135	3116	5450	7789	146834	60483	50413	6403	5121	209	167136
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-108 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	134	1347	1172	1295	3998	62733	65809	238888	83143	385919	319913	141398	19529	1325277
07JUN SE	134	517	637	495	904	6663	8485	73987	11560	82089	184179	85810	16981	232461
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	630	924	6370	20623	222962	127821	103705	754713	479665	160096	79354	6560	1076	1964500
15JUN SE	401	500	974	2657	76627	25286	22831	154449	224829	66238	17857	1795	301	293518
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	1307	690	807	1061	7095	9217	6209	21478	3339	4146	3749	354	33	59485
22JUN SE	279	318	232	326	3241	3352	1188	9457	1428	1028	1106	177	33	10829
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	344	555	603	152	524	1483	1232	9784	3375	7500	23346	114131	102946	265977
28JUN SE	344	428	237	91	141	711	343	1904	480	2663	14229	45840	22046	52932
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	479	486	181	15	0	672	1511	NS	NS	NS	NS	NS	3343
11JUL SE	0	479	258	105	9	0	228	265						655
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	1010	0	40	167	411	815	NS	NS	NS	NS	NS	2443
27JUL SE	0	0	1010	0	40	167	206	609						1209
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	9	0	NS	NS	NS	NS	NS	9
09AUG SE	0	0	0	0	0	0	9	0						9
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	225	NS	NS	NS	NS	NS	225
06SEP SE	0	0	0	0	0	0	0	225						225
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	62	0	0	0	NS	NS	NS	NS	NS	62
20SEP SE	0	0	0	0	62	0	0	0						62
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-109 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-109 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-110 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-110 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-111 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.11	0.06	0.35	1.59	5.08	0.90	0.46	0.63	1.88	0.21	0.87
04JUL SE	0.00	0.00	0.00	0.11	0.06	0.23	0.32	2.49	0.74	0.35	0.44	0.86	0.21	2.83
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.31	0.86	1.33	1.07	4.64	0.43	0.67
20JUL SE	0.00	0.00	0.00		0.00	0.00	0.02	0.23	0.86	0.76	0.91	2.39	0.33	2.83
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	1.14	2.09	2.62	0.00	0.50
02AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.78	0.01	2.35	0.00	2.52
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.03	0.00	0.00	0.08
17AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.03	0.00	0.00	1.03
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21NOV SE	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150

TABLE D-112 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	16	14	72	223	1515	149	65	111	303	15	2480	
04JUL SE	0	0	0	16	14	49	45	744	122	49	77	138	15	775	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- ST. CROP	0	0	0	0	0	0	4	92	143	188	188	747	30	1392	
20JUL SE	0	0	0	0	0	0	3	67	143	108	161	384	24	459	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	0	0	0	0	0	195	0	161	369	421	0	1146	
02AUG SE	0	0	0	0	0	0	0	139	0	111	1	378	0	417	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	0	0	0	0	0	0	5	0	0	182	0	0	187	
17AUG SE	0	0	0	0	0	0	0	5	0	0	182	0	0	182	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13SEP 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	
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27SEP 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	
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10OCT 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	
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24OCT 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	
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-113 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.33	0.00	7.71	2.33	37.67	19.67	40.25	15.13	44.00	44.07	4.00	1.00	18.01
13JUN SE	0.33	0.00	4.31	1.45	34.69	19.67	14.81	5.82	29.21	12.93	1.60	0.39	53.73
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.00	15.33	8.00	50.67	17.00	3.88	12.50	14.00	1.63	4.08	10.59
26JUN SE	0.00	0.00	0.00	14.84	4.36	16.59	8.47	1.81	6.83	4.47	0.58	1.62	25.67
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.00	0.00	5.67	14.00	19.38	1.75	2.63	14.73	6.79	7.92	6.07
11JUL SE	0.00	0.00	0.00	0.00	1.67	7.09	17.39	0.86	0.75	6.86	3.72	4.14	20.85
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.46	0.29	0.00	0.00	0.17	0.40	3.20	0.00	0.00	1.00	0.14	0.47
26JUL SE	0.00	0.42	0.29	0.00	0.00	0.17	0.40	1.85	0.00	0.00	0.37	0.14	2.01
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.00	0.00	0.20	0.00	1.00	0.00	0.40	0.20	0.11	0.10	0.29	0.19
09AUG SE	0.00	0.00	0.00	0.20	0.00	0.82	0.00	0.40	0.20	0.11	0.10	0.29	1.01
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.02
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	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
03SEP- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.02
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-114 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	3	0	207	22	99	209	286	19	379	774	79	14	2089
13JUN SE	3	0	116	13	91	209	105	7	251	227	32	5	439
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	141	21	540	121	5	108	246	32	55	1268
26JUN SE	0	0	0	137	11	177	60	2	59	78	11	22	253
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	15	149	137	2	23	259	134	108	826
11JUL SE	0	0	0	0	4	76	123	1	6	120	73	56	210
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	21	8	0	0	2	3	4	0	0	20	2	59
26JUL SE	0	19	8	0	0	2	3	2	0	0	7	2	22
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	0	0	2	0	11	0	< 0.5	2	2	2	4	23
09AUG SE	0	0	0	2	0	9	0	< 0.5	2	2	2	4	10
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
23AUG SE	0	0	0	0	0	0	1	0	0	0	0	0	1
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	0	0	0	0	0	0	0	2	0	0	0	2
06SEP SE	0	0	0	0	0	0	0	0	2	0	0	0	2
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-115 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-115 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.26	0.22	0.59	0.15	0.20	0.00	0.00	1.05	0.00	0.00	0.00	0.19
22JUN SE	0.00	0.00	0.00	0.26	0.14	0.59	0.15	0.20	0.00	0.00	0.35	0.00	0.00	0.00	0.79
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	2.29	1.87	0.00	1.26	2.91	0.00	0.00	0.00	0.64
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	1.05	1.68	0.00	0.74	1.50	0.00	0.00	0.00	2.59
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.00	0.75	0.00	1.09	2.10	1.80	NS	NS	NS	NS	NS	NS	0.72
11JUL SE	0.00	0.00	0.00	0.37	0.00	0.65	0.88	1.57	NS	NS	NS	NS	NS	NS	1.95
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
24JUL- DENSITY	0.00	0.00	0.00	0.17	0.00	0.00	1.86	3.02	NS	NS	NS	NS	NS	NS	0.63
27JUL SE	0.00	0.00	0.00	0.17	0.00	0.00	1.44	2.76	NS	NS	NS	NS	NS	NS	3.12
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	75
08AUG- DENSITY	0.00	0.00	0.00	0.60	0.00	0.00	0.09	0.25	NS	NS	NS	NS	NS	NS	0.12
09AUG SE	0.00	0.00	0.00	0.31	0.00	0.00	0.09	0.25	NS	NS	NS	NS	NS	NS	0.41
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
20AUG- DENSITY	0.00	0.00	0.17	0.19	0.00	0.13	0.84	0.00	NS	NS	NS	NS	NS	NS	0.17
23AUG SE	0.00	0.00	0.17	0.19	0.00	0.13	0.71	0.00	NS	NS	NS	NS	NS	NS	0.77
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
04SEP- DENSITY	0.00	0.00	0.00	1.08	0.00	0.00	0.34	0.00	NS	NS	NS	NS	NS	NS	0.18
06SEP SE	0.00	0.00	0.00	1.08	0.00	0.00	0.30	0.00	NS	NS	NS	NS	NS	NS	1.12
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81

TABLE D-116 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-116 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	39	46	123	21	59	0	0	185	0	0	0	472
22JUN SE	0	0	0	39	29	123	21	59	0	0	62	0	0	0	159
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- ST. CROP	0	0	0	0	0	0	321	556	0	178	514	0	0	0	1568
28JUN SE	0	0	0	0	0	0	147	499	0	105	264	0	0	0	593
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- ST. CROP	0	0	0	110	0	227	293	536	NS	NS	NS	NS	NS	1166	1166
11JUL SE	0	0	0	55	0	134	123	468	NS	NS	NS	NS	NS	505	505
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
24JUL- ST. CROP	0	0	0	25	0	0	260	901	NS	NS	NS	NS	NS	1186	1186
27JUL SE	0	0	0	25	0	0	202	824	NS	NS	NS	NS	NS	848	848
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75	75
06AUG- ST. CROP	0	0	0	88	0	0	13	76	NS	NS	NS	NS	NS	177	177
09AUG SE	0	0	0	45	0	0	13	76	NS	NS	NS	NS	NS	89	89
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
20AUG- ST. CROP	0	0	53	28	0	27	118	0	NS	NS	NS	NS	NS	226	226
23AUG SE	0	0	53	28	0	27	100	0	NS	NS	NS	NS	NS	119	119
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
04SEP- ST. CROP	0	0	0	159	0	0	48	0	NS	NS	NS	NS	NS	207	207
06SEP SE	0	0	0	159	0	0	42	0	NS	NS	NS	NS	NS	164	164
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81

TABLE D-117 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.31	0.00	0.01	0.00	0.00	0.38	0.00	0.60	0.21	0.12
04JUL SE	0.00	0.00	0.00	0.00	0.31	0.00	0.01	0.00	0.00	0.38	0.00	0.50	0.12	0.71
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	1.55	0.72	1.63	0.36	0.00	0.36	3.57	1.68	0.00	0.76
20JUL SE	0.00	0.00	0.00		0.98	0.34	0.69	0.23	0.00	0.36	0.06	0.83	0.00	1.56
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.32	0.25	0.00	0.00	0.55	0.27	0.02	0.15	1.12	3.69	0.38	0.52
02AUG SE	0.00	0.00	0.32	0.16	0.00	0.00	0.42	0.23	0.02	0.09	1.05	1.96	0.38	2.34
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.06	0.00	0.00	0.01	0.01	0.06	0.00	0.00	0.08	0.34	0.26	0.66	0.11
17AUG SE	0.00	0.06	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.08	0.17	0.26	0.23	0.40
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.10	0.03	0.02	0.00	0.02	0.26	0.00	0.00	0.00	0.89	0.13	0.11
31AUG SE	0.00	0.00	0.10	0.03	0.02	0.00	0.01	0.26	0.00	0.00	0.00	0.64	0.13	0.72
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.05	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.09	0.08	0.00	0.64	0.07
13SEP SE	0.05	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.09	0.08	0.00	0.48	0.50
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.03	0.00	0.02	0.04	0.00	0.09	0.09	0.00	0.15	0.24	0.05
27SEP SE	0.00	0.00	0.00	0.03	0.00	0.02	0.04	0.00	0.05	0.09	0.00	0.15	0.14	0.23
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.33	0.00	0.00	0.00	0.00	0.01	0.05	0.02	0.00	0.07	0.93	0.00	0.11
10OCT SE	0.00	0.33	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.07	0.34	0.00	0.48
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.02	0.05	0.09	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02
24OCT SE	0.00	0.02	0.05	0.07	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.09
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.06	0.11	0.16	0.03	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03
08NOV SE	0.00	0.03	0.11	0.11	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.16
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.09	0.22	0.09	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03
21NOV SE	0.00	0.04	0.10	0.07	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.13
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-118 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	64	0	2	0	0	54	0	97	15	232	
04JUL SE	0	0	0	0	64	0	1	0	0	54	0	81	8	117	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- ST. CROP	0	0	0	0	322	150	228	107	0	51	629	269	0	1757	
20JUL SE	0	0	0		204	70	96	69	0	51	11	133	0	285	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	102	37	0	0	77	79	4	22	198	593	27	1139	
02AUG SE	0	0	102	24	0	0	58	69	4	12	185	316	27	392	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	13	0	0	1	2	8	0	0	11	60	42	47	185	
17AUG SE	0	13	0	0	1	2	5	0	0	11	30	42	16	56	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	31	5	3	0	3	78	0	0	0	143	9	272	
31AUG SE	0	0	31	5	3	0	1	78	0	0	0	104	9	134	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	11	0	0	0	0	5	3	0	0	12	14	0	45	90	
13SEP SE	11	0	0	0	0	3	1	0	0	12	14	0	34	40	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP- ST. CROP	0	0	0	5	0	5	6	0	14	13	0	24	17	84	
27SEP SE	0	0	0	5	0	3	5	0	8	13	0	24	10	31	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	0	76	0	0	0	0	1	14	3	0	13	149	0	258	
10OCT SE	0	76	0	0	0	0	1	7	3	0	13	54	0	95	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	4	16	14	0	3	5	0	0	0	0	0	0	42	
24OCT SE	0	4	16	10	0	2	3	0	0	0	0	0	0	20	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV- ST. CROP	0	14	35	24	6	2	4	0	0	0	0	0	0	84	
08NOV SE	0	7	35	17	5	2	3	0	0	0	0	0	0	40	
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	20	72	13	0	0	2	0	0	0	0	0	0	107	
21NOV SE	0	10	32	10	0	0	2	0	0	0	0	0	0	35	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-119 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.25	0.00	0.00	1.92	0.19
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.25	0.00	0.00	1.32	1.35
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.14	0.00	5.67	14.33	31.00	3.38	3.50	6.60	4.47	1.00	5.84
11JUL SE	0.00	0.00	0.14	0.00	0.67	7.17	26.33	1.24	1.32	4.63	2.63	0.43	27.88
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	1.04	0.86	5.80	1.20	18.83	2.80	32.40	11.80	0.67	3.50	17.57	8.04
26JUL SE	0.00	0.56	0.39	5.06	0.49	6.89	1.96	27.56	9.30	0.47	1.21	6.80	31.17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.04	4.21	0.00	0.00	3.33	0.00	5.00	0.60	0.00	0.10	8.14	1.79
09AUG SE	0.00	0.04	2.84	0.00	0.00	2.47	0.00	4.04	0.60	0.00	0.10	8.14	9.86
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.67	0.00	0.00	0.00	2.50	0.20	1.80	0.00	0.00	0.40	0.00	0.46
23AUG SE	0.00	0.50	0.00	0.00	0.00	1.52	0.20	1.80	0.00	0.00	0.27	0.00	2.43
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.63	0.64	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.13
06SEP SE	0.00	0.47	0.44	0.00	0.00	0.21	0.00	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
17SEP- CPUE	0.00	0.08	4.43	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.10	0.00	0.50
20SEP SE	0.00	0.08	2.75	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.10	0.00	2.88
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
04OCT SE	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- 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
17OCT SE	0.00	0.00	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 D-120 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	1	0	2	0	0	26	29
26JUN SE	0	0	0	0	0	0	1	0	2	0	0	18	18
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	4	0	15	153	220	4	30	116	88	14	643
11JUL SE	0	0	4	0	2	76	187	2	11	81	52	6	224
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	47	23	53	3	201	20	40	102	12	69	239	809
26JUL SE	0	26	10	47	1	73	14	34	80	8	24	92	159
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	2	113	0	0	36	0	6	5	0	2	111	275
09AUG SE	0	2	76	0	0	26	0	5	5	0	2	111	137
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	30	0	0	0	27	1	2	0	0	8	0	68
23AUG SE	0	22	0	0	0	16	1	2	0	0	5	0	28
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	28	17	0	0	4	0	0	0	0	0	0	49
06SEP SE	0	21	12	0	0	2	0	0	0	0	0	0	24
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	4	119	0	0	14	0	0	0	0	2	0	139
20SEP SE	0	4	74	0	0	9	0	0	0	0	2	0	75
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	8	0	0	0	0	0	0	0	0	0	8
04OCT SE	0	0	8	0	0	0	0	0	0	0	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-121 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
26MAR-	DENSITY	0.00	0.00	0.20	0.00	0.00	0.10	0.00	NS	NS	NS	NS	NS	NS	0.04	0.04
28MAR	SE	0.00	0.00	0.20	0.00	0.00	0.10	0.00							0.22	74
	NO. TOWS	10	10	11	11	10	10	12								
02APR-	DENSITY	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
05APR	SE	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	126
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9		
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.53	0.00	0.10	0.10
19APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.53	0.00	0.88	126
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9		
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	
30APR-	DENSITY	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
03MAY	SE	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.40
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.03	0.03
10MAY	SE	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.31	0.31
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY-	DENSITY	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
17MAY	SE	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	
28MAY-	DENSITY	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.06	0.06
31MAY	SE	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.60	0.60
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-121 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.22	0.00	0.00	0.31	0.00	0.00	0.00	0.05
07JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.22	0.00	0.00	0.31	0.00	0.00	0.00	0.41
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.29	0.32	0.00	0.00	0.00	0.06
15JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.29	0.32	0.00	0.00	0.00	0.46
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN-	DENSITY	0.00	0.00	0.13	0.26	0.00	0.00	0.05	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.06
22JUN	SE	0.00	0.00	0.13	0.26	0.00	0.00	0.05	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.44
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN-	DENSITY	0.00	0.00	0.00	0.27	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
28JUN	SE	0.00	0.00	0.00	0.27	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
27JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	4	7	13	14	13	8	10	6							75
08AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG-	DENSITY	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03
23AUG	SE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.20
	NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-122 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	64	0	0	20	0	NS	NS	NS	NS	NS	NS	84
28MAR SE	0	0	64	0	0	20	0							67
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	50	0	0	0	0	0	0	0	0	0	0	0	50
05APR SE	0	50	0	0	0	0	0	0	0	0	0	0	0	50
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	100	0	86	0	186
19APR SE	0	0	0	0	0	0	0	0	0	100	0	86	0	132
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	92	0	0	0	0	0	0	0	0	0	0	0	92
03MAY SE	0	92	0	0	0	0	0	0	0	0	0	0	0	92
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	76	0	0	0	0	58	0	0	0	0	0	134
10MAY SE	0	0	76	0	0	0	0	58	0	0	0	0	0	95
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	0	73	0	0	0	0	0	0	0	0	0	0	0	73
17MAY SE	0	73	0	0	0	0	0	0	0	0	0	0	0	73
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	122	0	0	0	0	0	0	42	0	0	0	0	0	164
31MAY SE	122	0	0	0	0	0	0	42	0	0	0	0	0	129
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-122 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	19	66	0	0	55	0	0	140
07JUN SE	0	0	0	0	0	0	19	66	0	0	55	0	0	88
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	0	0	0	0	0	0	23	0	0	41	56	0	0	119
15JUN SE	0	0	0	0	0	0	23	0	0	41	56	0	0	73
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	0	0	42	39	0	0	7	0	0	46	0	0	0	133
22JUN SE	0	0	42	39	0	0	7	0	0	46	0	0	0	73
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	0	0	41	0	0	22	0	0	0	0	0	0	62
28JUN SE	0	0	0	41	0	0	22	0	0	0	0	0	0	46
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	30	0	0	0	0	NS	NS	NS	NS	NS	30
23AUG SE	0	0	0	30	0	0	0	0						30
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-123 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.01
04JUL SE	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.10
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
20JUL SE	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	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
02AUG 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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- 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	0.13	0.01
17AUG 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	0.13	0.14
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01
13SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.15	0.00	0.02
27SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.15	0.00	0.17
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.02	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
24OCT SE	0.00	0.02	0.02	0.00	0.00	0.00	0.02	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
04NOV- DENSITY	0.00	0.02	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
08NOV SE	0.00	0.02	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	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- 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
21NOV 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	13	15	10	10	8	10	10	7	150

TABLE D-124 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
30JUN- ST. CROP	0	6	0	0	0	0	0	0	0	10	12	0	0	28
04JUL SE	0	6	0	0	0	0	0	0	0	10	12	0	0	16
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	0	0	18	0	0	0	0	0	0	0	0	0	0	18
20JUL SE	0	0	18	0	0	0	0	0	0	0	0	0	0	18
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	8	0	0	0	0	0	0	0	0	8
02AUG SE	0	0	0	0	5	0	0	0	0	0	0	0	0	5
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	14	0	0	0	0	0	0	0	0	0	9	23
17AUG SE	0	0	14	0	0	0	0	0	0	0	0	0	9	17
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	28	0	0	28
13SEP SE	0	0	0	0	0	0	0	0	0	0	28	0	0	28
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	11	0	24	0	36
27SEP SE	0	0	0	0	0	0	0	0	0	11	0	24	0	27
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	0	4	5	0	0	0	2	0	0	0	0	0	0	12
24OCT SE	0	4	5	0	0	0	2	0	0	0	0	0	0	7
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	5	30	0	0	0	0	0	0	0	0	0	0	34
08NOV SE	0	5	19	0	0	0	0	0	0	0	0	0	0	20
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	0	4
21NOV SE	0	4	0	0	0	0	0	0	0	0	0	0	0	4
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-125 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.47	0.11	0.00	0.08
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.34	0.07	0.00	0.41
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.09	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.07	0.05	0.42	0.06
26JUN SE	0.00	0.09	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.07	0.05	0.23	0.29
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.38	0.07	0.05	0.00	0.07
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.38	0.07	0.05	0.00	0.51
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP 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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-126 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	0	0	0	0	1	< 0.5	1	8	2	0	12
13JUN SE	0	0	0	0	0	0	1	< 0.5	1	6	1	0	6
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	4	0	0	0	0	1	0	0	1	1	6	13
26JUN SE	0	4	0	0	0	0	1	0	0	1	1	3	5
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	0	4	0	0	3	1	1	0	9
11JUL SE	0	0	0	0	0	4	0	0	3	1	1	0	5
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
17OCT 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

TABLE D-127 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR SE	0.00	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	74
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	0.00	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	126
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	0.00	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	126
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	0.00	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	126
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	0.00	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	135
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	0.00	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	135
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY SE	0.00	0.00	0.00	0.00	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	135
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY SE	0.00	0.00	0.00	0.00	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	126
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY SE	0.00	0.00	0.00	0.00	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	126
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY SE	0.00	0.00	0.00	0.00	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	126

TABLE D-127 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.47	0.33	0.13	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
15JUN SE	0.00	0.00	0.00	0.47	0.18	0.13	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.01	0.01
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16	0.16
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.14	0.62	0.80	0.84	NS	NS	NS	NS	NS	0.30	0.30
11JUL SE	0.00	0.00	0.00	0.00	0.14	0.62	0.63	0.50						1.03	1.03
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	NS	NS	NS	NS	NS	0.03	0.03
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25						0.25	0.25
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	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	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	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	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	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	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	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	81

TABLE D-128 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-128 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	69	69	27	48	0	0	0	0	0	0	0	212
15JUN SE	0	0	0	69	38	27	48	0	0	0	0	0	0	0	96
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	26	0	0	0	0	0	26
28JUN SE	0	0	0	0	0	0	0	0	26	0	0	0	0	0	26
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- ST. CROP	0	0	0	0	29	129	112	251	NS	NS	NS	NS	NS	522	522
11JUL SE	0	0	0	0	29	129	88	149						218	218
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	76	NS	NS	NS	NS	NS	76	76
09AUG SE	0	0	0	0	0	0	0	76						76	76
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-129 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	0.00	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	
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.94	0.25	0.27	2.56	0.35	
20JUL SE	0.00	0.00	0.00	0.00	0.00	0.43	0.07	0.00	0.00	0.47	0.16	0.27	0.86	1.12	
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.41	8.10	6.55	1.22	
02AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.21	4.10	4.83	6.36	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	3.10	4.33	1.29	0.91	0.89	
17AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.14	1.94	0.56	0.53	2.67	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	0.69	0.26	0.09	
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	0.57	0.26	0.65	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.51	0.05	
13SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.51	0.53	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.62	0.06	
27SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.11	0.20	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- DENSITY	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.09	
10OCT SE	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24OCT SE	0.00	0.00	0.00	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	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21NOV SE	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150	

TABLE D-130 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	ALL COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	89	15	0	0	133	43	44	182	506
20JUL SE	0	0	0	0	0	89	10	0	0	67	29	44	61	138
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	105	73	1302	466	1946
02AUG SE	0	0	0	0	0	0	0	0	0	67	37	660	344	748
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	329	438	764	207	65	1804
17AUG SE	0	0	0	0	0	0	0	0	202	161	342	90	38	439
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	10	27	111	19	167
31AUG SE	0	0	0	0	0	0	0	0	0	10	27	91	19	97
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	24	36	60
13SEP SE	0	0	0	0	0	0	0	0	0	0	0	24	36	43
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	27	44	71
27SEP SE	0	0	0	0	0	0	0	0	0	0	0	27	8	28
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	9	0	0	0	0	0	0	0	0	77	86
10OCT SE	0	0	0	6	0	0	0	0	0	0	0	0	32	32
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-131 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.21	1.17	0.13
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.21	0.79	0.83
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.00	0.14	0.40	0.00	0.33	14.20	22.80	1.60	0.44	22.20	43.71	8.82
26JUL SE	0.00	0.00	0.10	0.40	0.00	0.21	11.44	18.16	0.75	0.34	18.65	25.08	37.93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.00	0.00	0.00	0.00	0.33	1.40	1.80	0.00	0.00	0.00	0.14	0.31
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.21	1.40	1.56	0.00	0.00	0.00	0.14	2.11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.00	0.07	0.00	0.00	0.33	0.00	0.00	0.00	0.78	0.60	0.00	0.15
23AUG SE	0.00	0.00	0.07	0.00	0.00	0.33	0.00	0.00	0.00	0.78	0.50	0.00	0.98
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	2.29	0.22
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	1.71	1.76
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	3.29	0.00	0.00	0.00	13.20	2.60	3.40	0.33	0.30	1.57	2.06
20SEP SE	0.00	0.00	2.63	0.00	0.00	0.00	12.95	2.60	1.72	0.33	0.21	1.15	13.63
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	0.07	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.12
04OCT SE	0.00	0.00	0.07	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.87
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.44	0.20	0.00	0.09
17OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.44	0.20	0.00	0.63
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-132 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	4	4	16	24
11JUL SE	0	0	0	0	0	0	0	0	0	3	4	11	12
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	0	4	4	0	4	101	28	14	8	437	594	1192
26JUL SE	0	0	3	4	0	2	81	23	6	6	367	341	508
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	0	0	0	0	4	10	2	0	0	0	2	18
09AUG SE	0	0	0	0	0	2	10	2	0	0	0	2	11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	2	0	0	4	0	0	0	14	12	0	31
23AUG SE	0	0	2	0	0	4	0	0	0	14	10	0	17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	31	34
06SEP SE	0	0	0	0	0	0	0	0	3	0	0	23	24
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	88	0	0	0	94	3	29	6	6	21	248
20SEP SE	0	0	71	0	0	0	92	3	15	6	4	16	118
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	2	0	0	0	10	0	0	0	0	0	12
04OCT SE	0	0	2	0	0	0	6	0	0	0	0	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	0	0	0	0	< 0.5	0	8	4	0	12
17OCT SE	0	0	0	0	0	0	0	< 0.5	0	8	4	0	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-133 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.39	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.06	
15MAR	SE	0.00	0.31	0.00	0.00	0.00	0.00	0.00							0.31	
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	14.80	0.34	0.24	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	2.20	
22MAR	SE	10.40	0.34	0.24	0.00	0.00	0.00	0.00							10.41	
	NO. TOWS	10	10	11	11	10	10	12							74	
26MAR-	DENSITY	0.69	3.11	21.44	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	3.61	
28MAR	SE	0.48	1.16	21.23	0.00	0.00	0.00	0.00							21.26	
	NO. TOWS	10	10	11	11	10	10	12							74	
02APR-	DENSITY	1.60	0.23	0.64	2.22	6.25	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	
05APR	SE	1.21	0.23	0.34	2.22	3.55	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.46	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR-	DENSITY	0.00	0.27	0.21	1.44	2.17	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	
12APR	SE	0.00	0.17	0.21	0.66	1.12	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR-	DENSITY	0.80	0.00	0.98	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	
19APR	SE	0.80	0.00	0.40	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR-	DENSITY	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
26APR	SE	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR-	DENSITY	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	
03MAY	SE	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10MAY	SE	0.00	0.00	0.00	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	
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17MAY	SE	0.00	0.00	0.00	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	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.27	0.00	0.00	0.00	1.90	0.00	0.18	
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.17	0.00	0.00	0.00	1.11	0.00	1.13	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.71	0.00	0.00	0.29	1.70	0.00	0.23	
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.34	0.00	0.00	0.29	0.98	0.00	1.11	
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-133 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.35	0.00	0.58	0.00	0.07	0.07
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.35	0.00	0.58	0.00	0.67	0.67
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-134 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	89	0	0	0	0	0	NS	NS	NS	NS	NS	NS	89
15MAR SE	0	72	0	0	0	0	0							72
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	3094	78	77	0	0	0	0	NS	NS	NS	NS	NS	NS	3250
22MAR SE	2174	78	77	0	0	0	0							2177
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	145	715	6899	0	0	0	0	NS	NS	NS	NS	NS	NS	7759
28MAR SE	100	267	6831	0	0	0	0							6837
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	335	53	207	327	1302	319	0	0	0	0	0	0	0	2542
05APR SE	253	53	109	327	740	173	0	0	0	0	0	0	0	874
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	61	68	213	451	18	0	0	0	0	0	0	0	812
12APR SE	0	39	68	97	234	18	0	0	0	0	0	0	0	266
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	168	0	314	0	0	134	0	0	0	0	0	0	0	616
19APR SE	168	0	128	0	0	134	0	0	0	0	0	0	0	250
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	0	117	0	0	0	0	0	0	0	0	0	0	117
26APR SE	0	0	117	0	0	0	0	0	0	0	0	0	0	117
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	93	0	0	0	0	0	0	0	0	0	0	0	0	93
03MAY SE	93	0	0	0	0	0	0	0	0	0	0	0	0	93
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	24	0	82	0	0	0	306	0	412
24MAY SE	0	0	0	0	0	24	0	52	0	0	0	179	0	187
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	37	213	0	0	51	273	0	575
31MAY SE	0	0	0	0	0	0	32	102	0	0	51	158	0	198
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-134 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	6	0	0	49	0	93	0	148	
07JUN SE	0	0	0	0	0	0	6	0	0	49	0	93	0	105	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15JUN 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	
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22JUN 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	
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28JUN 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	
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
11JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
27JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
09AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-135 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- 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
21NOV 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	13	15	10	10	8	10	10	7	150

TABLE D-136 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	0	4
21NOV SE	0	4	0	0	0	0	0	0	0	0	0	0	0	4
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-137 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.14	12.00	0.33	0.33	7.25	0.38	0.00	0.00	0.00	0.00	1.70
13JUN SE	0.00	0.00	0.14	6.66	0.33	0.33	7.25	0.38	0.00	0.00	0.00	0.00	9.86
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.33	0.13	0.00	0.00	0.00	0.00	0.00	0.04
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.33	0.13	0.00	0.00	0.00	0.00	0.00	0.36
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL 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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-138 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	4	111	1	4	51	< 0.5	0	0	0	0	171
13JUN SE	0	0	4	61	1	4	51	< 0.5	0	0	0	0	80
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	0	0	4	1	0	0	0	0	0	4
26JUN SE	0	0	0	0	0	4	1	0	0	0	0	0	4
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	2	2
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-139 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-139 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-140 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-140 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-141 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL	SE	0.00	0.00	0.00	0.00	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	
16JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL	SE	0.00	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG	SE	0.00	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG	SE	0.00	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP	SE	0.00	0.00	0.00	0.00	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	
24SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP	SE	0.00	0.00	0.00	0.00	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	
07OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT	SE	0.00	0.00	0.00	0.00	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	
21OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT	SE	0.00	0.00	0.00	0.00	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	
04NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV	SE	0.00	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150	
18NOV-	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	0.00	< 0.005
21NOV	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	0.00	0.01
	NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-142 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	2	0	0	0	0	0	0	0	0	2
21NOV SE	0	0	0	0	2	0	0	0	0	0	0	0	0	2
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-143 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- CPUE	0.00	0.04	0.00	0.40	1.40	0.17	0.60	0.00	0.00	0.00	0.00	0.00	0.22
26JUL SE	0.00	0.04	0.00	0.24	0.75	0.17	0.60	0.00	0.00	0.00	0.00	0.00	1.00
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
09AUG SE	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.08	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.02
23AUG SE	0.00	0.08	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT 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

TABLE D-144 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	2	0	4	4	2	4	0	0	0	0	0	15
26JUL SE	0	2	0	2	2	2	4	0	0	0	0	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	0	0	0	3	0	0	0	0	0	0	0	3
09AUG SE	0	0	0	0	3	0	0	0	0	0	0	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	4	0	0	0	2	0	0	0	0	0	0	6
23AUG SE	0	4	0	0	0	2	0	0	0	0	0	0	4
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	2	0	2
17OCT 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

TABLE D-145 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	10	10	11	11	10	10	12							74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-145 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	6	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-146 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-146 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-147 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.06	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01
21NOV SE	0.00	0.00	0.00	0.06	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.06
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-148 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	9	0	1	7	0	0	0	0	0	0	17
21NOV SE	0	0	0	9	0	1	4	0	0	0	0	0	0	10
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-149 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.00	0.33	1.00	0.00	0.00	0.13	0.00	0.00	0.05	0.00	0.13
13JUN SE	0.00	0.00	0.00	0.33	1.00	0.00	0.00	0.13	0.00	0.00	0.05	0.00	1.06
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.08	0.01
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.08	0.11
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09
11JUL SE	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.00
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.00	0.00	0.80	0.80	0.50	0.80	0.20	0.00	0.00	0.00	0.00	0.26
26JUL SE	0.00	0.00	0.00	0.49	0.58	0.34	0.49	0.20	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
06AUG- CPUE	0.00	0.04	0.07	0.40	1.00	0.67	0.60	1.00	0.00	0.00	0.10	0.14	0.34
09AUG SE	0.00	0.04	0.07	0.40	0.77	0.67	0.24	1.00	0.00	0.00	0.10	0.14	1.52
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.00	0.00	0.60	0.40	0.50	1.00	0.20	0.00	0.00	0.00	0.00	0.23
23AUG SE	0.00	0.00	0.00	0.40	0.24	0.50	0.63	0.20	0.00	0.00	0.00	0.00	0.95
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.08	0.07	1.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
06SEP SE	0.00	0.06	0.07	1.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.21	0.40	0.20	0.00	0.00	0.20	0.20	0.00	0.10	0.00	0.11
20SEP SE	0.00	0.00	0.15	0.24	0.20	0.00	0.00	0.20	0.20	0.00	0.10	0.00	0.46
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.04
17OCT SE	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-150 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	3	3	0	0	< 0.5	0	0	1	0	7
13JUN SE	0	0	0	3	3	0	0	< 0.5	0	0	1	0	4
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	1	0	1	2
26JUN SE	0	0	0	0	0	0	0	0	0	1	0	1	2
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	3	0	0	0	0	0	0	1	4
11JUL SE	0	0	0	0	3	0	0	0	0	0	0	1	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	0	0	7	2	5	6	< 0.5	0	0	0	0	21
26JUL SE	0	0	0	5	2	4	3	< 0.5	0	0	0	0	7
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	2	2	4	3	7	4	1	0	0	2	2	27
09AUG SE	0	2	2	4	2	7	2	1	0	0	2	2	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	0	6	1	5	7	< 0.5	0	0	0	0	19
23AUG SE	0	0	0	4	1	5	4	< 0.5	0	0	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	4	2	15	1	0	0	0	0	0	0	0	21
06SEP SE	0	3	2	15	1	0	0	0	0	0	0	0	15
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	6	4	1	0	0	< 0.5	2	0	2	0	14
20SEP SE	0	0	4	2	1	0	0	< 0.5	2	0	2	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	5	0	0	0	0	0	0	5
17OCT SE	0	0	0	0	0	5	0	0	0	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-151 REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9		
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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 D-151 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.03
22JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.35
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-152 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-152 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	62	0	0	0	62
22JUN SE	0	0	0	0	0	0	0	0	0	0	62	0	0	0	62
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-153 REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	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
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY SE	0.00	0.00	0.00	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
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY SE	0.00	0.00	0.00	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
21MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY SE	0.00	0.00	0.00	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
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY SE	0.00	0.00	0.00	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 D-153 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-154 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-154 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-155 REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT SE	0.00	0.00	0.00	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
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21NOV SE	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150

TABLE D-156 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-157 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-158 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-159 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR 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
26MAR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR SE	0.00	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
02APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR SE	0.00	0.00	0.00	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
09APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR SE	0.00	0.00	0.00	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
16APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR SE	0.00	0.00	0.00	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
23APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR SE	0.00	0.00	0.00	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
30APR- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY SE	0.00	0.00	0.00	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
07MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY SE	0.00	0.00	0.00	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
15MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY SE	0.00	0.00	0.00	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
21MAY- DENSITY	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
24MAY SE	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY SE	0.00	0.00	0.00	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 D-159 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	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
11JUN- DENSITY	7.16	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
15JUN SE	7.16	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.16
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	211.46	121.01	0.33	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.63
22JUN SE	69.46	86.52	0.33	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.95
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- DENSITY	11143.79	223.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	874.39
28JUN SE	5619.05	220.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5623.37
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	12602.92	23844.66	2.87	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	4556.31
11JUL SE	10486.74	14890.37	1.21	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	18212.49
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- DENSITY	3253.39	278.40	0.00	0.00	0.00	0.00	0.00	1.83	NS	NS	NS	NS	NS	441.70
27JUL SE	1086.28	198.33	0.00	0.00	0.00	0.00	0.00	1.83	NS	NS	NS	NS	NS	1104.23
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- DENSITY	1590.08	1940.02	52.73	16.49	9.23	0.00	0.00	0.00	NS	NS	NS	NS	NS	451.07
09AUG SE	1197.96	786.94	27.72	15.36	5.17	0.00	0.00	0.00	NS	NS	NS	NS	NS	1433.67
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	19.21	133.58	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	19.10
23AUG SE	8.96	75.23	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	75.77
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-160 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST.CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST.CROP	381	0	0	0	0	0	0	0	0	0	0	0	0	381
24MAY SE	280	0	0	0	0	0	0	0	0	0	0	0	0	280
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-160 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST.CROP	1496	0	40	0	0	0	0	0	0	0	0	0	0	1536	1536
15JUN SE	1496	0	40	0	0	0	0	0	0	0	0	0	0	1496	1496
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- ST.CROP	44197	27762	107	63	0	0	0	0	0	0	0	0	0	72129	72129
22JUN SE	14518	19850	107	63	0	0	0	0	0	0	0	0	0	24593	24593
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- ST.CROP	2329192	51216	0	0	0	0	0	0	0	0	0	0	0	2380408	2380408
28JUN SE	1174452	50581	0	0	0	0	0	0	0	0	0	0	0	1175541	1175541
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- ST.CROP	2634172	5470450	923	0	0	0	0	0	NS	NS	NS	NS	NS	8105545	8105545
11JUL SE	2191864	3416153	390	0	0	0	0	0	NS	NS	NS	NS	NS	4058863	4058863
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
24JUL- ST.CROP	680001	63870	0	0	0	0	0	546	NS	NS	NS	NS	NS	744417	744417
27JUL SE	227046	45500	0	0	0	0	0	546	NS	NS	NS	NS	NS	231561	231561
NO. TOWS	4	7	13	14	13	8	10	6	NS	NS	NS	NS	NS	75	75
08AUG- ST.CROP	332346	445080	16970	2436	1924	0	0	0	NS	NS	NS	NS	NS	798756	798756
09AUG SE	250389	180540	8920	2270	1077	0	0	0	NS	NS	NS	NS	NS	308829	308829
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
20AUG- ST.CROP	4016	30646	0	0	0	0	0	0	NS	NS	NS	NS	NS	34661	34661
23AUG SE	1873	17260	0	0	0	0	0	0	NS	NS	NS	NS	NS	17362	17362
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
04SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
17SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81
01OCT- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	81

TABLE D-161 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-161 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	1.24	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19
22JUN SE	1.24	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71	1.71
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	17.01	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.45
28JUN SE	13.42	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.55	13.55
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.11	0.11
11JUL SE	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.61	0.61
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	62.80	0.00	0.62	0.19	0.00	0.00	0.00	NS	NS	NS	NS	NS	7.95	7.95
27JUL SE	0.00	28.53	0.00	0.62	0.19	0.00	0.00	0.00	NS	NS	NS	NS	NS	28.54	28.54
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	1.16	0.70	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.23	0.23
09AUG SE	0.00	0.00	1.16	0.70	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.36	1.36
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-162 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-162 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	260	271	0	0	0	0	0	0	0	0	0	0	0	0	531
22JUN SE	260	271	0	0	0	0	0	0	0	0	0	0	0	0	375
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- ST. CROP	3556	420	0	0	0	0	0	0	0	0	0	0	0	0	3976
28JUN SE	2806	420	0	0	0	0	0	0	0	0	0	0	0	0	2837
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- ST. CROP	0	0	280	0	0	0	0	0	NS	NS	NS	NS	NS	NS	280
11JUL SE	0	0	198	0	0	0	0	0							198
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- ST. CROP	0	14408	0	92	40	0	0	0	NS	NS	NS	NS	NS	NS	14540
27JUL SE	0	6546	0	92	40	0	0	0							6547
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- ST. CROP	0	0	374	104	0	0	0	0	NS	NS	NS	NS	NS	NS	478
09AUG SE	0	0	374	104	0	0	0	0							388
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-163 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-163 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.05	0.05
28JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.64	0.64
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.37	0.40	0.31	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.14	0.14
11JUL SE	0.00	0.37	0.40	0.31	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.63	0.63
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.63	4.75	0.12	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.69	0.69
27JUL SE	0.00	0.00	0.63	3.73	0.12	0.00	0.00	0.00	NS	NS	NS	NS	NS	3.79	3.79
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	1.00	0.00	4.90	3.56	1.27	0.73	8.81	0.00	NS	NS	NS	NS	NS	2.53	2.53
09AUG SE	1.00	0.00	3.63	2.08	0.90	0.73	6.10	0.00	NS	NS	NS	NS	NS	7.55	7.55
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.15	1.40	0.00	0.00	NS	NS	NS	NS	NS	0.19	0.19
23AUG SE	0.00	0.00	0.00	0.00	0.15	1.27	0.00	0.00	NS	NS	NS	NS	NS	1.28	1.28
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-164 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-164 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	112	0	0	112
28JUN SE	0	0	0	0	0	0	0	0	0	0	112	0	0	112
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	85	129	46	0	0	0	0	NS	NS	NS	NS	NS	260
11JUL SE	0	85	129	46	0	0	0	0						161
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	204	702	25	0	0	0	NS	NS	NS	NS	NS	932
27JUL SE	0	0	204	552	25	0	0	0						589
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	209	0	1578	526	264	151	1232	0	NS	NS	NS	NS	NS	3960
09AUG SE	209	0	1168	308	187	151	853	0						1513
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	32	290	0	0	NS	NS	NS	NS	NS	322
23AUG SE	0	0	0	0	32	264	0	0						265
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-165 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-165 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
														AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	NS	NS	NS	NS	NS	0.04	0.04
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	NS	NS	NS	NS	NS	0.29	0.29
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	NS	NS	NS	NS	NS	0.08	0.08
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	NS	NS	NS	NS	NS	0.55	0.55
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.67	1.15	0.00	NS	NS	NS	NS	NS	0.23	0.23
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.67	0.77	0.00	NS	NS	NS	NS	NS	1.02	1.02
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.49	NS	NS	NS	NS	NS	0.16	0.16
06SEP SE	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.49	NS	NS	NS	NS	NS	0.93	0.93
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.22	0.06	0.66	NS	NS	NS	NS	NS	0.12	0.12
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.22	0.06	0.66	NS	NS	NS	NS	NS	0.70	0.70
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	NS	NS	NS	NS	NS	0.08	0.08
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	NS	NS	NS	NS	NS	0.32	0.32
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-166 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-166 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	41	0	NS	NS	NS	NS	NS	41	41
27JUL SE	0	0	0	0	0	0	41	0						41	41
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	89	0	NS	NS	NS	NS	NS	89	89
09AUG SE	0	0	0	0	0	0	77	0						77	77
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	138	160	0	NS	NS	NS	NS	NS	299	299
23AUG SE	0	0	0	0	0	138	107	0						175	175
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	117	0	0	0	147	NS	NS	NS	NS	NS	264	264
06SEP SE	0	0	0	117	0	0	0	147						188	188
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	46	8	198	NS	NS	NS	NS	NS	251	251
20SEP SE	0	0	0	0	0	46	8	198						203	203
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	88	0	NS	NS	NS	NS	NS	88	88
04OCT SE	0	0	0	0	0	0	44	0						44	44
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-167 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.02
02AUG SE	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.17
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.00	0.00	0.07	0.00	0.00	0.00	0.02
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.07	0.00	0.00	0.00	0.14
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.11	0.02	0.17	0.11	0.00	0.63	0.08	0.60	0.39	0.16
13SEP SE	0.00	0.00	0.00	0.00	0.06	0.01	0.09	0.05	0.00	0.47	0.08	0.60	0.25	0.81
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.04	0.04	0.86	0.25	0.21	0.16	0.61	0.23	0.00	0.00	0.18
27SEP SE	0.00	0.00	0.00	0.04	0.04	0.30	0.15	0.09	0.07	0.51	0.23	0.00	0.00	0.67
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.11	0.01	0.39	0.67	0.00	0.95	0.44	0.00	0.00	0.20
10OCT SE	0.00	0.00	0.00	0.00	0.11	0.01	0.28	0.29	0.00	0.62	0.34	0.00	0.00	0.83
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.59	0.08	0.03	0.00	0.00	0.00	0.06
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.22	0.05	0.03	0.00	0.00	0.00	0.23
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.03	0.25	1.38	1.03	0.21	0.08	0.14	0.00	0.00	0.24
08NOV SE	0.00	0.00	0.00	0.00	0.01	0.09	0.47	0.35	0.12	0.06	0.14	0.00	0.00	0.62
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.02	0.01	0.34	0.19	0.01	0.00	0.00	0.00	0.00	0.04
21NOV SE	0.00	0.00	0.00	0.00	0.02	0.01	0.17	0.09	0.01	0.00	0.00	0.00	0.00	0.19
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-168 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL SE	0	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	
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- ST. CROP	0	0	0	6	0	0	0	49	0	0	0	0	0	55	
02AUG SE	0	0	0	6	0	0	0	49	0	0	0	0	0	49	
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- ST. CROP	0	0	0	0	0	15	21	0	0	10	0	0	0	46	
31AUG SE	0	0	0	0	0	12	14	0	0	10	0	0	0	21	
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- ST. CROP	0	0	0	0	22	4	24	33	0	89	14	96	28	311	
13SEP SE	0	0	0	0	12	3	12	15	0	67	14	96	18	121	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP- ST. CROP	0	0	0	5	8	178	36	62	26	87	41	0	0	442	
27SEP SE	0	0	0	5	8	63	21	28	12	73	41	0	0	111	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	0	0	0	0	24	2	55	199	0	134	78	0	0	492	
10OCT SE	0	0	0	0	24	2	39	88	0	88	61	0	0	145	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	0	0	0	0	0	5	176	14	4	0	0	0	199	
24OCT SE	0	0	0	0	0	0	5	66	8	4	0	0	0	67	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV- ST. CROP	0	0	0	0	6	52	193	306	34	12	25	0	0	628	
08NOV SE	0	0	0	0	3	20	66	103	20	8	25	0	0	128	
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	0	0	4	3	48	58	2	0	0	0	0	114	
21NOV SE	0	0	0	0	4	3	23	27	2	0	0	0	0	36	
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-169 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG 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
03SEP- CPUE	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
06SEP 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	0.14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.50	0.20	0.20	0.00	0.00	0.40	0.00	0.00	0.10	0.00	0.12
20SEP SE	0.00	0.00	0.31	0.20	0.20	0.00	0.00	0.40	0.00	0.00	0.10	0.00	0.59
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.08	0.00	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
04OCT SE	0.00	0.08	0.00	0.37	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	0.40	0.80	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.11
17OCT SE	0.00	0.00	0.00	0.40	0.49	0.17	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

TABLE D-170 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
23AUG 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
03SEP- ST. CROP	0	0	4	0	0	0	0	0	0	0	0	0	4
06SEP SE	0	0	4	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
17SEP- ST. CROP	0	0	13	2	1	0	0	< 0.5	0	0	2	0	18
20SEP SE	0	0	8	2	1	0	0	< 0.5	0	0	2	0	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	4	0	7	1	0	0	0	0	0	0	0	12
04OCT SE	0	4	0	3	1	0	0	0	0	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	4	2	2	0	0	0	0	0	0	8
17OCT SE	0	0	0	4	1	2	0	0	0	0	0	0	4
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-171 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- DENSITY	0.00	0.00	0.85	0.00	0.19	0.37	0.44	NS	NS	NS	NS	NS	NS	0.26	
15MAR SE	0.00	0.00	0.85	0.00	0.19	0.37	0.44							1.04	
NO. TOWS	10	10	11	11	10	10	12							74	
20MAR- DENSITY	0.00	0.00	0.00	0.36	0.00	0.10	0.47	NS	NS	NS	NS	NS	NS	0.13	
22MAR SE	0.00	0.00	0.00	0.36	0.00	0.10	0.27							0.46	
NO. TOWS	10	10	11	11	10	10	12							74	
26MAR- DENSITY	0.00	0.00	0.00	0.36	1.39	0.00	0.00	NS	NS	NS	NS	NS	NS	0.25	
28MAR SE	0.00	0.00	0.00	0.36	0.76	0.00	0.00							0.84	
NO. TOWS	10	10	11	11	10	10	12							74	
02APR- DENSITY	0.00	0.00	0.18	2.22	1.66	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.36	
05APR SE	0.00	0.00	0.18	2.22	0.79	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	2.38	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
09APR- DENSITY	0.00	0.00	0.48	0.48	0.00	0.00	1.75	1.26	0.00	0.00	0.00	0.00	0.00	0.31	
12APR SE	0.00	0.00	0.28	0.48	0.00	0.00	0.91	0.85	0.00	0.00	0.00	0.00	0.00	1.36	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
16APR- DENSITY	0.00	0.53	4.42	0.64	0.50	0.29	3.19	1.76	0.47	0.59	1.95	0.00	0.00	1.10	
19APR SE	0.00	0.31	2.90	0.40	0.50	0.20	0.32	0.52	0.47	0.34	0.83	0.00	0.00	3.22	
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	
23APR- DENSITY	0.00	0.44	10.17	6.02	1.99	2.56	5.91	3.56	3.64	0.83	0.00	0.56	0.00	2.74	
26APR SE	0.00	0.34	3.73	1.89	1.49	2.32	1.15	1.33	1.66	0.42	0.00	0.56	0.00	5.61	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
30APR- DENSITY	0.00	4.24	16.01	14.24	13.44	2.67	8.74	4.01	2.79	5.09	5.38	0.00	0.00	5.89	
03MAY SE	0.00	1.49	4.84	1.49	4.17	1.58	3.64	0.57	1.15	3.36	3.94	0.00	0.00	9.46	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
07MAY- DENSITY	0.00	27.13	39.40	19.00	21.56	3.72	13.34	5.10	3.22	7.82	3.42	1.95	0.00	11.20	
10MAY SE	0.00	13.33	11.44	7.20	8.87	1.09	0.74	1.38	1.53	3.23	2.78	1.95	0.00	21.61	
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	
15MAY- DENSITY	3.01	38.04	22.42	14.58	19.93	5.63	6.52	6.50	0.37	0.30	0.26	0.67	0.00	9.09	
17MAY SE	1.54	17.87	5.30	2.84	2.87	1.48	3.03	1.65	0.21	0.30	0.26	0.67	0.00	19.52	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
21MAY- DENSITY	2.94	41.18	26.82	22.12	11.59	3.28	4.56	1.05	1.09	5.27	1.86	1.26	0.67	9.52	
24MAY SE	1.41	18.96	8.01	3.44	3.31	1.48	1.59	0.64	0.70	4.08	0.63	0.63	0.67	21.72	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	
28MAY- DENSITY	6.53	8.13	10.38	4.40	1.18	0.00	0.66	3.63	1.86	4.00	0.00	0.00	0.00	3.14	
31MAY SE	3.98	2.13	3.31	2.71	1.13	0.00	0.31	2.82	1.07	1.01	0.00	0.00	0.00	7.08	
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	

TABLE D-171 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	3.43	16.86	2.61	1.51	1.44	1.94	1.92	0.00	0.00	3.02	1.34	1.07	1.40	2.81	
07JUN	SE	2.55	5.91	0.66	0.91	0.53	0.72	0.57	0.00	0.00	1.77	1.06	0.54	1.40	7.10	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN-	DENSITY	6.38	42.69	2.94	2.49	0.34	0.38	2.72	0.00	0.14	2.35	0.94	0.56	0.00	4.76	
15JUN	SE	2.08	7.82	1.13	1.33	0.16	0.24	1.05	0.00	0.14	1.99	0.59	0.56	0.00	8.62	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN-	DENSITY	4.42	10.62	8.97	6.09	0.66	0.35	1.97	0.39	0.00	1.26	0.00	0.00	1.56	2.79	
22JUN	SE	2.26	6.67	5.70	1.28	0.41	0.21	1.28	0.39	0.00	0.89	0.00	0.00	0.83	9.34	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN-	DENSITY	0.00	3.77	1.31	3.92	0.84	0.88	1.09	0.21	0.73	0.91	2.32	0.59	0.47	1.31	
28JUN	SE	0.00	3.34	0.76	1.28	0.84	0.59	0.71	0.21	0.73	0.59	1.39	0.59	0.47	4.28	
	NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL-	DENSITY	0.00	2.46	0.39	1.64	0.57	2.14	2.37	1.40	NS	NS	NS	NS	NS	1.37	
11JUL	SE	0.00	1.88	0.39	0.88	0.16	0.98	0.75	1.05	NS	NS	NS	NS	NS	2.66	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL-	DENSITY	0.00	8.13	11.34	9.80	3.50	0.81	1.34	6.33	NS	NS	NS	NS	NS	5.15	
27JUL	SE	0.00	1.65	3.09	3.98	0.63	0.19	0.60	2.37	NS	NS	NS	NS	NS	5.87	
	NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG-	DENSITY	1.11	3.73	1.62	5.11	8.26	1.61	3.51	4.79	NS	NS	NS	NS	NS	3.72	
09AUG	SE	1.11	2.39	0.68	1.49	3.14	0.92	0.40	2.50	NS	NS	NS	NS	NS	5.18	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG-	DENSITY	0.00	0.00	1.33	7.12	0.54	4.72	3.60	0.75	NS	NS	NS	NS	NS	2.26	
23AUG	SE	0.00	0.00	0.38	2.54	0.42	2.47	1.86	0.75	NS	NS	NS	NS	NS	4.11	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP-	DENSITY	0.00	0.00	2.89	0.80	3.28	0.11	7.24	11.09	NS	NS	NS	NS	NS	3.18	
06SEP	SE	0.00	0.00	0.92	0.80	1.27	0.11	1.69	10.32	NS	NS	NS	NS	NS	10.60	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP-	DENSITY	0.00	0.51	5.65	4.12	3.16	10.42	6.62	7.86	NS	NS	NS	NS	NS	4.79	
20SEP	SE	0.00	0.51	2.27	2.30	1.01	5.16	3.30	4.61	NS	NS	NS	NS	NS	8.39	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT-	DENSITY	0.00	0.00	2.15	0.00	2.19	3.39	2.68	1.48	NS	NS	NS	NS	NS	1.49	
04OCT	SE	0.00	0.00	2.15	0.00	1.46	1.45	1.57	1.48	NS	NS	NS	NS	NS	3.68	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-172 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	274	0	39	76	62	NS	NS	NS	NS	NS	NS	451
15MAR SE	0	0	274	0	39	76	62	NS	NS	NS	NS	NS	NS	294
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	53	0	20	66	NS	NS	NS	NS	NS	NS	139
22MAR SE	0	0	0	53	0	20	38							68
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	53	289	0	0	NS	NS	NS	NS	NS	NS	342
28MAR SE	0	0	0	53	158	0	0							167
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	59	327	346	0	0	174	0	0	0	0	0	906
05APR SE	0	0	59	327	165	0	0	87	0	0	0	0	0	381
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR- ST. CROP	0	0	155	71	0	0	244	376	0	0	0	0	0	846
12APR SE	0	0	90	71	0	0	127	252	0	0	0	0	0	305
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	0	121	1423	94	105	60	446	523	78	84	343	0	0	3277
19APR SE	0	71	934	59	105	42	44	155	78	49	146	0	0	974
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR- ST. CROP	0	100	3272	889	414	530	826	1063	602	118	0	90	0	7903
26APR SE	0	77	1199	280	310	482	161	396	275	59	0	90	0	1456
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	972	5152	2103	2800	554	1222	1196	461	720	948	0	0	16128
03MAY SE	0	342	1558	220	869	327	509	171	191	475	694	0	0	2119
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	6223	12680	2806	4491	771	1865	1521	533	1106	603	314	0	32913
10MAY SE	0	3058	3681	1064	1848	227	104	410	253	457	490	314	0	5319
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY- ST. CROP	630	8726	7214	2154	4152	1167	912	1938	61	43	46	108	0	27151
17MAY SE	322	4099	1705	419	599	307	424	493	35	43	46	108	0	4570
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	614	9447	8631	3267	2415	680	638	314	180	745	328	203	48	27512
24MAY SE	294	4349	2578	509	690	308	223	192	116	577	110	102	48	5190
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	1364	1864	3341	650	246	0	92	1081	307	566	0	0	0	9513
31MAY SE	831	488	1064	401	236	0	43	841	177	143	0	0	0	1743
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-172 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	717	3867	842	223	299	402	268	0	0	427	236	172	100	7553
07JUN SE	533	1357	211	135	111	150	79	0	0	250	187	86	100	1531
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- ST. CROP	1333	9795	946	368	72	79	380	0	24	333	165	90	0	13584
15JUN SE	435	1794	364	196	33	51	146	0	24	281	105	90	0	1925
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- ST. CROP	925	2436	2886	900	136	73	275	116	0	178	0	0	111	8037
22JUN SE	473	1530	1836	190	85	44	180	116	0	126	0	0	59	2459
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- ST. CROP	0	865	421	579	175	183	153	63	120	129	409	94	33	3225
28JUN SE	0	765	245	189	175	123	99	63	120	83	245	94	33	912
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122
09JUL- ST. CROP	0	565	124	243	119	445	331	417	NS	NS	NS	NS	NS	2243
11JUL SE	0	431	124	129	33	202	106	313						607
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	1865	3648	1447	729	168	187	1886	NS	NS	NS	NS	NS	9931
27JUL SE	0	378	993	588	131	40	84	707						1414
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- ST. CROP	233	855	523	755	1721	333	491	1429	NS	NS	NS	NS	NS	6341
09AUG SE	233	549	220	221	655	191	56	745						1215
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	427	1052	113	980	503	223	NS	NS	NS	NS	NS	3298
23AUG SE	0	0	122	375	87	512	261	223						737
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	929	117	684	24	1013	3306	NS	NS	NS	NS	NS	6074
06SEP SE	0	0	295	117	265	24	236	3076						3113
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	117	1818	609	659	2162	926	2343	NS	NS	NS	NS	NS	8634
20SEP SE	0	117	730	340	211	1070	462	1373						1987
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	693	0	456	703	375	440	NS	NS	NS	NS	NS	2667
04OCT SE	0	0	693	0	304	300	219	440						951
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-173 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	34.09	5.45	5.22	8.27	3.90	3.26	0.62	0.52	1.06	2.87	0.14	1.53	1.91	5.29
04JUL SE	5.92	0.85	1.37	2.34	0.97	0.81	0.27	0.30	0.49	2.02	0.08	0.70	0.95	7.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	14.22	108.21	4.29	0.00	3.32	5.83	3.66	3.62	0.83	5.25	3.75	1.44	1.95	12.03
20JUL SE	7.00	41.10	1.53		1.01	0.63	1.62	1.12	0.26	1.04	1.14	0.88	0.81	41.83
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	1.86	61.22	9.85	11.44	10.38	8.95	14.96	3.98	1.38	5.32	0.90	0.28	4.17	10.36
02AUG SE	1.86	17.53	5.88	4.07	2.18	3.43	4.60	1.46	0.29	0.88	0.33	0.28	2.13	20.18
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	2.94	44.63	82.96	16.18	12.85	5.73	6.55	1.25	1.31	10.95	7.34	1.58	5.48	15.37
17AUG SE	1.58	5.97	23.92	4.95	2.31	1.37	1.53	0.39	0.58	4.87	4.50	0.82	4.35	26.61
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.50	4.88	21.51	18.48	23.20	14.89	20.34	10.89	3.92	8.22	6.88	1.58	4.79	10.77
31AUG SE	0.50	4.88	2.62	4.32	7.61	4.19	5.35	3.26	1.21	2.97	2.17	1.58	2.35	13.69
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	1.80	31.58	48.10	15.96	12.82	15.80	33.13	7.31	5.19	13.75	10.42	0.56	14.20	16.20
13SEP SE	0.76	17.20	14.19	3.93	2.28	4.07	5.64	1.62	0.74	4.52	4.03	0.35	2.52	24.76
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	2.69	20.85	40.93	3.95	24.77	29.59	55.17	19.11	10.94	15.84	23.75	8.46	34.16	22.32
27SEP SE	0.62	7.07	7.92	1.52	7.17	5.40	8.13	3.57	1.43	4.99	7.62	6.35	9.34	22.08
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.37	23.91	4.72	3.30	14.86	18.10	11.04	12.78	9.79	26.91	12.78	0.68	2.92	10.93
10OCT SE	0.13	6.70	2.04	0.90	3.47	2.23	4.87	2.45	1.62	3.60	9.62	0.28	1.50	14.39
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.72	0.74	0.30	0.63	0.50	2.12	5.85	20.82	8.41	7.14	3.14	0.27	2.24	4.07
24OCT SE	0.28	0.34	0.21	0.37	0.40	1.51	1.72	5.79	3.10	4.36	1.32	0.10	1.43	8.47
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.04	4.78	11.05	6.35	11.81	18.91	35.73	22.62	22.29	1.51	4.05	0.13	0.24	10.73
08NOV SE	0.02	1.69	4.21	1.80	4.36	3.64	5.75	3.79	5.92	0.82	1.74	0.09	0.12	11.93
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.06	1.39	1.99	15.51	8.12	7.08	10.83	12.17	10.46	0.18	3.25	0.00	0.00	5.46
21NOV SE	0.04	0.51	0.45	7.08	5.17	2.38	4.90	3.37	4.15	0.07	1.45	0.00	0.00	11.73
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-174 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	7125	1249	1679	1221	813	676	87	156	176	405	24	246	136	13994
04JUL SE	1238	196	440	346	202	168	37	89	80	286	14	113	68	1438
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	2973	24826	1382	0	692	1209	511	1079	137	743	660	231	139	34581
20JUL SE	1462	9429	491		211	130	227	334	44	147	200	141	58	9570
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	388	14046	3169	1691	2162	1856	2091	1188	229	753	158	44	297	28072
02AUG SE	388	4021	1892	601	453	712	643	434	48	124	59	44	152	4650
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	615	10240	26698	2391	2678	1189	916	373	218	1549	1294	253	390	48804
17AUG SE	330	1370	7697	732	481	284	213	116	96	689	793	131	309	7960
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	104	1119	6923	2730	4833	3089	2843	3245	649	1163	1213	254	341	28506
31AUG SE	104	1119	844	639	1586	869	748	973	201	420	382	254	167	2760
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	377	7246	15479	2359	2671	3278	4631	2179	860	1945	1837	90	1010	43961
13SEP SE	159	3946	4566	581	476	844	788	484	122	639	711	57	179	6288
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	563	4784	13171	583	5160	6139	7713	5697	1811	2240	4186	1360	2430	55839
27SEP SE	129	1622	2550	224	1494	1120	1136	1063	237	707	1344	1021	664	4353
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	78	5485	1518	488	3095	3754	1543	3811	1620	3806	2254	109	208	27768
10OCT SE	28	1538	655	133	723	463	680	732	267	509	1695	45	106	2787
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	151	170	98	93	105	440	818	6208	1392	1010	553	43	159	11240
24OCT SE	58	78	67	55	83	314	241	1725	512	617	232	16	102	1966
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	7	1097	3557	939	2460	3923	4995	6744	3689	213	715	21	17	28377
08NOV SE	5	387	1354	265	909	756	803	1131	980	116	306	14	9	2538
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	13	320	639	2292	1692	1468	1514	3628	1731	25	572	0	0	13893
21NOV SE	9	117	145	1046	1077	495	685	1004	687	10	255	0	0	2132
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-175 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.33	0.00	1.71	1.33	0.67	0.00	0.00	0.25	0.13	0.00	0.05	0.08	0.38
13JUN SE	0.33	0.00	0.89	0.67	0.67	0.00	0.00	0.16	0.13	0.00	0.05	0.08	1.36
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.67	0.00	0.14	2.67	0.00	0.00	0.00	0.13	0.13	0.40	0.26	0.17	0.38
26JUN SE	0.67	0.00	0.14	2.67	0.00	0.00	0.00	0.13	0.13	0.21	0.10	0.17	2.77
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.67	0.09	0.29	1.00	0.33	0.67	0.50	0.00	0.00	0.00	0.11	0.08	0.31
11JUL SE	0.67	0.09	0.18	1.00	0.33	0.67	0.33	0.00	0.00	0.00	0.07	0.08	1.47
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.20	1.08	0.07	0.20	0.00	0.00	0.40	0.00	0.00	0.00	0.40	0.00	0.20
26JUL SE	0.20	0.58	0.07	0.20	0.00	0.00	0.40	0.00	0.00	0.00	0.22	0.00	0.79
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.20	0.17	0.50	1.20	0.20	0.33	0.40	0.60	0.20	0.11	0.40	0.14	0.37
09AUG SE	0.20	0.08	0.31	0.80	0.20	0.33	0.40	0.40	0.20	0.11	0.27	0.14	1.18
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.80	0.38	0.21	0.00	0.00	0.17	0.20	0.40	0.00	0.00	0.00	0.14	0.19
23AUG SE	0.49	0.27	0.11	0.00	0.00	0.17	0.20	0.24	0.00	0.00	0.00	0.14	0.69
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.40	0.54	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.17
06SEP SE	0.24	0.30	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.95
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.50	0.20	0.60	0.00	0.20	0.00	0.20	0.11	0.00	0.00	0.15
20SEP SE	0.00	0.00	0.23	0.20	0.60	0.00	0.20	0.00	0.20	0.11	0.00	0.00	0.74
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.50	0.50	0.60	0.40	0.00	0.00	0.20	0.00	0.00	0.20	0.14	0.21
04OCT SE	0.00	0.38	0.20	0.60	0.40	0.00	0.00	0.20	0.00	0.00	0.13	0.14	0.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.20	0.08	0.21	0.00	0.20	0.00	0.00	0.40	0.20	0.00	0.00	0.00	0.11
17OCT SE	0.20	0.06	0.15	0.00	0.20	0.00	0.00	0.24	0.20	0.00	0.00	0.00	0.46
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-176 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	3	0	46	12	2	0	0	< 0.5	1	0	1	1	66
13JUN SE	3	0	24	6	2	0	0	< 0.5	1	0	1	1	25
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	5	0	4	25	0	0	0	< 0.5	1	7	5	2	49
26JUN SE	5	0	4	25	0	0	0	< 0.5	1	4	2	2	26
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	5	4	8	9	1	7	4	0	0	0	2	1	41
11JUL SE	5	4	5	9	1	7	2	0	0	0	1	1	15
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	2	49	2	2	0	0	3	0	0	0	8	0	65
26JUL SE	2	26	2	2	0	0	3	0	0	0	4	0	27
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	2	8	13	11	1	4	3	1	2	2	8	2	55
09AUG SE	2	4	8	7	1	4	3	< 0.5	2	2	5	2	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	6	17	6	0	0	2	1	< 0.5	0	0	0	2	34
23AUG SE	4	12	3	0	0	2	1	< 0.5	0	0	0	2	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	3	25	25	0	0	0	0	0	0	0	0	2	55
06SEP SE	2	14	23	0	0	0	0	0	0	0	0	2	27
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	13	2	2	0	1	0	2	2	0	0	22
20SEP SE	0	0	6	2	2	0	1	0	2	2	0	0	7
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	23	13	6	1	0	0	< 0.5	0	0	4	2	49
04OCT SE	0	17	5	6	1	0	0	< 0.5	0	0	3	2	19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	2	4	6	0	1	0	0	< 0.5	2	0	0	0	14
17OCT SE	2	3	4	0	1	0	0	< 0.5	2	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-177 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-177 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-178 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-178 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-179 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL	SE	0.00	0.00	0.00	0.00	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	
16JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.05	0.00	0.24	0.44	0.00	0.00	0.07
20JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03	0.00	0.08	0.44	0.00	0.00	0.50
	NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL-	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	0.00	< 0.005
02AUG	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	0.00	0.01
	NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.07	0.13	0.00	0.00	0.02
17AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.07	0.13	0.00	0.00	0.15
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.01
31AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.08
	NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.17	0.18	0.00	0.00	0.00	0.03
13SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.10	0.11	0.00	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.01
27SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.12	0.03	
10OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.12	0.20	
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24OCT	SE	0.00	0.00	0.00	0.00	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	
04NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV	SE	0.00	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150	
18NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	< 0.005	
21NOV	SE	0.00	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	13	15	10	10	8	10	10	7	150	

TABLE D-180 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	ALL COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	64	8	0	43	71	0	185
20JUL SE	0	0	0	0	0	0	0	64	5	0	14	71	0	97
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
02AUG SE	0	0	0	0	0	0	1	0	0	0	0	0	0	1
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	4	0	0	0	12	22	0	37
17AUG SE	0	0	0	0	0	0	2	0	0	0	12	22	0	24
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	1	0	0	0	14	0	0	15
31AUG SE	0	0	0	0	0	0	1	0	0	0	14	0	0	14
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	2	2	0	0	25	32	0	0	61
13SEP SE	0	0	0	0	0	2	2	0	0	14	19	0	0	24
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	24	0	24
27SEP SE	0	0	0	0	0	0	0	0	0	0	0	24	0	24
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	15	22	8	45
10OCT SE	0	0	0	0	0	0	0	0	0	0	15	22	8	28
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24OCT 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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	5	0	0	5
21NOV SE	0	0	0	0	0	0	0	0	0	0	5	0	0	5
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-181 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.29	0.00	0.33	0.00	0.00	0.00	0.75	0.27	0.00	0.00	0.14
13JUN SE	0.00	0.00	0.18	0.00	0.33	0.00	0.00	0.00	0.75	0.21	0.00	0.00	0.87
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.00	0.00	1.67	3.33	1.00	1.25	4.63	1.00	1.26	1.92	1.34
26JUN SE	0.00	0.00	0.00	0.00	0.67	2.40	0.50	0.41	3.10	0.39	0.49	1.06	4.22
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.00	0.00	2.00	0.00	3.50	2.38	4.50	3.40	1.74	0.92	1.54
11JUL SE	0.00	0.00	0.00	0.00	1.00	0.00	0.87	0.78	2.23	1.41	0.62	0.57	3.16
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.00	0.43	0.00	0.60	2.17	3.80	2.20	2.00	1.56	2.40	1.43	1.38
26JUL SE	0.00	0.00	0.36	0.00	0.40	1.28	1.16	1.96	1.55	0.97	0.78	0.95	3.46
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.00	0.00	0.00	0.60	0.00	3.20	7.40	3.40	3.00	3.00	3.43	2.00
09AUG SE	0.00	0.00	0.00	0.00	0.40	0.00	2.52	3.79	1.54	0.97	1.13	2.19	5.50
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.00	0.07	0.60	1.40	0.17	4.40	5.00	0.20	3.78	2.00	1.57	1.60
23AUG SE	0.00	0.00	0.07	0.60	0.68	0.17	2.34	1.97	0.20	2.36	1.13	1.41	4.37
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.00	0.00	0.00	1.00	0.00	0.40	0.20	2.00	0.00	0.40	0.00	0.33
06SEP SE	0.00	0.00	0.00	0.00	0.32	0.00	0.24	0.20	1.55	0.00	0.31	0.00	1.64
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.00	1.00	5.00	0.00	2.00	0.20	0.00	5.56	2.00	0.00	1.31
20SEP SE	0.00	0.00	0.00	1.00	2.57	0.00	1.52	0.20	0.00	3.20	1.02	0.00	4.61
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	1.00	0.12
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	1.00	1.04
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	1.60	1.80	0.00	2.00	5.00	7.60	2.33	0.00	0.00	1.69
17OCT SE	0.00	0.00	0.00	1.60	1.80	0.00	1.55	2.72	1.72	1.54	0.00	0.00	4.57
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-182 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	8	0	1	0	0	0	6	5	0	0	20
13JUN SE	0	0	5	0	1	0	0	0	6	4	0	0	9
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	0	0	4	36	7	2	40	18	25	26	157
26JUN SE	0	0	0	0	2	26	4	1	27	7	10	14	42
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	5	0	25	3	39	60	34	12	178
11JUL SE	0	0	0	0	3	0	6	1	19	25	12	8	35
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	0	12	0	2	23	27	3	17	27	47	19	177
26JUL SE	0	0	10	0	1	14	8	2	13	17	15	13	35
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	0	0	0	2	0	23	9	29	53	59	47	221
09AUG SE	0	0	0	0	1	0	18	5	13	17	22	30	47
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	2	6	4	2	31	6	2	66	39	21	179
23AUG SE	0	0	2	6	2	2	17	2	2	41	22	19	54
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	0	0	0	3	0	3	< 0.5	17	0	8	0	31
06SEP SE	0	0	0	0	1	0	2	< 0.5	13	0	6	0	15
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	0	9	13	0	14	< 0.5	0	98	39	0	174
20SEP SE	0	0	0	9	7	0	11	< 0.5	0	56	20	0	62
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	0	0	0	0	0	< 0.5	2	0	0	14	16
04OCT SE	0	0	0	0	0	0	0	< 0.5	2	0	0	14	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	15	5	0	14	6	65	41	0	0	146
17OCT SE	0	0	0	15	5	0	11	3	15	27	0	0	36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-183 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.05	0.05
26APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.59	0.59
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	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	0.02
17MAY	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	0.30
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.24	0.64	0.64	0.14	0.14
24MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.24	0.64	0.64	0.98	0.98
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.10	0.10
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.62	0.62
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-183 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.58	1.28	0.19
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.58	1.28	1.55
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.08
15JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.65
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.65	0.07
22JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.65	0.72
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
25JUN- 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
28JUN 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	12	9	16	7	10	7	6	6	6	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-184 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	94	0	94
26APR SE	0	0	0	0	0	0	0	0	0	0	0	94	0	94
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	43	0	0	0	43
17MAY SE	0	0	0	0	0	0	0	0	0	43	0	0	0	43
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	42	42	103	45	233
24MAY SE	0	0	0	0	0	0	0	0	0	42	42	103	45	127
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	88	88
31MAY SE	0	0	0	0	0	0	0	0	0	0	0	0	44	44
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-184 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	114	93	91	298	
07JUN SE	0	0	0	0	0	0	0	0	0	0	114	93	91	173	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	140	0	0	0	140	
15JUN SE	0	0	0	0	0	0	0	0	0	92	0	0	0	92	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
18JUN- ST. CROP	0	0	0	0	0	0	42	0	0	0	0	0	0	46	
22JUN SE	0	0	0	0	0	0	42	0	0	0	0	0	0	46	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	56	0	0	56	
28JUN SE	0	0	0	0	0	0	0	0	0	0	56	0	0	56	
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
11JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
27JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
09AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
23AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
06SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
20SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
04OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-185 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.69	0.88	0.14
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.52	0.33	0.62
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.35	0.00	0.15	0.24	0.75	0.11	0.13
20JUL SE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.35	0.00	0.09	0.15	0.63	0.11	0.75
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.28	0.14	0.04
02AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.14	0.14	0.20
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.45	0.13	0.40	0.10	0.09
17AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.26	0.13	0.23	0.10	0.39
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.43	0.00	0.00	0.04
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.18	0.00	0.00	0.18
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.87	0.10	0.00	0.00	0.08
13SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.76	0.10	0.00	0.00	0.76
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.01
27SEP SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.09
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.62	0.05
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.36	0.36
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- 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
24OCT 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	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.33	0.03
08NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.13	0.15
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
21NOV 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	0.00	0.02
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-186 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	38	111	63	212
04JUL SE	0	0	0	0	0	0	0	0	0	0	13	83	23	87
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	0	0	0	0	0	2	4	103	0	21	42	121	8	300
20JUL SE	0	0	0	0	0	2	2	103	0	12	26	101	8	148
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	6	0	0	0	0	45	10	61
02AUG SE	0	0	0	0	0	0	3	0	0	0	0	23	10	25
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	4	0	0	64	23	64	7	162
17AUG SE	0	0	0	0	0	0	2	0	0	37	23	37	7	58
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	3	0	0	0	76	0	0	79
31AUG SE	0	0	0	0	0	0	2	0	0	0	31	0	0	31
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	2	0	5	123	18	0	0	148
13SEP SE	0	0	0	0	0	0	2	0	5	107	18	0	0	109
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	0	0	0	2	0	0	0	13	0	0	0	15
27SEP SE	0	0	0	0	0	2	0	0	0	13	0	0	0	13
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	13	0	44	57
10OCT SE	0	0	0	0	0	0	0	0	0	0	13	0	25	28
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	0	0	0	0	5	0	0	0	0	0	5
24OCT SE	0	0	0	0	0	0	0	5	0	0	0	0	0	5
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	16	23	39
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	12	9	15
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	6	0	0	0	0	0	0	6
21NOV SE	0	0	0	0	0	0	3	0	0	0	0	0	0	3
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-187 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.00	0.00	0.00	1.67	4.00	2.75	8.88	4.50	4.33	5.00	8.17	3.27
13JUN SE	0.00	0.00	0.00	0.00	1.67	1.53	1.25	3.22	2.35	1.84	1.63	1.65	5.59
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	0.00	0.00	0.14	0.33	2.67	3.33	17.63	7.63	7.63	6.80	2.63	3.33	4.34
26JUN SE	0.00	0.00	0.14	0.33	0.88	2.03	5.30	2.96	1.48	2.14	1.16	1.50	7.23
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.00	0.00	0.00	0.00	5.00	6.00	10.50	7.13	11.50	7.40	6.53	3.75	4.82
11JUL SE	0.00	0.00	0.00	0.00	1.00	1.15	3.68	2.96	4.37	2.17	1.23	1.35	7.20
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	0.00	0.04	0.21	0.00	2.00	5.83	5.80	5.00	1.20	2.56	4.10	2.14	2.41
26JUL SE	0.00	0.04	0.11	0.00	1.14	2.34	2.60	2.14	0.80	1.69	1.06	1.08	4.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.00	0.00	0.00	0.00	5.00	0.67	3.20	6.80	1.60	1.11	1.50	0.00	1.66
09AUG SE	0.00	0.00	0.00	0.00	4.29	0.33	1.83	2.15	1.03	0.61	0.56	0.00	5.31
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.00	0.00	0.07	0.00	3.80	0.33	3.60	3.40	0.00	0.00	0.80	0.00	1.00
23AUG SE	0.00	0.00	0.07	0.00	3.56	0.21	1.69	1.12	0.00	0.00	0.36	0.00	4.12
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	1.00	0.00	0.00	0.00	0.12
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.55	0.00	0.00	0.00	0.68
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- CPUE	0.00	0.00	0.07	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.05
20SEP SE	0.00	0.00	0.07	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.27
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.20	0.00	0.00	2.14	0.30
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.20	0.00	0.00	2.14	2.46
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	1.80	0.40	0.00	2.40	3.00	7.80	1.00	0.40	0.00	1.40
17OCT SE	0.00	0.00	0.00	1.80	0.24	0.00	0.87	1.82	2.35	0.67	0.40	0.00	3.67
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-188 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	4	43	20	11	39	76	98	111	402
13JUN SE	0	0	0	0	4	16	9	4	20	32	32	22	58
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	0	0	4	3	7	36	125	9	66	119	52	45	466
26JUN SE	0	0	4	3	2	22	38	4	13	38	23	20	67
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	13	64	75	9	99	130	128	51	569
11JUL SE	0	0	0	0	3	12	26	4	38	38	24	18	68
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	2	6	0	5	62	41	6	10	45	81	29	287
26JUL SE	0	2	3	0	3	25	18	3	7	30	21	15	51
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	0	0	0	0	13	7	23	8	14	20	30	0	114
09AUG SE	0	0	0	0	11	4	13	3	9	11	11	0	25
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	0	0	2	0	10	4	26	4	0	0	16	0	61
23AUG SE	0	0	2	0	9	2	12	1	0	0	7	0	17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	0	0	0	0	0	0	3	0	9	0	0	0	11
06SEP SE	0	0	0	0	0	0	3	0	5	0	0	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	0	2	0	1	0	0	0	0	0	2	0	5
20SEP SE	0	0	2	0	1	0	0	0	0	0	2	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	0	0	0	0	0	0	< 0.5	10	0	0	29	40
04OCT SE	0	0	0	0	0	0	0	< 0.5	10	0	0	29	31
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	17	1	0	17	4	67	18	8	0	131
17OCT SE	0	0	0	17	1	0	6	2	20	12	8	0	30
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-189 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.70	0.00	0.00	0.12	0.12
31MAY	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.70	0.00	0.00	1.06	1.06
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-189 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	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
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	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
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	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
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	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
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81

TABLE D-190 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	276	0	0	123	0	0	398	398
31MAY SE	0	0	0	0	0	0	0	237	0	0	123	0	0	267	267
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-190 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS		ALL COMBINED	
													AL			
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	0	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	6	123	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	0	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	6	123	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	0	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	6	123	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	0	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	6	122	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	4	7	13	14	13	8	10	6							75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0							0	0
NO. TOWS	6	11	13	14	13	8	10	6							81	81

TABLE D-191 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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	126

TABLE D-191 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.07
07JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.87
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
11JUN- 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	0.00	0.01
15JUN 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	0.00	0.13
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-192 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-192 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	259	0	0	0	0	0	0	259
07JUN SE	0	0	0	0	0	0	0	259	0	0	0	0	0	0	259
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- ST. CROP	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
15JUN SE	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0							0
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-193 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9		
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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 D-193 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-194 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-194 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-195 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74
	NO. TOWS	10	10	11	11	10	10	12								
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
12APR	SE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
03MAY	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	0.00	0.09	0.09
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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	126

TABLE D-195 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- 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	0.00	0.01	0.01
07JUN 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	0.00	0.12	0.12
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.02	0.02
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.12	0.12
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	NS	NS	NS	NS	NS	0.01	0.01
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	NS	NS	NS	NS	NS	0.06	0.06
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.01	0.01
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.11	0.11
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	NS	NS	NS	NS	NS	0.02	0.02
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	NS	NS	NS	NS	NS	0.13	0.13
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-196 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	10	0	0	0	0	0	0	0	0	10
12APR SE	0	0	0	0	10	0	0	0	0	0	0	0	0	10
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	21	0	0	0	0	0	0	0	0	0	0	0	21
03MAY SE	0	21	0	0	0	0	0	0	0	0	0	0	0	21
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-196 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25
07JUN SE	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	6	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	6	122
09JUL- ST. CROP	0	0	0	0	0	26	0	0	NS	NS	NS	NS	NS	NS	26
11JUL SE	0	0	0	0	0	26	0	0							26
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- ST. CROP	0	0	0	0	0	0	8	0	NS	NS	NS	NS	NS	NS	8
27JUL SE	0	0	0	0	0	0	8	0							8
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- ST. CROP	0	0	0	0	0	23	0	0	NS	NS	NS	NS	NS	NS	23
09AUG SE	0	0	0	0	0	23	0	0							23
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- ST. CROP	0	0	0	0	0	27	0	0	NS	NS	NS	NS	NS	NS	27
23AUG SE	0	0	0	0	0	27	0	0							27
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-197 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.03	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
16JUL- DENSITY	0.00	0.02	0.00	0.00	0.07	0.03	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.02
20JUL SE	0.00	0.02	0.00		0.05	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.12
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.01
02AUG SE	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.03	0.02	0.07	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.02
17AUG SE	0.00	0.00	0.00	0.03	0.02	0.04	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.14
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.02	0.03	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.01
31AUG SE	0.00	0.00	0.00	0.00	0.02	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.06
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
13SEP SE	0.00	0.00	0.00	0.00	0.02	0.02	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
24SEP- 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
27SEP 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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
24OCT SE	0.00	0.02	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	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.01	0.02	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
08NOV SE	0.00	0.00	0.01	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.01
21NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.12
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-198 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
04JUL SE	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	0	5	0	0	15	7	19	0	0	0	0	0	0	0	47
20JUL SE	0	5	0	0	10	3	14	0	0	0	0	0	0	0	18
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	0	0	0	0	4	6	0	10	7	0	0	0	0	0	28
02AUG SE	0	0	0	0	4	3	0	7	5	0	0	0	0	0	10
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	0	0	0	4	4	15	0	0	0	0	23	0	0	0	46
17AUG SE	0	0	0	4	4	8	0	0	0	0	23	0	0	0	25
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	0	0	5	7	12	0	0	0	0	0	0	0	24
31AUG SE	0	0	0	0	5	4	8	0	0	0	0	0	0	0	10
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	0	0	0	7	11	0	0	0	0	0	0	0	0	18
13SEP SE	0	0	0	0	4	5	0	0	0	0	0	0	0	0	6
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
27SEP SE	9	0	0	0	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	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
10OCT SE	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	4	0	0	0	2	0	4	0	0	0	0	0	0	10
24OCT SE	0	4	0	0	0	2	0	4	0	0	0	0	0	0	6
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
04NOV- ST. CROP	0	0	5	3	6	7	0	0	0	0	0	0	0	0	21
08NOV SE	0	0	5	3	4	6	0	0	0	0	0	0	0	0	9
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
21NOV SE	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-199 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-200 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-201 REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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	126

TABLE D-201 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	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
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	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
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	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
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	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
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
11JUL SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
09AUG SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
23AUG SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
06SEP SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
20SEP SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
04OCT SE	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81

TABLE D-202 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTRIVER STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-202 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-203 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	74
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	126
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	126
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	126
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	135
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	135
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	135
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	126
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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	126

TABLE D-203 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-204 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-204 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81

TABLE D-205 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL
															REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-205 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-206 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTRIVER STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-206 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-207 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
	NO. TOWS	10	10	11	11	10	10	12							74	
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
22MAR	SE	0.00	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	
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00	0.00
28MAR	SE	0.00	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	
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	0.00	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	
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	0.00	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	
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	0.00	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	
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	0.00	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	
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	0.00	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	
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	0.00	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	
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	0.00	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	
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	0.00	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	
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	0.00	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 D-207 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-208 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-208 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
27JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	4	7	13	14	13	8	10	6						75	75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
09AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
23AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
06SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
20SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
04OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-209 REGIONAL DENSITY (NO./1,000m3) OF SHORTRHINOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.03	0.02	0.02	0.00	0.00	0.00	0.07	0.15	0.00	0.00	0.02
04JUL SE	0.00	0.00	0.00	0.03	0.02	0.02	0.00	0.00	0.00	0.07	0.09	0.00	0.00	0.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.04	0.00	0.00	0.00	0.00	0.01
20JUL SE	0.00	0.00	0.00		0.00	0.01	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.06	0.06	0.00	0.04	0.02	0.04	0.08	0.00	0.00	0.11	0.03
02AUG SE	0.00	0.00	0.00	0.06	0.05	0.00	0.04	0.02	0.03	0.08	0.00	0.00	0.11	0.16
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.13	0.01
17AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.13	0.13
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.02	0.00	0.00	0.24	0.00	0.00	0.02
31AUG SE	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.02	0.00	0.00	0.15	0.00	0.00	0.16
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
13SEP SE	0.00	0.00	0.04	0.03	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
24SEP- DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.00	0.00	0.01
27SEP SE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.00	0.00	0.09
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- 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	0.00	< 0.005
10OCT 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	0.00	0.06
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	< 0.005
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	< 0.005
08NOV SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21NOV SE	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150

TABLE D-210 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	4	5	4	0	0	0	10	26	0	0	0	49
04JUL SE	0	0	0	4	5	4	0	0	0	10	15	0	0	0	20
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	0	0	0	0	0	2	1	10	7	0	0	0	0	0	20
20JUL SE	0	0	0	0	0	2	1	7	5	0	0	0	0	0	8
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	0	0	0	8	12	0	6	5	7	11	0	0	0	8	56
02AUG SE	0	0	0	8	10	0	6	5	5	11	0	0	0	8	21
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	4	0	0	0	0	9	13
17AUG SE	0	0	0	0	0	0	0	0	4	0	0	0	0	9	10
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	0	0	4	7	0	6	0	0	42	0	0	0	58
31AUG SE	0	0	0	0	4	7	0	6	0	0	26	0	0	0	28
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	0	12	5	0	0	0	0	0	0	0	0	0	0	17
13SEP SE	0	0	12	5	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	8	210
24SEP- ST. CROP	0	0	0	5	0	0	0	0	4	0	14	0	0	0	23
27SEP SE	0	0	0	5	0	0	0	0	4	0	14	0	0	0	15
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
10OCT SE	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
24OCT SE	0	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	8	150
04NOV- ST. CROP	0	0	0	0	0	1	0	0	0	4	0	0	0	0	5
08NOV SE	0	0	0	0	0	1	0	0	0	4	0	0	0	0	4
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-211 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-212 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-213 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-213 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.01	
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.05	
NO. TOWS	6	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.73	NS	NS	NS	NS	NS	0.24	
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.73	NS	NS	NS	NS	NS	1.15	
NO. TOWS	4	7	13	14	13	8	10	6						75	
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.25	NS	NS	NS	NS	NS	0.04	
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.25	NS	NS	NS	NS	NS	0.25	
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.01	
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	NS	NS	NS	NS	NS	0.05	
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.40	0.25	NS	NS	NS	NS	NS	0.10	
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.11	0.33	0.25	NS	NS	NS	NS	NS	0.42	
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.40	0.00	NS	NS	NS	NS	NS	0.06	
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.11	0.35	0.00	NS	NS	NS	NS	NS	0.36	
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-214 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-214 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	6	0	NS	NS	NS	NS	NS	6
11JUL SE	0	0	0	0	0	0	6	0						6
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	167	217	NS	NS	NS	NS	NS	384
27JUL SE	0	0	0	0	0	0	125	217						250
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	6	74	NS	NS	NS	NS	NS	81
09AUG SE	0	0	0	0	0	0	6	74						74
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	7	0	NS	NS	NS	NS	NS	7
23AUG SE	0	0	0	0	0	0	7	0						7
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	23	57	73	NS	NS	NS	NS	NS	153
06SEP SE	0	0	0	0	0	23	46	73						89
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	23	56	0	NS	NS	NS	NS	NS	79
20SEP SE	0	0	0	0	0	23	49	0						54
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-215 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN-	DENSITY	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
04JUL	SE	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.97	0.00	0.08	0.00	0.62	0.00	0.00	0.13
20JUL	SE	0.00	0.00	0.00		0.00	0.01	0.02	0.74	0.00	0.08	0.00	0.62	0.00	0.00	0.97
	NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	< 0.005
02AUG	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.63	0.06	0.96	0.15	0.26	0.09	0.09	0.18
17AUG	SE	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.33	0.04	0.68	0.15	0.26	0.09	0.09	0.82
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.07	0.44	0.06	0.04	0.00	0.00	0.00	0.25	0.07	
31AUG	SE	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.04	0.03	0.00	0.00	0.00	0.25	0.43	
	NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.21	0.06	0.02	0.00	0.00	0.00	0.12	0.03	
13SEP	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.03	0.02	0.00	0.00	0.00	0.12	0.14	
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
24SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.37	0.32	0.09	0.03	0.00	0.16	0.15	0.36	0.11	
27SEP	SE	0.00	0.00	0.00	0.00	0.00	0.24	0.08	0.05	0.03	0.00	0.16	0.15	0.36	0.49	
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.16	0.02	0.00	0.08	0.00	0.11	0.04	
10OCT	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.05	0.02	0.00	0.08	0.00	0.11	0.16	
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.09	0.08	0.00	0.00	0.23	0.18	0.05	
24OCT	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.03	0.04	0.00	0.00	0.09	0.12	0.16	
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.18	0.11	0.03	0.00	0.04	0.00	0.03	
08NOV	SE	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.07	0.06	0.03	0.00	0.04	0.00	0.11	
	NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150	
18NOV-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.07	0.17	0.01	0.03	0.00	0.00	0.00	0.00	0.02	
21NOV	SE	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.01	0.02	0.00	0.00	0.00	0.00	0.07	
	NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150	

TABLE D-216 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	0	44	0	0	0	0	0	0	0	0	0	0	44
04JUL SE	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	0	0	0	0	0	2	2	290	0	12	0	99	0	0	405
20JUL SE	0	0	0	0	0	2	2	220	0	12	0	99	0	0	242
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	0	0	0	0	0	2	1	5	4	0	0	0	0	0	11
02AUG SE	0	0	0	0	0	2	1	5	4	0	0	0	0	0	6
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	0	0	0	0	0	13	23	189	10	136	27	42	7	7	446
17AUG SE	0	0	0	0	0	9	10	98	7	96	27	42	7	7	147
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	0	0	0	14	61	18	7	0	0	0	18	18	117
31AUG SE	0	0	0	0	0	7	49	13	5	0	0	0	18	18	54
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	0	0	0	0	2	30	19	4	0	0	0	9	9	64
13SEP SE	0	0	0	0	0	2	8	10	4	0	0	0	9	9	16
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	0	0	0	0	0	76	45	26	4	0	27	24	26	26	230
27SEP SE	0	0	0	0	0	50	11	16	4	0	27	24	26	26	70
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	0	0	0	4	19	48	3	0	15	0	8	8	96
10OCT SE	0	0	0	0	0	3	9	16	3	0	15	0	8	8	25
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	0	0	0	0	3	10	26	13	0	0	37	13	13	102
24OCT SE	0	0	0	0	0	2	7	10	7	0	0	14	8	8	22
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
04NOV- ST. CROP	0	0	0	0	0	1	11	55	18	4	0	6	0	0	95
08NOV SE	0	0	0	0	0	1	5	21	10	4	0	6	0	0	25
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	0	2	15	23	4	4	0	0	0	0	0	50
21NOV SE	0	0	0	0	2	5	8	4	3	0	0	0	0	0	11
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-217 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-218 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-219 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
	NO. TOWS	10	10	11	11	10	10	12							74
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.23	0.00	4.91	NS	NS	NS	NS	NS	NS	0.73
22MAR	SE	0.00	0.00	0.00	0.00	0.23	0.00	4.91							4.91
	NO. TOWS	10	10	11	11	10	10	12							74
26MAR-	DENSITY	0.00	0.00	0.00	0.00	2.32	0.00	0.00	NS	NS	NS	NS	NS	NS	0.33
28MAR	SE	0.00	0.00	0.00	0.00	2.32	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.32
	NO. TOWS	10	10	11	11	10	10	12							74
02APR-	DENSITY	0.00	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
05APR	SE	0.00	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
09APR-	DENSITY	0.00	0.00	0.00	0.18	0.41	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
12APR	SE	0.00	0.00	0.00	0.18	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
16APR-	DENSITY	0.00	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
19APR	SE	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
	NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126
23APR-	DENSITY	0.00	0.00	0.00	0.38	0.00	0.00	0.26	0.17	0.00	0.00	0.43	0.00	0.00	0.10
26APR	SE	0.00	0.00	0.00	0.27	0.00	0.00	0.26	0.17	0.00	0.00	0.43	0.00	0.00	0.60
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
30APR-	DENSITY	0.00	0.10	0.00	0.36	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
03MAY	SE	0.00	0.10	0.00	0.23	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
07MAY-	DENSITY	0.00	0.00	0.00	0.49	0.63	0.00	0.23	0.00	0.31	0.00	0.00	0.00	0.00	0.13
10MAY	SE	0.00	0.00	0.00	0.37	0.63	0.00	0.23	0.00	0.31	0.00	0.00	0.00	0.00	0.82
	NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135
15MAY-	DENSITY	0.00	0.00	0.00	0.59	0.00	0.66	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.11
17MAY	SE	0.00	0.00	0.00	0.30	0.00	0.66	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.75
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.21	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.04
24MAY	SE	0.00	0.00	0.00	0.00	0.21	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.32
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY-	DENSITY	0.00	0.00	0.22	0.59	0.05	0.12	0.27	0.00	0.00	0.00	0.29	0.00	0.00	0.12
31MAY	SE	0.00	0.00	0.22	0.30	0.05	0.12	0.24	0.00	0.00	0.00	0.29	0.00	0.00	0.54
	NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-219 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
04JUN- DENSITY	0.00	0.00	0.00	0.25	0.11	0.62	0.20	0.00	0.00	0.00	0.32	0.00	0.00	0.12	0.12
07JUN SE	0.00	0.00	0.00	0.25	0.11	0.52	0.16	0.00	0.00	0.00	0.32	0.00	0.00	0.69	0.69
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
11JUN- DENSITY	0.00	0.69	0.00	0.00	0.35	0.25	0.17	0.00	0.14	0.00	0.00	0.00	0.00	0.12	0.12
15JUN SE	0.00	0.69	0.00	0.00	0.21	0.25	0.17	0.00	0.14	0.00	0.00	0.00	0.00	0.80	0.80
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
18JUN- DENSITY	0.00	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	0.02
22JUN SE	0.00	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	0.21
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
25JUN- DENSITY	0.00	0.00	0.14	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
28JUN SE	0.00	0.00	0.14	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	122	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.02	0.02
27JUL SE	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.15	0.15
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.01	0.01
09AUG SE	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.07	0.07
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-220 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	48	0	686	NS	NS	NS	NS	NS	NS	734	734
22MAR SE	0	0	0	0	48	0	686							688	688
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	483	0	0	NS	NS	NS	NS	NS	NS	483	483
28MAR SE	0	0	0	0	483	0	0							483	483
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	583	0	0	0	0	0	0	0	0	583	583
05APR SE	0	0	0	0	571	0	0	0	0	0	0	0	0	571	571
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	126
09APR- ST. CROP	0	0	0	27	85	36	0	0	0	0	0	0	0	148	148
12APR SE	0	0	0	27	28	22	0	0	0	0	0	0	0	45	45
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	126
16APR- ST. CROP	0	0	122	0	0	0	0	0	0	0	0	0	0	122	122
19APR SE	0	0	87	0	0	0	0	0	0	0	0	0	0	87	87
NO. TOWS	7	13	15	15	12	10	11	6	7	7	7	7	9	126	126
23APR- ST. CROP	0	0	0	56	0	0	36	51	0	0	76	0	0	220	220
26APR SE	0	0	0	40	0	0	36	51	0	0	76	0	0	106	106
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
30APR- ST. CROP	0	24	0	53	215	0	0	0	0	0	0	0	0	292	292
03MAY SE	0	24	0	34	89	0	0	0	0	0	0	0	0	98	98
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
07MAY- ST. CROP	0	0	0	72	132	0	32	0	51	0	0	0	0	286	286
10MAY SE	0	0	0	54	132	0	32	0	51	0	0	0	0	154	154
NO. TOWS	6	13	15	15	12	6	14	10	11	7	8	8	10	135	135
15MAY- ST. CROP	0	0	0	88	0	136	0	0	30	0	0	0	0	254	254
17MAY SE	0	0	0	45	0	136	0	0	30	0	0	0	0	146	146
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
21MAY- ST. CROP	0	0	0	0	43	0	39	0	0	0	0	0	0	82	82
24MAY SE	0	0	0	0	43	0	34	0	0	0	0	0	0	55	55
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126
28MAY- ST. CROP	0	0	69	87	11	25	38	0	0	0	51	0	0	282	282
31MAY SE	0	0	69	45	11	25	33	0	0	0	51	0	0	106	106
NO. TOWS	8	10	14	14	13	7	14	10	9	7	8	6	6	126	126

TABLE D-220 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	37	24	129	28	0	0	0	57	0	0	0	275
07JUN SE	0	0	0	37	24	108	22	0	0	0	57	0	0	0	132
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- ST. CROP	0	158	0	0	74	53	24	0	24	0	0	0	0	0	333
15JUN SE	0	158	0	0	44	53	24	0	24	0	0	0	0	0	176
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN- ST. CROP	0	0	0	31	0	0	0	0	0	0	0	0	0	0	31
22JUN SE	0	0	0	31	0	0	0	0	0	0	0	0	0	0	31
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
25JUN- ST. CROP	0	0	44	0	9	0	0	0	0	0	0	0	0	0	53
28JUN SE	0	0	44	0	9	0	0	0	0	0	0	0	0	0	45
NO. TOWS	7	11	14	11	12	9	16	7	10	7	6	6	6	6	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81
24JUL- ST. CROP	0	34	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	34
27JUL SE	0	34	0	0	0	0	0	0	0	0	0	0	0	0	34
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	0	75
06AUG- ST. CROP	0	0	0	0	22	0	0	0	NS	NS	NS	NS	NS	NS	22
09AUG SE	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	0	81

TABLE D-221 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.04	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.12	0.00	0.02
04JUL SE	0.00	0.00	0.00	0.04	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.12	0.00	0.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.06	0.00	0.10	0.03	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.02
20JUL SE	0.00	0.00	0.06		0.06	0.02	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.09
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
02AUG SE	0.00	0.00	0.04	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	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	< 0.005
17AUG SE	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
31AUG SE	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.07	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
13SEP SE	0.00	0.00	0.04	0.03	0.02	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	22	14	10	6	6	8	210
24SEP- DENSITY	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.12	0.02
27SEP SE	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.12	0.13
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.02	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.02
10OCT SE	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.14
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.02	0.02	0.04	0.00	0.02	0.00	0.00	0.00	0.00	0.14	0.00	0.02
24OCT SE	0.00	0.00	0.02	0.02	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.11	0.00	0.12
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.16	0.19	0.10	0.01	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.04
08NOV SE	0.00	0.00	0.08	0.04	0.05	0.01	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.11
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.02	0.08	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.02
21NOV SE	0.00	0.00	0.02	0.06	0.04	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.08
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-222 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	5	0	6	3	0	0	0	0	19	0	33
04JUL SE	0	0	0	5	0	3	2	0	0	0	0	19	0	20
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- ST. CROP	0	0	18	0	20	7	6	5	0	0	0	0	0	56
20JUL SE	0	0	18		12	3	5	5	0	0	0	0	0	23
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	14	8	8	4	0	0	0	0	0	0	0	34
02AUG SE	0	0	14	8	6	3	0	0	0	0	0	0	0	17
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	9	0	0	0	0	0	0	0	0	0	9
17AUG SE	0	0	0	7	0	0	0	0	0	0	0	0	0	7
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	5	0	0	0	0	0	0	0	0	0	5
31AUG SE	0	0	0	5	0	0	0	0	0	0	0	0	0	5
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	21	5	6	0	0	0	0	0	0	0	0	33
13SEP SE	0	0	14	5	5	0	0	0	0	0	0	0	0	16
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	0	0	14	5	0	0	0	5	0	0	0	0	8	33
27SEP SE	0	0	14	5	0	0	0	5	0	0	0	0	8	18
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	8	0	18	0	0	0	0	0	0	21	0	47
10OCT SE	0	0	8	0	9	0	0	0	0	0	0	21	0	24
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	5	3	9	0	2	0	0	0	0	22	0	43
24OCT SE	0	0	5	3	7	0	2	0	0	0	0	17	0	20
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	0	0	53	28	21	1	5	0	2	0	0	0	0	110
08NOV SE	0	0	25	6	10	1	5	0	2	0	0	0	0	28
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	5	12	13	0	2	0	3	0	0	0	0	36
21NOV SE	0	0	5	9	7	0	2	0	3	0	0	0	0	14
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-223 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN 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
09JUL- CPUE	0.00	0.00	0.14	0.33	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.05
11JUL SE	0.00	0.00	0.14	0.33	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.38
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-224 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	1	0	1
26JUN 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
09JUL- ST. CROP	0	0	4	3	0	0	1	0	0	0	0	0	8
11JUL SE	0	0	4	3	0	0	1	0	0	0	0	0	5
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-225 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-225 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	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	11	13	14	13	8	10	6						81	
24JUL- DENSITY	0.00	0.00	8.59	2.02	3.38	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.75	1.75
27JUL SE	0.00	0.00	6.14	0.95	1.63	0.00	0.00	0.00	NS	NS	NS	NS	NS	6.42	6.42
NO. TOWS	4	7	13	14	13	8	10	6						75	
06AUG- DENSITY	0.00	2.51	0.46	0.57	2.86	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.80	0.80
09AUG SE	0.00	2.14	0.46	0.36	1.73	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.81	2.81
NO. TOWS	6	11	13	14	13	8	10	6						81	
20AUG- DENSITY	1.93	1.40	1.99	1.93	0.26	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.94	0.94
23AUG SE	1.93	0.88	1.33	0.65	0.26	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.60	2.60
NO. TOWS	6	11	13	14	13	8	10	6						81	
04SEP- DENSITY	12.43	4.40	0.73	0.00	2.18	0.12	0.00	0.00	NS	NS	NS	NS	NS	2.48	2.48
06SEP SE	1.30	3.42	0.73	0.00	2.18	0.12	0.00	0.00	NS	NS	NS	NS	NS	4.32	4.32
NO. TOWS	6	11	13	14	13	8	10	6						81	
17SEP- DENSITY	0.00	0.00	1.27	0.69	3.29	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.66	0.66
20SEP SE	0.00	0.00	1.27	0.69	1.16	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.85	1.85
NO. TOWS	6	11	13	14	13	8	10	6						81	
01OCT- DENSITY	4.19	0.00	0.85	0.00	0.81	0.00	0.37	0.00	NS	NS	NS	NS	NS	0.78	0.78
04OCT SE	2.10	0.00	0.85	0.00	0.81	0.00	0.37	0.00	NS	NS	NS	NS	NS	2.43	2.43
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-226 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-226 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN SE	0	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	123
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN SE	0	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	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	122
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
11JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
24JUL- ST. CROP	0	0	2764	299	703	0	0	0	NS	NS	NS	NS	NS	3767	3767
27JUL SE	0	0	1975	141	339	0	0	0	0	0	0	0	0	2009	2009
NO. TOWS	4	7	13	14	13	8	10	6	0	0	0	0	0	75	75
06AUG- ST. CROP	0	575	149	84	596	0	0	0	NS	NS	NS	NS	NS	1404	1404
09AUG SE	0	490	149	53	360	0	0	0	0	0	0	0	0	628	628
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
20AUG- ST. CROP	403	321	639	286	53	0	0	0	NS	NS	NS	NS	NS	1702	1702
23AUG SE	403	203	429	96	53	0	0	0	0	0	0	0	0	632	632
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
04SEP- ST. CROP	2597	1008	236	0	453	25	0	0	NS	NS	NS	NS	NS	4320	4320
06SEP SE	272	784	236	0	453	25	0	0	0	0	0	0	0	975	975
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
17SEP- ST. CROP	0	0	408	101	686	0	0	0	NS	NS	NS	NS	NS	1195	1195
20SEP SE	0	0	408	101	241	0	0	0	0	0	0	0	0	484	484
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
01OCT- ST. CROP	877	0	274	0	168	0	52	0	NS	NS	NS	NS	NS	1371	1371
04OCT SE	439	0	274	0	168	0	52	0	0	0	0	0	0	546	546
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81

TABLE D-227 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04JUL SE	0.00	0.00	0.00	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
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.67	0.04	1.90	1.35	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
02AUG SE	0.00	0.23	0.04	0.90	0.43	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	1.01	1.96	1.23	1.20	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
17AUG SE	0.17	0.63	0.78	0.47	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	5.78	0.18	1.57	0.28	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
31AUG SE	4.76	0.18	0.64	0.12	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.84
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.31	4.36	0.77	0.80	1.32	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59
13SEP SE	0.08	0.86	0.27	0.27	1.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- DENSITY	1.16	0.80	0.91	0.03	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
27SEP SE	0.39	0.25	0.59	0.03	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.97	0.32	0.03	0.08	0.17	0.19	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.17
10OCT SE	0.59	0.09	0.03	0.08	0.13	0.06	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.73
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.83	0.39	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
24OCT SE	0.43	0.12	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.15	0.06	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
08NOV SE	0.07	0.04	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.57	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
21NOV SE	0.24	0.20	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	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-228 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL 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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	153	14	281	281	4	0	0	0	0	0	0	0	732
02AUG SE	0	53	14	133	89	2	0	0	0	0	0	0	0	169
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	212	450	395	177	69	0	0	0	0	0	0	0	0	1303
17AUG SE	35	144	251	69	22	0	0	0	0	0	0	0	0	301
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	1209	41	505	41	270	0	0	0	0	0	0	0	0	2065
31AUG SE	996	41	204	18	107	0	0	0	0	0	0	0	0	1023
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	65	1000	248	118	276	13	0	0	0	0	0	0	0	1719
13SEP SE	17	198	87	40	210	9	0	0	0	0	0	0	0	305
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
24SEP- ST. CROP	242	183	294	4	226	0	0	0	0	0	0	0	0	950
27SEP SE	82	58	191	4	138	0	0	0	0	0	0	0	0	256
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	202	73	9	12	35	40	64	0	0	0	0	0	0	436
10OCT SE	124	20	9	12	27	13	55	0	0	0	0	0	0	141
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	173	90	11	3	7	0	0	0	0	0	0	0	0	284
24OCT SE	91	28	7	3	7	0	0	0	0	0	0	0	0	95
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- ST. CROP	31	13	5	4	2	0	0	0	0	0	0	0	0	55
08NOV SE	15	10	5	4	2	0	0	0	0	0	0	0	0	19
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	119	62	0	0	0	0	0	0	0	0	0	0	0	181
21NOV SE	50	47	0	0	0	0	0	0	0	0	0	0	0	68
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-229 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- CPUE	0.00	0.00	0.14	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
26JUN SE	0.00	0.00	0.14	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-230 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAFTISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	4	37	0	0	0	0	0	0	0	0	41
26JUN SE	0	0	4	37	0	0	0	0	0	0	0	0	37
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-231 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL
															REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-231 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07JUN SE	0.00	0.00	0.00	0.00	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	123
11JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15JUN SE	0.00	0.00	0.00	0.00	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	123
18JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN SE	0.00	0.00	0.00	0.00	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	123
25JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN SE	0.00	0.00	0.00	0.00	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	122
09JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
24JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
27JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	4	7	13	14	13	8	10	6						75	75
08AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
09AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
20AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
23AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
04SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
06SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
17SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
20SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81
01OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
04OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	0.00
NO. TOWS	6	11	13	14	13	8	10	6						81	81

TABLE D-232 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
15MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
22MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
28MAR SE	0	0	0	0	0	0	0							0
NO. TOWS	10	10	11	11	10	10	12							74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR 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
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR 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
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR 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
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR 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
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY 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
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY 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
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY 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
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY 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
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY 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 D-232 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
04JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07JUN 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
11JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15JUN 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
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN 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
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
11JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
24JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
27JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	4	7	13	14	13	8	10	6						75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
20AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
23AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
04SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
06SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
17SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
20SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-233 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
04JUL SE	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
16JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUL SE	0.00	0.00	0.00	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	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02AUG SE	0.00	0.00	0.00	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	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17AUG SE	0.00	0.00	0.00	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	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13SEP SE	0.00	0.00	0.00	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
24SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27SEP SE	0.00	0.00	0.00	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
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	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
21OCT- DENSITY	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
24OCT SE	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
21NOV SE	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-234 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	15	0	0	0	0	0	0	0	0	0	0	0	0	15
04JUL SE	10	0	0	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
16JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169
30JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197
13AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
27AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191
10SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13SEP 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
24SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27SEP 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
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT 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
21OCT- ST. CROP	10	0	0	0	0	0	0	0	0	0	0	0	0	10
24OCT SE	10	0	0	0	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
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	150
18NOV- ST. CROP	4	0	0	0	0	0	0	0	0	0	0	0	0	4
21NOV SE	4	0	0	0	0	0	0	0	0	0	0	0	0	4
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	150

TABLE D-235 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- 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
13JUN SE	0.00	0.00	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
24JUN- 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
26JUN SE	0.00	0.00	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
09JUL- 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
11JUL SE	0.00	0.00	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
23JUL- 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
26JUL SE	0.00	0.00	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
06AUG- 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
09AUG SE	0.00	0.00	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
20AUG- 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
23AUG SE	0.00	0.00	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
03SEP- 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
06SEP SE	0.00	0.00	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
17SEP- 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
20SEP SE	0.00	0.00	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
02OCT- 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
04OCT SE	0.00	0.00	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
14OCT- 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
17OCT SE	0.00	0.00	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 D-236 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUN 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
09JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
11JUL 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
23JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
26JUL 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
06AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
09AUG 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
20AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
23AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
06SEP 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
17SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
20SEP 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
02OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
04OCT 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
14OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
17OCT 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 D-237 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
13MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
15MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
20MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
22MAR	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
26MAR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
28MAR	SE	0.00	0.00	0.00	0.00	0.00	0.00	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
02APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05APR	SE	0.00	0.00	0.00	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
09APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12APR	SE	0.00	0.00	0.00	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
16APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19APR	SE	0.00	0.00	0.00	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
23APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26APR	SE	0.00	0.00	0.00	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
30APR-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03MAY	SE	0.00	0.00	0.00	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
07MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10MAY	SE	0.00	0.00	0.00	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
15MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17MAY	SE	0.00	0.00	0.00	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
21MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24MAY	SE	0.00	0.00	0.00	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
28MAY-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31MAY	SE	0.00	0.00	0.00	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 D-237 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN-	DENSITY	2.81	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
07JUN	SE	2.81	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.26
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN-	DENSITY	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
15JUN	SE	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	0.00	0.53
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22JUN	SE	0.00	0.00	0.00	0.00	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	6	123
25JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28JUN	SE	0.00	0.00	0.00	0.00	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	6	122
09JUL-	DENSITY	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.18
11JUL	SE	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	1.02
	NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL-	DENSITY	0.00	0.00	0.96	0.21	0.64	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.23
27JUL	SE	0.00	0.00	0.53	0.21	0.64	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.86
	NO. TOWS	4	7	13	14	13	8	10	6							75
08AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
09AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG-	DENSITY	1.93	0.00	0.33	0.19	0.61	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.38
23AUG	SE	1.93	0.00	0.33	0.19	0.61	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	2.06
	NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP-	DENSITY	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.11
06SEP	SE	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.92
	NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP-	DENSITY	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.02
20SEP	SE	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.16
	NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
04OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.00
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-238 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
13MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
15MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
20MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
22MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
26MAR- ST. CROP	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0	0
28MAR SE	0	0	0	0	0	0	0							0	0
NO. TOWS	10	10	11	11	10	10	12							74	74
02APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05APR SE	0	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	126
09APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12APR SE	0	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	126
16APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19APR SE	0	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	126
23APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26APR SE	0	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	135
30APR- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03MAY SE	0	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	135
07MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10MAY SE	0	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	135
15MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17MAY SE	0	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	126
21MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24MAY SE	0	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	126
28MAY- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31MAY SE	0	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	126

TABLE D-238 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
04JUN- ST. CROP	586	0	0	0	344	0	0	0	0	0	0	0	0	0	931
07JUN SE	586	0	0	0	344	0	0	0	0	0	0	0	0	0	680
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
11JUN- ST. CROP	0	172	0	0	0	0	0	0	0	0	0	0	0	0	172
15JUN SE	0	122	0	0	0	0	0	0	0	0	0	0	0	0	122
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
18JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22JUN SE	0	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	6	123
25JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28JUN SE	0	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	6	122
09JUL- ST. CROP	0	0	460	0	0	0	0	0	NS	NS	NS	NS	NS	NS	460
11JUL SE	0	0	328	0	0	0	0	0							328
NO. TOWS	6	11	13	14	13	8	10	6							81
24JUL- ST. CROP	0	0	308	31	133	0	0	0	NS	NS	NS	NS	NS	NS	472
27JUL SE	0	0	172	31	133	0	0	0							219
NO. TOWS	4	7	13	14	13	8	10	6							75
06AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
09AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
20AUG- ST. CROP	403	0	107	28	127	0	0	0	NS	NS	NS	NS	NS	NS	665
23AUG SE	403	0	107	28	127	0	0	0							437
NO. TOWS	6	11	13	14	13	8	10	6							81
04SEP- ST. CROP	0	0	295	0	0	0	0	0	NS	NS	NS	NS	NS	NS	295
06SEP SE	0	0	295	0	0	0	0	0							295
NO. TOWS	6	11	13	14	13	8	10	6							81
17SEP- ST. CROP	0	0	0	0	34	0	0	0	NS	NS	NS	NS	NS	NS	34
20SEP SE	0	0	0	0	34	0	0	0							34
NO. TOWS	6	11	13	14	13	8	10	6							81
01OCT- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
04OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-239 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE														ALL REGIONS COMBINED	
	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL		
30JUN- DENSITY	0.35	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
04JUL SE	0.31	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
16JUL- DENSITY	0.10	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
20JUL SE	0.06	0.00	0.00		0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	169	
30JUL- DENSITY	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
02AUG SE	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	197	
13AUG- 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	0.00	< 0.005
17AUG 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	0.00	0.02
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
27AUG- DENSITY	0.00	0.00	0.18	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
31AUG SE	0.00	0.00	0.18	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	191	
10SEP- DENSITY	0.00	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
13SEP SE	0.00	0.00	0.03	0.00	0.00	0.00	0.04	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	
24SEP- 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	0.00	< 0.005
27SEP 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	0.00	0.01
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10OCT SE	0.00	0.00	0.00	0.00	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	
21OCT- 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	0.00	< 0.005
24OCT 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	0.00	0.02
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08NOV SE	0.00	0.00	0.00	0.00	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	16	11	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21NOV SE	0.00	0.00	0.00	0.00	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	13	15	10	10	8	10	10	7	150	

TABLE D-240 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2013

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	73	7	0	6	0	0	0	0	0	0	0	0	0	0	86
04JUL SE	65	7	0	6	0	0	0	0	0	0	0	0	0	0	66
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
16JUL- ST. CROP	20	0	0	0	154	0	0	0	0	0	0	0	0	0	174
20JUL SE	13	0	0	105	105	0	0	0	0	0	0	0	0	0	106
NO. TOWS	14	18	12	1	14	22	22	22	14	10	6	6	8	8	169
30JUL- ST. CROP	7	0	0	0	0	2	0	0	0	0	0	0	0	0	8
02AUG SE	7	0	0	0	0	2	0	0	0	0	0	0	0	0	7
NO. TOWS	14	17	15	19	22	22	22	22	14	10	6	6	8	8	197
13AUG- ST. CROP	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
17AUG SE	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
27AUG- ST. CROP	0	0	58	7	6	0	0	0	0	0	0	0	0	0	71
31AUG SE	0	0	58	7	5	0	0	0	0	0	0	0	0	0	59
NO. TOWS	11	9	17	22	22	22	22	22	14	10	6	6	8	8	191
10SEP- ST. CROP	0	0	9	0	0	0	6	0	0	0	0	0	0	0	15
13SEP SE	0	0	9	0	0	0	6	0	0	0	0	0	0	0	11
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
24SEP- ST. CROP	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
27SEP SE	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10OCT SE	0	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	8	210
21OCT- ST. CROP	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
24OCT SE	0	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	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	16	11	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21NOV SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	12	16	13	11	15	13	15	10	10	8	10	10	7	7	150

TABLE D-241 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- CPUE	0.00	0.09	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
13JUN SE	0.00	0.09	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- CPUE	56.33	8.36	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46
26JUN SE	27.17	3.78	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.43
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- CPUE	0.33	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
11JUL SE	0.33	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- CPUE	1.40	0.67	2.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
26JUL SE	0.51	0.28	0.62	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- CPUE	0.40	0.50	0.79	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
09AUG SE	0.24	0.17	0.32	0.24	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- CPUE	0.80	0.33	0.07	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
23AUG SE	0.58	0.10	0.07	0.24	0.20	0.00	0.00	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
03SEP- CPUE	0.20	0.25	0.07	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
06SEP SE	0.20	0.17	0.07	0.20	0.20	0.00	0.00	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
17SEP- CPUE	0.00	0.29	0.29	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
20SEP SE	0.00	0.19	0.22	0.20	0.20	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
02OCT- CPUE	0.00	0.08	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
04OCT SE	0.00	0.06	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- 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
17OCT 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 D-242 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2013

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10JUN- ST. CROP	0	4	12	0	0	0	0	0	0	0	0	0	16
13JUN SE	0	4	5	0	0	0	0	0	0	0	0	0	7
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
24JUN- ST. CROP	424	380	23	0	0	0	0	0	0	0	0	0	827
26JUN SE	205	172	11	0	0	0	0	0	0	0	0	0	267
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
09JUL- ST. CROP	3	37	0	0	0	0	0	0	0	0	0	0	40
11JUL SE	3	19	0	0	0	0	0	0	0	0	0	0	19
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUL- ST. CROP	11	30	54	2	0	0	0	0	0	0	0	0	96
26JUL SE	4	13	17	2	0	0	0	0	0	0	0	0	21
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
06AUG- ST. CROP	3	23	21	4	1	0	0	0	0	0	0	0	51
09AUG SE	2	8	9	2	1	0	0	0	0	0	0	0	12
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
20AUG- ST. CROP	6	15	2	4	1	0	0	0	0	0	0	0	27
23AUG SE	4	4	2	2	1	0	0	0	0	0	0	0	7
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
03SEP- ST. CROP	2	11	2	2	1	0	0	0	0	0	0	0	17
06SEP SE	2	8	2	2	1	0	0	0	0	0	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
17SEP- ST. CROP	0	13	8	2	1	0	0	0	0	0	0	0	23
20SEP SE	0	8	6	2	1	0	0	0	0	0	0	0	10
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02OCT- ST. CROP	0	4	0	0	3	0	0	0	0	0	0	0	6
04OCT SE	0	3	0	0	3	0	0	0	0	0	0	0	4
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
17OCT 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