

## IPRenewal NPEmails

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**From:** Nancy Decker <ndecker@asaac.com>  
**Sent:** Thursday, April 21, 2016 10:15 AM  
**To:** Wentzel, Michael  
**Cc:** Dara Gray  
**Subject:** [External\_Sender] Email 3 for 2014 YCR  
**Attachments:** 2014-Appendix D.pdf

Nancy Decker

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**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

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## **Appendix D**

### **Density and Standing Crop Estimates**

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D-182	Regional standing crop (in thousands) of spottail shiner yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-183	Regional density (no./1,000 m <sup>3</sup> ) of spottail shiner yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-184	Regional standing crop (in thousands) of spottail shiner yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-185	Regional catch-per-unit-effort of spottail shiner yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014



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### LIST OF TABLES (CONTINUED)

<u>Number</u>	<u>Title</u>
D-186	Regional standing crop (in thousands) of spottail shiner yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-187	Regional density (no./1,000 m <sup>3</sup> ) of Atlantic sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-188	Regional standing crop (in thousands) of Atlantic sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-189	Regional density (no./1,000 m <sup>3</sup> ) of Atlantic sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-190	Regional standing crop (in thousands) of Atlantic sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-191	Regional density (no./1,000 m <sup>3</sup> ) of Atlantic sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-192	Regional standing crop (in thousands) of Atlantic sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-193	Regional density (no./1,000 m <sup>3</sup> ) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-194	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-195	Regional density (no./1,000 m <sup>3</sup> ) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-196	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-197	Regional catch-per-unit-effort of Atlantic sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-198	Regional standing crop (in thousands) of Atlantic sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-199	Regional density (no./1,000 m <sup>3</sup> ) of shortnose sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-200	Regional standing crop (in thousands) of shortnose sturgeon yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014



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### LIST OF TABLES (CONTINUED)

<u>Number</u>	<u>Title</u>
D-201	Regional density (no./1,000 m <sup>3</sup> ) of shortnose sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-202	Regional standing crop (in thousands) of shortnose sturgeon post yolk-sac larvae in Hudson River estuary determined from Long River Survey, 2014
D-203	Regional density (no./1,000 m <sup>3</sup> ) of shortnose sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-204	Regional standing crop (in thousands) of shortnose sturgeon young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-205	Regional density (no./1,000 m <sup>3</sup> ) of shortnose sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-206	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-207	Regional density (no./1,000 m <sup>3</sup> ) of shortnose sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-208	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-209	Regional catch-per-unit-effort of shortnose sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-210	Regional standing crop (in thousands) of shortnose sturgeon yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-211	Regional density (no./1,000 m <sup>3</sup> ) of white catfish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-212	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-213	Regional density (no./1,000 m <sup>3</sup> ) of white catfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-214	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-215	Regional catch-per-unit-effort of white catfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014
D-216	Regional standing crop (in thousands) of white catfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014

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### LIST OF TABLES (CONTINUED)

<u>Number</u>	<u>Title</u>
D-217	Regional density (no./1,000 m <sup>3</sup> ) of white catfish yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-218	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-219	Regional density (no./1,000 m <sup>3</sup> ) of white catfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-220	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-221	Regional catch-per-unit-effort of white catfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-222	Regional standing crop (in thousands) of white catfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-223	Regional density (no./1,000 m <sup>3</sup> ) of weakfish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-224	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-225	Regional density (no./1,000 m <sup>3</sup> ) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-226	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-227	Regional catch-per-unit-effort of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014
D-228	Regional standing crop (in thousands) of weakfish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014
D-229	Regional density (no./1,000 m <sup>3</sup> ) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-230	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Long River Survey, 2014
D-231	Regional density (no./1,000 m <sup>3</sup> ) of weakfish yearling and older in Hudson River estuary determined from Fall Juvenile Survey, 2014

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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 Fall Juvenile Survey, 2014
D-233	Regional catch-per-unit-effort of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-234	Regional standing crop (in thousands) of weakfish yearling and older in Hudson River estuary determined from Beach Seine Survey, 2014
D-235	Regional density (no./1,000 m <sup>3</sup> ) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-236	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Long River Survey, 2014
D-237	Regional density (no./1,000 m <sup>3</sup> ) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-238	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Fall Juvenile Survey, 2014
D-239	Regional catch-per-unit-effort of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014
D-240	Regional standing crop (in thousands) of bluefish young-of-year in Hudson River estuary determined from Beach Seine Survey, 2014

TABLE D-1 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.66 0.66 7	2.05 0.96 9	0.21 1.17 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.37 0.37 7	1.07 0.61 8	0.43 0.43 8	0.28 0.28 10	0.17 0.88 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.27 0.27 8	0.00 0.00 10	0.02 0.27 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	5.49 4.83 6	11.04 3.27 14	79.56 34.18 10	60.07 35.22 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	12.01 49.43 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.38 0.38 14	7.80 2.59 13	15950.73 5724.03 7	5283.34 2367.95 14	3995.93 3582.64 10	9723.54 3481.12 9	3907.94 1405.43 7	305.53 72.15 8	3.76 3.00 6	0.47 0.47 6	3013.80 8081.19 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.91 0.91 10	3.62 1.61 14	135.26 60.83 14	406.88 192.82 13	12142.73 5446.01 7	3094.88 984.61 14	83.14 37.46 10	2089.07 1349.57 9	5338.43 2597.41 7	3724.39 1475.03 8	88.39 55.19 6	10.59 10.59 6	2086.02 6435.64 126
28MAY- 31MAY SE NO. TOWS	2.33 1.14 8	0.00 0.00 10	70.34 26.82 14	76.38 20.22 14	67.88 51.12 13	75.96 26.68 7	198.42 28.54 14	118.43 57.67 10	744.94 322.72 9	1823.28 588.50 7	1045.18 185.81 8	193.19 97.51 6	2.85 1.64 6	339.94 709.31 126

TABLE D-1 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	0.00	4.87	3.56	31.86	28.01	109.61	223.38	138.45	202.32	74.52	474.05	161.92	431.12	144.90
06JUN	SE	0.00	4.52	1.98	15.76	15.29	59.03	125.87	117.96	82.92	19.51	149.75	49.95	204.59	328.31
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	3.35	28.05	8.82	65.92	8.40	5.50	1.12	2.94	9.55
13JUN	SE	0.00	0.00	0.00	0.00	0.00	1.20	7.52	3.03	26.86	3.33	3.55	0.80	2.94	28.66
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	0.00	0.00	0.00	0.21	2.01	6.29	17.12	6.21	1.43	0.23	0.53	0.00	0.00	2.62
20JUN	SE	0.00	0.00	0.00	0.21	1.54	3.64	11.98	3.33	0.93	0.23	0.53	0.00	0.00	13.10
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	0.00	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
27JUN	SE	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	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
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL	SE	0.00	0.00	0.00	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	11	10	8	10	6						75
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG	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	10	14	13	8	10	6						78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG	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
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP	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
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP	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
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT	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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	106 106 7	146 69 9	252 126 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	52 52 7	189 107 8	70 70 8	20 20 10	330 139 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	44 44 8	0 0 10	44 44 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	1139 1003 6	1544 458 14	23718 10190 10	9941 5829 11	0 0 7	0 0 8	0 0 8	0 0 10	36342 11791 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	56 56 14	1625 539 13	3309071 1187483 7	738564 331019 14	1191319 1068104 10	1609097 576072 9	552856 198826 7	53864 12720 8	604 483 6	33 33 6	7457089 1741289 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	209 209 10	1164 519 14	19983 8987 14	84769 40171 13	2519079 1129806 7	432636 137640 14	24788 11169 10	345710 223334 9	755227 367455 7	656594 260041 8	14207 8870 6	753 753 6	4855119 1244921 126
28MAY- ST.CROP 31MAY SE NO. TOWS	487 238 8	0 0 10	22636 8632 14	11284 2988 14	14143 10651 13	15758 5534 7	27737 3990 14	35307 17193 10	123277 53405 9	257939 83256 7	184261 32757 8	31051 15673 6	203 116 6	724081 107895 126

TABLE D-2 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	1118	1147	4706	5836	22739	31226	41278	33481	10542	83572	26026	30674	292346	
06JUN SE	0	1038	637	2329	3184	12246	17596	35169	13723	2761	26400	8028	14557	53691	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	0	0	0	0	0	696	3921	2630	10909	1188	969	180	209	20702	
13JUN SE	0	0	0	0	0	249	1052	903	4444	471	626	128	209	4734	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	0	0	0	31	418	1304	2394	1850	237	32	93	0	0	6360	
20JUN SE	0	0	0	31	321	756	1675	992	154	32	93	0	0	2121	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- ST.CROP	0	0	0	0	380	0	0	0	0	0	0	0	0	380	
27JUN SE	0	0	0	0	343	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	
08JUL- 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	
22JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
25JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
07AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.21 0.21 9	0.02 0.21 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.01 0.14 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	6.85 3.14 14	57.53 16.90 13	219.15 21.24 7	23.38 8.62 14	13.18 4.21 10	14.23 3.35 9	2.01 0.90 7	1.02 0.73 8	0.00 0.00 6	0.68 0.68 6	26.00 29.18 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	37.45 26.20 10	985.24 297.04 14	2428.22 388.26 14	14253.39 1606.73 13	19725.99 6152.62 7	5062.51 1721.93 14	2502.06 783.22 10	2356.41 811.43 9	782.93 305.00 7	36.58 26.65 8	2.13 1.09 6	5.74 5.31 6	3706.05 6708.70 126
28MAY- 31MAY SE NO. TOWS	0.18 0.18 8	2.26 1.02 10	328.33 73.53 14	633.79 162.26 14	1119.80 207.75 13	5950.03 4226.58 7	1061.95 393.84 14	4736.98 2269.29 10	6759.97 1370.78 9	13650.75 5664.43 7	3600.59 1294.40 8	5.15 4.05 6	0.53 0.53 6	2911.56 7673.59 126



TABLE D-3 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.11	1.18	26.05	268.08	301.78	1316.70	3478.87	2307.82	569.96	357.51	84.85	0.00	670.22	
06JUN	SE	0.00	0.11	0.71	17.76	57.47	65.59	396.83	676.68	712.06	102.90	81.49	36.16	0.00	1071.85	
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.47	0.00	0.00	0.67	153.23	342.92	590.92	498.11	169.77	88.53	555.59	1.03	184.71	
13JUN	SE	0.00	0.47	0.00	0.00	0.67	42.13	82.29	191.82	188.27	56.38	36.64	426.37	1.03	516.81	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	7.07	25.77	30.13	75.04	10.98	10.52	8.19	11.07	1.63	0.76	13.94	
20JUN	SE	0.00	0.00	0.00	4.51	7.85	8.14	24.36	3.56	3.31	2.66	6.03	1.26	0.76	28.48	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.00	0.00	0.69	11.71	7.41	0.14	0.00	0.39	0.00	1.16	0.40	7.59	2.27	
27JUN	SE	0.00	0.00	0.00	0.69	11.48	1.59	0.14	0.00	0.39	0.00	0.72	0.40	4.24	12.39	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	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	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL	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	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG	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	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	15 15 9	15 15 126	15 15 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	29 29 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	29 29 135	29 29 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	1012 464 14	11985 3520 13	45464 4407 7	3268 1204 14	3930 1255 10	2355 554 9	284 128 7	180 129 8	0 0 6	48 48 6	68528 5949 126	68528 5949 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	8593 6012 10	317061 95590 14	358737 57361 14	2969499 334740 13	4092270 1276397 7	707693 240710 14	745949 233504 10	389950 134279 9	110761 43148 7	6448 4698 8	343 174 6	408 378 6	9707713 1373348 126	9707713 1373348 126
28MAY- ST. CROP 31MAY SE NO. TOWS	38 38 8	518 234 10	105661 23663 14	93635 23972 14	233294 43283 13	1234369 876829 7	148451 55055 14	1412252 676551 10	1118672 226843 9	1931170 801346 7	634769 228197 8	828 651 6	38 38 6	6913693 1406513 126	6913693 1406513 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, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- ST. CROP	0	26	379	3848	55851	62605	184063	1037169	381908	80632	63027	13639	0	1883148
06JUN SE	0	26	229	2623	11973	13607	55473	201741	117836	14558	14366	5812	0	241763
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	109	0	0	139	31788	47937	176174	82429	24017	15607	89302	73	467575
13JUN SE	0	109	0	0	139	8740	11504	57188	31155	7975	6459	68531	73	96186
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	1044	5369	6251	10490	3273	1742	1159	1952	262	54	31596
20JUN SE	0	0	0	667	1634	1689	3406	1063	548	376	1063	203	54	4507
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	102	2439	1538	20	0	65	0	204	64	540	4971
27JUN SE	0	0	0	102	2391	329	20	0	65	0	127	64	302	2440
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-5 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.73 0.46 8	70.97 42.73 10	716.40 212.99 14	692.45 106.52 14	2394.92 393.64 13	904.89 460.85 7	274.54 78.85 14	39.81 17.09 10	24.31 19.27 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	393.77 657.84 126
28MAY- 31MAY SE NO. TOWS	350.77 139.07 8	1230.24 187.26 10	10948.55 2717.76 14	7858.00 2027.18 14	7690.22 450.47 13	21452.53 5101.57 7	10381.84 2201.14 14	5488.30 1287.04 10	3738.65 1177.51 9	4829.78 1886.87 7	124.45 67.02 8	0.00 0.00 6	0.48 0.48 6	5699.52 7016.54 126

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, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	22.69	173.64	1471.55	3041.39	5509.45	6634.25	11242.20	8450.28	7639.36	7024.63	138.52	14.46	1.05	3951.04
06JUN	SE	8.26	61.35	577.25	1049.59	509.08	1526.30	3199.03	665.79	1615.58	1475.20	60.69	6.05	1.05	4415.26
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	1.03	11.16	42.04	244.64	2102.70	5678.65	6957.76	5741.79	3898.95	938.42	457.35	5027.01	367.02	2420.66
13JUN	SE	0.63	3.28	9.02	64.46	1152.31	1311.32	1149.77	2002.38	570.62	383.21	109.44	2900.65	237.72	4163.87
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	80.60	327.29	1537.05	2552.87	2441.37	1307.53	2489.01	601.37	314.03	1842.61	44.43	10.15	0.77	1042.24
20JUN	SE	15.35	152.52	370.36	371.04	649.72	237.17	597.56	132.90	117.07	705.55	27.69	9.05	0.77	1289.89
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	6.89	34.27	328.74	822.32	548.48	191.25	605.67	123.67	105.19	204.11	1015.32	197.23	5.60	322.21
27JUN	SE	4.09	11.37	132.02	185.92	141.40	39.09	236.26	39.88	28.81	35.39	462.47	135.28	5.08	604.46
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	DENSITY	0.00	0.62	31.81	57.87	45.79	44.23	26.10	24.96	NS	NS	NS	NS	NS	28.92
11JUL	SE	0.00	0.37	7.26	34.72	5.48	26.29	5.43	10.11	NS	NS	NS	NS	NS	45.94
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL-	DENSITY	0.00	0.00	0.00	2.11	3.29	1.80	5.42	4.63	NS	NS	NS	NS	NS	2.16
25JUL	SE	0.00	0.00	0.00	2.11	1.40	0.58	3.98	4.63	NS	NS	NS	NS	NS	6.63
	NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.13	0.72	0.00	NS	NS	NS	NS	NS	0.11
07AUG	SE	0.00	0.00	0.00	0.00	0.00	0.13	0.72	0.00	NS	NS	NS	NS	NS	0.73
	NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	NS	NS	NS	NS	NS	0.06
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.23	NS	NS	NS	NS	NS	0.27
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP	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
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP	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
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT	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-6 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	153 97 8	16281 9802 10	230545 68542 14	102300 15737 14	498950 82010 13	187724 95605 7	38379 11023 14	11870 5096 10	4024 3189 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 1090226 0 0 145139 6 6 126
28MAY- ST. CROP 31MAY SE NO. TOWS	73316 29068 8	282243 42962 10	3523370 874606 14	1160915 299490 14	1602152 93850 13	4450450 1058351 7	1451288 307700 14	1636246 383708 10	618690 194860 9	683268 266935 7	21940 11815 8	0 0 6	34 34 6	15503912 1528892 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	4743	39837	473563	449325	1147819	1376312	1571559	2519311	1264196	993773	24421	2324	74	9867257
06JUN SE	1727	14075	185765	155062	106061	316639	447196	198495	267353	208697	10700	972	74	724428
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	216	2560	13528	36143	438069	1178068	972633	1711818	645216	132757	80630	808001	26113	6045751
13JUN SE	132	752	2904	9524	240068	272041	160728	596977	94429	54213	19294	466226	16913	862458
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	16847	75088	494642	377153	508627	271254	347942	179287	51967	260673	7833	1632	54	2592999
20JUN SE	3208	34990	119187	54817	135360	49202	83533	39620	19373	99814	4881	1454	54	241039
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	1440	7863	105793	121487	114268	39676	84667	36872	17407	28875	178997	31700	399	769444
27JUN SE	854	2607	42487	27467	29460	8109	33027	11890	4768	5006	81532	21744	362	109092
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	142	10238	8550	9541	9175	3648	7440	NS	NS	NS	NS	NS	48734
11JUL SE	0	85	2335	5129	1141	5454	759	3014	NS	NS	NS	NS	NS	8513
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL- ST. CROP	0	0	0	312	685	373	757	1379	NS	NS	NS	NS	NS	3506
25JUL SE	0	0	0	312	291	120	556	1379	NS	NS	NS	NS	NS	1551
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG- ST. CROP	0	0	0	0	0	27	100	0	NS	NS	NS	NS	NS	128
07AUG SE	0	0	0	0	0	27	100	0	NS	NS	NS	NS	NS	104
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG- ST. CROP	0	0	0	0	0	0	33	69	NS	NS	NS	NS	NS	102
21AUG SE	0	0	0	0	0	0	20	69	NS	NS	NS	NS	NS	72
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-7 REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-7 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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	13	9	16	7	10	7	6	6	6	123
24JUN- DENSITY	0.00	0.00	4.66	1.02	0.15	0.53	0.53	1.59	0.00	0.00	1.50	5.92	2.65	2.02	1.54
27JUN SE	0.00	0.00	3.71	0.60	0.11	0.53	0.53	0.96	0.00	0.00	0.83	1.83	1.85	2.02	5.19
NO. TOWS	7	11	14	11	13	13	9	16	7	10	7	6	6	6	123
08JUL- DENSITY	0.00	0.74	19.50	18.51	4.07	1.82	1.82	6.25	2.18	NS	NS	NS	NS	NS	6.63
11JUL SE	0.00	0.47	12.96	6.61	1.37	0.86	0.86	2.08	1.13	NS	NS	NS	NS	NS	14.83
NO. TOWS	6	11	13	14	13	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL- DENSITY	0.00	0.71	3.58	6.26	3.32	2.19	2.19	7.30	0.89	NS	NS	NS	NS	NS	3.03
25JUL SE	0.00	0.42	3.42	3.15	0.97	1.65	1.65	3.11	0.19	NS	NS	NS	NS	NS	5.93
NO. TOWS	6	11	13	11	10	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG- DENSITY	0.00	2.32	12.68	11.94	1.55	2.82	2.82	19.46	1.30	NS	NS	NS	NS	NS	6.51
07AUG SE	0.00	2.32	4.78	8.13	0.56	0.87	0.87	11.53	0.90	NS	NS	NS	NS	NS	15.14
NO. TOWS	6	11	10	14	13	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG- DENSITY	0.00	0.00	0.00	3.62	1.40	0.81	0.81	6.98	0.98	NS	NS	NS	NS	NS	1.73
21AUG SE	0.00	0.00	0.00	2.07	0.58	0.61	0.61	3.36	0.21	NS	NS	NS	NS	NS	4.04
NO. TOWS	6	11	13	14	13	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP- DENSITY	0.00	0.00	3.08	16.99	0.41	1.23	1.23	6.43	1.92	NS	NS	NS	NS	NS	3.76
05SEP SE	0.00	0.00	2.07	10.47	0.21	0.68	0.68	3.19	1.37	NS	NS	NS	NS	NS	11.24
NO. TOWS	6	11	13	14	13	13	8	10	6	NS	NS	NS	NS	NS	81
16SEP- DENSITY	0.00	0.00	0.69	0.00	0.41	8.09	8.09	2.81	19.52	NS	NS	NS	NS	NS	3.94
18SEP SE	0.00	0.00	0.69	0.00	0.21	2.27	2.27	1.59	12.10	NS	NS	NS	NS	NS	12.44
NO. TOWS	6	11	13	14	13	13	8	10	6	NS	NS	NS	NS	NS	81
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.17	0.17	3.63	0.00	NS	NS	NS	NS	NS	0.47
01OCT SE	0.00	0.00	0.00	0.00	0.00	0.10	0.10	1.71	0.00	NS	NS	NS	NS	NS	1.72
NO. TOWS	6	11	13	14	13	13	8	10	6	NS	NS	NS	NS	NS	81

TABLE D-8 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-8 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	1501	151	31	110	223	0	0	213	1044	426	144	3842	3842
27JUN SE	0	0	1194	88	22	110	134	0	0	118	322	297	144	1300	1300
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
08JUL- ST. CROP	0	170	6275	2735	849	377	874	649	NS	NS	NS	NS	NS	11928	11928
11JUL SE	0	107	4171	976	286	178	291	337						4321	4321
NO. TOWS	6	11	13	14	13	8	10	6						81	81
22JUL- ST. CROP	0	163	1152	926	692	455	1021	265	NS	NS	NS	NS	NS	4674	4674
25JUL SE	0	96	1101	465	202	342	435	55						1337	1337
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	533	4079	1764	323	585	2720	388	NS	NS	NS	NS	NS	10393	10393
07AUG SE	0	533	1538	1201	117	180	1612	268						2609	2609
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	535	292	169	976	293	NS	NS	NS	NS	NS	2265	2265
21AUG SE	0	0	0	306	121	127	470	62						591	591
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	991	2509	84	255	898	573	NS	NS	NS	NS	NS	5310	5310
05SEP SE	0	0	667	1547	45	141	445	408						1795	1795
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	222	0	86	1678	393	5819	NS	NS	NS	NS	NS	8198	8198
18SEP SE	0	0	222	0	43	471	222	3608						3652	3652
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	36	507	0	NS	NS	NS	NS	NS	543	543
01OCT SE	0	0	0	0	0	21	240	0						241	241
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.11	0.47	5.69	1.93	33.63	5.37	61.99	118.18	16.16	101.11	9.24	1.20	0.17	27.33
04JUL SE	0.08	0.45	2.49	0.91	11.72	2.31	30.95	60.89	6.79	37.02	0.50	0.53	0.17	78.94
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.14	1.06	8.56	20.20	4.24	4.11	11.64	4.02	1.91	39.07	42.07	9.21	2.07	11.41
19JUL SE	0.08	0.72	3.37	5.40	1.53	0.95	3.43	1.43	0.58	11.01	17.03	5.53	1.21	22.40
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.03	0.18	1.21	3.40	2.35	0.85	5.08	0.66	1.41	20.33	6.00	8.73	0.65	3.91
01AUG SE	0.03	0.06	0.64	1.07	0.68	0.40	1.80	0.28	0.74	6.15	1.26	3.67	0.43	7.69
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.16	0.22	1.57	1.37	0.58	2.31	3.66	0.89	0.09	7.37	13.55	2.21	0.86	2.68
15AUG SE	0.07	0.09	0.92	0.51	0.35	1.11	1.40	0.36	0.03	1.69	9.28	0.61	0.86	9.73
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.09	0.00	0.22	1.15	0.75	0.34	3.93	0.52	0.23	15.19	9.05	1.07	0.10	2.51
29AUG SE	0.09	0.00	0.16	0.68	0.39	0.23	1.55	0.28	0.18	5.77	2.64	0.39	0.10	6.60
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.10	0.00	0.13	2.57	3.51	1.15	3.71	0.17	0.03	4.91	1.03	0.56	0.28	1.40
12SEP SE	0.05	0.00	0.06	0.88	1.64	0.49	1.34	0.08	0.03	2.46	0.56	0.43	0.17	3.48
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.02	0.19	0.12	0.74	0.12	3.87	0.05	1.68	2.85	6.19	2.02	0.47	1.41
26SEP SE	0.00	0.02	0.17	0.06	0.26	0.05	1.15	0.03	0.83	1.48	4.82	1.70	0.36	5.53
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.34	1.13	0.41	0.75	0.69	0.37	1.22	0.42	2.54	2.61	0.24	0.11	0.83
10OCT SE	0.00	0.32	0.44	0.33	0.22	0.34	0.12	0.49	0.35	0.74	0.92	0.12	0.11	1.54
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.50	0.21	0.13	0.03	0.73	0.09	0.03	0.03	0.43	0.00	0.05	0.17
24OCT SE	0.00	0.00	0.21	0.17	0.09	0.03	0.28	0.05	0.02	0.03	0.27	0.00	0.05	0.49
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.07	0.24	0.06	0.26	0.11	0.05	0.06	0.11	0.01	0.83	0.02	0.07	0.00	0.15
07NOV SE	0.03	0.08	0.03	0.12	0.05	0.02	0.03	0.03	0.01	0.48	0.02	0.07	0.00	0.52
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.21	0.24	0.14	0.24	0.03	0.10	0.03	0.14	0.56	0.09	0.05	0.03	0.00	0.14
22NOV SE	0.11	0.06	0.13	0.11	0.02	0.03	0.02	0.09	0.21	0.04	0.03	0.03	0.00	0.32
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-10 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	23	107	1832	285	7006	1115	8666	35233	2674	14304	1629	193	12	73078	
04JUL SE	16	102	801	134	2441	479	4326	18153	1124	5237	88	85	12	19591	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- ST. CROP	30	244	2755	2984	884	853	1627	1198	315	5527	7416	1480	147	25460	
19JUL SE	17	164	1085	797	318	196	479	426	96	1558	3002	890	86	3826	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- ST. CROP	7	41	390	502	490	176	710	198	233	2876	1058	1403	46	8130	
01AUG SE	7	14	207	158	142	82	251	83	123	870	222	590	31	1155	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- ST. CROP	33	50	505	203	122	478	512	266	14	1043	2389	355	61	6033	
15AUG SE	14	20	296	75	74	230	196	107	6	239	1636	98	61	1717	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- ST. CROP	19	0	69	169	156	70	549	154	38	2150	1595	172	7	5150	
29AUG SE	19	0	50	100	82	47	217	84	30	816	465	63	7	981	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- ST. CROP	21	0	41	380	730	239	519	52	5	694	182	89	20	2974	
12SEP SE	10	0	21	130	342	101	187	25	5	348	98	69	12	562	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- ST. CROP	0	5	62	18	154	25	541	16	278	403	1091	324	34	2951	
26SEP SE	0	5	54	9	54	10	161	9	137	209	849	274	26	944	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	0	78	364	60	157	144	52	364	69	359	459	39	8	2153	
10OCT SE	0	73	140	49	45	70	17	147	57	105	163	20	8	312	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	0	160	31	27	7	102	26	5	4	76	0	3	442	
24OCT SE	0	0	67	25	19	6	39	16	3	4	48	0	3	98	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- ST. CROP	15	54	18	39	22	10	9	31	2	118	4	11	0	334	
07NOV SE	7	19	9	18	9	4	4	10	2	68	4	11	0	76	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	44	54	45	35	7	21	4	41	93	13	9	5	0	371	
22NOV SE	24	14	40	17	4	7	3	26	35	6	6	5	0	69	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.03
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.22
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	33.33	41.00	0.57	0.33	22.00	3.33	8.63	8.63	12.63	15.67	5.00	6.67	13.15
26JUN SE	16.91	19.73	0.30	0.33	15.82	0.33	7.38	3.56	6.68	8.65	1.17	2.69	33.48
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	15.67	10.09	19.57	276.67	16.67	1.67	22.38	15.38	8.13	19.07	27.26	3.08	36.30
10JUL SE	4.41	3.15	6.55	260.19	8.99	0.88	9.03	4.24	2.41	4.74	17.34	1.14	261.31
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	26.40	16.92	20.29	25.40	16.20	4.83	3.40	7.00	38.60	59.78	6.50	4.14	19.12
24JUL SE	8.07	3.50	4.32	3.59	5.58	1.30	0.93	4.09	20.69	29.37	1.70	1.94	38.17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	23.20	16.29	28.00	20.60	30.40	20.33	7.00	4.20	10.80	14.33	6.20	7.29	15.72
08AUG SE	8.82	3.14	6.73	5.27	17.38	10.12	4.79	2.96	5.12	4.68	1.68	1.46	25.49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	23.20	14.00	17.93	12.20	10.20	16.33	3.00	3.20	12.00	19.67	4.00	10.43	12.18
22AUG SE	8.08	2.46	3.82	2.65	2.63	4.42	1.76	1.16	2.70	6.03	2.29	2.92	13.47
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	5.00	16.25	22.50	5.20	3.80	11.67	11.40	0.60	18.40	18.00	2.50	1.86	9.76
05SEP SE	1.30	3.93	7.03	3.12	1.16	3.98	3.28	0.40	11.99	5.47	0.69	0.96	16.72
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	4.80	9.96	8.57	4.60	8.00	9.67	3.40	2.00	11.20	8.89	9.30	1.71	6.84
19SEP SE	2.75	1.86	1.47	2.04	1.55	3.49	1.69	0.84	4.51	3.33	7.32	1.71	11.11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	3.80	6.29	7.29	11.20	8.80	6.67	3.20	3.60	4.80	3.56	1.60	0.29	5.09
03OCT SE	1.43	1.14	2.26	5.26	2.15	1.71	0.73	2.23	1.07	1.43	0.78	0.29	7.28
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	5.60	5.83	6.29	13.80	5.00	5.50	1.80	1.40	2.80	4.78	2.60	0.14	4.63
17OCT SE	3.41	0.93	1.84	3.06	0.89	2.35	0.73	0.75	0.86	1.41	0.83	0.14	6.01
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	6	0	6
12JUN SE	0	0	0	0	0	0	0	0	0	0	4	0	4
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	251	1863	15	3	58	36	61	11	109	275	98	91	2870
26JUN SE	127	896	8	3	42	4	52	4	58	152	23	37	923
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	118	458	526	2550	44	18	159	19	70	335	536	42	4875
10JUL SE	33	143	176	2398	24	9	64	5	21	83	341	16	2435
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	199	769	546	234	43	51	24	9	332	1049	128	56	3440
24JUL SE	61	159	116	33	15	14	7	5	178	516	33	26	586
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	175	740	753	190	80	217	50	5	93	252	122	99	2775
08AUG SE	66	143	181	49	46	108	34	4	44	82	33	20	292
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	175	636	482	112	27	174	21	4	103	345	79	142	2300
22AUG SE	61	112	103	24	7	47	12	1	23	106	45	40	212
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	38	738	605	48	10	124	81	1	158	316	49	25	2194
05SEP SE	10	178	189	29	3	42	23	< 0.5	103	96	14	13	302
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	36	452	230	42	21	103	24	2	96	156	183	23	1371
19SEP SE	21	84	40	19	4	37	12	1	39	58	144	23	193
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	29	286	196	103	23	71	23	4	41	62	31	4	874
03OCT SE	11	52	61	48	6	18	5	3	9	25	15	4	101
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	42	265	169	127	13	59	13	2	24	84	51	2	851
17OCT SE	26	42	49	28	2	25	5	1	7	25	16	2	85
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	1.71 0.39 7	0.74 0.74 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.19 0.83 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.27 0.27 13	1.66 0.73 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.15 0.77 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.16 0.16 15	0.17 0.17 15	0.15 0.15 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.04 0.28 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.16 0.16 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.01 0.16 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.17 0.17 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.01 0.17 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.26 0.26 10	0.14 0.14 14	0.21 0.21 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.18 0.18 9	0.27 0.27 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.08 0.49 126
28MAY- 31MAY SE NO. TOWS	0.21 0.21 8	0.00 0.00 10	0.00 0.00 14	0.21 0.21 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.03 0.30 126



TABLE D-13 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- 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
06JUN 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	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- DENSITY	0.00	0.21	0.00	0.49	0.15	0.00	0.00	0.00	0.00	0.26	0.50	0.38	0.00	0.00	0.15
20JUN SE	0.00	0.21	0.00	0.31	0.12	0.00	0.00	0.00	0.00	0.26	0.50	0.38	0.00	0.00	0.78
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN- DENSITY	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.17
27JUN SE	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	0.00	1.89
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	NS	NS	NS	NS	NS	NS	0.11
11JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	NS	NS	NS	NS	NS	NS	0.84
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
22JUL- 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
25JUL 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	11	10	8	10	6	NS	NS	NS	NS	NS	NS	75
05AUG- 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
07AUG 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	10	14	13	8	10	6	NS	NS	NS	NS	NS	NS	78
19AUG- 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
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.01
05SEP SE	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.04
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
16SEP- 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
18SEP 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
29SEP- 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
01OCT 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-14 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	358 82 7	169 169 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	527 188 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	61 61 13	534 233 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	596 241 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	51 51 15	26 26 15	31 31 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	108 65 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	53 53 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	53 53 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	35 35 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	35 35 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	60 60 10	44 44 14	31 31 14	0 0 13	0 0 7	0 0 14	0 0 10	30 30 9	38 38 7	0 0 8	0 0 6	0 0 6	203 94 126
28MAY- ST. CROP 31MAY SE NO. TOWS	44 44 8	0 0 10	0 0 14	31 31 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	76 54 126

TABLE D-14 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
06JUN SE	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- ST. CROP	0	47	0	72	32	0	0	0	0	36	88	62	0	0	338
20JUN SE	0	47	0	45	25	0	0	0	0	36	88	62	0	0	133
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN- ST. CROP	0	0	105	0	0	0	0	0	0	0	328	0	0	0	434
27JUN SE	0	0	105	0	0	0	0	0	0	0	328	0	0	0	345
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL- ST. CROP	0	0	0	0	0	0	0	251	NS	NS	NS	NS	NS	NS	251
11JUL SE	0	0	0	0	0	0	0	251							251
NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP- ST. CROP	0	0	0	0	9	0	0	0	NS	NS	NS	NS	NS	NS	9
05SEP SE	0	0	0	0	9	0	0	0							9
NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.18	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.02
04JUL SE	0.00	0.00	0.08	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.12
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.22	0.03	0.00	0.00	0.00	0.00	0.52	0.06	0.13	0.00	0.00	0.07
19JUL SE	0.00	0.00	0.13	0.03	0.00	0.00	0.00	0.00	0.52	0.06	0.07	0.00	0.00	0.54
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.00	0.02	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
01AUG SE	0.00	0.00	0.00	0.02	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
15AUG SE	0.00	0.00	0.00	0.03	0.00	0.00	0.03	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
26AUG- DENSITY	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
29AUG SE	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.05	0.00	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12SEP SE	0.00	0.00	0.03	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.02	0.02	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.03
26SEP SE	0.00	0.00	0.02	0.02	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.40
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	0.04	0.00	0.02	0.21	0.00	0.00	0.00	0.00	0.00	0.02
10OCT SE	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.19	0.00	0.00	0.00	0.00	0.00	0.19
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	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
24OCT 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	0.00	0.06
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.02	0.02	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07NOV SE	0.02	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.02	0.10	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
22NOV SE	0.02	0.04	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-16 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	58	4	0	0	1	0	0	0	0	0	0	6	69
04JUL SE	0	0	27	4	0	0	1	0	0	0	0	0	0	6	28
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	0	0	70	4	0	0	0	0	86	8	22	0	0	0	190
19JUL SE	0	0	42	4	0	0	0	0	86	8	13	0	0	0	97
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	0	0	0	3	0	0	1	0	0	0	0	0	0	0	4
01AUG SE	0	0	0	3	0	0	1	0	0	0	0	0	0	0	3
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	0	0	0	4	0	0	4	0	0	0	0	0	0	0	8
15AUG SE	0	0	0	4	0	0	4	0	0	0	0	0	0	0	5
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
29AUG SE	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
09SEP- ST. CROP	0	0	16	0	6	2	1	0	0	0	0	0	0	0	25
12SEP SE	0	0	11	0	3	2	1	0	0	0	0	0	0	0	12
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	0	0	7	3	0	0	56	0	0	0	0	0	0	0	66
26SEP SE	0	0	7	3	0	0	56	0	0	0	0	0	0	0	57
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	0	0	9	0	2	61	0	0	0	0	0	0	72
10OCT SE	0	0	0	0	5	0	1	57	0	0	0	0	0	0	57
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25
24OCT SE	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	4	4	6	0	5	0	0	0	0	0	0	0	0	0	18
07NOV SE	4	4	6	0	3	0	0	0	0	0	0	0	0	0	8
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	4	23	40	9	0	0	0	0	0	0	0	0	0	0	75
22NOV SE	4	9	40	5	0	0	0	0	0	0	0	0	0	0	41
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150

TABLE D-17 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF STRIPED BASS YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.67	0.55	2.71	0.33	0.00	0.00	0.13	0.00	0.00	0.00	0.58	1.67	0.55
12JUN SE	0.67	0.37	1.02	0.33	0.00	0.00	0.13	0.00	0.00	0.00	0.34	0.69	1.53
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	1.82	0.57	0.00	0.67	0.00	0.50	0.13	0.63	0.13	0.53	1.00	0.50
26JUN SE	0.00	1.15	0.37	0.00	0.33	0.00	0.38	0.13	0.42	0.09	0.29	0.44	1.48
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	1.33	0.09	0.14	0.00	0.00	0.00	1.13	0.00	0.00	0.07	0.32	0.17	0.27
10JUL SE	1.33	0.09	0.14	0.00	0.00	0.00	0.99	0.00	0.00	0.07	0.23	0.11	1.69
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.20	0.11	0.10	0.14	0.07
24JUL SE	0.00	0.10	0.07	0.00	0.00	0.00	0.00	0.00	0.20	0.11	0.10	0.14	0.31
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.40	0.63	0.71	0.00	0.00	0.17	0.20	0.00	0.00	0.00	0.00	0.14	0.19
08AUG SE	0.40	0.24	0.40	0.00	0.00	0.17	0.20	0.00	0.00	0.00	0.00	0.14	0.68
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.20	0.46	0.93	0.00	0.00	0.33	0.20	0.00	0.00	0.00	0.00	0.29	0.20
22AUG SE	0.20	0.17	0.63	0.00	0.00	0.21	0.20	0.00	0.00	0.00	0.00	0.29	0.80
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.80	0.25	0.36	0.00	0.00	0.00	0.00	0.20	0.00	0.33	0.80	0.43	0.26
05SEP SE	0.58	0.11	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.17	0.47	0.43	0.93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.96	0.50	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.50	0.86	0.25
19SEP SE	0.00	0.41	0.25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.40	0.86	1.08
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.40	0.29	0.07	0.00	0.00	0.33	0.20	0.00	0.00	0.11	0.50	0.00	0.16
03OCT SE	0.24	0.13	0.07	0.00	0.00	0.21	0.20	0.00	0.00	0.11	0.50	0.00	0.65
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.20	0.29	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10
17OCT SE	0.20	0.11	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.32
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	5	25	73	3	0	0	1	0	0	0	11	23	141
12JUN SE	5	17	27	3	0	0	1	0	0	0	7	9	35
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	83	15	0	2	0	4	< 0.5	5	2	10	14	135
26JUN SE	0	52	10	0	1	0	3	< 0.5	4	2	6	6	54
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	10	4	4	0	0	0	8	0	0	1	6	2	36
10JUL SE	10	4	4	0	0	0	7	0	0	1	5	2	14
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	8	2	0	0	0	0	0	2	2	2	2	17
24JUL SE	0	4	2	0	0	0	0	0	2	2	2	2	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	3	28	19	0	0	2	1	0	0	0	0	2	56
08AUG SE	3	11	11	0	0	2	1	0	0	0	0	2	16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	2	21	25	0	0	4	1	0	0	0	0	4	56
22AUG SE	2	8	17	0	0	2	1	0	0	0	0	4	19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	6	11	10	0	0	0	0	< 0.5	0	6	16	6	55
05SEP SE	4	5	5	0	0	0	0	< 0.5	0	3	9	6	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	44	13	0	1	0	0	0	0	0	10	12	79
19SEP SE	0	18	7	0	1	0	0	0	0	0	8	12	24
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	3	13	2	0	0	4	1	0	0	2	10	0	35
03OCT SE	2	6	2	0	0	2	1	0	0	2	10	0	12
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	2	13	15	0	0	0	0	0	0	0	2	0	32
17OCT SE	2	5	5	0	0	0	0	0	0	0	2	0	8
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.18 0.18 7	0.24 0.18 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.03 0.25 126
07APR- 11APR SE NO. TOWS	0.89 0.30 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.07 0.30 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.30 0.26 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.02 0.26 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.45 0.45 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.03 0.45 126



TABLE D-19 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- 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	0.03
27JUN 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	0.33
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL 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	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-20 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	38 38 7	54 40 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	92 56 126
07APR- ST. CROP 11APR SE NO. TOWS	185 62 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	185 62 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	42 37 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	42 37 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	95 95 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	95 95 126

TABLE D-20 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	105	0	0	0	0	0	0	0	0	0	0	105	
27JUN SE	0	0	105	0	0	0	0	0	0	0	0	0	0	105	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	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, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- 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
01AUG SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.02
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.23
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
29AUG SE	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
07NOV SE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.02	0.02	0.00	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01
22NOV SE	0.02	0.02	0.00	0.00	0.04	0.00	0.00	0.02	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

TABLE D-22 REGIONAL STANDING CROP (IN THOUSANDS) OF STRIPED BASS OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	5	0	0	0	0	0	0	0	0	0	0	0	5
01AUG SE	0	5	0	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
12AUG- ST. CROP	0	0	0	0	0	0	0	68	0	0	0	0	0	68
15AUG SE	0	0	0	0	0	0	0	68	0	0	0	0	0	68
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	8	0	0	0	0	0	0	0	0	0	0	8
29AUG SE	0	0	8	0	0	0	0	0	0	0	0	0	0	8
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	6	0	0	0	0	0	0	0	0	0	0	6
07NOV SE	0	0	6	0	0	0	0	0	0	0	0	0	0	6
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	4	4	0	0	10	0	0	5	0	0	0	0	0	23
22NOV SE	4	4	0	0	8	0	0	5	0	0	0	0	0	11
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
12JUN SE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.01
10JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG 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
02SEP- CPUE	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.14	0.07
05SEP SE	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.14	0.32
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.05
19SEP SE	0.00	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.32
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.03
03OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40
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	0.17	0.00	0.00	0.20	0.00	0.10	0.00	0.04
17OCT SE	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.20	0.00	0.10	0.00	0.28
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	3	0	0	0	0	0	0	0	0	3
12JUN SE	0	0	0	3	0	0	0	0	0	0	0	0	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
10JUL SE	0	0	0	0	0	0	1	0	0	0	0	0	1
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	4	0	0	0	0	0	0	0	0	0	4
22AUG 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
02SEP- ST. CROP	0	8	2	0	0	0	0	0	0	0	8	2	19
05SEP SE	0	8	2	0	0	0	0	0	0	0	4	2	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	4	2	0	0	0	0	0	0	0	0	6	12
19SEP SE	0	4	2	0	0	0	0	0	0	0	0	4	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	8	0	8
03OCT SE	0	0	0	0	0	0	0	0	0	0	8	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	2	0	0	2	0	2	0	5
17OCT SE	0	0	0	0	0	2	0	0	2	0	2	0	3
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	6.44 4.76 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.28 0.28 10	0.52 4.77 135	0.52 4.77 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	1.88 1.88 10	0.38 0.38 11	0.55 0.55 7	0.93 0.47 8	10.36 7.11 8	167.91 61.24 10	14.00 61.68 135	14.00 61.68 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.24 0.24 15	0.00 0.00 12	1.09 0.97 6	0.00 0.00 14	0.18 0.18 10	0.15 0.15 11	11.30 4.73 7	182.61 99.15 8	27.05 3.49 8	6.76 2.69 10	17.64 99.36 135	17.64 99.36 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.92 0.92 7	0.00 0.00 14	74.63 73.96 10	3.96 3.23 9	208.31 97.29 7	97.05 28.34 8	188.23 118.74 6	51.77 27.09 6	48.07 174.88 126	48.07 174.88 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	22.16 20.81 10	0.00 0.00 9	14.91 7.82 7	117.13 44.62 8	88.63 13.35 6	3.86 2.42 6	18.98 51.66 126	18.98 51.66 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.66 0.66 7	1.12 0.60 14	0.60 0.45 10	0.00 0.00 9	14.87 14.53 7	159.23 37.43 8	103.18 53.74 6	334.06 91.37 6	47.21 113.36 126	47.21 113.36 126



TABLE D-25 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.27	0.34	1.87	6.41	40.41	188.30	32.64	3.39	21.05
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.27	0.34	1.08	3.11	34.61	93.60	15.08	1.52	100.99
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.42	1.03	0.30	4.20	4.27	0.80
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.31	0.78	0.30	1.87	3.46	4.03
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	1.37	1.32	0.00	0.00	0.22
20JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	1.37	1.32	0.00	0.00	1.91
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL 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	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	1342 992 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	20 20 10	1362 992 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	560 560 10	64 64 11	78 78 7	165 84 8	1664 1143 8	11947 4357 10	14477 4541 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	35 35 15	0 0 12	227 200 6	0 0 14	53 53 10	25 25 11	1599 668 7	32194 17479 8	4348 561 8	481 191 10	38962 17504 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	191 191 7	0 0 14	22251 22051 10	656 534 9	29469 13764 7	17109 4997 8	30255 19085 6	3683 1928 6	103615 32695 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	6608 6204 10	0 0 9	2109 1106 7	20650 7866 8	14245 2145 6	275 172 6	43886 10307 126
28MAY- ST.CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	137 137 7	156 83 14	178 135 10	0 0 9	2104 2056 7	28072 6599 8	16584 8637 6	23768 6501 6	70999 12833 126

TABLE D-26 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	0	0	0	0	57	48	557	1061	5717	33196	5247	241	46123	
06JUN SE	0	0	0	0	0	57	48	322	514	4896	16502	2424	108	17394	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	0	0	0	0	0	0	33	0	70	146	52	675	304	1279	
13JUN SE	0	0	0	0	0	0	27	0	51	111	52	300	246	411	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	0	0	0	0	0	0	22	0	0	194	233	0	0	449	
20JUN SE	0	0	0	0	0	0	22	0	0	194	233	0	0	304	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27JUN 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	
08JUL- 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	
22JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75	
05AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78	
19AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG 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	
03SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP 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	
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP 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	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.04 0.04 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	< 0.005 0.04 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.16 0.16 15	0.00 0.00 12	0.96 0.96 6	1.00 0.56 14	0.00 0.00 10	0.98 0.54 11	0.00 0.00 7	1.18 0.63 8	3.80 1.54 8	10.60 3.75 10	1.44 4.29 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.56 0.42 14	0.00 0.00 13	1.05 0.93 7	0.50 0.30 14	6.35 5.99 10	74.62 13.71 9	189.80 11.05 7	284.18 73.96 8	485.49 75.83 6	183.08 52.94 6	94.28 119.88 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	3.22 1.83 14	18.66 4.05 14	20.81 10.38 13	56.07 53.74 7	9.04 6.27 14	25.32 9.60 10	49.45 27.85 9	294.85 42.35 7	143.23 54.19 8	34.97 4.23 6	18.44 10.09 6	51.85 93.66 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	1.89 0.52 14	3.93 3.46 13	0.51 0.51 7	12.41 4.27 14	12.94 6.88 10	17.26 7.89 9	70.76 34.31 7	190.01 55.82 8	675.94 83.41 6	165.04 64.32 6	88.51 124.61 126

TABLE D-27 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.47	1.30	13.96	0.00	4.72	42.47	518.15	519.50	264.66	105.02	
06JUN SE	0.00	0.00	0.00	0.00	0.47	0.50	4.33	0.00	2.16	17.32	115.25	96.95	103.39	183.57	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	0.42	0.00	3.09	6.30	2.48	4.99	11.55	4.92	44.98	175.63	19.57	
13JUN SE	0.00	0.00	0.00	0.42	0.00	2.11	3.91	1.26	2.61	4.62	2.46	9.98	47.92	49.52	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.26	0.13	1.29	0.80	1.01	3.50	1.62	0.44	9.40	1.42	
20JUN SE	0.00	0.00	0.00	0.00	0.22	0.13	1.10	0.80	0.42	1.46	1.14	0.44	5.75	6.23	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	27.12	2.12	
27JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	17.92	17.93	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- 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	
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL 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	11	10	8	10	6						75	
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG 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	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG 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	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP 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	
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP 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	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	5 5 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	5 5 135	5 5 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	24 24 15	0 0 12	198 198 6	140 79 14	0 0 10	162 90 11	0 0 7	208 111 8	611 248 8	754 267 10	2098 447 135	2098 447 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	83 62 14	0 0 13	218 193 7	69 41 14	1894 1785 10	12348 2269 9	26851 1564 7	50099 13039 8	78034 12188 6	13026 3767 6	182622 18536 126	182622 18536 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	1035 589 14	2757 598 14	4335 2162 13	11631 11149 7	1264 876 14	7548 2862 10	8183 4609 9	41713 5992 7	25251 9554 8	5621 681 6	1312 718 6	110652 16971 126	110652 16971 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	279 76 14	819 720 13	107 107 7	1734 597 14	3857 2052 10	2857 1305 9	10010 4854 7	33499 9841 8	108645 13407 6	11742 4576 6	173548 18108 126	173548 18108 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, 2014  
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	98	270	1952	0	782	6008	91348	83500	18830	202788
06JUN SE	0	0	0	0	98	104	606	0	357	2451	20318	15583	7356	26764
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	0	0	62	0	641	881	739	825	1634	867	7229	12496	25374
13JUN SE	0	0	0	62	0	437	547	375	432	654	434	1604	3410	3954
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	54	27	180	239	167	496	285	70	669	2187
20JUN SE	0	0	0	0	46	27	154	239	70	206	202	70	409	587
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	64	1930	1993
27JUN SE	0	0	0	0	0	0	0	0	0	0	0	64	1275	1277
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-29 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.40 0.40 13	1.84 1.84 7	0.30 0.26 14	0.66 0.66 10	4.94 2.29 9	10.46 5.09 7	3.65 1.30 8	1.05 1.05 6	0.68 0.68 6	1.85 6.20 126
20MAY- 23MAY SE NO. TOWS	0.59 0.59 8	0.40 0.31 10	7.65 3.32 14	49.96 11.05 14	77.80 38.13 13	33.56 28.07 7	149.80 46.79 14	437.43 84.39 10	331.32 143.01 9	481.81 120.60 7	17.03 7.83 8	5.77 2.99 6	0.00 0.00 6	122.55 216.23 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	45.41 13.94 14	68.42 11.62 14	139.26 23.70 13	237.78 96.57 7	425.59 107.73 14	777.04 191.82 10	482.46 149.86 9	583.72 169.45 7	521.56 102.98 8	425.86 245.57 6	0.00 0.00 6	285.16 425.09 126



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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.12	8.33	19.04	99.45	98.39	643.90	620.93	729.22	2905.65	2841.64	1517.04	28.10	731.68
06JUN SE	0.00	0.12	7.23	5.89	26.98	20.91	142.96	58.52	248.37	486.12	646.03	635.19	27.44	1069.90
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	1.61	0.67	0.00	0.87	15.32	54.43	88.63	209.20	679.32	594.70	383.83	4770.86	1184.40	614.14
13JUN SE	1.61	0.59	0.00	0.57	6.34	12.15	13.11	47.65	121.36	164.09	107.06	1511.21	687.88	1677.10
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	6.39	5.97	28.70	78.12	314.54	215.10	717.12	289.93	273.42	1477.45	79.08	28.14	0.49	270.34
20JUN SE	4.33	4.53	8.06	28.37	112.02	78.70	132.87	82.88	111.45	88.70	20.99	27.18	0.49	256.21
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- DENSITY	0.50	0.60	2.06	10.60	30.16	26.52	97.31	51.99	37.94	28.59	62.25	125.24	10.93	37.28
27JUN SE	0.50	0.51	1.05	3.34	7.39	5.61	35.84	10.06	18.13	9.47	11.57	112.91	9.54	121.97
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- DENSITY	0.00	0.00	0.41	0.47	2.16	5.06	10.10	36.43	NS	NS	NS	NS	NS	6.83
11JUL SE	0.00	0.00	0.41	0.47	1.44	2.88	2.73	14.10	NS	NS	NS	NS	NS	14.73
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL- DENSITY	0.00	0.00	0.00	0.00	2.44	2.27	3.33	3.49	NS	NS	NS	NS	NS	1.44
25JUL SE	0.00	0.00	0.00	0.00	1.98	0.89	1.57	1.62	NS	NS	NS	NS	NS	3.13
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	NS	NS	NS	NS	NS	0.04
07AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	NS	NS	NS	NS	NS	0.32
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	84 84 13	383 383 7	42 36 14	198 198 10	818 378 9	1480 720 7	644 230 8	169 169 6	48 48 6	3865 969 126
20MAY- ST. CROP 23MAY SE NO. TOWS	124 124 8	92 70 10	2461 1067 14	7381 1633 14	16208 7944 13	6963 5823 7	20940 6541 14	130412 25158 10	54829 23666 9	68162 17062 7	3002 1381 8	927 480 6	0 0 6	311499 40372 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	14614 4485 14	10109 1716 14	29014 4937 13	49328 20034 7	59494 15060 14	231663 57188 10	79839 24799 9	82580 23972 7	91949 18154 8	68449 39471 6	0 0 6	717037 83805 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	28	2680	2813	20718	20413	90012	185121	120675	411062	500968	243837	1999	1600326
06JUN SE	0	28	2326	870	5621	4337	19985	17448	41101	68772	113893	102095	1952	174866
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	337	154	0	129	3191	11291	12389	62368	112418	84132	67667	766829	84269	1205174
13JUN SE	337	135	0	85	1321	2521	1833	14206	20083	23213	18874	242899	48942	250813
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	1336	1371	9237	11542	65529	44624	100247	86437	45246	209015	13941	4523	35	593083
20JUN SE	906	1039	2595	4191	23337	16327	18575	24709	18443	12549	3701	4368	35	48201
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	106	137	664	1567	6284	5502	13603	15499	6279	4044	10974	20129	778	85565
27JUN SE	106	116	337	493	1539	1165	5010	2999	3000	1340	2040	18148	678	19570
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	0	132	70	451	1049	1412	10860	NS	NS	NS	NS	NS	13973
11JUL SE	0	0	132	70	300	597	382	4204						4277
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	0	0	0	509	470	466	1039	NS	NS	NS	NS	NS	2485
25JUL SE	0	0	0	0	413	184	219	482						697
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	45	0	NS	NS	NS	NS	NS	45
07AUG SE	0	0	0	0	0	0	45	0						45
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-31 REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-31 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	NS	NS	NS	NS	NS	0.03	
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21						0.21	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL -	DENSITY	0.00	0.00	0.25	0.65	0.00	0.00	0.72	0.24	NS	NS	NS	NS	NS	0.23	
25JUL	SE	0.00	0.00	0.25	0.65	0.00	0.00	0.55	0.24						0.92	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	1.58	0.00	0.04	0.00	1.80	3.11	NS	NS	NS	NS	NS	0.82	
07AUG	SE	0.00	0.00	0.00	0.00	0.04	0.00	1.18	2.09						2.39	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.30	6.60	NS	NS	NS	NS	NS	0.86	
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.30	3.63						3.64	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	2.36	7.88	NS	NS	NS	NS	NS	1.28	
05SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	1.08	3.39						3.56	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	1.13	2.34	5.36	NS	NS	NS	NS	NS	1.10	
18SEP	SE	0.00	0.00	0.00	0.00	0.00	0.88	0.94	4.31						4.50	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.51	NS	NS	NS	NS	NS	0.22	
01OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.99						1.01	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-32 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-32 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- ST. CROP	0	0	0	0	0	0	0	63	NS	NS	NS	NS	NS	63	63
11JUL SE	0	0	0	0	0	0	0	63						63	63
NO. TOWS	6	11	13	14	13	8	10	6						81	81
22JUL- ST. CROP	0	0	82	97	0	0	101	70	NS	NS	NS	NS	NS	350	350
25JUL SE	0	0	82	97	0	0	77	70						164	164
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	509	0	9	0	252	928	NS	NS	NS	NS	NS	1698	1698
07AUG SE	0	0	0	0	9	0	164	622						643	643
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	41	1967	NS	NS	NS	NS	NS	2009	2009
21AUG SE	0	0	0	0	0	0	41	1081						1082	1082
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	331	2350	NS	NS	NS	NS	NS	2680	2680
05SEP SE	0	0	0	0	0	0	150	1012						1023	1023
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	235	327	1598	NS	NS	NS	NS	NS	2160	2160
18SEP SE	0	0	0	0	0	183	132	1285						1305	1305
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	33	449	NS	NS	NS	NS	NS	481	481
01OCT SE	0	0	0	0	0	0	33	294						296	296
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, 2014

DATE														ALL REGIONS COMBINED	
	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL		
30JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	2.21	0.73	0.39	0.00	0.26	
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	1.62	0.73	0.39	0.00	1.82	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- DENSITY	0.00	0.00	0.00	0.02	0.33	0.77	0.96	0.55	0.37	2.94	7.39	0.83	0.00	1.09	
19JUL SE	0.00	0.00	0.00	0.02	0.27	0.70	0.46	0.26	0.15	1.70	6.90	0.44	0.00	7.18	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.34	0.06	0.82	2.15	4.39	1.66	0.19	0.00	0.37	0.77	
01AUG SE	0.00	0.00	0.00	0.00	0.29	0.03	0.25	0.57	1.00	1.06	0.13	0.00	0.37	1.66	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	3.11	3.68	6.35	9.51	0.87	0.00	0.00	1.82	
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.10	1.42	0.99	4.33	6.53	0.64	0.00	0.00	8.05	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	1.07	2.20	1.78	2.78	0.14	0.00	0.00	0.61	
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.01	0.37	0.94	0.82	0.75	0.14	0.00	0.00	1.51	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.03	0.01	1.03	2.47	1.39	1.53	0.00	0.00	0.00	0.50	
12SEP SE	0.00	0.00	0.00	0.00	0.02	0.01	0.27	0.82	0.87	0.50	0.00	0.00	0.00	1.32	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.36	1.44	3.13	3.88	0.29	0.00	0.00	0.70	
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.44	0.71	2.50	0.17	0.00	0.00	2.65	
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	0.43	1.70	0.08	0.95	0.69	0.00	0.22	0.31	
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.01	0.19	0.75	0.04	0.40	0.40	0.00	0.22	0.99	
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	0.94	2.13	1.56	1.15	0.02	0.00	0.09	0.45	
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.02	0.26	0.48	0.21	0.64	0.02	0.00	0.09	0.88	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.01	0.06	0.38	1.09	0.95	0.65	0.12	0.00	0.00	0.25	
07NOV SE	0.00	0.00	0.00	0.00	0.01	0.02	0.12	0.43	0.64	0.25	0.06	0.00	0.00	0.82	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.02	0.10	0.64	2.98	3.16	0.68	0.07	0.03	0.00	0.59	
22NOV SE	0.00	0.00	0.00	0.00	0.01	0.03	0.19	0.61	0.68	0.39	0.05	0.03	0.00	1.02	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	



TABLE D-34 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	4	0	5	313	128	62	0	513	
04JUL SE	0	0	0	0	0	0	4	0	3	229	128	62	0	270	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- ST. CROP	0	0	0	4	69	159	135	165	62	416	1303	134	0	2446	
19JUL SE	0	0	0	4	56	145	64	78	24	240	1217	71	0	1257	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- ST. CROP	0	0	0	0	70	12	114	641	727	235	34	0	26	1859	
01AUG SE	0	0	0	0	60	6	35	170	166	150	22	0	26	291	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- ST. CROP	0	0	0	0	0	24	435	1097	1051	1346	153	0	0	4106	
15AUG SE	0	0	0	0	0	20	199	295	716	924	113	0	0	1228	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- ST. CROP	0	0	0	0	0	2	150	657	295	394	25	0	0	1522	
29AUG SE	0	0	0	0	0	2	52	280	135	105	25	0	0	334	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- ST. CROP	0	0	0	0	6	2	145	736	230	216	0	0	0	1335	
12SEP SE	0	0	0	0	4	2	38	245	143	70	0	0	0	295	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- ST. CROP	0	0	0	0	0	2	50	429	518	549	51	0	0	1600	
26SEP SE	0	0	0	0	0	2	14	132	118	354	31	0	0	397	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	0	0	0	0	0	1	60	506	13	134	122	0	16	853	
10OCT SE	0	0	0	0	0	1	26	225	7	57	71	0	16	244	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	0	0	0	0	3	132	634	258	162	4	0	7	1200	
24OCT SE	0	0	0	0	0	3	36	144	34	91	4	0	7	178	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- ST. CROP	0	0	0	0	2	13	53	325	157	93	21	0	0	665	
07NOV SE	0	0	0	0	2	5	17	128	105	35	10	0	0	170	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	0	0	4	20	90	890	523	96	12	5	0	1640	
22NOV SE	0	0	0	0	3	7	26	182	113	55	8	5	0	223	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.42	0.13
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.74	0.75
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	0.00	2.67	0.67	0.67	2.00	0.75	0.25	2.53	0.16	0.17	0.82
10JUL SE	0.00	0.00	0.00	1.20	0.67	0.67	1.61	0.53	0.25	1.05	0.12	0.11	2.53
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.21	7.14	2.60	4.80	8.67	1.00	3.60	14.20	1.11	0.70	1.29	3.78
24JUL SE	0.00	0.10	4.04	1.40	3.10	7.67	1.00	2.40	9.43	0.99	0.52	1.29	13.61
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.20	0.46	7.00	2.00	5.20	1.50	0.20	0.60	0.00	1.89	1.30	0.14	1.71
08AUG SE	0.20	0.34	4.91	0.84	2.31	0.96	0.20	0.40	0.00	1.65	0.52	0.14	5.87
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.04	6.00	0.80	4.60	8.67	4.00	0.40	3.80	9.78	1.20	2.86	3.51
22AUG SE	0.00	0.04	3.86	0.80	2.42	2.39	2.26	0.24	2.42	5.45	0.55	1.34	8.36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	1.21	6.36	0.20	2.20	3.50	11.40	1.80	0.20	8.67	2.00	0.14	3.14
05SEP SE	0.00	0.72	4.05	0.20	1.46	2.38	10.67	1.56	0.20	6.15	0.98	0.14	13.41
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.17	11.00	12.20	3.40	1.17	0.80	1.00	13.40	3.56	0.10	0.43	3.93
19SEP SE	0.00	0.13	5.40	10.51	2.66	0.98	0.80	0.63	8.36	2.15	0.10	0.43	14.95
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.08	1.86	0.60	4.20	2.67	1.00	0.60	0.20	0.44	0.00	0.00	0.97
03OCT SE	0.00	0.06	1.17	0.40	3.01	1.33	1.00	0.24	0.20	0.34	0.00	0.00	3.68
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.46	3.14	0.20	0.80	1.17	0.00	0.60	1.00	0.22	0.00	0.00	0.63
17OCT SE	0.00	0.35	1.60	0.20	0.58	0.98	0.00	0.60	0.55	0.15	0.00	0.00	2.17
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	3	19	22
26JUN SE	0	0	0	0	0	0	0	0	0	0	2	10	10
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	0	25	2	7	14	1	2	44	3	2	101
10JUL SE	0	0	0	11	2	7	11	1	2	19	2	2	26
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	9	192	24	13	92	7	4	122	20	14	17	515
24JUL SE	0	5	109	13	8	82	7	3	81	17	10	17	162
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	2	21	188	18	14	16	1	1	0	33	26	2	322
08AUG SE	2	15	132	8	6	10	1	< 0.5	0	29	10	2	137
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	2	161	7	12	92	28	< 0.5	33	172	24	39	571
22AUG SE	0	2	104	7	6	25	16	< 0.5	21	96	11	18	148
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	55	171	2	6	37	81	2	2	152	39	2	549
05SEP SE	0	33	109	2	4	25	76	2	2	108	19	2	177
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	8	296	112	9	12	6	1	115	62	2	6	630
19SEP SE	0	6	145	97	7	10	6	1	72	38	2	6	193
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	4	50	6	11	28	7	1	2	8	0	0	116
03OCT SE	0	3	31	4	8	14	7	< 0.5	2	6	0	0	37
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	21	85	2	2	12	0	1	9	4	0	0	135
17OCT SE	0	16	43	2	2	10	0	1	5	3	0	0	47
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.31 0.18 13	0.25 0.25 15	0.42 0.14 15	0.85 0.60 12	0.37 0.37 10	0.22 0.22 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.19 0.81 126
07APR- 11APR SE NO. TOWS	0.29 0.29 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.02 0.29 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.51 0.30 15	0.00 0.00 15	2.41 2.30 12	1.66 0.92 10	0.51 0.25 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.39 2.50 126
22APR- 25APR SE NO. TOWS	0.29 0.29 6	0.00 0.00 13	3.20 1.02 15	1.33 1.33 15	0.57 0.39 12	0.49 0.29 6	0.00 0.00 14	0.00 0.00 10	0.83 0.50 11	0.37 0.37 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.55 1.88 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.54 0.54 14	1.11 0.62 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.13 0.82 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.18 0.18 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.18 0.18 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.03 0.25 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.12 0.12 7	0.00 0.00 14	0.19 0.19 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.02 0.22 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.14 0.14 14	0.73 0.54 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.27 0.27 7	0.54 0.54 8	0.50 0.50 6	0.81 0.81 6	0.23 1.26 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.04 0.04 14	0.00 0.00 10	0.00 0.00 9	0.59 0.59 7	1.10 0.70 8	0.00 0.00 6	0.00 0.00 6	0.13 0.92 126

TABLE D-37 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.02
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.20
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.03
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.23
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.55	0.00	0.00	0.10	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.09
20JUN SE	0.00	0.00	0.00	0.40	0.00	0.00	0.06	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.50
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.81	0.00	0.61	0.93	0.00	0.00	0.00	0.19
27JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.81	0.00	0.61	0.93	0.00	0.00	0.00	1.38
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL- DENSITY	0.00	0.00	0.00	0.47	0.00	0.00	0.04	0.00	NS	NS	NS	NS	NS	NS	0.06
11JUL SE	0.00	0.00	0.00	0.47	0.00	0.00	0.04	0.00	NS	NS	NS	NS	NS	NS	0.48
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	NS	81
22JUL- 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
25JUL 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	11	10	8	10	6	NS	NS	NS	NS	NS	NS	75
05AUG- 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
07AUG 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	10	14	13	8	10	6	NS	NS	NS	NS	NS	NS	78
19AUG- 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
21AUG 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
03SEP- 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
05SEP 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
16SEP- 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
18SEP 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
29SEP- 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
01OCT 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-38 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	72 41 13	81 81 15	62 21 15	176 125 12	76 76 10	31 31 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	498 176 126
07APR- ST. CROP 11APR SE NO. TOWS	60 60 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	60 60 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	165 95 15	0 0 15	503 479 12	344 191 10	71 35 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	1082 525 126
22APR- ST. CROP 25APR SE NO. TOWS	61 61 6	0 0 13	1031 329 15	197 197 15	119 81 12	102 60 6	0 0 14	0 0 10	137 83 11	52 52 7	0 0 8	0 0 8	0 0 10	1699 413 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	75 75 14	330 185 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	406 199 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	27 27 15	0 0 12	0 0 6	0 0 14	53 53 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	80 60 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	24 24 7	0 0 14	56 56 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	81 61 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	44 44 14	107 80 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	38 38 7	96 96 8	81 81 6	58 58 6	424 170 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	6 6 14	0 0 10	0 0 9	84 84 7	195 124 8	0 0 6	0 0 6	285 150 126

TABLE D-38 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	14	0	28	0	0	0	0	0	43
06JUN SE	0	0	0	0	0	0	14	0	28	0	0	0	0	0	32
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- ST. CROP	0	0	0	0	0	0	28	59	0	0	0	0	0	0	87
13JUN SE	0	0	0	0	0	0	16	59	0	0	0	0	0	0	61
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- ST. CROP	0	0	0	81	0	0	13	0	0	74	0	0	0	0	168
20JUN SE	0	0	0	58	0	0	8	0	0	43	0	0	0	0	73
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	14	243	0	86	164	0	0	0	507
27JUN SE	0	0	0	0	0	0	14	243	0	86	164	0	0	0	306
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL- ST. CROP	0	0	0	70	0	0	6	0	NS	NS	NS	NS	NS	NS	76
11JUL SE	0	0	0	70	0	0	6	0							70
NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0							0
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, 2014

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	0.06	0.26	0.03	0.76	1.45	0.00	0.00	0.20
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20	0.02	0.35	1.45	0.00	0.00	1.51
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.02	0.02	0.02	0.22	< 0.005	0.23	0.44	0.12	0.07	0.45	0.00	0.12
19JUL SE	0.00	0.00	0.02	0.02	0.02	0.21	< 0.005	0.23	0.42	0.12	0.07	0.45	0.00	0.71
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	1.19	0.00	0.00	0.00	0.09
01AUG SE	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	1.12	0.00	0.00	0.00	1.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.16	0.05	0.00	0.00	0.00	0.00	0.02
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.03	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.01	0.00	0.12	0.00	0.00	0.00	0.01
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.01	0.00	0.12	0.00	0.00	0.00	0.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.06	0.07	0.00	0.00	0.01
12SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.06	0.07	0.00	0.00	0.10
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
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	0.03	0.01	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	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.12	0.62	0.02	0.96	4.97	0.53
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.06	0.27	0.02	0.64	3.12	3.20
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.18	0.68	0.07	0.00	0.08
07NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.08	0.32	0.05	0.00	0.34
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.01	0.01	0.08	0.27	0.77	0.46	0.20	0.00	0.00	0.14
22NOV SE	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.13	0.26	0.24	0.16	0.00	0.00	0.41
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-40 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	9	77	5	107	256	0	0	0	454
04JUL SE	0	0	0	0	0	0	6	60	3	49	256	0	0	0	268
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	0	0	6	4	3	46	1	69	73	17	12	72	0	0	303
19JUL SE	0	0	6	4	3	44	1	69	70	17	12	72	0	0	131
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	0	0	0	0	3	0	4	0	0	168	0	0	0	0	176
01AUG SE	0	0	0	0	3	0	4	0	0	158	0	0	0	0	158
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	0	0	0	0	0	0	5	49	9	0	0	0	0	0	63
15AUG SE	0	0	0	0	0	0	4	15	4	0	0	0	0	0	16
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	0	0	0	0	0	0	1	4	0	17	0	0	0	0	22
29AUG SE	0	0	0	0	0	0	1	4	0	17	0	0	0	0	17
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
09SEP- ST. CROP	0	0	0	0	0	0	0	12	3	9	12	0	0	0	35
12SEP SE	0	0	0	0	0	0	0	12	3	9	12	0	0	0	19
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
26SEP SE	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
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	4	4	0	0	0	0	0	0	8
10OCT SE	0	0	0	0	0	0	4	4	0	0	0	0	0	0	6
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	6	34	19	87	4	154	353	0	659
24OCT SE	0	0	0	0	0	0	3	25	10	38	4	102	222	0	249
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	14	6	25	120	11	0	0	176
07NOV SE	0	0	0	0	0	0	0	7	5	11	57	7	0	0	59
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	0	0	0	0	2	3	11	82	128	65	36	0	0	0	326
22NOV SE	0	0	0	0	2	2	6	38	44	33	28	0	0	0	72
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150

TABLE D-41 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE PERCH YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	1.00	2.18	4.29	0.67	0.33	0.67	1.50	1.50	0.38	3.13	3.21	3.00	1.82
12JUN SE	0.58	0.95	2.66	0.67	0.33	0.67	0.71	0.65	0.26	1.46	1.55	1.27	4.06
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.73	3.71	3.00	2.00	0.00	0.00	0.88	0.38	2.67	0.95	0.50	1.23
26JUN SE	0.00	0.51	0.78	2.52	1.15	0.00	0.00	0.35	0.26	0.88	0.44	0.29	3.13
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	2.73	10.14	0.67	1.00	0.67	4.25	0.25	0.00	0.27	3.68	0.25	1.99
10JUL SE	0.00	2.53	7.70	0.67	0.58	0.67	4.11	0.16	0.00	0.21	1.92	0.13	9.36
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	1.79	4.79	1.00	0.20	0.17	0.00	0.00	0.80	0.22	1.30	0.71	0.92
24JUL SE	0.00	0.80	1.70	0.55	0.20	0.17	0.00	0.00	0.58	0.15	0.91	0.71	2.36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.13	2.64	1.80	0.40	0.00	0.00	0.00	1.40	0.00	1.60	3.43	0.95
08AUG SE	0.00	0.07	1.09	1.11	0.40	0.00	0.00	0.00	1.17	0.00	0.69	1.72	2.72
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.14	0.00	0.20	0.17	0.00	0.00	0.80	0.22	0.10	1.29	0.24
22AUG SE	0.00	0.00	0.14	0.00	0.20	0.17	0.00	0.00	0.49	0.15	0.10	0.52	0.79
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.13	0.07	0.20	0.20	0.17	0.00	0.00	0.00	0.11	0.30	0.14	0.11
05SEP SE	0.00	0.13	0.07	0.20	0.20	0.17	0.00	0.00	0.00	0.11	0.21	0.14	0.45
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.00	0.00	0.40	0.20	0.00	0.00	0.00	0.00	0.22	0.20	1.00	0.17
19SEP SE	0.00	0.00	0.00	0.24	0.20	0.00	0.00	0.00	0.00	0.22	0.20	1.00	1.09
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.04	0.00	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.20	0.00	0.05
03OCT SE	0.00	0.04	0.00	0.00	0.00	0.17	0.00	0.20	0.00	0.00	0.20	0.00	0.33
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	0.33	0.20	0.20	0.00	0.00	0.50	0.00	0.11
17OCT SE	0.00	0.04	0.00	0.00	0.00	0.33	0.20	0.20	0.00	0.00	0.40	0.00	0.59
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	8	99	115	6	1	7	11	2	3	55	63	41	411
12JUN SE	4	43	72	6	1	7	5	1	2	26	30	17	95
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	33	100	28	5	0	0	1	3	47	19	7	242
26JUN SE	0	23	21	23	3	0	0	< 0.5	2	15	9	4	43
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	124	273	6	3	7	30	< 0.5	0	5	72	3	524
10JUL SE	0	115	207	6	2	7	29	< 0.5	0	4	38	2	242
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	81	129	9	1	2	0	0	7	4	26	10	268
24JUL SE	0	36	46	5	1	2	0	0	5	3	18	10	62
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	6	71	17	1	0	0	0	12	0	31	47	185
08AUG SE	0	3	29	10	1	0	0	0	10	0	14	23	42
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	4	0	1	2	0	0	7	4	2	17	36
22AUG SE	0	0	4	0	1	2	0	0	4	3	2	7	10
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	6	2	2	1	2	0	0	0	2	6	2	22
05SEP SE	0	6	2	2	1	2	0	0	0	2	4	2	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	0	4	1	0	0	0	0	4	4	14	26
19SEP SE	0	0	0	2	1	0	0	0	0	4	4	14	15
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	2	0	0	0	2	0	< 0.5	0	0	4	0	8
03OCT SE	0	2	0	0	0	2	0	< 0.5	0	0	4	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	2	0	0	0	4	1	< 0.5	0	0	10	0	17
17OCT SE	0	2	0	0	0	4	1	< 0.5	0	0	8	0	9
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	1.10 0.63 7	5.07 1.09 13	0.50 0.21 15	0.43 0.43 15	0.85 0.60 12	0.28 0.21 10	1.64 0.63 11	1.19 0.58 6	1.13 0.34 7	0.74 0.57 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.99 1.84 126
07APR- DENSITY 11APR SE NO. TOWS	1.46 0.88 7	0.00 0.00 13	0.00 0.00 15	0.15 0.15 15	0.11 0.11 12	0.74 0.44 10	1.46 0.78 11	1.85 0.60 6	0.00 0.00 7	0.00 0.00 7	0.99 0.69 7	1.34 1.34 7	0.00 0.00 9	0.62 2.06 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.49 0.49 15	0.55 0.31 15	0.57 0.47 12	2.49 1.08 10	0.24 0.24 11	0.20 0.20 6	0.00 0.00 7	0.24 0.24 7	1.10 1.10 7	0.85 0.85 7	0.00 0.00 9	0.52 1.95 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	1.09 0.73 13	3.25 1.23 15	0.75 0.53 15	0.27 0.27 12	0.00 0.00 6	0.00 0.00 14	0.12 0.12 10	1.97 1.19 11	1.14 0.11 7	1.40 1.40 8	0.00 0.00 8	0.00 0.00 10	0.77 2.41 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.15 0.15 12	0.17 0.17 6	0.80 0.51 14	0.81 0.25 10	0.00 0.00 11	0.00 0.00 7	1.03 1.03 8	0.00 0.00 8	0.00 0.00 10	0.23 1.20 135
06MAY- DENSITY 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.66 0.38 15	0.00 0.00 15	0.07 0.07 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.06 0.39 135
13MAY- DENSITY 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.19 0.19 14	0.51 0.29 14	0.00 0.00 13	0.40 0.40 7	0.78 0.50 14	0.49 0.37 10	0.74 0.58 9	2.33 0.34 7	0.73 0.30 8	0.00 0.00 6	0.00 0.00 6	0.47 1.10 126
20MAY- DENSITY 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.19 0.19 14	0.57 0.26 14	0.54 0.41 13	0.16 0.16 7	0.28 0.19 14	0.12 0.12 10	0.54 0.54 9	0.46 0.46 7	1.17 0.56 8	2.36 1.96 6	4.43 1.53 6	0.83 2.71 126
28MAY- DENSITY 31MAY SE NO. TOWS	0.18 0.18 8	0.00 0.00 10	0.13 0.13 14	0.00 0.00 14	0.34 0.34 13	0.00 0.00 7	0.78 0.54 14	0.29 0.18 10	0.38 0.38 9	0.56 0.33 7	0.87 0.69 8	1.75 0.88 6	0.00 0.00 6	0.41 1.41 126

TABLE D-43 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	0.00	0.00	0.60	1.68	0.23	0.00	0.44	0.00	1.79	4.33	2.14	2.84	2.73	1.29
06JUN	SE	0.00	0.00	0.41	0.84	0.13	0.00	0.24	0.00	0.99	2.79	2.14	1.44	1.76	4.41
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	0.00	0.00	0.78	1.16	0.63	0.00	0.10	1.68	0.00	0.88	2.10	0.00	0.56	0.61
13JUN	SE	0.00	0.00	0.78	1.16	0.63	0.00	0.10	1.68	0.00	0.55	1.49	0.00	0.56	2.83
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	0.00	0.00	0.26	1.08	0.26	0.12	1.07	0.00	0.14	2.16	6.02	0.87	1.58	1.04
20JUN	SE	0.00	0.00	0.16	0.57	0.14	0.12	0.59	0.00	0.14	1.70	5.18	0.44	1.15	5.66
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.07	0.00	0.33	0.60	1.17	3.44	3.30	0.00	0.00	0.69
27JUN	SE	0.00	0.00	0.00	0.00	0.07	0.00	0.19	0.37	0.13	1.53	1.72	0.00	0.00	2.35
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	DENSITY	0.00	0.00	0.52	0.24	0.50	0.87	0.99	0.28	NS	NS	NS	NS	NS	0.43
11JUL	SE	0.00	0.00	0.52	0.24	0.31	0.87	0.60	0.28	NS	NS	NS	NS	NS	1.27
	NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL-	DENSITY	0.00	0.00	0.26	0.00	0.05	0.21	0.41	0.00	NS	NS	NS	NS	NS	0.12
25JUL	SE	0.00	0.00	0.26	0.00	0.05	0.21	0.30	0.00	NS	NS	NS	NS	NS	0.45
	NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG-	DENSITY	0.00	0.00	1.58	0.22	0.00	0.13	1.50	0.76	NS	NS	NS	NS	NS	0.52
07AUG	SE	0.00	0.00	0.00	0.22	0.00	0.13	0.97	0.76	NS	NS	NS	NS	NS	1.26
	NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.26	NS	NS	NS	NS	NS	0.05
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.26	NS	NS	NS	NS	NS	0.29
	NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.22	NS	NS	NS	NS	NS	0.10
05SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.22	NS	NS	NS	NS	NS	0.43
	NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.43	0.57	0.91	1.34	NS	NS	NS	NS	NS	0.41
18SEP	SE	0.00	0.00	0.00	0.00	0.43	0.21	0.83	0.24	NS	NS	NS	NS	NS	0.99
	NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	NS	NS	NS	NS	NS	0.02
01OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	NS	NS	NS	NS	NS	0.19
	NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-44 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	231 131 7	1164 251 13	161 66 15	63 63 15	176 125 12	58 43 10	229 88 11	354 174 6	188 56 7	105 80 7	0 0 7	0 0 7	0 0 9	2729 392 126
07APR- ST. CROP 11APR SE NO. TOWS	306 184 7	0 0 13	0 0 15	22 22 15	22 22 12	154 91 10	204 109 11	551 178 6	0 0 7	0 0 7	175 123 7	215 215 7	0 0 9	1648 384 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	157 157 15	81 46 15	119 99 12	516 224 10	34 34 11	60 60 6	0 0 7	33 33 7	193 193 7	137 137 7	0 0 9	1330 385 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	249 168 13	1047 394 15	111 79 15	56 56 12	0 0 6	0 0 14	37 37 10	325 196 11	162 16 7	247 247 8	0 0 8	0 0 10	2235 543 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	31 31 12	35 35 6	111 71 14	240 75 10	0 0 11	0 0 7	181 181 8	0 0 8	0 0 10	598 214 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	214 123 15	0 0 15	14 14 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	228 124 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	62 62 14	75 43 14	0 0 13	83 83 7	109 69 14	145 111 10	122 95 9	329 49 7	129 53 8	0 0 6	0 0 6	1054 210 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	62 62 14	85 38 14	113 85 13	34 34 7	39 27 14	36 36 10	89 89 9	65 65 7	206 98 8	379 315 6	316 109 6	1422 385 126
28MAY- ST. CROP 31MAY SE NO. TOWS	38 38 8	0 0 10	43 43 14	0 0 14	71 71 13	0 0 7	110 75 14	86 55 10	63 63 9	80 46 7	154 121 8	282 141 6	0 0 6	926 240 126

TABLE D-44 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	192	248	47	0	62	0	295	612	377	457	195	2485
06JUN SE	0	0	133	124	26	0	33	0	163	395	377	232	125	655
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	0	251	172	131	0	14	502	0	124	370	0	40	1603
13JUN SE	0	0	251	172	131	0	14	502	0	77	262	0	40	662
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	83	160	55	26	149	0	23	306	1061	141	113	2116
20JUN SE	0	0	51	84	29	26	83	0	23	241	913	71	82	960
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	15	0	46	177	193	486	582	0	0	1500
27JUN SE	0	0	0	0	15	0	26	109	21	217	303	0	0	390
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	0	167	35	105	181	139	84	NS	NS	NS	NS	NS	710
11JUL SE	0	0	167	35	64	181	84	84						283
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	0	85	0	9	43	57	0	NS	NS	NS	NS	NS	195
25JUL SE	0	0	85	0	9	43	42	0						104
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	509	32	0	27	210	226	NS	NS	NS	NS	NS	1004
07AUG SE	0	0	0	32	0	27	135	226						267
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	24	6	78	NS	NS	NS	NS	NS	108
21AUG SE	0	0	0	0	0	24	6	78						82
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	81	67	NS	NS	NS	NS	NS	147
05SEP SE	0	0	0	0	0	0	51	67						84
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	90	118	127	399	NS	NS	NS	NS	NS	734
18SEP SE	0	0	0	0	90	44	116	73						169
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	57	NS	NS	NS	NS	NS	57
01OCT SE	0	0	0	0	0	0	0	57						57
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.07	0.49	0.18	0.01	0.45	0.90	0.13	1.20	3.64	0.00	0.61	0.59
04JUL SE	0.00	0.00	0.05	0.07	0.07	0.01	0.16	0.33	0.03	0.39	2.07	0.00	0.36	2.17
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.02	0.13	0.30	0.09	0.03	0.52	0.26	0.46	0.75	0.67	0.11	1.36	0.36
19JUL SE	0.00	0.02	0.06	0.11	0.03	0.02	0.24	0.08	0.12	0.25	0.23	0.11	0.40	0.62
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.04	0.12	0.14	0.05	0.45	0.42	0.44	1.00	2.76	0.22	2.13	0.60
01AUG SE	0.00	0.00	0.03	0.04	0.09	0.03	0.24	0.21	0.13	0.45	1.74	0.22	0.66	1.96
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.02	0.10	0.03	0.16	0.41	0.98	0.39	2.06	0.99	0.43	0.92	0.50
15AUG SE	0.00	0.00	0.02	0.03	0.03	0.09	0.24	0.50	0.17	0.85	0.36	0.29	0.39	1.20
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.00	0.07	0.07	0.00	0.15	0.80	0.15	0.89	1.61	0.64	0.75	0.40
29AUG SE	0.00	0.00	0.00	0.05	0.05	0.00	0.06	0.65	0.08	0.62	1.02	0.33	0.52	1.49
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.16	0.39	0.97	0.02	0.57	0.36	0.24	0.63	1.23	1.14	0.76	0.50
12SEP SE	0.00	0.00	0.16	0.21	0.35	0.02	0.26	0.16	0.12	0.28	0.49	0.15	0.65	1.03
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.05	0.00	0.10	0.03	0.03	0.40	0.53	1.84	0.47	1.31	0.57	0.41
26SEP SE	0.00	0.00	0.05	0.00	0.05	0.02	0.03	0.25	0.33	0.70	0.33	0.60	0.19	1.08
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.11	0.00	0.40	0.20	0.21	0.14	0.44	0.80	0.49	2.38	0.82	0.46
10OCT SE	0.00	0.00	0.08	0.00	0.19	0.20	0.05	0.04	0.35	0.59	0.26	0.11	0.53	0.95
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.17	1.82	0.09	0.02	0.01	0.32	0.18	0.44	1.71	0.22	0.49	6.92	0.95
24OCT SE	0.00	0.10	1.36	0.09	0.02	0.01	0.05	0.06	0.11	0.64	0.15	0.32	3.58	3.91
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.06	0.33	0.29	0.02	0.02	0.02	0.10	0.12	0.33	0.36	1.22	0.40	0.04	0.25
07NOV SE	0.04	0.11	0.07	0.02	0.01	0.01	0.05	0.04	0.14	0.19	0.44	0.20	0.04	0.56
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.55	0.20	0.06	0.06	0.02	0.26	0.69	2.44	1.23	0.54	0.23	0.00	0.48
22NOV SE	0.00	0.26	0.19	0.04	0.03	0.01	0.07	0.20	0.84	0.51	0.28	0.08	0.00	1.10
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-46 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE PERCH OLDER-THAN-YEARLING IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	22	72	39	2	63	270	21	170	641	0	43	1342
04JUL SE	0	0	16	11	14	2	22	99	6	55	365	0	26	385
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	5	41	44	19	7	72	79	76	106	119	18	97	684
19JUL SE	0	5	21	16	6	5	33	24	20	35	40	18	29	83
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	0	14	17	30	11	63	126	73	142	487	36	152	1150
01AUG SE	0	0	9	6	19	7	33	62	22	63	306	36	47	327
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	0	0	7	14	6	33	57	293	64	292	174	70	66	1076
15AUG SE	0	0	7	5	6	19	34	148	28	121	63	46	28	214
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	10	15	0	21	240	26	126	283	103	53	877
29AUG SE	0	0	0	7	10	0	9	194	13	88	179	52	37	286
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	50	57	203	3	80	107	40	89	217	182	54	1083
12SEP SE	0	0	50	32	72	3	37	47	19	39	87	24	46	157
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	15	0	20	7	4	118	88	261	83	210	40	847
26SEP SE	0	0	15	0	9	5	4	74	55	99	58	97	13	177
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	35	0	83	42	30	42	73	113	86	383	58	945
10OCT SE	0	0	25	0	40	42	7	13	57	83	45	17	37	134
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	39	587	13	4	1	45	55	73	242	39	79	493	1668
24OCT SE	0	23	438	13	4	1	7	19	19	91	26	52	255	520
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	12	75	95	3	5	5	13	35	55	51	215	64	3	630
07NOV SE	9	26	22	3	3	3	7	13	22	28	77	32	3	98
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	127	65	9	13	5	36	205	404	174	95	36	0	1168
22NOV SE	0	61	60	6	7	2	10	61	139	71	49	13	0	196
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- CPUE	1.33	1.36	0.86	0.67	0.33	1.00	3.38	2.50	3.88	5.07	6.16	18.17	3.72
12JUN SE	1.33	0.43	0.46	0.67	0.33	0.58	1.90	1.12	2.24	1.77	1.87	8.95	9.98
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.33	4.73	3.86	5.00	1.67	1.00	0.13	0.63	0.75	2.47	3.37	4.92	2.40
26JUN SE	0.33	2.28	1.06	5.00	0.67	1.00	0.13	0.38	0.37	0.79	1.21	1.84	6.22
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	1.00	3.45	5.29	2.00	2.00	0.00	2.75	0.25	0.25	0.73	4.79	1.83	2.03
10JUL SE	0.58	1.88	2.50	1.53	1.15	0.00	1.66	0.16	0.25	0.53	1.34	0.78	4.40
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.60	6.79	2.93	1.00	1.40	0.33	0.00	0.60	0.20	0.33	1.40	2.00	1.47
24JUL SE	0.40	2.96	0.75	0.77	1.40	0.21	0.00	0.60	0.20	0.24	0.75	1.21	3.82
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.40	2.29	7.07	3.40	0.00	0.50	0.00	0.60	0.80	0.11	1.20	4.29	1.72
08AUG SE	0.24	0.82	2.33	2.52	0.00	0.50	0.00	0.40	0.80	0.11	0.71	1.73	4.13
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.20	2.42	1.07	0.40	0.20	0.67	0.00	0.20	0.00	0.22	0.70	4.14	0.85
22AUG SE	0.20	0.72	0.49	0.40	0.20	0.49	0.00	0.20	0.00	0.15	0.40	1.60	2.00
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.60	2.42	3.64	1.60	0.00	0.83	0.00	0.00	0.00	0.11	0.80	0.43	0.87
05SEP SE	0.24	1.14	2.08	0.81	0.00	0.54	0.00	0.00	0.00	0.11	0.39	0.30	2.63
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	1.63	0.71	3.00	0.00	0.00	0.00	0.00	1.80	0.11	0.90	0.00	0.68
19SEP SE	0.00	0.93	0.40	1.76	0.00	0.00	0.00	0.00	1.11	0.11	0.90	0.00	2.49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.20	0.17	0.00	1.00	0.20	0.17	0.20	0.00	0.40	0.11	0.00	0.00	0.20
03OCT SE	0.20	0.08	0.00	0.77	0.20	0.17	0.20	0.00	0.24	0.11	0.00	0.00	0.91
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.80	1.13	0.21	0.40	0.00	0.00	0.00	0.80	0.00	0.00	0.50	0.00	0.32
17OCT SE	0.58	0.55	0.15	0.40	0.00	0.00	0.00	0.49	0.00	0.00	0.40	0.00	1.11
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	10	62	23	6	1	11	24	3	33	89	121	247	630
12JUN SE	10	20	12	6	1	6	13	1	19	31	37	122	136
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	3	215	104	46	4	11	1	1	6	43	66	67	567
26JUN SE	3	104	28	46	2	11	1	< 0.5	3	14	24	25	123
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	8	157	142	18	5	0	20	< 0.5	2	13	94	25	484
10JUL SE	4	85	67	14	3	0	12	< 0.5	2	9	26	11	114
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	5	309	79	9	4	4	0	1	2	6	28	27	471
24JUL SE	3	134	20	7	4	2	0	1	2	4	15	17	138
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	3	104	190	31	0	5	0	1	7	2	24	58	425
08AUG SE	2	37	63	23	0	5	0	< 0.5	7	2	14	23	82
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	2	110	29	4	1	7	0	< 0.5	0	4	14	56	226
22AUG SE	2	33	13	4	1	5	0	< 0.5	0	3	8	22	43
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	5	110	98	15	0	9	0	0	0	2	16	6	259
05SEP SE	2	52	56	7	0	6	0	0	0	2	8	4	77
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	74	19	28	0	0	0	0	15	2	18	0	156
19SEP SE	0	42	11	16	0	0	0	0	10	2	18	0	51
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	2	8	0	9	1	2	1	0	3	2	0	0	27
03OCT SE	2	4	0	7	1	2	1	0	2	2	0	0	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	6	51	6	4	0	0	0	1	0	0	10	0	77
17OCT SE	4	25	4	4	0	0	0	1	0	0	8	0	27
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-49 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	0.00	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
08JUL- 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	0.00	0.00	0.00	0.00	0.00	81	81
22JUL- 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
25JUL SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	0.00	0.00	0.00	0.00	0.00	75	75
05AUG- 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
07AUG SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	78	78
19AUG- 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
21AUG SE	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81	81
03SEP- 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
05SEP SE	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81	81
16SEP- 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
18SEP SE	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81	81
29SEP- 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
01OCT SE	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81	81

TABLE D-50 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST.CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-50 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-51 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	1.27 0.75 7	6.33 4.36 13	2.93 0.57 15	2.04 0.72 15	2.78 1.08 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	1.18 4.65 126
07APR- 11APR SE NO. TOWS	0.93 0.93 7	0.00 0.00 13	0.36 0.26 15	0.15 0.15 15	0.04 0.04 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.11 0.98 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-51 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
														6	122
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- 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
25JUL 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	11	10	8	10	6							75
05AUG- 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
07AUG 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	10	14	13	8	10	6							78
19AUG- 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
21AUG 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
03SEP- 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
05SEP 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
16SEP- 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
18SEP 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
29SEP- 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
01OCT 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-52 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	265 156 7	1452 1001 13	944 184 15	301 106 15	580 225 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 9	3542 1059 126
07APR- ST. CROP 11APR SE NO. TOWS	194 194 7	0 0 13	114 85 15	22 22 15	8 8 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 9	339 213 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 6	0 0 126

TABLE D-52 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	103.76 37.78 7	196.38 64.62 13	9.49 2.17 15	5.61 1.00 15	6.96 2.64 12	1.17 0.48 10	0.27 0.24 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 9	24.90 74.94 126
07APR- 11APR SE NO. TOWS	42.22 23.26 7	218.04 115.32 13	51.55 45.45 15	8.28 7.31 15	0.43 0.43 12	0.83 0.47 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 9	24.72 126.33 126
14APR- 17APR SE NO. TOWS	9.22 7.80 7	35.81 24.71 13	59.77 19.77 15	7.72 4.60 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 9	8.66 32.92 126
22APR- 25APR SE NO. TOWS	36.95 20.01 6	367.59 171.24 13	192.68 99.02 15	0.00 0.00 15	0.05 0.05 12	0.17 0.17 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 10	45.96 198.81 135
29APR- 02MAY SE NO. TOWS	11.50 11.50 6	433.60 270.16 13	20.31 10.67 15	24.19 10.56 15	0.15 0.15 12	0.00 0.00 6	0.03 0.03 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 10	37.68 270.82 135
06MAY- 08MAY SE NO. TOWS	98.65 48.71 6	307.49 192.00 13	8.12 5.47 15	0.81 0.41 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 10	31.93 198.16 135
13MAY- 16MAY SE NO. TOWS	1.85 1.85 8	40.63 17.31 10	17.28 7.97 14	11.53 2.99 14	24.12 18.85 13	1.31 1.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 6	7.44 27.05 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL- 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	
22JUL- 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
25JUL 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	11	10	8	10	6						75	
05AUG- 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
07AUG 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	10	14	13	8	10	6						78	
19AUG- 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
21AUG 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	
03SEP- 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
05SEP 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	
16SEP- 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
18SEP 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	
29SEP- 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
01OCT 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	

TABLE D-54 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	21687 7896 7	45053 14825 13	3054 699 15	829 148 15	1451 551 12	243 100 10	38 33 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	72354 16821 126
07APR- ST. CROP 11APR SE NO. TOWS	8824 4862 7	50024 26458 13	16589 14627 15	1223 1080 15	89 89 12	172 97 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	76921 30640 126
14APR- ST. CROP 17APR SE NO. TOWS	1927 1630 7	8216 5669 13	19236 6364 15	1141 680 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	30519 8704 126
22APR- ST. CROP 25APR SE NO. TOWS	7724 4183 6	84334 39285 13	62006 31865 15	0 0 15	10 10 12	35 35 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	154108 50756 135
29APR- ST. CROP 02MAY SE NO. TOWS	2404 2404 6	99477 61981 13	6537 3432 15	3573 1560 15	31 31 12	0 0 6	5 5 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	112026 62142 135
06MAY- ST. CROP 08MAY SE NO. TOWS	20619 10180 6	70544 44049 13	2613 1759 15	119 60 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	93896 45244 135
13MAY- ST. CROP 16MAY SE NO. TOWS	386 386 8	9321 3972 10	5560 2566 14	1704 442 14	5025 3927 13	271 207 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	22266 6178 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-55 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- DENSITY 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- DENSITY 08MAY SE NO. TOWS	7.80 4.31 6	8.32 5.69 13	2.51 1.78 15	0.30 0.21 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	1.46 7.36 135
13MAY- DENSITY 16MAY SE NO. TOWS	8.33 7.12 8	48.08 21.20 10	28.10 10.63 14	60.47 12.73 14	123.46 50.39 13	50.50 27.82 7	9.64 7.83 14	5.61 2.21 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	25.71 64.46 126
20MAY- DENSITY 23MAY SE NO. TOWS	82.91 46.64 8	37.38 10.90 10	76.77 36.55 14	9.04 4.33 14	14.46 5.09 13	39.11 13.14 7	5.02 3.07 14	0.12 0.12 10	0.52 0.52 9	0.23 0.23 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	20.43 62.11 126
28MAY- DENSITY 31MAY SE NO. TOWS	69.38 26.27 8	11.22 6.82 10	41.23 13.25 14	71.83 28.11 14	15.07 4.53 13	56.21 19.87 7	12.48 4.49 14	4.22 1.44 10	3.46 2.13 9	2.50 0.84 7	4.19 2.38 8	0.00 0.00 6	0.00 0.00 6	22.44 46.38 126



TABLE D-55 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	34.36	106.74	106.91	97.33	48.05	13.22	13.53	12.84	4.54	10.40	2.41	15.22	0.00	35.81	
06JUN SE	9.54	34.06	28.51	42.10	13.89	2.38	4.60	6.02	1.91	2.22	2.41	14.59	0.00	65.73	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	8.64	18.18	20.82	31.09	18.31	12.59	38.76	21.59	4.98	3.79	2.75	1.10	0.00	14.05	
13JUN SE	8.64	10.75	14.59	10.01	5.23	4.30	6.60	7.99	2.04	1.04	0.33	0.78	0.00	25.73	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	33.17	4.83	8.88	15.44	30.21	12.66	7.15	7.15	2.13	1.03	0.62	0.00	0.62	9.53	
20JUN SE	6.33	3.13	3.37	7.69	9.17	5.22	1.72	3.06	1.98	0.46	0.62	0.00	0.62	15.78	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- DENSITY	22.59	20.31	5.85	17.43	2.46	7.78	3.92	4.27	0.76	1.51	0.74	0.00	0.00	6.74	
27JUN SE	5.12	7.99	1.73	6.86	1.14	2.75	0.90	1.19	0.76	1.16	0.43	0.00	0.00	12.38	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- DENSITY	24.03	14.20	27.81	14.47	12.47	3.74	3.53	1.01	NS	NS	NS	NS	NS	12.66	
11JUL SE	8.37	4.41	5.11	4.94	3.96	1.21	1.53	0.13						12.63	
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- DENSITY	124.28	31.35	18.02	1.66	1.25	1.97	0.90	0.23	NS	NS	NS	NS	NS	22.46	
25JUL SE	123.18	6.01	10.32	1.03	0.63	1.44	0.90	0.23						123.77	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- DENSITY	6.54	1.80	0.00	5.98	13.47	15.77	10.09	0.00	NS	NS	NS	NS	NS	6.71	
07AUG SE	1.45	1.80	0.00	4.42	5.96	6.58	4.11	0.00						10.98	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	1.30	0.00	0.48	0.43	0.54	3.80	1.45	NS	NS	NS	NS	NS	1.00	
21AUG SE	0.00	1.30	0.00	0.48	0.27	0.20	1.36	0.67						2.09	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- DENSITY	2.16	0.00	0.00	0.16	0.53	3.70	13.10	1.43	NS	NS	NS	NS	NS	2.63	
05SEP SE	2.16	0.00	0.00	0.16	0.38	1.74	7.03	1.43						7.70	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- DENSITY	0.00	0.00	0.00	0.00	1.89	4.58	3.47	1.46	NS	NS	NS	NS	NS	1.43	
18SEP SE	0.00	0.00	0.00	0.00	0.92	1.50	1.25	1.46						2.60	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.47	4.03	0.19	NS	NS	NS	NS	NS	0.58	
01OCT SE	0.00	0.00	0.00	0.00	0.00	0.29	2.01	0.19						2.04	
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	1631 902 6	1908 1305 13	809 572 15	45 32 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 4392	0 0 1687
13MAY- ST. CROP 16MAY SE NO. TOWS	1742 1489 8	11030 4863 10	9043 3422 14	8934 1880 14	25721 10499 13	10476 5771 7	1347 1094 14	1671 658 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 69965	0 0 13648
20MAY- ST. CROP 23MAY SE NO. TOWS	17330 9748 8	8575 2502 10	24705 11763 14	1336 639 14	3012 1060 13	8113 2726 7	702 429 14	36 36 10	86 86 9	32 32 7	0 0 8	0 0 6	0 0 6	0 0 63927	0 0 15774
28MAY- ST. CROP 31MAY SE NO. TOWS	14500 5490 8	2573 1564 10	13267 4265 14	10611 4154 14	3140 944 13	11662 4123 7	1744 628 14	1257 429 10	572 353 9	353 118 7	739 419 8	0 0 6	0 0 6	0 0 60419	0 0 9317

TABLE D-56 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
03JUN- ST. CROP	7181	24488	34406	14379	10011	2742	1891	3828	752	1472	424	2447	0	104020
06JUN SE	1993	7813	9176	6220	2894	493	644	1795	317	315	424	2346	0	14354
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	1807	4170	6701	4593	3814	2612	5419	6438	825	537	485	177	0	37577
13JUN SE	1807	2466	4694	1479	1089	892	922	2382	337	147	58	126	0	6498
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	6932	1108	2858	2281	6293	2627	999	2133	353	145	109	0	44	25884
20JUN SE	1324	718	1083	1136	1910	1083	240	912	328	65	109	0	44	3251
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	4722	4660	1882	2575	513	1613	549	1273	125	213	131	0	0	18255
27JUN SE	1070	1832	557	1014	238	571	125	353	125	164	76	0	0	2532
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	5023	3259	8949	2138	2598	775	493	300	NS	NS	NS	NS	NS	23534
11JUL SE	1750	1012	1644	730	825	250	214	38						2849
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	25977	7193	5798	246	260	409	125	69	NS	NS	NS	NS	NS	40076
25JUL SE	25746	1378	3322	152	132	299	125	69						25999
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	1367	412	0	884	2807	3272	1410	0	NS	NS	NS	NS	NS	10153
07AUG SE	304	412	0	654	1242	1364	574	0						2103
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	299	0	70	89	112	532	432	NS	NS	NS	NS	NS	1533
21AUG SE	0	299	0	70	57	42	191	200						419
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	452	0	0	23	110	767	1832	425	NS	NS	NS	NS	NS	3608
05SEP SE	452	0	0	23	79	361	983	425						1220
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	394	950	485	435	NS	NS	NS	NS	NS	2264
18SEP SE	0	0	0	0	192	310	175	435						594
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	97	563	56	NS	NS	NS	NS	NS	715
01OCT SE	0	0	0	0	0	60	282	56						293
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, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN-	DENSITY	66.03	8.98	0.02	0.07	0.77	1.18	0.11	1.07	0.48	0.06	0.86	0.00	0.08	6.13
04JUL	SE	17.30	0.39	0.02	0.05	0.41	0.51	0.07	0.46	0.40	0.06	0.71	0.00	0.08	17.35
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	45.76	3.21	0.12	0.05	0.06	0.51	0.10	0.32	0.02	0.06	0.12	0.00	0.27	3.89
19JUL	SE	8.87	1.47	0.12	0.04	0.04	0.11	0.06	0.08	0.02	0.06	0.07	0.00	0.18	9.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL-	DENSITY	7.74	3.85	0.55	0.05	0.76	0.70	0.24	0.09	0.00	0.00	0.00	0.00	0.00	1.07
01AUG	SE	5.75	1.59	0.19	0.05	0.46	0.24	0.09	0.04	0.00	0.00	0.00	0.00	0.00	6.00
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	9.66	0.84	0.59	0.27	0.23	1.91	1.08	0.18	0.05	0.12	0.06	0.00	0.00	1.15
15AUG	SE	1.88	0.54	0.31	0.22	0.17	0.75	0.44	0.04	0.03	0.12	0.06	0.00	0.00	2.18
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	0.30	0.41	0.00	0.00	0.01	0.80	0.43	0.12	0.23	0.64	0.14	0.11	0.00	0.25
29AUG	SE	0.30	0.16	0.00	0.00	0.01	0.37	0.12	0.06	0.12	0.60	0.14	0.11	0.00	0.82
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	0.55	0.00	0.00	0.05	0.05	1.19	2.01	0.19	0.14	0.17	0.20	0.00	0.00	0.35
12SEP	SE	0.16	0.00	0.00	0.03	0.02	0.38	0.44	0.05	0.08	0.10	0.13	0.00	0.00	0.63
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	0.00	0.05	0.02	0.00	0.02	1.52	1.00	0.18	0.19	0.06	0.36	0.00	0.00	0.26
26SEP	SE	0.00	0.05	0.02	0.00	0.02	0.55	0.37	0.07	0.08	0.06	0.23	0.00	0.00	0.72
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.00	0.03	0.21	0.00	0.59	0.44	0.23	0.17	0.02	0.05	0.06	0.00	0.00	0.14
10OCT	SE	0.00	0.03	0.13	0.00	0.19	0.21	0.13	0.08	0.02	0.05	0.06	0.00	0.00	0.35
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT-	DENSITY	0.00	0.06	0.00	0.17	0.00	0.25	0.64	0.47	0.12	0.09	0.05	0.05	0.34	0.17
24OCT	SE	0.00	0.04	0.00	0.17	0.00	0.12	0.18	0.08	0.06	0.06	0.03	0.05	0.14	0.34
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV-	DENSITY	0.00	0.00	0.12	0.05	0.32	0.33	0.08	0.09	0.01	0.03	0.28	0.03	0.00	0.10
07NOV	SE	0.00	0.00	0.08	0.03	0.17	0.07	0.06	0.04	0.01	0.03	0.16	0.03	0.00	0.27
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.00	0.00	0.00	0.00	0.13	0.14	0.07	0.14	0.08	0.18	0.10	0.07	0.00	0.07
22NOV	SE	0.00	0.00	0.00	0.00	0.11	0.07	0.04	0.05	0.03	0.06	0.05	0.04	0.00	0.17
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-58 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
30JUN- ST. CROP	13802	2059	7	11	160	245	16	318	79	9	152	0	6	16864
04JUL SE	3617	88	7	7	85	106	10	137	66	9	125	0	6	3626
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	9564	737	38	7	13	107	14	96	3	8	22	0	19	10628
19JUL SE	1854	337	38	5	8	24	8	25	3	8	12	0	13	1885
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	1617	882	176	7	158	145	33	28	0	0	0	0	0	3046
01AUG SE	1203	365	60	7	97	49	12	13	0	0	0	0	0	1263
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	2019	192	190	40	48	397	152	53	9	17	11	0	0	3128
15AUG SE	393	124	101	32	35	155	61	12	4	17	11	0	0	458
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	62	95	0	0	3	166	61	36	38	91	25	17	0	594
29AUG SE	62	36	0	0	3	78	17	17	20	85	25	17	0	143
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	115	0	0	8	10	246	281	57	23	24	35	0	0	797
12SEP SE	34	0	0	5	5	80	61	15	13	15	23	0	0	111
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	11	7	0	3	316	140	54	31	8	64	0	0	636
26SEP SE	0	11	7	0	3	114	52	21	13	8	41	0	0	135
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	7	69	0	123	92	32	51	3	8	10	0	0	395
10OCT SE	0	7	40	0	40	44	18	23	3	8	10	0	0	78
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	13	0	25	0	52	90	140	19	12	9	8	24	392
24OCT SE	0	9	0	25	0	26	24	24	11	9	6	8	10	54
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	39	7	67	68	11	28	2	4	49	5	0	280
07NOV SE	0	0	26	4	35	15	9	13	2	4	29	5	0	56
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	27	28	10	41	14	25	17	11	0	174
22NOV SE	0	0	0	0	23	14	5	15	5	8	10	7	0	34
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- CPUE	0.33	0.09	0.14	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
12JUN SE	0.33	0.09	0.14	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP 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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	3	4	4	12	0	0	0	0	0	0	0	0	23
12JUN SE	3	4	4	12	0	0	0	0	0	0	0	0	14
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126



TABLE D-61 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL- 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	
22JUL- 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
25JUL 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	11	10	8	10	6						75	
05AUG- 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
07AUG 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	10	14	13	8	10	6						78	
19AUG- 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
21AUG 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	
03SEP- 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
05SEP 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	
16SEP- 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
18SEP 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	
29SEP- 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
01OCT 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	

TABLE D-62 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-62 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-63 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.03	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
12SEP SE	0.03	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
10OCT SE	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.10	0.01
24OCT SE	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.10	0.10
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.02	0.06	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01
07NOV SE	0.00	0.02	0.04	0.00	0.00	0.01	0.02	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
18NOV- DENSITY	0.04	0.04	0.00	0.00	0.06	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.01
22NOV SE	0.04	0.04	0.00	0.00	0.03	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.07
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-64 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC TOMCOD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	7	0	0	0	0	47	0	0	0	0	0	0	0	54
12SEP SE	7	0	0	0	0	47	0	0	0	0	0	0	0	47
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	6	8	0	0	0	0	0	0	0	0	0	0	13
10OCT SE	0	6	8	0	0	0	0	0	0	0	0	0	0	10
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	4	0	0	3	0	0	0	0	0	7	14
24OCT SE	0	0	0	4	0	0	3	0	0	0	0	0	7	8
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	4	18	0	0	3	3	0	0	0	0	0	0	28
07NOV SE	0	4	13	0	0	3	3	0	0	0	0	0	0	14
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	9	9	0	0	11	1	3	0	3	0	0	0	0	36
22NOV SE	9	9	0	0	5	1	3	0	3	0	0	0	0	15
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	78.99 56.27 8	5.81 3.54 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	6.52 56.38 126
28MAY- 31MAY SE NO. TOWS	186.17 117.32 8	370.86 361.07 10	0.00 0.00 14	0.17 0.17 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	42.86 379.65 126



TABLE D-67 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
03JUN- DENSITY	5127.74	8391.64	6888.33	256.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	1589.72
06JUN SE	2608.79	4014.75	3762.24	243.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	0.00	6094.08
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	1800.88	17859.65	3941.56	2455.34	351.47	0.21	1.76	0.00	0.00	0.00	0.00	0.00	0.00	2031.60
13JUN SE	1476.83	6334.97	2125.94	920.63	251.93	0.21	1.76	0.00	0.00	0.00	0.00	0.00	0.00	6909.67
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	12507.04	5853.21	2.80	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1412.56
20JUN SE	5070.26	2261.81	1.56	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5551.87
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- DENSITY	14750.42	8477.29	172.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1799.99
27JUN SE	4713.13	5476.33	119.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7226.21
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- DENSITY	2123.59	57818.08	1071.37	28.00	6.09	0.00	0.33	0.00	NS	NS	NS	NS	NS	7630.93
11JUL SE	881.40	23778.36	387.41	20.78	5.42	0.00	0.33	0.00	NS	NS	NS	NS	NS	23797.85
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL- DENSITY	34788.81	9023.10	2786.57	118.43	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	5839.61
25JUL SE	13434.25	3782.90	1669.19	118.43	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	14056.66
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG- DENSITY	683.47	6752.15	2087.93	776.58	224.15	0.14	0.00	0.00	NS	NS	NS	NS	NS	1315.55
07AUG SE	139.12	2091.23	1066.31	371.14	126.59	0.14	0.00	0.00	NS	NS	NS	NS	NS	2383.98
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG- DENSITY	92.66	1069.10	19.34	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	147.64
21AUG SE	44.99	483.73	14.12	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	486.02
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP- DENSITY	4774.82	15.55	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	598.80
05SEP SE	4774.82	8.08	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	4774.82
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
16SEP- DENSITY	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.38
18SEP SE	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	3.07
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-68 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST.CROP 23MAY SE NO. TOWS	16511 11762 8	1332 813 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST.CROP 31MAY SE NO. TOWS	38912 24520 8	85082 82836 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-68 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	1071763	1925213	2216744	37895	0	0	0	0	0	0	0	345	0	5251959	
06JUN SE	545270	921066	1210731	35997	0	0	0	0	0	0	0	345	0	1616431	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	376406	4097366	1268440	362744	73223	44	245	0	0	0	0	0	0	6178469	
13JUN SE	308677	1453371	684153	136010	52487	44	245	0	0	0	0	0	0	1642221	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	2614130	1342844	902	0	43	0	0	0	0	0	0	0	0	3957920	
20JUN SE	1059749	518905	503	0	43	0	0	0	0	0	0	0	0	1179971	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- ST.CROP	3083023	1944862	55424	0	0	0	0	0	0	0	0	0	0	5083308	
27JUN SE	985103	1256382	38456	0	0	0	0	0	0	0	0	0	0	1596998	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- ST.CROP	443859	13264640	344779	4137	1270	0	46	0	NS	NS	NS	NS	NS	14058731	
11JUL SE	184224	5455238	124672	3070	1130	0	46	0	NS	NS	NS	NS	NS	5459772	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL- ST.CROP	7271297	2070082	896751	17497	0	0	0	0	NS	NS	NS	NS	NS	10255627	
25JUL SE	2807926	867874	537166	17497	0	0	0	0	NS	NS	NS	NS	NS	2987726	
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG- ST.CROP	142854	1549080	671919	114730	46699	28	0	0	NS	NS	NS	NS	NS	2525310	
07AUG SE	29078	479770	343151	54832	26373	28	0	0	NS	NS	NS	NS	NS	593699	
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG- ST.CROP	19367	245273	6225	0	0	0	0	0	NS	NS	NS	NS	NS	270866	
21AUG SE	9403	110977	4544	0	0	0	0	0	NS	NS	NS	NS	NS	111468	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
03SEP- ST.CROP	997999	3568	0	0	0	0	0	0	NS	NS	NS	NS	NS	1001566	
05SEP SE	997999	1853	0	0	0	0	0	0	NS	NS	NS	NS	NS	998000	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
16SEP- ST.CROP	641	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	641	
18SEP SE	641	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	641	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT 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-69 REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-69 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	11.71	6.47	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	
13JUN	SE	0.00	4.15	2.64	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.31	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	1.09	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	
20JUN	SE	0.63	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	2.82	6.37	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	
27JUN	SE	2.24	2.57	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	44.80	67.69	3.09	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	14.45	
11JUL	SE	0.00	9.31	48.91	3.09	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	49.88	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	122.57	0.00	1.19	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	15.47	
25JUL	SE	25.90	0.00	1.19	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	25.93	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG	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	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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-70 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-70 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	2686	2082	572	0	0	0	0	0	0	0	0	0	5340
13JUN SE	0	952	851	296	0	0	0	0	0	0	0	0	0	1311
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	227	21	0	0	0	0	0	0	0	0	0	0	0	248
20JUN SE	132	21	0	0	0	0	0	0	0	0	0	0	0	134
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	589	1462	340	0	0	0	0	0	0	0	0	0	0	2391
27JUN SE	467	589	340	0	0	0	0	0	0	0	0	0	0	825
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	10278	21783	457	0	0	0	0	NS	NS	NS	NS	NS	32518
11JUL SE	0	2137	15738	457	0	0	0	0						15889
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	25618	0	383	0	0	0	0	0	NS	NS	NS	NS	NS	26001
25JUL SE	5414	0	383	0	0	0	0	0						5427
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126



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, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	7.28	33.16	50.92	58.68	42.89	0.00	4.97	0.00	0.00	0.00	0.00	0.00	0.00	15.22
13JUN	SE	5.56	12.04	16.98	18.36	19.89	0.00	4.97	0.00	0.00	0.00	0.00	0.00	0.00	34.95
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	198.30	65.58	80.78	1.91	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	26.70
20JUN	SE	53.22	45.48	20.62	0.98	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	72.98
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	370.26	424.81	166.57	277.50	33.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.89
27JUN	SE	156.27	37.93	27.75	108.50	23.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	197.34
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	DENSITY	649.48	890.56	841.21	604.77	360.90	3.30	0.00	0.00	NS	NS	NS	NS	NS	418.78
11JUL	SE	120.78	471.84	131.94	126.39	79.34	2.40	0.00	0.00	NS	NS	NS	NS	NS	526.21
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL-	DENSITY	5705.78	2239.78	1582.98	2000.92	2124.44	322.12	0.03	0.00	NS	NS	NS	NS	NS	1747.01
25JUL	SE	1161.70	711.36	349.92	422.62	603.38	96.48	0.03	0.00	NS	NS	NS	NS	NS	1590.60
	NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG-	DENSITY	1792.73	2345.81	2613.11	2137.15	1029.56	172.15	75.23	76.26	NS	NS	NS	NS	NS	1280.25
07AUG	SE	316.41	365.01	422.12	283.77	217.73	47.09	20.54	47.49	NS	NS	NS	NS	NS	737.81
	NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG-	DENSITY	316.64	1188.01	1442.06	1486.70	334.59	105.52	287.83	173.29	NS	NS	NS	NS	NS	666.83
21AUG	SE	120.14	247.70	343.13	433.39	62.09	56.46	175.53	75.44	NS	NS	NS	NS	NS	651.85
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP-	DENSITY	1565.53	411.07	212.60	306.75	482.91	75.65	65.24	66.24	NS	NS	NS	NS	NS	398.25
05SEP	SE	376.22	110.74	55.50	55.12	120.26	51.46	43.73	35.59	NS	NS	NS	NS	NS	424.51
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
16SEP-	DENSITY	682.17	165.51	116.34	208.77	52.25	97.50	142.95	15.29	NS	NS	NS	NS	NS	185.10
18SEP	SE	233.45	28.26	22.34	34.17	26.51	30.61	41.02	10.71	NS	NS	NS	NS	NS	245.77
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
29SEP-	DENSITY	173.33	54.93	46.42	71.05	84.49	7.23	12.44	3.81	NS	NS	NS	NS	NS	56.71
01OCT	SE	97.75	12.51	5.77	11.43	49.74	2.16	4.71	1.92	NS	NS	NS	NS	NS	111.26
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	1521	7607	16388	8669	8936	0	695	0	0	0	0	0	0	43816
13JUN SE	1161	2762	5463	2712	4144	0	695	0	0	0	0	0	0	7989
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	41446	15046	25995	283	0	0	0	0	83	0	0	0	0	82853
20JUN SE	11123	10434	6635	144	0	0	0	0	83	0	0	0	0	16632
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	77389	97460	53603	40997	6969	0	0	0	0	0	0	0	0	276418
27JUN SE	32662	8702	8931	16029	4862	0	0	0	0	0	0	0	0	38767
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	135750	204312	270712	89346	75188	685	0	0	NS	NS	NS	NS	NS	775994
11JUL SE	25244	108249	42460	18672	16530	499	0	0	0	0	0	0	0	121574
NO. TOWS	6	11	13	14	13	8	10	6	0	6	0	0	0	81
22JUL- ST. CROP	1192582	513851	509421	295609	442598	66826	4	0	NS	NS	NS	NS	NS	3020891
25JUL SE	242811	163201	112608	62437	125706	20015	4	0	0	0	0	0	0	344054
NO. TOWS	6	11	13	11	10	8	10	6	0	6	0	0	0	75
05AUG- ST. CROP	374703	538176	840929	315736	214495	35714	10517	22736	NS	NS	NS	NS	NS	2353006
07AUG SE	66134	83741	135844	41924	45361	9769	2871	14159	NS	NS	NS	NS	NS	184280
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	66182	272553	464071	219640	69708	21891	40236	51663	NS	NS	NS	NS	NS	1205944
21AUG SE	25111	56828	110424	64028	12935	11713	24537	22490	NS	NS	NS	NS	NS	146852
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
03SEP- ST. CROP	327217	94307	68416	45319	100608	15693	9120	19749	NS	NS	NS	NS	NS	680428
05SEP SE	78634	25407	17859	8143	25055	10675	6113	10611	NS	NS	NS	NS	NS	90032
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
16SEP- ST. CROP	142582	37971	37439	30843	10886	20227	19983	4557	NS	NS	NS	NS	NS	304488
18SEP SE	48793	6483	7189	5049	5524	6350	5735	3192	NS	NS	NS	NS	NS	51126
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81
29SEP- ST. CROP	36229	12603	14937	10497	17602	1500	1739	1137	NS	NS	NS	NS	NS	96245
01OCT SE	20431	2870	1857	1689	10362	448	659	571	NS	NS	NS	NS	NS	23244
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- DENSITY 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- DENSITY 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- DENSITY 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- DENSITY 23MAY SE NO. TOWS	1.77 1.13 8	1.89 1.07 10	3.50 2.45 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.55 2.90 126
28MAY- DENSITY 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-73 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- DENSITY	0.00	0.00	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
22JUL- DENSITY	0.00	35.28	100.63	62.55	58.78	4.81	0.00	0.00	NS	NS	NS	NS	NS	32.76
25JUL SE	0.00	17.25	29.56	13.90	31.11	2.59	0.00	0.00	NS	NS	NS	NS	NS	48.37
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- DENSITY	23.96	455.96	687.29	404.22	104.43	18.23	7.78	2.40	NS	NS	NS	NS	NS	213.03
07AUG SE	19.72	175.10	205.51	127.43	34.88	6.54	6.73	1.18	NS	NS	NS	NS	NS	301.38
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- DENSITY	27.03	143.75	637.48	660.21	66.19	10.33	42.13	4.37	NS	NS	NS	NS	NS	198.94
21AUG SE	17.85	67.73	165.32	249.65	52.38	0.33	25.34	3.57	NS	NS	NS	NS	NS	312.99
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- DENSITY	24.65	442.33	1377.48	1219.57	227.44	90.41	74.15	6.92	NS	NS	NS	NS	NS	432.87
05SEP SE	6.53	73.16	220.44	183.74	61.31	28.53	13.46	4.08	NS	NS	NS	NS	NS	304.17
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- DENSITY	18.07	136.24	533.74	412.24	85.23	112.14	134.19	18.26	NS	NS	NS	NS	NS	181.26
18SEP SE	4.94	24.40	85.21	97.17	49.77	28.03	38.86	9.13	NS	NS	NS	NS	NS	148.93
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- DENSITY	577.41	219.58	103.28	310.86	68.29	29.64	107.25	10.39	NS	NS	NS	NS	NS	178.34
01OCT SE	244.45	40.33	33.79	88.29	19.91	8.88	49.55	3.88	NS	NS	NS	NS	NS	270.68
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-74 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	370 237 8	434 245 10	1127 788 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	1931 858 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-74 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	8095	32385	9241	12246	998	0	0	NS	NS	NS	NS	NS	62965	62965
25JUL SE	0	3958	9512	2053	6482	538	0	0	0	0	0	0	0	12356	12356
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75	75
05AUG- ST. CROP	5008	104608	221176	59718	21757	3782	1087	716	NS	NS	NS	NS	NS	417852	417852
07AUG SE	4122	40171	66136	18826	7267	1356	941	352	0	0	0	0	0	80092	80092
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78	78
19AUG- ST. CROP	5651	32979	205148	97538	13790	2143	5889	1304	NS	NS	NS	NS	NS	364442	364442
21AUG SE	3732	15539	53202	36883	10913	68	3542	1063	0	0	0	0	0	67668	67668
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
03SEP- ST. CROP	5153	101479	443288	180176	47384	18757	10366	2064	NS	NS	NS	NS	NS	808667	808667
05SEP SE	1365	16783	70940	27145	12774	5918	1881	1216	0	0	0	0	0	79095	79095
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
16SEP- ST. CROP	3778	31256	171763	60902	17756	23264	18759	5445	NS	NS	NS	NS	NS	332925	332925
18SEP SE	1032	5598	27421	14356	10369	5815	5433	2723	0	0	0	0	0	34186	34186
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
29SEP- ST. CROP	120686	50375	33238	45926	14228	6149	14992	3097	NS	NS	NS	NS	NS	288691	288691
01OCT SE	51094	9252	10874	13044	4149	1841	6927	1157	0	0	0	0	0	55267	55267
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, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN-	DENSITY	0.00	0.00	16.30	1.75	0.88	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
04JUL	SE	0.00	0.00	14.87	1.75	0.63	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.99
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	0.31	123.77	52.27	72.86	20.81	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	20.77
19JUL	SE	0.13	69.03	20.96	32.19	5.76	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	79.20
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL-	DENSITY	22.05	32.63	189.32	43.45	170.29	12.53	0.68	0.00	0.02	0.00	0.00	0.00	0.00	36.23
01AUG	SE	7.88	12.20	66.28	13.07	52.77	3.59	0.41	0.00	0.02	0.00	0.00	0.00	0.00	87.02
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	39.10	94.35	85.09	51.45	37.35	22.52	8.28	0.00	0.68	2.57	1.98	2.18	4.98	26.96
15AUG	SE	14.92	13.00	12.04	9.80	13.34	9.39	5.22	0.00	0.63	1.47	0.41	1.04	3.00	30.64
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	46.66	53.42	82.51	114.17	80.16	26.08	10.97	4.93	23.81	16.60	3.80	1.37	0.00	35.73
29AUG	SE	19.20	16.13	23.22	35.09	52.61	4.90	4.49	1.42	4.70	2.88	3.66	1.37	0.00	72.52
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	49.47	72.47	98.51	133.51	71.02	53.09	46.73	5.64	8.01	42.67	4.03	1.95	0.10	45.17
12SEP	SE	17.47	12.64	32.35	38.17	16.89	10.39	10.41	1.78	2.54	20.46	4.03	1.05	0.10	62.57
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	96.85	71.35	90.29	86.06	96.91	13.52	47.36	13.30	7.47	15.37	0.06	8.50	0.00	42.08
26SEP	SE	41.61	20.23	33.41	32.20	21.56	3.90	21.72	6.49	2.41	5.86	0.06	6.49	0.00	73.27
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	47.84	131.68	74.17	47.21	32.79	12.08	13.05	3.87	1.09	0.74	0.00	4.25	0.00	28.37
10OCT	SE	9.11	49.19	12.62	10.07	6.77	2.20	9.36	1.54	0.76	0.41	0.00	2.89	0.00	53.98
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT-	DENSITY	0.84	1.41	5.05	2.88	0.48	0.09	0.79	0.03	0.00	0.00	0.00	0.00	0.00	0.89
24OCT	SE	0.19	0.30	1.22	2.22	0.15	0.05	0.21	0.02	0.00	0.00	0.00	0.00	0.00	2.57
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV-	DENSITY	0.40	0.65	0.57	0.66	0.31	0.04	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.21
07NOV	SE	0.10	0.16	0.22	0.15	0.09	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.34
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.70	0.74	2.63	7.43	0.66	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.94
22NOV	SE	0.15	0.17	1.30	1.91	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.33
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-76 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS		ALL
													AL	COMBINED	
30JUN- ST. CROP	0	0	5247	259	184	30	0	0	0	0	0	0	0	0	5719
04JUL SE	0	0	4786	259	130	30	0	0	0	0	0	0	0	0	4795
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	64	28395	16820	10764	4336	0	8	0	0	0	0	0	0	0	60387
19JUL SE	27	15836	6746	4755	1201	0	5	0	0	0	0	0	0	0	17898
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	4608	7486	60924	6419	35478	2599	95	0	3	0	0	0	0	0	117612
01AUG SE	1646	2800	21331	1930	10994	745	58	0	3	0	0	0	0	0	24304
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	8172	21646	27381	7601	7781	4672	1157	0	112	363	348	351	355	79940	
15AUG SE	3118	2983	3875	1448	2779	1948	730	0	104	209	72	167	213	6922	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	9753	12255	26553	16867	16699	5411	1534	1471	3941	2349	670	221	0	97723	
29AUG SE	4014	3701	7473	5184	10961	1017	627	422	778	407	645	221	0	15346	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
09SEP- ST. CROP	10340	16626	31702	19725	14796	11013	6533	1681	1326	6036	711	313	7	120808	
12SEP SE	3652	2900	10410	5639	3519	2156	1455	529	420	2895	711	169	7	13800	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	20242	16369	29058	12715	20190	2805	6620	3965	1236	2174	10	1366	0	116751	
26SEP SE	8697	4640	10751	4757	4492	808	3036	1936	398	830	10	1043	0	16465	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	9999	30210	23868	6975	6831	2507	1825	1155	180	105	0	684	0	84339	
10OCT SE	1904	11286	4060	1488	1410	456	1309	460	125	59	0	464	0	12412	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	176	322	1626	426	101	19	111	10	0	0	0	0	0	0	2792
24OCT SE	40	68	393	328	31	11	29	7	0	0	0	0	0	0	520
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	84	149	183	97	65	8	11	0	0	0	0	0	0	0	597
07NOV SE	20	37	71	22	18	4	4	0	0	0	0	0	0	0	88
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	147	170	847	1098	138	0	1	0	0	0	0	0	0	0	2401
22NOV SE	32	40	419	282	27	0	1	0	0	0	0	0	0	0	509
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- CPUE	0.00	0.25	0.86	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
24JUL SE	0.00	0.12	0.57	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.04	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
08AUG SE	0.00	0.04	0.50	0.00	0.00	0.00	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
19AUG- CPUE	0.00	5.67	2.64	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
22AUG SE	0.00	3.05	1.73	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	10.29	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19
05SEP SE	0.00	5.70	2.17	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.15
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	1.50	26.50	49.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	6.58
19SEP SE	0.00	0.77	18.67	30.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	35.93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	2.00	0.00	32.60	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	2.90
03OCT SE	0.00	1.56	0.00	32.60	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	32.64
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.60	0.29	3.36	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.83
17OCT SE	0.60	0.14	2.68	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	5.48
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	11	23	2	0	0	0	0	0	0	0	0	36
24JUL SE	0	6	15	2	0	0	0	0	0	0	0	0	17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	2	15	0	0	0	0	0	0	0	0	0	17
08AUG SE	0	2	13	0	0	0	0	0	0	0	0	0	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	257	71	35	0	0	0	0	0	0	0	0	364
22AUG SE	0	139	47	16	0	0	0	0	0	0	0	0	147
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	468	81	9	0	0	0	0	0	0	0	0	557
05SEP SE	0	259	58	7	0	0	0	0	0	0	0	0	266
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	68	713	459	0	0	0	0	0	0	0	16	1255
19SEP SE	0	35	502	283	0	0	0	0	0	0	0	10	577
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	91	0	300	0	0	0	0	2	0	0	0	393
03OCT SE	0	71	0	300	0	0	0	0	2	0	0	0	309
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	5	13	90	42	0	0	0	0	0	0	0	16	166
17OCT SE	5	6	72	42	0	0	0	0	0	0	0	16	85
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.62 0.62 8	0.43 0.33 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.08 0.70 126	0.08 0.70 126
20MAY- 23MAY SE NO. TOWS	0.81 0.27 8	3.11 1.19 10	2.58 1.38 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.50 1.84 126	0.50 1.84 126
28MAY- 31MAY SE NO. TOWS	5.50 1.33 8	3.84 1.58 10	3.46 1.98 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.98 2.86 126	0.98 2.86 126

TABLE D-79 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	9.93	22.35	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.80
06JUN	SE	3.72	5.29	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN-	DENSITY	0.00	8.06	15.45	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10
13JUN	SE	0.00	4.26	6.71	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.16
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN-	DENSITY	10.04	28.66	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13
20JUN	SE	3.57	7.07	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN-	DENSITY	16.72	8.99	15.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21
27JUN	SE	3.29	4.81	7.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.54
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL-	DENSITY	0.00	70.24	13.24	4.78	0.05	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	11.04
11JUL	SE	0.00	35.48	3.78	1.55	0.05	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	35.72
	NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL-	DENSITY	32.70	21.72	9.41	3.77	1.02	1.08	0.00	0.00	NS	NS	NS	NS	NS	NS	8.71
25JUL	SE	5.34	3.31	4.20	1.37	0.73	1.08	0.00	0.00	NS	NS	NS	NS	NS	NS	7.78
	NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG-	DENSITY	0.00	8.91	10.76	3.47	3.03	3.93	0.00	0.00	NS	NS	NS	NS	NS	NS	3.76
07AUG	SE	0.00	4.23	2.90	1.41	1.42	2.27	0.00	0.00	NS	NS	NS	NS	NS	NS	5.96
	NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG-	DENSITY	9.64	8.84	10.22	7.69	3.47	6.29	0.00	0.00	NS	NS	NS	NS	NS	NS	5.77
21AUG	SE	4.52	5.70	9.48	2.94	1.68	4.45	0.00	0.00	NS	NS	NS	NS	NS	NS	13.19
	NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP-	DENSITY	2.16	12.85	10.60	2.23	1.39	1.58	0.00	0.00	NS	NS	NS	NS	NS	NS	3.85
05SEP	SE	2.16	7.73	3.88	0.99	0.63	1.17	0.00	0.00	NS	NS	NS	NS	NS	NS	9.07
	NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP-	DENSITY	12.43	9.51	9.29	5.38	22.85	7.64	0.84	0.00	NS	NS	NS	NS	NS	NS	8.49
18SEP	SE	4.25	4.36	5.43	1.92	5.92	5.56	0.80	0.00	NS	NS	NS	NS	NS	NS	11.70
	NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP-	DENSITY	24.09	19.39	2.88	0.59	2.76	8.29	18.09	0.77	NS	NS	NS	NS	NS	NS	9.61
01OCT	SE	11.27	3.45	2.15	0.59	1.13	2.78	9.70	0.62	NS	NS	NS	NS	NS	NS	15.73
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-80 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	130 130 8	98 76 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	228 150 126
20MAY- ST. CROP 23MAY SE NO. TOWS	169 57 8	713 273 10	830 443 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	1713 523 126
28MAY- ST. CROP 31MAY SE NO. TOWS	1150 277 8	880 363 10	1113 636 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	3143 783 126

TABLE D-80 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	2075	5128	1323	0	0	0	0	0	0	0	0	0	0	8526
06JUN SE	778	1214	536	0	0	0	0	0	0	0	0	0	0	1538
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	1849	4972	557	0	0	0	0	0	0	0	0	0	7378
13JUN SE	0	978	2161	267	0	0	0	0	0	0	0	0	0	2387
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	2099	6576	624	0	0	0	0	0	0	0	0	0	0	9299
20JUN SE	747	1622	304	0	0	0	0	0	0	0	0	0	0	1812
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	3494	2064	5140	0	0	0	0	0	0	0	0	0	0	10698
27JUN SE	689	1102	2433	0	0	0	0	0	0	0	0	0	0	2758
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	16115	4260	706	11	0	0	0	NS	NS	NS	NS	NS	21092
11JUL SE	0	8141	1217	229	11	0	0	0						8235
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	6835	4984	3029	557	213	224	0	0	NS	NS	NS	NS	NS	15842
25JUL SE	1115	759	1352	202	151	224	0	0						1939
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	2044	3461	513	631	814	0	0	NS	NS	NS	NS	NS	7463
07AUG SE	0	971	933	209	296	471	0	0						1472
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	2015	2029	3288	1136	723	1306	0	0	NS	NS	NS	NS	NS	10495
21AUG SE	945	1307	3052	434	350	924	0	0						3616
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	452	2948	3413	329	289	327	0	0	NS	NS	NS	NS	NS	7758
05SEP SE	452	1773	1250	146	131	244	0	0						2238
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	2598	2182	2988	795	4761	1584	117	0	NS	NS	NS	NS	NS	15026
18SEP SE	889	999	1749	284	1233	1154	111	0						2791
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	5034	4449	926	87	576	1720	2529	231	NS	NS	NS	NS	NS	15551
01OCT SE	2356	791	691	87	236	577	1356	184						2987
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	10.29	5.46	0.22	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25
04JUL SE	4.71	3.25	0.12	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.73
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	53.19	33.10	0.54	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72
19JUL SE	39.92	14.01	0.25	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.31
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	2.11	0.46	2.38	0.40	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
01AUG SE	1.69	0.35	1.12	0.15	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	23.47	1.53	1.54	0.93	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12
15AUG SE	9.59	1.53	1.23	0.88	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.83
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	1.28	1.30	0.04	0.09	0.06	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
29AUG SE	1.23	0.60	0.03	0.09	0.05	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	9.89	0.97	0.50	0.56	6.77	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81
12SEP SE	6.65	0.61	0.17	0.21	2.84	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	1.22	1.03	1.97	1.68	4.63	7.62	17.26	0.48	0.00	0.00	0.00	0.00	0.00	2.76
26SEP SE	0.70	0.28	0.94	0.94	3.22	2.44	7.95	0.48	0.00	0.00	0.00	0.00	0.00	9.06
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	3.27	2.65	2.38	1.57	4.67	10.42	2.33	0.22	0.02	0.00	0.00	0.00	0.00	2.12
10OCT SE	1.11	1.61	1.33	1.41	2.07	3.14	1.85	0.19	0.02	0.00	0.00	0.00	0.00	5.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	2.78	2.34	3.28	0.62	0.49	0.19	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.80
24OCT SE	1.43	0.59	0.40	0.32	0.26	0.07	0.32	0.00	0.00	0.00	0.00	0.00	0.00	1.68
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	2.58	0.15	0.32	0.26	0.18	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
07NOV SE	0.62	0.08	0.13	0.11	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.67	0.37	0.34	0.61	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
22NOV SE	0.33	0.15	0.19	0.24	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-82 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
30JUN- ST. CROP	2151	1252	72	36	0	0	0	0	0	0	0	0	0	3511
04JUL SE	985	745	37	33	0	0	0	0	0	0	0	0	0	1235
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	11118	7594	173	75	0	0	0	0	0	0	0	0	0	18960
19JUL SE	8343	3215	82	75	0	0	0	0	0	0	0	0	0	8942
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	442	106	766	59	443	0	0	0	0	0	0	0	0	1815
01AUG SE	353	81	361	22	297	0	0	0	0	0	0	0	0	592
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	4906	350	494	137	8	2	0	0	0	0	0	0	0	5898
15AUG SE	2005	350	395	130	6	2	0	0	0	0	0	0	0	2077
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	267	297	14	13	13	54	0	0	0	0	0	0	0	658
29AUG SE	256	137	9	13	10	47	0	0	0	0	0	0	0	295
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	2067	223	160	83	1411	1011	0	0	0	0	0	0	0	4954
12SEP SE	1389	140	54	31	592	295	0	0	0	0	0	0	0	1546
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	255	235	635	249	966	1580	2413	142	0	0	0	0	0	6474
26SEP SE	146	63	302	139	671	507	1111	142	0	0	0	0	0	1448
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	684	608	765	233	972	2163	325	65	3	0	0	0	0	5817
10OCT SE	231	369	428	209	431	651	259	57	3	0	0	0	0	1047
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	582	537	1055	92	103	39	93	0	0	0	0	0	0	2502
24OCT SE	298	135	129	48	55	15	45	0	0	0	0	0	0	362
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	539	33	102	39	38	4	0	0	0	0	0	0	0	756
07NOV SE	129	18	41	16	15	2	0	0	0	0	0	0	0	138
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	140	84	108	90	7	3	0	0	0	0	0	0	0	432
22NOV SE	68	34	61	36	5	2	0	0	0	0	0	0	0	104
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	1.33	1.64	0.29	3.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.60
12JUN SE	1.33	1.35	0.29	1.86	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.71
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	2.67	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
26JUN SE	2.67	0.09	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.33	0.00	0.29	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
10JUL SE	0.33	0.00	0.29	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.20	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
24JUL SE	0.20	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
08AUG SE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
22AUG SE	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- CPUE	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
19SEP SE	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- 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
03OCT SE	0.00	0.00	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	0.13	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	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-84 REGIONAL STANDING CROP (IN THOUSANDS) OF BAY ANCHOVY YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	10	74	8	31	1	4	0	0	0	0	0	0	127
12JUN SE	10	61	8	17	1	4	0	0	0	0	0	0	65
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	20	4	4	0	0	0	0	0	0	0	0	0	28
26JUN SE	20	4	4	0	0	0	0	0	0	0	0	0	21
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	3	0	8	3	0	0	0	0	0	0	0	0	13
10JUL SE	3	0	8	3	0	0	0	0	0	0	0	0	9
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	2	2	2	0	0	0	0	0	0	0	0	0	5
24JUL SE	2	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
05AUG- ST. CROP	0	0	0	2	0	0	0	0	0	0	0	0	2
08AUG SE	0	0	0	2	0	0	0	0	0	0	0	0	2
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	17	0	0	0	0	0	0	0	0	0	0	17
22AUG SE	0	14	0	0	0	0	0	0	0	0	0	0	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	31	0	0	0	0	0	0	0	0	0	31
19SEP SE	0	0	31	0	0	0	0	0	0	0	0	0	31
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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	6	0	0	0	0	0	0	0	0	0	0	6
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-85 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- DENSITY 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.37 0.37 7	0.00 0.00 8	2.20 1.16 8	28.01 26.94 10	2.35 26.97 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.55 0.55 7	0.00 0.00 8	0.27 0.27 8	150.59 60.08 10	11.65 60.08 135
06MAY- DENSITY 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.36 0.36 7	0.41 0.41 8	1.16 0.59 8	1.88 0.56 10	0.29 0.98 135
13MAY- DENSITY 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	1.50 1.50 8	21.80 17.01 6	43.11 41.28 6	5.11 44.67 126
20MAY- DENSITY 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	5.49 4.48 8	1.46 1.10 6	0.00 0.00 6	0.53 4.62 126
28MAY- DENSITY 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	10.75 6.54 8	28.58 26.71 6	21.86 9.88 6	4.71 29.22 126

TABLE D-85 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	47.76	0.00	3.82	
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	46.75	0.00	46.76	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.77	0.73	0.96	
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	0.73	7.11	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20JUN SE	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27JUN SE	0.00	0.00	0.00	0.00	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	
08JUL- 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	
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL SE	0.00	0.00	0.00	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	11	10	8	10	6						75	
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG SE	0.00	0.00	0.00	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	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG SE	0.00	0.00	0.00	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	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP SE	0.00	0.00	0.00	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	
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP SE	0.00	0.00	0.00	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	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT SE	0.00	0.00	0.00	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-86 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	52 52 7	0 0 8	353 187 8	1993 1917 10	2398 1927 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	78 78 7	0 0 8	44 44 8	10714 4274 10	10836 4275 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	51 51 7	72 72 8	187 94 8	134 40 10	444 135 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	264 264 8	3504 2734 6	3067 2937 6	6836 4021 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	967 791 8	234 177 6	0 0 6	1201 810 126
28MAY- ST.CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	1895 1152 8	4594 4293 6	1555 703 6	8045 4500 126

TABLE D-86 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	345	7677	0	8022	
06JUN SE	0	0	0	0	0	0	0	0	0	0	155	7514	0	7516	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	1892	52	1945	
13JUN SE	0	0	0	0	0	0	0	0	0	0	0	1136	52	1137	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20JUN 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	
24JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27JUN 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	
08JUL- 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	
22JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
25JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
07AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	4.92 3.07 6	27.44 20.73 6	2.49 20.96 126	2.49 20.96 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	8.14 1.96 6	4.81 2.29 6	1.00 3.01 126	1.00 3.01 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	2.37 2.37 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.18 2.37 126	0.18 2.37 126



TABLE D-87 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.54	4.81	
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.15	34.15	
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.63	
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	8.22	8.22	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20JUN	SE	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27JUN	SE	0.00	0.00	0.00	0.00	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	
08JUL-	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	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL	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	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG	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	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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-88 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	791 493 6	1953 1475 6	2744 1555 126	2744 1555 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	1308 316 6	342 163 6	1650 355 126	1650 355 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	335 335 7	0 0 8	0 0 6	0 0 6	0 0 6	335 335 126

TABLE D-88 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	4449	4449
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	2429	2429
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	585	585
13JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	585	585
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	10.29 10.29 7	1.65 1.65 8	0.00 0.00 6	0.81 0.81 6	0.98 10.45 126	0.98 10.45 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126

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, 2014  
ALL

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
														AL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.52	112.39	99.77	21.74
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.11	103.63	28.58	128.34
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.16	25.21	257.13	42.87	26.49
13JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.38	16.01	83.71	28.62	90.75
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.59	0.37	4.46	0.00	67.77	16.86	17.46	18.22	9.67
20JUN	SE	0.00	0.00	0.00	0.00	0.00	0.59	0.37	3.28	0.00	19.75	7.33	8.24	14.80	27.23
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.24	4.06	51.06	29.88	25.90	11.40
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.97	2.67	46.60	2.41	6.89	51.29
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	NS	NS	NS	NS	NS	0.04
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	NS	NS	NS	0.28
	NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	NS	NS	NS	81
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	0.00
	NO. TOWS	6	11	13	11	10	8	10	6	0.00	0.00	NS	NS	NS	75
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG	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	10	14	13	8	10	6	0.00	0.00	NS	NS	NS	78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG	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	NS	NS	NS	81
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP	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	NS	NS	NS	81
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP	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	NS	NS	NS	81
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT	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	NS	NS	NS	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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	1456 1456 7	291 291 8	0 0 6	58 58 6	1805 1486 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	4471 2239 6	0 0 6	4471 2239 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	12433	18064	7098	37595
06JUN SE	0	0	0	0	0	0	0	0	0	0	12361	16657	2033	20841
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	2710	4445	41329	3050	51534
13JUN SE	0	0	0	0	0	0	0	0	0	1751	2823	13455	2036	14007
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	122	51	1330	0	9587	2972	2807	1296	18166
20JUN SE	0	0	0	0	0	122	51	977	0	2793	1293	1324	1053	3648
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	0	0	6162	575	9002	4803	1843	22385
27JUN SE	0	0	0	0	0	0	0	0	3305	378	8215	387	490	8885
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	0	0	0	0	0	0	84	NS	NS	NS	NS	NS	84
11JUL SE	0	0	0	0	0	0	0	84						84
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-91 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.84	0.00	8.90	2.67	1.16	4.42	1.45	
20JUN	SE	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.84	0.00	8.90	0.62	0.86	3.57	9.72	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	5.23	7.44	1.06	6.45	19.29	3.10	
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	2.60	5.53	0.71	2.20	7.52	9.97	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	0.00	0.41	2.22	0.49	0.00	0.91	0.59	NS	NS	NS	NS	NS	0.58	
11JUL	SE	0.00	0.00	0.41	0.91	0.30	0.00	0.72	0.29						1.30	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	0.00	0.15	0.65	0.46	0.00	0.04	1.28	NS	NS	NS	NS	NS	0.32	
25JUL	SE	0.00	0.00	0.15	0.65	0.46	0.00	0.04	0.65						1.04	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	NS	NS	NS	NS	NS	0.07	
07AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59						0.59	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	NS	NS	NS	NS	NS	0.01	
01OCT	SE	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00						0.09	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-92 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-92 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	170	0	0	252	0	1259	471	187	314	2654
20JUN SE	0	0	0	0	170	0	0	252	0	1259	108	139	254	1331
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	116	0	865	1052	187	1037	1373	4629
27JUN SE	0	0	0	0	0	0	72	0	430	783	125	354	535	1109
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	0	132	329	102	0	127	175	NS	NS	NS	NS	NS	864
11JUL SE	0	0	132	134	62	0	101	88						239
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	0	48	97	96	0	6	381	NS	NS	NS	NS	NS	627
25JUL SE	0	0	48	97	96	0	6	193						241
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	176	NS	NS	NS	NS	NS	176
07AUG SE	0	0	0	0	0	0	0	176						176
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	18	0	0	NS	NS	NS	NS	NS	18
01OCT SE	0	0	0	0	0	18	0	0						18
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, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN-	DENSITY	0.00	0.00	0.05	0.50	0.65	0.01	0.63	0.44	1.57	2.56	4.49	2.55	1.54	1.15
04JUL	SE	0.00	0.00	0.03	0.26	0.40	0.01	0.44	0.29	0.79	1.03	3.65	0.80	0.68	4.08
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	0.04	0.52	0.47	0.21	0.39	0.47	0.60	0.24	0.00	2.22	5.01	6.45	0.79	1.34
19JUL	SE	0.04	0.36	0.22	0.08	0.35	0.31	0.40	0.22	0.00	0.77	2.43	3.63	0.50	4.53
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL-	DENSITY	0.03	0.05	0.20	0.64	0.11	0.00	0.19	0.08	0.39	0.12	0.18	2.32	0.37	0.36
01AUG	SE	0.03	0.05	0.11	0.16	0.04	0.00	0.08	0.06	0.36	0.12	0.06	1.66	0.26	1.74
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	0.06	0.00	0.02	0.10	0.09	0.02	0.19	0.07	0.00	0.06	1.25	1.07	0.18	0.24
15AUG	SE	0.04	0.00	0.02	0.04	0.04	0.01	0.06	0.04	0.00	0.06	1.13	0.53	0.18	1.27
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	0.00	0.03	0.00	0.00	0.01	0.00	0.17	0.01	0.02	0.75	7.51	1.69	0.66	0.83
29AUG	SE	0.00	0.03	0.00	0.00	0.01	0.00	0.09	0.01	0.02	0.34	7.03	0.26	0.66	7.07
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	0.00	0.00	0.02	0.02	0.00	0.00	0.10	0.00	0.02	0.11	0.00	0.61	0.72	0.12
12SEP	SE	0.00	0.00	0.02	0.02	0.00	0.00	0.04	0.00	0.02	0.11	0.00	0.44	0.51	0.69
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	0.00	0.00	0.00	0.00	0.02	0.00	0.16	0.03	0.10	0.52	1.33	0.00	0.85	0.23
26SEP	SE	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.02	0.04	0.18	0.98	0.00	0.73	1.24
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.00	0.00	0.05	0.00	0.02	0.02	0.09	0.05	0.06	0.17	0.19	0.00	0.33	0.07
10OCT	SE	0.00	0.00	0.03	0.00	0.02	0.02	0.04	0.03	0.06	0.11	0.12	0.00	0.33	0.38
	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	0.02	0.06	0.00	0.00	0.00	0.01
24OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.04
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	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
07NOV	SE	0.00	0.00	0.00	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
18NOV-	DENSITY	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22NOV	SE	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-94 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
30JUN- ST. CROP	0	0	15	74	135	2	88	131	259	362	792	410	109	2378
04JUL SE	0	0	10	38	83	2	62	86	131	145	643	129	48	701
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	8	120	152	31	81	98	84	72	0	314	884	1036	56	2937
19JUL SE	8	82	72	13	73	65	56	64	0	109	428	584	36	753
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	6	11	65	95	22	0	26	25	65	16	32	373	27	762
01AUG SE	6	11	35	24	8	0	11	17	59	16	11	267	19	279
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	13	0	7	14	20	3	27	20	0	8	220	172	13	517
15AUG SE	9	0	7	6	9	2	9	12	0	8	199	86	13	218
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	6	0	0	1	0	23	4	3	107	1325	272	47	1787
29AUG SE	0	6	0	0	1	0	12	4	3	48	1239	41	47	1242
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	7	3	0	0	14	0	3	15	0	98	51	192
12SEP SE	0	0	7	3	0	0	6	0	3	15	0	71	36	82
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	3	0	23	8	16	74	234	0	60	418
26SEP SE	0	0	0	0	3	0	7	5	7	26	173	0	52	183
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	17	0	3	4	13	14	9	23	33	0	23	140
10OCT SE	0	0	11	0	3	4	5	10	9	15	20	0	23	40
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	3	8	0	0	0	11
24OCT SE	0	0	0	0	0	0	0	0	3	6	0	0	0	6
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	16	0	0	0	0	0	0	0	0	0	16
22NOV SE	0	0	0	10	0	0	0	0	0	0	0	0	0	10
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-95 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.50	0.50	0.53	3.05	0.92	0.49
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.33	0.38	0.47	1.30	0.50	1.60
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.00	0.00	0.00	0.33	20.00	23.50	22.50	7.38	7.67	18.47	3.25	8.59
26JUN SE	0.00	0.00	0.00	0.00	0.33	14.11	7.52	7.39	2.64	2.39	3.54	2.38	18.47
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	1.00	2.43	1.00	7.33	28.33	51.75	9.88	24.25	19.60	44.21	9.92	16.64
10JUL SE	0.00	0.57	0.97	1.00	2.40	10.81	10.81	3.68	11.41	4.33	18.79	2.86	27.67
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.33	4.86	2.80	4.60	13.17	10.80	5.80	8.60	7.22	10.80	5.86	6.24
24JUL SE	0.00	0.19	2.81	1.16	1.12	2.43	3.68	1.39	1.36	1.28	3.59	3.22	7.65
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.17	3.36	0.60	6.40	16.50	11.60	11.20	3.40	24.11	13.50	9.71	8.38
08AUG SE	0.00	0.13	1.93	0.40	1.47	6.74	5.91	7.74	1.69	9.99	3.20	2.78	16.34
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	7.71	1.60	7.80	10.67	4.20	4.20	3.40	23.78	6.10	14.00	6.95
22AUG SE	0.00	0.00	5.55	1.60	2.08	3.29	1.66	2.06	1.29	10.72	1.23	2.96	13.51
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.08	3.07	0.60	5.80	6.83	4.60	7.60	6.20	7.89	7.70	13.29	5.31
05SEP SE	0.00	0.08	2.04	0.40	2.35	1.38	2.01	4.17	1.98	3.90	1.73	3.83	8.37
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.42	6.36	0.20	2.60	4.67	4.80	8.00	4.80	10.00	7.70	28.71	6.52
19SEP SE	0.00	0.31	3.31	0.20	1.17	0.76	2.56	1.67	1.50	1.80	2.97	17.04	18.08
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.21	1.29	2.40	3.20	9.33	3.20	5.20	5.60	3.44	2.90	8.57	3.78
03OCT SE	0.00	0.13	0.77	1.75	1.83	2.09	1.07	1.98	2.58	1.07	1.26	3.83	6.36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.40	0.50	4.57	3.00	0.80	3.67	1.40	7.80	8.20	6.56	4.30	10.14	4.28
17OCT SE	0.40	0.20	1.82	1.38	0.37	0.92	0.51	1.91	3.95	2.34	0.76	2.96	6.38
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	3	1	4	9	60	12	89
12JUN SE	0	0	0	0	0	0	3	< 0.5	3	8	26	7	28
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	0	0	0	1	213	167	28	63	135	363	44	1014
26JUN SE	0	0	0	0	1	150	53	9	23	42	70	32	184
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	45	65	9	19	302	367	12	209	344	870	135	2378
10JUL SE	0	26	26	9	6	115	77	5	98	76	370	39	418
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	15	131	26	12	140	77	7	74	127	212	80	901
24JUL SE	0	9	75	11	3	26	26	2	12	22	71	44	122
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	8	90	6	17	176	82	14	29	423	266	132	1242
08AUG SE	0	6	52	4	4	72	42	10	15	175	63	38	215
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	207	15	21	114	30	5	29	417	120	190	1148
22AUG SE	0	0	149	15	5	35	12	3	11	188	24	40	248
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	4	83	6	15	73	33	9	53	138	152	181	746
05SEP SE	0	4	55	4	6	15	14	5	17	69	34	52	111
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	19	171	2	7	50	34	10	41	176	152	390	1051
19SEP SE	0	14	89	2	3	8	18	2	13	32	59	231	258
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	9	35	22	8	99	23	6	48	60	57	116	485
03OCT SE	0	6	21	16	5	22	8	2	22	19	25	52	74
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	3	23	123	28	2	39	10	10	71	115	85	138	645
17OCT SE	3	9	49	13	1	10	4	2	34	41	15	40	86
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- DENSITY 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- DENSITY 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- DENSITY 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- DENSITY 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- DENSITY 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-97 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL 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	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-98 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-98 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-99 REGIONAL DENSITY (NO./1,000m3) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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

TABLE D-100 REGIONAL STANDING CROP (IN THOUSANDS) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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

TABLE D-101 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF AMERICAN SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	20.96 14.20 7	8.78 2.63 9	2.29 14.45 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.14 0.14 11	4.49 2.53 7	4.55 3.10 8	47.61 15.89 8	334.49 81.06 10	30.10 82.70 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	158.12 89.59 11	7.16 7.16 7	17.02 6.77 8	141.41 102.96 8	3138.18 714.20 10	266.30 727.19 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.43 0.43 14	0.69 0.52 10	6.78 1.93 11	71.84 52.04 7	106.71 35.81 8	73.04 11.00 8	123.93 52.10 10	29.49 82.64 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	10.64 10.64 10	357.32 320.13 9	162.55 80.11 7	396.94 126.14 8	1420.97 931.68 6	4296.55 3118.02 6	511.15 3273.38 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.19 0.19 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	14.37 14.37 7	114.18 41.04 8	109.96 47.55 6	388.00 194.88 6	48.21 205.26 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	81.19 40.95 8	99.74 60.07 6	1062.02 275.50 6	95.61 284.93 126



TABLE D-103 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.86	13.27	40.38	2.73	4.50
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.86	3.46	29.83	1.76	30.12
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	8.67	0.00	0.00	3.47	0.96
13JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	8.67	0.00	0.00	2.71	9.09
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	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
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	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
08JUL-	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	NS	NS	NS	NS	NS	81
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL	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	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG	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
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP	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
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP	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
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT	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-104 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	3369 2283 7	624 187 9	3993 2291 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	23 23 11	635 358 7	803 546 8	7652 2554 8	23798 5767 10	32911 6341 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	26167 14825 11	1013 1013 7	3001 1194 8	22730 16549 8	223279 50815 10	276189 55482 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	60 60 14	206 154 10	1122 320 11	10163 7362 7	18812 6314 8	11740 1768 8	8817 3707 10	50920 10538 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	3171 3171 10	59132 52976 9	22997 11333 7	69979 22237 8	228395 149751 6	305695 221844 6	689368 274007 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	62 62 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	2032 2032 7	20130 7235 8	17673 7643 6	27606 13866 6	67504 17526 126
28MAY- ST.CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	14313 7220 8	16031 9655 6	75562 19602 6	105905 23012 126

TABLE D-104 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	0	0	0	0	0	0	0	213	122	2340	6491	195	9360	
06JUN SE	0	0	0	0	0	0	0	0	213	122	610	4794	125	4841	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST.CROP	0	0	0	0	0	0	54	0	0	1226	0	0	247	1527	
13JUN SE	0	0	0	0	0	0	54	0	0	1226	0	0	193	1242	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20JUN 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	
24JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27JUN 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	
08JUL- 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	
22JUL- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
25JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
07AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.07 0.07 14	0.00 0.00 10	0.00 0.00 11	1.28 1.28 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.10 1.29 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.07 0.04 14	0.83 0.41 10	31.45 12.00 11	3.18 2.00 7	2.65 1.67 8	15.78 10.78 8	5.84 1.59 10	4.60 16.42 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.45 0.32 13	2.56 0.79 15	2.08 0.66 15	2.33 1.50 12	9.73 8.64 6	18.27 3.83 14	15.69 4.94 10	50.75 12.44 11	43.31 7.66 7	41.44 13.90 8	130.92 27.68 8	209.41 57.44 10	40.53 67.74 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	2.93 2.00 13	23.02 7.86 7	17.03 4.80 14	45.39 19.81 10	48.65 7.49 9	60.30 9.72 7	51.44 14.78 8	225.07 58.25 6	4606.87 2323.92 6	390.82 2324.83 126
20MAY- 23MAY SE NO. TOWS	1.12 1.12 8	0.49 0.49 10	0.19 0.19 14	2.82 2.82 14	0.00 0.00 13	1.28 1.28 7	0.32 0.32 14	4.23 4.23 10	119.05 54.94 9	1174.67 507.70 7	555.82 152.44 8	509.24 146.24 6	381.77 210.33 6	211.62 591.33 126
28MAY- 31MAY SE NO. TOWS	88.79 88.79 8	0.27 0.27 10	0.00 0.00 14	0.35 0.25 14	1.43 0.87 13	3.95 3.95 7	2.21 1.37 14	6.17 3.06 10	3.67 2.87 9	15.38 8.93 7	88.31 23.35 8	4118.73 1089.11 6	15135.36 5226.60 6	1497.28 5339.66 126

TABLE D-105 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	6.46	0.00	1.28	0.00	0.00	0.29	0.00	0.00	0.00	13.10	386.62	882.27	99.23	
06JUN	SE	0.00	4.59	0.00	0.61	0.00	0.00	0.29	0.00	0.00	0.00	9.25	132.11	334.88	360.14	
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	7.63	0.75	0.00	0.00	0.48	1.76	0.00	0.00	17.33	0.00	0.00	74.53	7.88	
13JUN	SE	0.00	4.64	0.43	0.00	0.00	0.48	1.22	0.00	0.00	17.33	0.00	0.00	66.31	68.71	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.13	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00	0.00	3.00	0.44	
20JUN	SE	0.00	0.00	0.13	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00	0.00	2.13	3.33	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.37	2.80	
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.48	35.48	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	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	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL	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	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG	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	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	182 182 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	450 282 7	467 294 8	2537 1733 8	416 113 10	9332 2672 135	9332 2672 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	102 73 13	824 255 15	308 98 15	486 312 12	2019 1792 6	2553 536 14	4677 1472 10	8399 2059 11	6127 1083 7	7305 2450 8	21043 4448 8	14899 4087 10	68743 7331 135	68743 7331 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	4775 1632 7	2380 670 14	13533 5906 10	8051 1239 9	8531 1375 7	9068 2605 8	36176 9363 6	327775 165345 6	410901 165756 126	410901 165756 126
20MAY- ST. CROP 23MAY SE NO. TOWS	233 233 8	113 113 10	62 62 14	417 417 14	0 0 13	266 266 7	45 45 14	1260 1260 10	19701 9092 9	166181 71825 7	97989 26875 8	81852 23505 6	27163 14965 6	395281 82110 126	395281 82110 126
28MAY- ST. CROP 31MAY SE NO. TOWS	18559 18559 8	63 63 10	0 0 14	52 37 14	299 181 13	820 820 7	309 191 14	1839 913 10	608 475 9	2176 1264 7	15569 4116 8	662010 175055 6	1076867 371868 6	1779170 411454 126	1779170 411454 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, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
03JUN- ST. CROP	0	1481	0	189	0	0	40	0	0	0	2310	62141	62773	128934
06JUN SE	0	1053	0	91	0	0	40	0	0	0	1630	21234	23826	31974
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	1751	241	0	0	99	246	0	0	2452	0	0	5303	10092
13JUN SE	0	1065	140	0	0	99	170	0	0	2452	0	0	4718	5428
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	41	0	0	0	358	0	0	0	0	0	213	612
20JUN SE	0	0	41	0	0	0	358	0	0	0	0	0	151	391
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	2588	2588
27JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	2524	2524
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-107 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.71 0.71 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	2.12 1.20 8	8.12 7.39 10	9.04 4.88 14	11.04 2.73 14	22.98 10.06 13	11.96 8.46 7	81.77 46.49 14	56.54 22.73 10	80.41 15.09 9	184.54 52.09 7	176.97 32.28 8	418.56 44.95 6	27.75 11.70 6	83.98 95.28 126	83.98 95.28 126
20MAY- 23MAY SE NO. TOWS	1.71 0.74 8	2.31 1.05 10	13.71 4.52 14	60.97 11.91 14	240.15 91.23 13	261.67 49.42 7	86.29 26.80 14	296.09 68.17 10	809.77 404.17 9	11582.89 2823.65 7	5212.10 1573.53 8	957.50 538.99 6	448.07 81.70 6	1536.40 3305.43 126	1536.40 3305.43 126
28MAY- 31MAY SE NO. TOWS	72.67 27.32 8	82.65 21.67 10	26.58 6.35 14	32.58 4.72 14	111.01 27.15 13	233.57 56.68 7	384.98 121.58 14	1287.35 239.85 10	1625.47 361.07 9	5933.55 1996.35 7	4506.74 457.89 8	6035.61 1543.05 6	1999.45 1277.47 6	1717.86 2901.02 126	1717.86 2901.02 126



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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- DENSITY	81.83	39.87	22.59	48.13	239.54	151.02	721.03	819.87	775.84	18408.02	11084.23	6094.25	1701.75	3091.38	
06JUN SE	22.36	20.89	5.81	11.01	78.29	24.70	118.64	320.79	141.71	4354.38	3295.59	1947.91	152.81	5812.41	
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	34.98	62.74	3.36	49.99	48.14	98.71	115.45	495.22	3492.46	3363.76	1032.28	5264.22	3155.01	1324.33	
13JUN SE	10.02	22.99	1.81	11.66	11.25	16.11	26.18	172.01	446.29	490.58	118.42	1191.64	912.07	1654.44	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	10.94	10.19	30.88	26.31	160.35	416.54	3010.92	876.46	972.86	3255.51	460.02	516.70	68.38	755.08	
20JUN SE	3.04	6.85	7.84	4.98	94.21	71.19	579.02	284.10	145.07	254.35	115.52	144.10	35.12	742.39	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- DENSITY	8.97	6.89	0.00	11.63	61.35	296.82	968.29	3097.35	481.49	1038.07	823.24	156.07	202.10	550.18	
27JUN SE	4.53	3.91	0.00	7.79	25.69	140.63	347.48	910.66	56.13	217.63	229.29	66.41	81.41	1041.49	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- DENSITY	0.00	11.19	4.15	2.35	5.80	29.40	39.66	547.48	NS	NS	NS	NS	NS	80.01	
11JUL SE	0.00	11.19	4.15	1.68	4.15	10.37	15.81	291.35	NS	NS	NS	NS	NS	292.24	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL- DENSITY	0.00	32.11	0.00	0.00	0.35	1.85	22.73	8.79	NS	NS	NS	NS	NS	8.23	
25JUL SE	0.00	14.93	0.00	0.00	0.35	0.62	8.47	3.85	NS	NS	NS	NS	NS	17.61	
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	NS	NS	NS	NS	NS	0.20	
07AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	NS	NS	NS	NS	NS	0.87	
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG- DENSITY	0.00	31.24	0.00	0.85	0.00	0.00	0.40	0.72	NS	NS	NS	NS	NS	4.15	
21AUG SE	0.00	31.24	0.00	0.85	0.00	0.00	0.40	0.72	NS	NS	NS	NS	NS	31.27	
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP 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	
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP 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	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	148 148 6	0 0 13	374 147 15	101 47 15	1584 866 12	1885 1010 6	2097 372 14	1300 482 10	1572 769 11	2197 810 7	733 279 8	288 175 8	31 31 10	12309 1882 135
13MAY- ST. CROP 16MAY SE NO. TOWS	443 251 8	1864 1695 10	2910 1572 14	1631 403 14	4787 2095 13	2481 1756 7	11430 6499 14	16856 6776 10	13306 2497 9	26107 7369 7	31200 5691 8	67276 7225 6	1975 832 6	182264 15717 126
20MAY- ST. CROP 23MAY SE NO. TOWS	357 154 8	529 240 10	4411 1454 14	9007 1759 14	50032 19006 13	54284 10253 7	12063 3746 14	88276 20325 10	134005 66883 9	1638629 399462 7	918870 277407 8	153901 86634 6	31880 5813 6	3096246 499435 126
28MAY- ST. CROP 31MAY SE NO. TOWS	15188 5710 8	18961 4971 10	8553 2042 14	4814 697 14	23127 5656 13	48456 11758 7	53817 16995 14	383802 71508 10	268991 59751 9	839419 282424 7	794519 80724 8	970115 248017 6	142259 90891 6	3572021 406519 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	17103	9146	7269	7110	49904	31330	100794	244431	128389	2604181	1954103	979540	121078	6254378
06JUN SE	4673	4793	1871	1626	16311	5123	16585	95638	23451	616013	580998	313090	10872	908565
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	7311	14395	1080	7385	10029	20477	16139	147641	577948	475871	181987	846127	224476	2530866
13JUN SE	2094	5274	583	1723	2345	3343	3660	51283	73855	69402	20877	191535	64893	233022
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	2286	2338	9937	3886	33407	86414	420900	261301	160993	460557	81100	83051	4865	1611036
20JUN SE	636	1572	2523	736	19627	14768	80942	84700	24008	35983	20365	23161	2499	131025
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	1876	1581	0	1718	12782	61576	135359	923425	79679	146856	145133	25085	14379	1549449
27JUN SE	947	896	0	1151	5352	29174	48574	271500	9288	30788	40423	10674	5792	282436
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	2568	1336	348	1207	6099	5545	163223	NS	NS	NS	NS	NS	180326
11JUL SE	0	2568	1336	248	865	2151	2210	86862	NS	NS	NS	NS	NS	86969
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
22JUL- ST. CROP	0	7367	0	0	73	384	3177	2621	NS	NS	NS	NS	NS	13622
25JUL SE	0	3425	0	0	73	128	1184	1148	NS	NS	NS	NS	NS	3804
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75
05AUG- ST. CROP	0	0	0	0	0	0	0	476	NS	NS	NS	NS	NS	476
07AUG SE	0	0	0	0	0	0	0	259	NS	NS	NS	NS	NS	259
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78
19AUG- ST. CROP	0	7168	0	125	0	0	56	214	NS	NS	NS	NS	NS	7563
21AUG SE	0	7168	0	125	0	0	56	214	NS	NS	NS	NS	NS	7172
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-109 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-109 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-110 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-110 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-111 REGIONAL DENSITY (NO./1,000m3) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
30JUN- DENSITY	0.00	0.00	0.21	0.00	8.17	42.15	234.42	413.62	245.43	465.35	101.94	10.82	8.16	117.71
04JUL SE	0.00	0.00	0.21	0.00	3.05	18.84	118.47	84.53	115.36	59.05	5.97	4.37	6.41	196.05
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.59	2.38	5.30	20.69	20.54	206.19	197.08	113.68	39.61	329.45	722.78	58.35	4.30	132.38
19JUL SE	0.21	1.11	1.58	5.38	5.68	36.55	86.73	37.98	14.45	93.50	346.50	30.54	1.54	374.59
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.02	0.08	0.01	9.51	60.21	14.25	11.83	121.62	55.16	102.20	80.92	35.06
01AUG SE	0.00	0.00	0.02	0.06	0.01	5.26	17.99	4.71	2.83	48.79	23.26	36.40	44.19	81.12
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.01	0.24	9.21	16.89	7.00	1.84	2.73
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.01	0.09	4.13	16.83	2.84	0.44	17.57
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.72	0.26	0.00	0.56	0.00	0.12
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.70	0.26	0.00	0.47	0.00	0.88
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- 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
12SEP 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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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



TABLE D-112 REGIONAL STANDING CROP (IN THOUSANDS) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	67	0	1702	8744	32770	123313	40615	65833	17972	1739	581	293336	
04JUL SE	0	0	67	0	635	3908	16561	25202	19091	8354	1052	702	456	36894	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- ST. CROP	123	547	1706	3057	4280	42775	27550	33891	6554	46607	127422	9379	306	304195	
19JUL SE	44	255	509	796	1183	7582	12123	11322	2391	13227	61087	4908	109	65356	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- ST. CROP	0	0	6	12	1	1972	8416	4250	1957	17205	9724	16426	5757	65728	
01AUG SE	0	0	6	8	1	1091	2515	1403	469	6903	4100	5851	3144	10876	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- ST. CROP	0	0	0	0	0	0	37	4	40	1303	2978	1126	131	5618	
15AUG SE	0	0	0	0	0	0	16	4	14	584	2967	456	31	3058	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- ST. CROP	0	0	0	0	0	0	2	13	119	37	0	90	0	261	
29AUG SE	0	0	0	0	0	0	2	13	116	37	0	75	0	143	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	0	3	
12SEP SE	0	0	0	0	0	0	0	0	3	0	0	0	0	3	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07NOV 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	
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22NOV 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	

TABLE D-113 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALOSA SPP. YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.33	28.13	2.25	2.00	5.33	22.74	3.25	5.34
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.33	21.67	1.24	1.09	3.24	8.89	1.39	23.75
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.00	0.14	0.00	9.67	112.33	105.38	53.88	48.13	22.67	60.00	7.33	34.96
26JUN SE	0.00	0.00	0.14	0.00	9.17	112.33	56.65	17.51	30.99	6.98	19.90	3.40	132.80
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	1.82	7.43	4.00	15.00	167.67	53.63	218.13	60.75	21.73	13.95	4.08	47.35
10JUL SE	0.00	1.25	2.96	3.06	14.50	79.80	29.93	120.22	36.88	4.89	3.23	1.29	152.78
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	3.20	5.25	19.93	4.60	151.00	110.83	303.00	125.20	59.20	35.78	383.60	105.57	108.93
24JUL SE	2.52	3.93	13.33	3.89	75.58	29.37	133.74	108.86	47.69	22.13	114.86	46.36	233.73
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.00	0.00	0.00	0.80	0.00	0.00	4.00	0.00	3.67	5.50	1.29	1.27
08AUG SE	0.00	0.00	0.00	0.00	0.58	0.00	0.00	4.00	0.00	3.42	2.88	1.29	6.17
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.80	1.89	0.30	0.57	1.71
22AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.95	1.89	0.30	0.37	12.11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.03
05SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.30
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	4	200	3	17	94	447	44	808
12JUN SE	0	0	0	0	0	4	154	2	9	57	175	19	241
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	0	4	0	25	1196	748	67	414	398	1181	100	4133
26JUN SE	0	0	4	0	24	1196	402	22	267	123	391	46	1355
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	83	200	37	40	1786	380	270	523	382	274	55	4030
10JUL SE	0	57	80	28	38	850	212	149	317	86	63	17	956
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	24	239	536	42	398	1180	2150	155	510	628	7548	1434	14844
24JUL SE	19	178	358	36	199	313	949	135	411	389	2260	630	2654
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	0	0	0	2	0	0	5	0	64	108	17	197
08AUG SE	0	0	0	0	2	0	0	5	0	60	57	17	85
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	0	0	0	0	0	0	153	33	6	8	200
22AUG SE	0	0	0	0	0	0	0	0	103	33	6	5	108
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	6	0	6
05SEP SE	0	0	0	0	0	0	0	0	0	0	6	0	6
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	NS
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-115 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	12.94	1.33	
13JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	9.55	10.52	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	2.56	0.00	0.42	
20JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	1.56	0.00	2.61	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	4.10	0.00	0.42	6.82	23.16	3.98	4.90	3.34	
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	2.19	0.00	0.42	3.08	13.57	1.88	2.43	14.42	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	0.00	5.34	10.02	3.20	10.76	38.26	86.46	NS	NS	NS	NS	NS	19.26	
11JUL	SE	0.00	0.00	1.91	4.10	2.19	6.17	30.50	61.29	NS	NS	NS	NS	NS	68.92	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	6.01	1.66	28.01	0.66	0.10	13.40	11.88	NS	NS	NS	NS	NS	7.71	
25JUL	SE	0.00	3.67	0.88	19.15	0.54	0.10	9.02	6.99	NS	NS	NS	NS	NS	22.61	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	1.79	4.46	1.58	4.97	1.91	0.00	9.67	14.72	NS	NS	NS	NS	NS	4.89	
07AUG	SE	1.79	0.63	0.00	2.20	1.11	0.00	4.08	8.74	NS	NS	NS	NS	NS	10.13	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	1.38	0.86	6.96	1.33	0.51	5.63	12.10	NS	NS	NS	NS	NS	3.60	
21AUG	SE	0.00	1.38	0.86	2.94	1.30	0.51	3.22	6.81	NS	NS	NS	NS	NS	8.36	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	0.00	0.00	0.86	4.09	0.73	0.12	2.37	7.16	NS	NS	NS	NS	NS	1.92	
05SEP	SE	0.00	0.00	0.86	2.39	0.58	0.12	1.01	4.52	NS	NS	NS	NS	NS	5.31	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	0.00	1.26	0.75	0.00	0.51	1.64	2.25	5.39	NS	NS	NS	NS	NS	1.48	
18SEP	SE	0.00	1.26	0.75	0.00	0.30	0.84	1.07	2.67	NS	NS	NS	NS	NS	3.35	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.27	0.64	2.07	1.50	NS	NS	NS	NS	NS	0.56	
01OCT	SE	0.00	0.00	0.00	0.00	0.27	0.17	1.16	0.67	NS	NS	NS	NS	NS	1.38	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-116 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-116 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	707	920	1628	
13JUN SE	0	0	0	0	0	0	0	0	0	0	0	707	680	981	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	502	412	0	915	
20JUN SE	0	0	0	0	0	0	0	0	0	0	369	251	0	446	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- ST. CROP	0	0	0	0	0	0	573	0	69	965	4084	639	348	6678	
27JUN SE	0	0	0	0	0	0	306	0	69	435	2392	302	173	2476	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- ST. CROP	0	0	1719	1480	667	2232	5349	25777	NS	NS	NS	NS	NS	37224	
11JUL SE	0	0	614	605	456	1280	4264	18272						18832	
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- ST. CROP	0	1379	535	4138	138	20	1873	3542	NS	NS	NS	NS	NS	11624	
25JUL SE	0	842	283	2829	113	20	1261	2083	NS	NS				3838	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	375	1024	509	734	398	0	1352	4389	NS	NS	NS	NS	NS	8781	
07AUG SE	375	144	0	326	231	0	570	2605						2726	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	317	277	1029	277	107	787	3608	NS	NS	NS	NS	NS	6401	
21AUG SE	0	317	277	434	270	107	450	2029						2184	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	275	605	152	24	332	2134	NS	NS	NS	NS	NS	3523	
05SEP SE	0	0	275	353	120	24	141	1348						1433	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	289	242	0	107	341	315	1606	NS	NS	NS	NS	NS	2899	
18SEP SE	0	289	242	0	63	174	149	795						911	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	56	132	289	448	NS	NS	NS	NS	NS	926	
01OCT SE	0	0	0	0	56	36	162	200						266	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-117 REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	0.35	0.24	4.67	4.67	0.88	0.44	0.11	1.02	0.00	0.95
04JUL SE	0.00	0.00	0.00	0.00	0.31	0.24	1.52	1.61	0.48	0.28	0.07	0.47	0.00	2.37
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.46	0.98	1.45	0.15	0.82	0.51	4.43	1.41	0.03	7.25	17.53	7.95	0.26	3.33
19JUL SE	0.42	0.72	0.40	0.06	0.39	0.32	0.79	0.74	0.02	1.89	5.49	4.73	0.26	7.64
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.28	0.33	0.63	0.95	0.22	0.56	4.23	0.85	0.38	1.99	6.57	4.21	0.43	1.66
01AUG SE	0.10	0.10	0.18	0.22	0.09	0.38	1.53	0.45	0.11	0.98	4.04	1.31	0.26	4.68
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.29	0.03	0.21	0.55	0.04	0.03	1.10	5.47	0.69	4.17	4.49	0.22	0.53	1.37
15AUG SE	0.07	0.03	0.08	0.14	0.02	0.02	0.43	2.31	0.38	1.40	4.49	0.11	0.31	5.28
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.46	0.03	0.71	0.63	1.57	3.64	6.91	1.33	1.20	1.27
29AUG SE	0.00	0.00	0.00	0.00	0.34	0.03	0.28	0.28	1.04	1.10	3.19	0.95	0.36	3.71
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.09	0.00	0.00	0.23	0.14	0.22	0.64	0.60	0.62	1.23	0.67	0.12	0.00	0.35
12SEP SE	0.05	0.00	0.00	0.10	0.06	0.22	0.35	0.21	0.57	0.60	0.67	0.12	0.00	1.17
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.03	0.03	0.03	0.12	3.97	1.44	5.79	4.31	0.89	0.84	1.34
26SEP SE	0.00	0.00	0.00	0.03	0.02	0.01	0.06	2.50	0.71	1.97	1.07	0.59	0.37	3.51
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.34	0.00	0.00	0.03	0.14	0.44	0.15	0.46	0.12	0.68	8.50	0.00	0.60	0.88
10OCT SE	0.34	0.00	0.00	0.03	0.08	0.27	0.05	0.26	0.06	0.40	6.62	0.00	0.42	6.66
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.11	0.05	0.13	0.00	0.11	0.01	0.47	0.03	0.00	0.16	0.03	0.00	0.00	0.09
24OCT SE	0.08	0.03	0.07	0.00	0.09	0.01	0.19	0.02	0.00	0.08	0.03	0.00	0.00	0.25
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.58	0.33	0.31	0.17	0.04	0.00	0.03	0.00	0.00	0.00	0.05	0.07	0.00	0.12
07NOV SE	0.16	0.11	0.12	0.07	0.02	0.00	0.02	0.00	0.00	0.00	0.03	0.07	0.00	0.25
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.30	0.36	0.67	2.11	0.07	0.00	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.28
22NOV SE	0.13	0.14	0.23	1.60	0.04	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	1.63
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-118 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	0	0	73	49	653	1394	145	62	20	163	0	2559
04JUL SE	0	0	0	0	64	49	213	481	79	40	12	75	0	545
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	96	224	468	22	171	106	620	421	6	1025	3090	1278	18	7543
19JUL SE	88	166	129	9	82	65	110	222	4	268	967	761	18	1308
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	59	76	203	141	46	117	591	254	62	281	1158	676	30	3694
01AUG SE	21	23	59	33	18	79	213	133	19	138	713	210	19	805
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	60	6	66	81	8	7	154	1631	115	590	791	36	38	3583
15AUG SE	16	6	27	21	4	4	60	689	62	198	791	18	22	1072
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	97	7	99	188	260	515	1217	214	85	2684
29AUG SE	0	0	0	0	71	5	39	84	172	155	562	153	26	639
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	19	0	0	33	30	45	89	178	102	174	119	19	0	807
12SEP SE	10	0	0	14	12	45	50	64	94	85	119	19	0	198
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	4	6	7	17	1183	238	819	759	143	60	3237
26SEP SE	0	0	0	4	4	3	8	746	117	279	189	95	26	833
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	72	0	0	5	30	91	21	137	19	96	1498	0	42	2011
10OCT SE	72	0	0	5	16	56	7	76	10	56	1167	0	30	1175
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	24	11	43	0	23	2	66	10	0	23	5	0	0	206
24OCT SE	16	6	21	0	19	2	27	7	0	11	5	0	0	45
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	121	75	99	25	9	0	4	0	0	0	9	11	0	352
07NOV SE	34	26	38	10	4	0	3	0	0	0	6	11	0	60
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	62	82	216	312	15	0	11	5	0	0	0	0	0	703
22NOV SE	27	33	73	237	7	0	6	5	0	0	0	0	0	252
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-119 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- CPUE	0.00	0.00	0.00	0.00	0.00	1.33	0.25	1.75	0.13	1.20	1.16	0.50	0.53
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.67	0.16	0.96	0.13	0.35	0.65	0.29	1.43
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.73	5.00	3.67	0.67	8.00	4.00	1.63	1.88	0.67	0.47	0.00	2.23
10JUL SE	0.00	0.47	2.87	3.67	0.33	4.16	1.69	0.63	0.77	0.41	0.33	0.00	6.59
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.00	3.57	0.00	2.20	0.50	0.00	0.20	0.00	0.00	0.90	0.00	0.61
24JUL SE	0.00	0.00	2.44	0.00	1.43	0.34	0.00	0.20	0.00	0.00	0.50	0.00	2.90
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.08	4.64	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.40	0.14	0.45
08AUG SE	0.00	0.08	2.62	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.22	0.14	2.64
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	5.07	0.00	0.00	0.83	0.20	0.00	0.00	0.33	0.80	0.00	0.60
22AUG SE	0.00	0.00	3.56	0.00	0.00	0.54	0.20	0.00	0.00	0.33	0.61	0.00	3.67
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.21	2.71	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.40	0.00	0.82
05SEP SE	0.00	0.17	1.52	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.27	0.00	6.68
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.17	6.21	0.00	0.20	0.17	0.00	0.00	0.00	0.33	0.10	0.00	0.60
19SEP SE	0.00	0.13	4.45	0.00	0.20	0.17	0.00	0.00	0.00	0.33	0.10	0.00	4.47
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	1.36	0.00	0.00	0.67	0.00	0.20	0.00	0.00	0.10	0.00	0.19
03OCT SE	0.00	0.00	1.28	0.00	0.00	0.49	0.00	0.20	0.00	0.00	0.10	0.00	1.39
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.79	0.00	0.00	0.67	0.00	0.00	0.00	0.00	7.80	0.00	0.77
17OCT SE	0.00	0.00	0.41	0.00	0.00	0.21	0.00	0.00	0.00	0.00	7.80	0.00	7.81
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- ST. CROP	0	0	0	0	0	14	2	2	1	21	23	7	70
26JUN SE	0	0	0	0	0	7	1	1	1	6	13	4	16
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	33	134	34	2	85	28	2	16	12	9	0	356
10JUL SE	0	21	77	34	1	44	12	1	7	7	6	0	99
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	96	0	6	5	0	< 0.5	0	0	18	0	125
24JUL SE	0	0	66	0	4	4	0	< 0.5	0	0	10	0	67
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	4	125	0	0	2	0	0	0	0	8	2	140
08AUG SE	0	4	71	0	0	2	0	0	0	0	4	2	71
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	136	0	0	9	1	0	0	6	16	0	168
22AUG SE	0	0	96	0	0	6	1	0	0	6	12	0	97
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	9	73	0	0	69	0	0	0	0	8	0	160
05SEP SE	0	8	41	0	0	69	0	0	0	0	5	0	81
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	8	167	0	1	2	0	0	0	6	2	0	185
19SEP SE	0	6	120	0	1	2	0	0	0	6	2	0	120
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	36	0	0	7	0	< 0.5	0	0	2	0	46
03OCT SE	0	0	34	0	0	5	0	< 0.5	0	0	2	0	35
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	21	0	0	7	0	0	0	0	153	0	182
17OCT SE	0	0	11	0	0	2	0	0	0	0	153	0	154
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- DENSITY 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- DENSITY 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- DENSITY 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- DENSITY 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- DENSITY 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- DENSITY 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- DENSITY 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- DENSITY 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- DENSITY 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.18 0.18 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.01 0.18 135
13MAY- DENSITY 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.61 0.61 6	0.00 0.00 6	0.05 0.61 126
20MAY- DENSITY 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- DENSITY 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-121 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.19	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
18SEP	SE	0.00	0.00	0.00	0.00	0.19	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-122 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	27 27 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 8	0 0 10	27 27 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	98 98 6	0 0 6	98 98 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-122 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	39	0	12	0	NS	NS	NS	NS	NS	51
18SEP SE	0	0	0	0	39	0	12	0						41
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
04JUL SE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- 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
29AUG 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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
12SEP SE	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	< 0.005
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05
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	0.01	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	< 0.005
07NOV 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
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	< 0.005
22NOV SE	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150



TABLE D-124 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	7	0	0	0	0	0	0	0	0	0	0	7
04JUL SE	0	0	7	0	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
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	4	0	0	0	0	0	4
15AUG SE	0	0	0	0	0	0	0	4	0	0	0	0	0	4
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	0	3
29AUG SE	0	0	0	0	0	0	0	0	3	0	0	0	0	3
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	0	2
12SEP SE	0	0	0	0	0	2	0	0	0	0	0	0	0	2
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	7	0	0	0	7
26SEP SE	0	0	0	0	0	0	0	0	0	7	0	0	0	7
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	1	0	0	0	0	0	0	1
24OCT SE	0	0	0	0	0	0	1	0	0	0	0	0	0	1
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	9	0	0	9
07NOV SE	0	0	0	0	0	0	0	0	0	0	6	0	0	6
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	3	0	0	0	0	0	0	0	0	3
22NOV SE	0	0	0	0	3	0	0	0	0	0	0	0	0	3
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-125 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.01
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-126 REGIONAL STANDING CROP (IN THOUSANDS) OF ALEWIFE YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	< 0.5	0	0	0	0	< 0.5
12JUN SE	0	0	0	0	0	0	0	< 0.5	0	0	0	0	< 0.5
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-127 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-127 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.04	
13JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.50	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.01	
20JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.18	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	1.80	0.00	0.24	
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	1.80	0.00	1.99	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	0.00	0.91	2.19	1.58	306.53	265.87	749.97	NS	NS	NS	NS	NS	165.88	
11JUL	SE	0.00	0.00	0.91	1.15	1.12	136.91	69.58	396.94						425.62	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	10.01	10.18	27.83	1.94	33.49	189.03	187.72	NS	NS	NS	NS	NS	57.52	
25JUL	SE	0.00	10.01	8.21	18.09	0.92	14.21	47.03	122.74						134.07	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	1.09	17.36	22.73	3.89	60.15	337.85	91.65	NS	NS	NS	NS	NS	66.84	
07AUG	SE	0.00	1.09	11.69	7.22	3.03	6.95	108.46	30.26						113.70	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	1.70	0.00	15.09	5.93	11.81	13.12	61.94	70.85	NS	NS	NS	NS	NS	22.55	
21AUG	SE	1.70	0.00	5.50	3.40	10.97	9.99	21.93	14.87						31.09	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	0.00	3.34	5.43	20.09	1.15	5.05	71.58	98.29	NS	NS	NS	NS	NS	25.62	
05SEP	SE	0.00	1.78	3.15	11.63	0.68	2.23	43.97	39.19						60.19	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	0.00	0.00	0.69	5.98	11.54	83.60	94.46	662.27	NS	NS	NS	NS	NS	107.32	
18SEP	SE	0.00	0.00	0.69	4.26	4.61	30.47	11.73	270.29						272.33	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	3.25	6.63	52.08	173.23	NS	NS	NS	NS	NS	29.40	
01OCT	SE	0.00	0.00	0.00	0.00	1.80	3.25	22.00	34.57						41.14	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-128 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-128 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	ALL COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	80	0	80
13JUN SE	0	0	0	0	0	0	0	0	0	0	0	80	0	80
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	53	0	0	0	0	0	53
20JUN SE	0	0	0	0	0	0	0	53	0	0	0	0	0	53
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	0	0	0	0	0	0	0	0	219	0	0	289	0	508
27JUN SE	0	0	0	0	0	0	0	0	142	0	0	289	0	322
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	0	292	323	329	63591	37166	223590	NS	NS	NS	NS	NS	325291
11JUL SE	0	0	292	170	232	28403	9726	118341						122091
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	2296	3275	4111	404	6948	26425	55965	NS	NS	NS	NS	NS	99425
25JUL SE	0	2296	2641	2672	192	2947	6575	36592						37554
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	250	5586	3358	810	12479	47228	27324	NS	NS	NS	NS	NS	97034
07AUG SE	0	250	3763	1067	632	1442	15162	9021						18141
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	354	0	4856	877	2460	2721	8658	21123	NS	NS	NS	NS	NS	41048
21AUG SE	354	0	1769	502	2285	2073	3065	4434						6487
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	765	1747	2968	240	1047	10007	29302	NS	NS	NS	NS	NS	46077
05SEP SE	0	408	1013	1718	142	462	6146	11684						13367
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	222	883	2404	17342	13205	197444	NS	NS	NS	NS	NS	231501
18SEP SE	0	0	222	630	960	6322	1640	80582						80854
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	677	1376	7281	51646	NS	NS	NS	NS	NS	60979
01OCT SE	0	0	0	0	375	675	3075	10307						10784
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-129 REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	0.06	0.00	0.00	0.00	0.00	< 0.005
04JUL	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	0.00	0.06
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL-	DENSITY	2.71	5.15	0.52	0.75	1.16	0.79	1.21	3.13	0.12	1.16	17.67	2.39	1.53	1.53	2.95
19JUL	SE	0.62	2.62	0.25	0.30	0.55	0.69	0.76	2.01	0.08	0.59	12.16	1.47	0.93	0.93	12.80
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL-	DENSITY	1.79	0.45	2.83	3.10	3.53	59.43	4.76	3.57	16.45	10.11	15.64	22.64	14.42	14.42	12.21
01AUG	SE	0.45	0.22	1.76	0.67	2.84	15.04	1.02	0.82	1.75	4.01	7.73	7.09	10.36	10.36	21.82
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG-	DENSITY	3.44	0.26	0.48	1.22	0.60	19.47	35.45	70.99	11.76	463.35	315.55	465.64	102.69	102.69	114.68
15AUG	SE	0.88	0.14	0.24	0.36	0.34	5.35	12.56	28.57	5.77	185.96	259.48	217.36	51.60	51.60	390.96
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28AUG-	DENSITY	0.00	0.21	0.19	1.09	0.17	1.06	25.30	19.60	96.76	106.06	250.30	98.66	62.34	62.34	50.90
29AUG	SE	0.00	0.05	0.12	0.24	0.06	0.50	7.66	4.18	48.74	30.82	179.77	15.42	35.17	35.17	192.86
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
09SEP-	DENSITY	0.00	0.00	0.06	2.13	0.30	0.96	15.40	12.60	6.25	35.49	61.69	53.58	43.76	43.76	17.86
12SEP	SE	0.00	0.00	0.03	1.05	0.21	0.69	9.35	2.26	1.64	5.68	23.98	22.13	16.22	16.22	38.18
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP-	DENSITY	0.03	0.09	0.30	0.76	0.74	0.85	5.21	29.47	131.04	144.59	231.48	86.64	60.72	60.72	53.23
26SEP	SE	0.03	0.06	0.23	0.71	0.45	0.37	1.97	11.70	76.39	61.21	176.87	31.93	30.20	30.20	207.22
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT-	DENSITY	0.06	0.31	0.73	2.09	3.57	4.08	3.10	10.23	11.95	95.47	65.20	64.88	53.32	53.32	24.23
10OCT	SE	0.04	0.10	0.62	0.80	1.63	1.35	0.65	2.95	6.24	27.04	23.51	32.04	31.86	31.86	58.13
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT-	DENSITY	0.00	0.00	0.00	0.00	0.01	0.01	0.58	0.08	0.20	0.08	0.03	0.05	0.05	0.05	0.08
24OCT	SE	0.00	0.00	0.00	0.00	0.01	0.01	0.17	0.04	0.13	0.06	0.03	0.05	0.05	0.05	0.24
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV-	DENSITY	0.00	0.07	0.02	0.02	0.00	0.01	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01
07NOV	SE	0.00	0.03	0.02	0.02	0.00	0.01	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.06
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
18NOV-	DENSITY	0.03	0.14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
22NOV	SE	0.03	0.14	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150



TABLE D-130 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
30JUN- ST. CROP	0	0	0	0	0	0	0	0	0	8	0	0	0	8
04JUL SE	0	0	0	0	0	0	0	0	0	8	0	0	0	8
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	566	1181	166	111	241	165	169	934	19	164	3115	385	109	7325
19JUL SE	129	601	80	44	115	144	106	598	13	83	2143	235	66	2334
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	374	104	911	458	736	12329	666	1063	2722	1431	2758	3639	1026	28215
01AUG SE	95	51	566	99	591	3119	142	246	289	567	1363	1139	737	3822
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	719	59	154	180	124	4039	4956	21163	1946	65550	55631	74843	7306	236671
15AUG SE	185	33	77	53	71	1111	1755	8518	955	26308	45745	34936	3671	64004
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	47	61	161	35	220	3536	5842	16012	15005	44127	15858	4435	105339
29AUG SE	0	13	39	35	13	104	1070	1247	8066	4361	31693	2478	2502	33221
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	21	315	63	200	2153	3757	1034	5021	10875	8612	3114	35164
12SEP SE	0	0	9	155	43	144	1307	673	271	803	4228	3557	1154	5899
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	6	21	97	112	155	177	728	8787	21685	20455	40810	13926	4320	111280
26SEP SE	6	14	74	105	93	78	276	3487	12642	8659	31182	5132	2149	35360
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	12	71	234	309	745	846	434	3051	1977	13506	11495	10428	3793	48901
10OCT SE	8	22	200	118	340	281	91	880	1033	3825	4144	5150	2267	8097
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	0	2	2	81	25	33	12	5	8	4	172
24OCT SE	0	0	0	0	2	2	23	11	22	8	5	8	4	37
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	16	6	4	0	2	2	0	0	4	0	0	0	35
07NOV SE	0	7	6	4	0	2	2	0	0	4	0	0	0	12
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	5	33	24	0	0	0	0	0	0	0	0	0	0	62
22NOV SE	5	33	9	0	0	0	0	0	0	0	0	0	0	35
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

ALL

TABLE D-131 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.02
26JUN 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	0.25
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.27	0.29	1.67	0.00	0.33	0.75	1.00	2.25	0.47	0.11	0.00	0.59
10JUL SE	0.00	0.27	0.29	1.67	0.00	0.33	0.49	0.57	1.45	0.24	0.07	0.00	2.40
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.00	0.36	16.20	0.80	3.00	6.40	0.80	0.00	0.33	6.90	1.71	3.04
24JUL SE	0.00	0.00	0.29	14.28	0.37	0.82	4.17	0.80	0.00	0.33	1.79	1.04	15.08
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.00	5.64	1.80	52.00	73.33	496.60	134.60	0.80	132.00	765.00	36.14	141.49
08AUG SE	0.00	0.00	4.97	1.20	29.59	54.53	496.60	133.85	0.58	66.53	461.25	16.72	697.04
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.07	0.20	102.20	62.50	21.00	6.80	24.00	80.22	736.60	86.43	93.34
22AUG SE	0.00	0.00	0.07	0.20	82.93	13.39	11.56	5.63	16.26	23.35	473.99	50.65	485.04
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.04	1.43	0.20	267.00	123.00	13.40	10.80	18.00	18.89	380.80	40.71	72.86
05SEP SE	0.00	0.04	0.83	0.20	196.52	72.24	11.20	10.80	13.02	5.98	112.44	16.76	239.19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.00	2.86	0.40	61.60	147.83	22.40	1.00	15.20	73.89	139.60	19.29	40.34
19SEP SE	0.00	0.00	2.06	0.40	40.90	42.95	18.25	0.63	8.87	11.80	73.01	14.31	98.02
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.04	2.00	8.60	0.40	10.50	0.60	23.80	140.60	7.89	168.30	5.29	30.67
03OCT SE	0.00	0.04	1.92	8.60	0.24	8.94	0.60	16.21	95.27	2.25	162.23	2.30	189.28
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.04	0.21	16.60	0.00	23.50	0.00	1.80	24.00	3.89	24.90	24.14	9.92
17OCT SE	0.00	0.04	0.15	16.60	0.00	8.48	0.00	1.20	16.13	2.60	7.63	13.59	29.30
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- ST. CROP	0	0	0	0	0	0	2	0	0	0	0	0	2
26JUN SE	0	0	0	0	0	0	2	0	0	0	0	0	2
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	12	8	15	0	4	5	1	19	8	2	0	75
10JUL SE	0	12	8	15	0	4	3	1	12	4	1	0	25
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	10	149	2	32	45	1	0	6	136	23	404
24JUL SE	0	0	8	132	1	9	30	1	0	6	35	14	141
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	0	152	17	137	781	3524	167	7	2317	15052	491	22644
08AUG SE	0	0	134	11	78	581	3524	166	5	1168	9075	227	9828
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	2	2	269	666	149	8	207	1408	14493	1174	18379
22AUG SE	0	0	2	2	219	143	82	7	140	410	9326	688	9365
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	2	38	2	704	1310	95	13	155	332	7492	553	10697
05SEP SE	0	2	22	2	518	769	79	13	112	105	2212	228	2416
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	77	4	162	1575	159	1	131	1297	2747	262	6414
19SEP SE	0	0	55	4	108	457	129	1	76	207	1436	194	1546
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	2	54	79	1	112	4	30	1210	138	3311	72	5014
03OCT SE	0	2	52	79	1	95	4	20	820	40	3192	31	3299
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	2	6	153	0	250	0	2	207	68	490	328	1506
17OCT SE	0	2	4	153	0	90	0	1	139	46	150	185	331
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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.28 0.28 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.26 0.26 7	0.00 0.00 8	1.27 1.27 6	0.53 0.53 6	0.18 1.43 126	0.18 1.43 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.04 0.53 126	0.04 0.53 126

TABLE D-133 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	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	
22JUL-	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
25JUL	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	11	10	8	10	6						75	
05AUG-	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
07AUG	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	10	14	13	8	10	6						78	
19AUG-	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
21AUG	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	
03SEP-	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
05SEP	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	
16SEP-	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
18SEP	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	
29SEP-	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
01OCT	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	

TABLE D-134 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	58 58 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	204 204 6	38 38 6	336 218 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	38 38 6	38 38 126

TABLE D-134 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	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, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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



TABLE D-136 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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

TABLE D-137 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEBACK HERRING YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-139 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-140 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-140 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL	SE	0.00	0.00	0.00	0.00	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	
28JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG	SE	0.00	0.00	0.00	0.00	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	
12AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG	SE	0.00	0.00	0.00	0.00	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	
26AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG	SE	0.00	0.00	0.00	0.00	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	
09SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP	SE	0.00	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP	SE	0.00	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV	SE	0.00	0.00	0.00	0.00	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	
18NOV-	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	0.00	< 0.005
22NOV	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	0.00	0.02
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	



TABLE D-142 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	5	0	0	0	0	0	5
22NOV 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

TABLE D-143 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.03
24JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.40
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-144 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	3
24JUL SE	0	0	0	0	0	0	0	0	3	0	0	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-145 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126

TABLE D-145 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL 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	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-146 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-146 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-147 REGIONAL DENSITY (NO./1,000m3) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
01AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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



TABLE D-148 REGIONAL STANDING CROP (IN THOUSANDS) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	0	1
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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

TABLE D-149 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF GIZZARD SHAD YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.67	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.08
12JUN SE	0.00	0.00	0.00	0.00	0.33	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.42
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13	0.00	0.00	0.17	0.03
26JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13	0.00	0.00	0.17	0.24
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.08	0.02
10JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.08	0.15
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.00	0.14	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.08
24JUL SE	0.00	0.00	0.10	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.59
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.04	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.04
08AUG SE	0.00	0.04	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.31
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.00	0.00	0.00	0.67	0.80	0.00	0.00	0.00	0.00	0.00	0.12
22AUG SE	0.00	0.00	0.00	0.00	0.00	0.67	0.58	0.00	0.00	0.00	0.00	0.00	0.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- 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
05SEP 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
16SEP- CPUE	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
19SEP SE	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	0.00	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.00	0.00	0.05
03OCT SE	0.00	0.00	0.00	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.00	0.00	0.35
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	0.40	0.00	0.00	0.00	0.07
17OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.57
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, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	2	0	2	0	0	0	0	0	4
12JUN SE	0	0	0	0	1	0	2	0	0	0	0	0	2
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	0	0	0	0	0	1	0	1	0	0	2	4
26JUN SE	0	0	0	0	0	0	1	0	1	0	0	2	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	1	2
10JUL SE	0	0	0	0	0	0	1	0	0	0	0	1	1
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	4	0	0	0	6	0	0	0	0	0	10
24JUL SE	0	0	3	0	0	0	4	0	0	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	2	8	0	0	0	0	0	0	0	2	0	12
08AUG SE	0	2	8	0	0	0	0	0	0	0	2	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	0	0	0	7	6	0	0	0	0	0	13
22AUG SE	0	0	0	0	0	7	4	0	0	0	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	0	0	0	0	0	0	0	2	0	0	0	2
05SEP 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
16SEP- ST. CROP	0	0	0	11	0	0	0	0	0	0	0	0	11
19SEP SE	0	0	0	9	0	0	0	0	0	0	0	0	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	0	0	1	0	1	0	2	0	0	0	4
03OCT SE	0	0	0	0	1	0	1	0	2	0	0	0	2
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	3	0	0	0	4
17OCT SE	0	0	0	0	0	0	0	< 0.5	3	0	0	0	3
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 YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-151 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-152 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-152 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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 FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26SEP SE	0.00	0.00	0.00	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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



TABLE D-154 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26SEP 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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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

TABLE D-155 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-156 REGIONAL STANDING CROP (IN THOUSANDS) OF RAINBOW SMELT YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-157 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-157 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN-	DENSITY	7.80	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
13JUN	SE	4.93	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.02
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN-	DENSITY	9033.46	44.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	698.34
20JUN	SE	3984.98	28.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3985.08
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN-	DENSITY	46176.20	2687.76	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3758.80
27JUN	SE	21225.39	1900.75	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21310.33
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL-	DENSITY	296.09	18910.59	234.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2430.13
11JUL	SE	129.46	6316.00	158.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6319.32
	NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
22JUL-	DENSITY	4105.30	19144.03	2746.54	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3249.53
25JUL	SE	1323.21	8111.72	1023.91	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8282.46
	NO. TOWS	6	11	13	11	10	8	10	6	0.00	0.00	0.00	0.00	0.00	75
05AUG-	DENSITY	179.72	7291.20	4686.14	942.35	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1642.96
07AUG	SE	60.17	3125.54	4380.90	840.63	35.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5447.28
	NO. TOWS	6	11	10	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	78
19AUG-	DENSITY	0.00	497.73	15.94	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.57
21AUG	SE	0.00	361.27	11.96	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	361.48
	NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
03SEP-	DENSITY	3.04	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
05SEP	SE	3.04	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32
	NO. TOWS	6	11	13	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	81
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81

TABLE D-158 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST.CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST.CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST.CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST.CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST.CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST.CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST.CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST.CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST.CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST.CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST.CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST.CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-158 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER EGGS IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST.CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST.CROP	1631	221	0	0	0	0	0	0	0	0	0	0	0	1852	1852
13JUN SE	1030	221	0	0	0	0	0	0	0	0	0	0	0	1054	1054
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST.CROP	1888107	10304	0	0	0	0	0	0	0	0	0	0	0	1898411	1898411
20JUN SE	832912	6619	0	0	0	0	0	0	0	0	0	0	0	832938	832938
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
24JUN- ST.CROP	9651404	616627	152	0	0	0	0	0	0	0	0	0	0	10268182	10268182
27JUN SE	4436373	436070	152	0	0	0	0	0	0	0	0	0	0	4457753	4457753
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
08JUL- ST.CROP	61886	4338473	75412	0	0	0	0	0	NS	NS	NS	NS	NS	4475772	4475772
11JUL SE	27060	1449018	51159	0	0	0	0	0	0	0	0	0	0	1450173	1450173
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
22JUL- ST.CROP	858059	4392030	883867	60	0	0	0	0	NS	NS	NS	NS	NS	6134016	6134016
25JUL SE	276567	1860992	329507	60	0	0	0	0	0	0	0	0	0	1910067	1910067
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75	75
05AUG- ST.CROP	37565	1672749	1508053	139220	9230	0	0	0	NS	NS	NS	NS	NS	3366816	3366816
07AUG SE	12577	717063	1409824	124192	7335	0	0	0	0	0	0	0	0	1586637	1586637
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78	78
19AUG- ST.CROP	0	114189	5129	0	607	0	0	0	NS	NS	NS	NS	NS	119925	119925
21AUG SE	0	82882	3849	0	607	0	0	0	0	0	0	0	0	82973	82973
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
03SEP- ST.CROP	636	302	0	0	0	0	0	0	NS	NS	NS	NS	NS	939	939
05SEP SE	636	302	0	0	0	0	0	0	0	0	0	0	0	704	704
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
16SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP 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
29SEP- ST.CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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-159 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-159 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.68	1.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	
27JUN SE	0.68	1.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- DENSITY	0.00	2.70	79.35	24.07	8.80	0.00	0.00	0.00	NS	NS	NS	NS	NS	14.36	
11JUL SE	0.00	1.83	33.90	7.70	4.26	0.00	0.00	0.00	NS	NS	NS	NS	NS	35.07	
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- DENSITY	0.00	10.65	12.18	5.01	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	3.48	
25JUL SE	0.00	7.72	8.57	5.01	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	12.58	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- DENSITY	0.00	0.83	0.00	3.19	12.76	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.10	
07AUG SE	0.00	0.83	0.00	3.19	8.47	0.00	0.00	0.00	NS	NS	NS	NS	NS	9.09	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG 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	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP 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	
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP 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	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT 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 YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-160 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	142	344	644	0	0	0	0	0	0	0	0	0	0	1130	
27JUN SE	142	344	456	0	0	0	0	0	0	0	0	0	0	588	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- ST. CROP	0	620	25536	3555	1833	0	0	0	NS	NS	NS	NS	NS	31545	
11JUL SE	0	419	10910	1137	887	0	0	0						11013	
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- ST. CROP	0	2443	3919	741	0	0	0	0	NS	NS	NS	NS	NS	7103	
25JUL SE	0	1772	2759	741	0	0	0	0						3361	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	189	0	472	2659	0	0	0	NS	NS	NS	NS	NS	3320	
07AUG SE	0	189	0	472	1765	0	0	0						1836	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-161 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-161 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04
27JUN SE	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.57
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- DENSITY	0.00	1.93	4.60	11.50	22.59	0.00	0.00	0.00	NS	NS	NS	NS	NS	5.08	5.08
11JUL SE	0.00	1.93	2.38	3.22	8.83	0.00	0.00	0.00	NS	NS	NS	NS	NS	9.88	9.88
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- DENSITY	0.00	2.18	0.00	0.00	7.71	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.24	1.24
25JUL SE	0.00	2.18	0.00	0.00	7.54	0.00	0.00	0.00	NS	NS	NS	NS	NS	7.85	7.85
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- DENSITY	0.00	11.45	2.10	10.14	12.19	9.73	0.00	0.00	NS	NS	NS	NS	NS	5.70	5.70
07AUG SE	0.00	11.45	2.10	5.48	5.88	3.68	0.00	0.00	NS	NS	NS	NS	NS	14.62	14.62
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	0.00	1.03	0.85	1.41	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.41	0.41
21AUG SE	0.00	0.00	1.03	0.85	0.77	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.54	1.54
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	NS	NS	NS	NS	NS	0.07	0.07
05SEP SE	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	NS	NS	NS	NS	NS	0.53	0.53
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- 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
18SEP 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	
29SEP- 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
01OCT 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	

TABLE D-162 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-162 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	84	0	0	0	0	0	0	0	0	0	84
27JUN SE	0	0	0	84	0	0	0	0	0	0	0	0	0	84
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	443	1480	1699	4707	0	0	0	NS	NS	NS	NS	NS	8328
11JUL SE	0	443	767	475	1839	0	0	0						2096
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	500	0	0	1606	0	0	0	NS	NS	NS	NS	NS	2106
25JUL SE	0	500	0	0	1570	0	0	0						1648
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	2627	677	1498	2540	2018	0	0	NS	NS	NS	NS	NS	9360
07AUG SE	0	2627	677	810	1225	763	0	0						3178
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	331	125	294	0	0	0	NS	NS	NS	NS	NS	750
21AUG SE	0	0	331	125	160	0	0	0						388
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	110	0	0	NS	NS	NS	NS	NS	110
05SEP SE	0	0	0	0	0	110	0	0						110
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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 YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	NS
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-163 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL -	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.63	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
07AUG	SE	0.00	0.00	0.00	0.00	0.63	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44
	NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.11	0.11
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.79	0.79
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	1.73	1.04	0.97	0.94	0.00	0.00	0.00	0.00	0.00	0.58	0.58
05SEP	SE	0.00	0.00	0.00	0.00	1.11	0.21	0.52	0.63	0.00	0.00	0.00	0.00	0.00	1.39	1.39
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.28	1.55	0.75	1.86	0.00	0.00	0.00	0.00	0.00	0.55	0.55
18SEP	SE	0.00	0.00	0.00	0.00	0.20	0.73	0.34	0.99	0.00	0.00	0.00	0.00	0.00	1.29	1.29
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.18	1.16	2.45	0.00	0.00	0.00	0.00	0.00	0.47	0.47
01OCT	SE	0.00	0.00	0.00	0.00	0.00	0.18	0.32	1.46	0.00	0.00	0.00	0.00	0.00	1.50	1.50
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	

TABLE D-164 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-164 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75	75
05AUG- ST. CROP	0	0	0	0	131	0	181	0	NS	NS	NS	NS	NS	312	312
07AUG SE	0	0	0	0	131	0	181	0	0	0	0	0	0	224	224
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78	78
19AUG- ST. CROP	0	0	0	0	0	23	0	233	NS	NS	NS	NS	NS	256	256
21AUG SE	0	0	0	0	0	23	0	233	0	0	0	0	0	234	234
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
03SEP- ST. CROP	0	0	0	0	361	215	135	279	NS	NS	NS	NS	NS	991	991
05SEP SE	0	0	0	0	231	43	73	188	0	0	0	0	0	310	310
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
16SEP- ST. CROP	0	0	0	0	59	321	105	553	NS	NS	NS	NS	NS	1038	1038
18SEP SE	0	0	0	0	42	152	47	295	0	0	0	0	0	337	337
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81
29SEP- ST. CROP	0	0	0	0	0	36	162	731	NS	NS	NS	NS	NS	929	929
01OCT SE	0	0	0	0	0	36	44	434	0	0	0	0	0	438	438
NO. TOWS	6	11	13	14	13	8	10	6	0	0	0	0	0	81	81

TABLE D-165 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL	SE	0.00	0.00	0.00	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
28JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.01
01AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	0.00	0.00	0.00	0.11	0.00	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
15AUG	SE	0.00	0.00	0.00	0.11	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.15
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	0.00	0.00	0.00	0.00	0.22	0.15	0.14	0.11	0.01	0.34	0.07	0.00	0.00	0.08
29AUG	SE	0.00	0.00	0.00	0.00	0.12	0.10	0.10	0.08	0.01	0.29	0.07	0.00	0.00	0.36
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	0.00	0.00	0.00	0.12	1.96	0.42	3.74	0.29	0.47	0.32	0.51	0.00	0.00	0.60
12SEP	SE	0.00	0.00	0.00	0.09	0.35	0.18	0.98	0.18	0.42	0.19	0.34	0.00	0.00	1.22
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	0.00	0.00	0.00	0.00	0.57	0.70	0.70	0.31	1.01	0.16	0.00	0.21	0.00	0.28
26SEP	SE	0.00	0.00	0.00	0.00	0.21	0.18	0.24	0.25	0.83	0.10	0.00	0.21	0.00	0.97
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.00	0.00	0.00	0.23	0.32	0.80	0.15	0.71	0.02	0.06	0.00	0.00	0.00	0.18
10OCT	SE	0.00	0.00	0.00	0.23	0.23	0.37	0.11	0.28	0.02	0.06	0.00	0.00	0.00	0.58
	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	1.08	6.80	5.41	2.40	0.61	0.20	0.00	0.05	1.27
24OCT	SE	0.00	0.00	0.00	0.00	0.00	0.44	1.23	1.13	1.08	0.23	0.13	0.00	0.05	2.06
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV-	DENSITY	0.00	0.00	0.00	0.00	3.74	1.68	4.33	1.76	1.10	0.70	0.28	0.00	0.04	1.05
07NOV	SE	0.00	0.00	0.00	0.00	1.31	0.49	1.62	0.50	0.70	0.70	0.21	0.00	0.04	2.42
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.00	0.00	0.00	0.00	0.20	3.12	3.87	1.71	1.52	0.15	0.00	0.00	0.00	0.81
22NOV	SE	0.00	0.00	0.00	0.00	0.09	0.80	2.02	0.46	0.51	0.13	0.00	0.00	0.00	2.29
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-166 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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	
28JUL- ST. CROP	0	0	0	0	0	0	21	0	0	0	0	0	0	21	
01AUG SE	0	0	0	0	0	0	21	0	0	0	0	0	0	21	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- ST. CROP	0	0	0	17	0	29	0	4	0	0	0	0	0	50	
15AUG SE	0	0	0	17	0	20	0	4	0	0	0	0	0	26	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- ST. CROP	0	0	0	0	45	30	20	33	2	48	13	0	0	192	
29AUG SE	0	0	0	0	25	21	14	23	2	41	13	0	0	60	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- ST. CROP	0	0	0	18	408	87	523	87	78	45	90	0	0	1335	
12SEP SE	0	0	0	14	74	36	137	53	70	26	60	0	0	195	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- ST. CROP	0	0	0	0	120	145	99	93	168	23	0	34	0	681	
26SEP SE	0	0	0	0	43	37	34	75	137	14	0	34	0	173	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
07OCT- ST. CROP	0	0	0	33	67	165	21	213	3	8	0	0	0	511	
10OCT SE	0	0	0	33	48	77	15	85	3	8	0	0	0	130	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
21OCT- ST. CROP	0	0	0	0	0	224	951	1611	397	87	36	0	4	3309	
24OCT SE	0	0	0	0	0	92	172	336	179	32	23	0	4	430	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- ST. CROP	0	0	0	0	780	349	605	525	182	99	50	0	3	2593	
07NOV SE	0	0	0	0	274	101	227	150	116	99	37	0	3	429	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- ST. CROP	0	0	0	0	41	647	541	509	251	22	0	0	0	2011	
22NOV SE	0	0	0	0	19	167	283	137	84	18	0	0	0	366	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	

TABLE D-167 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- CPUE	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
26JUN SE	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
10JUL SE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- 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
24JUL 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
05AUG- CPUE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
08AUG SE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.07	3.20	0.00	0.00	0.20	0.20	0.00	0.11	0.00	0.00	0.32
22AUG SE	0.00	0.00	0.07	2.27	0.00	0.00	0.20	0.20	0.00	0.11	0.00	0.00	2.29
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.63	0.00	0.40	0.40	2.00	0.40	0.00	1.00	0.11	0.00	0.00	0.41
05SEP SE	0.00	0.30	0.00	0.40	0.24	1.24	0.24	0.00	0.55	0.11	0.00	0.00	1.49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.00	0.00	3.60	1.40	2.17	1.20	0.00	0.40	0.89	0.00	0.00	0.80
19SEP SE	0.00	0.00	0.00	2.91	0.98	1.42	0.73	0.00	0.24	0.51	0.00	0.00	3.51
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	0.00	0.00	1.20	0.00	0.40	0.00	0.20	0.11	0.00	0.00	0.16
03OCT SE	0.00	0.00	0.00	0.00	0.97	0.00	0.40	0.00	0.20	0.11	0.00	0.00	1.07
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.00	0.20	0.60	0.17	0.00	0.00	0.00	0.11	0.00	0.00	0.09
17OCT SE	0.00	0.00	0.00	0.20	0.40	0.17	0.00	0.00	0.00	0.11	0.00	0.00	0.49
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-168 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- ST. CROP	0	0	0	6	0	0	0	0	0	0	0	0	6
26JUN SE	0	0	0	6	0	0	0	0	0	0	0	0	6
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	0	3	0	0	0	0	0	0	0	0	3
10JUL SE	0	0	0	3	0	0	0	0	0	0	0	0	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
24JUL 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
05AUG- ST. CROP	0	0	0	0	1	0	0	0	0	0	0	0	1
08AUG SE	0	0	0	0	1	0	0	0	0	0	0	0	1
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	2	29	0	0	1	< 0.5	0	2	0	0	35
22AUG SE	0	0	2	21	0	0	1	< 0.5	0	2	0	0	21
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	28	0	4	1	21	3	0	9	2	0	0	68
05SEP SE	0	14	0	4	1	13	2	0	5	2	0	0	20
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	0	33	4	23	9	0	3	16	0	0	88
19SEP SE	0	0	0	27	3	15	5	0	2	9	0	0	33
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	0	0	3	0	3	0	2	2	0	0	10
03OCT SE	0	0	0	0	3	0	3	0	2	2	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	0	2	2	2	0	0	0	2	0	0	7
17OCT SE	0	0	0	2	1	2	0	0	0	2	0	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-169 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.13 0.13 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.01 0.13 126	0.01 0.13 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.37 0.26 15	0.32 0.32 12	1.09 0.97 6	1.40 0.93 14	0.39 0.39 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.27 1.46 135	0.27 1.46 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.33 0.19 15	0.19 0.19 15	1.09 0.59 12	0.17 0.17 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.42 0.42 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.17 0.80 135	0.17 0.80 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.27 0.13 6	0.00 0.00 14	1.57 1.40 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.14 1.40 135	0.14 1.40 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.86 0.41 10	10.34 8.63 14	14.07 7.69 14	23.29 22.80 13	1.90 0.87 7	2.96 1.79 14	8.05 3.92 10	0.00 0.00 9	1.37 0.99 7	1.25 0.95 8	0.47 0.47 6	0.00 0.00 6	4.97 25.98 126	4.97 25.98 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	1.02 0.64 10	4.70 1.65 14	7.26 2.18 14	1.91 0.88 13	0.98 0.98 7	2.41 0.48 14	0.12 0.12 10	0.87 0.87 9	0.60 0.60 7	0.56 0.56 8	0.63 0.63 6	3.15 1.58 6	1.86 3.77 126	1.86 3.77 126
28MAY- 31MAY SE NO. TOWS	0.18 0.18 8	0.27 0.27 10	5.94 3.34 14	1.56 0.90 14	0.54 0.40 13	3.53 1.26 7	0.09 0.09 14	0.96 0.74 10	1.03 0.18 9	0.59 0.59 7	0.51 0.31 8	0.00 0.00 6	0.00 0.00 6	1.17 3.85 126	1.17 3.85 126



TABLE D-169 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	4.41	3.86	15.39	6.08	0.89	1.15	1.73	0.70	0.00	1.98	0.31	2.97	3.35	3.29	
06JUN	SE	4.41	3.75	5.09	0.84	0.29	0.60	1.27	0.44	0.00	0.86	0.31	1.42	3.35	8.74	
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	2.16	7.77	6.53	2.38	0.63	0.24	0.61	0.20	1.10	2.10	2.05	4.51	4.30	2.66	
13JUN	SE	2.16	4.82	3.88	1.68	0.63	0.14	0.39	0.20	0.62	0.94	1.28	1.38	2.17	7.47	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	3.07	1.39	2.25	0.75	0.35	0.50	0.17	0.40	0.26	0.28	1.03	0.45	0.77	0.90	
20JUN	SE	1.98	0.99	1.16	0.39	0.16	0.50	0.17	0.40	0.16	0.28	1.03	0.45	0.77	2.97	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	6.61	3.14	0.97	2.34	0.18	0.11	0.00	0.44	0.25	2.24	0.70	0.00	0.00	1.31	
27JUN	SE	2.31	1.47	0.52	1.59	0.13	0.11	0.00	0.25	0.25	1.38	0.41	0.00	0.00	3.54	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	27.84	4.32	1.42	0.35	0.74	1.02	0.21	NS	NS	NS	NS	NS	4.49	
11JUL	SE	0.00	6.78	1.92	0.54	0.18	0.30	0.60	0.21						7.10	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	17.25	3.78	0.22	1.14	2.29	0.04	0.00	NS	NS	NS	NS	NS	3.09	
25JUL	SE	0.00	10.38	2.85	0.22	0.63	1.28	0.04	0.00						10.86	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	3.96	17.56	4.53	1.46	1.32	3.15	0.00	NS	NS	NS	NS	NS	4.00	
07AUG	SE	0.00	1.80	1.89	1.63	0.61	0.73	1.88	0.00						3.73	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.43	0.76	7.07	3.09	2.08	0.22	0.26	NS	NS	NS	NS	NS	1.74	
21AUG	SE	0.00	0.43	0.76	5.87	1.12	1.18	0.16	0.26						6.16	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	3.89	0.00	0.95	0.86	2.74	2.35	16.23	2.41	NS	NS	NS	NS	NS	3.68	
05SEP	SE	3.89	0.00	0.95	0.47	0.72	1.61	7.91	1.29						9.14	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	0.00	0.00	0.00	2.26	5.01	4.06	5.96	6.27	NS	NS	NS	NS	NS	2.95	
18SEP	SE	0.00	0.00	0.00	2.26	1.74	0.91	2.62	3.16						5.08	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	1.33	0.00	1.47	0.94	NS	NS	NS	NS	NS	0.47	
01OCT	SE	0.00	0.00	0.00	0.00	0.84	0.00	0.70	0.67						1.29	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-170 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	19 19 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	19 19 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	55 39 15	67 67 12	226 201 6	196 130 14	115 115 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	659 277 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	105 61 15	29 29 15	227 123 12	36 36 6	0 0 14	0 0 10	0 0 11	60 60 7	0 0 8	0 0 8	0 0 10	456 157 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	55 28 6	0 0 14	468 416 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	524 417 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	198 93 10	3326 2776 14	2079 1136 14	4852 4749 13	395 181 7	414 250 14	2401 1168 10	0 0 9	193 141 7	221 167 8	75 75 6	0 0 6	14155 5751 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	234 146 10	1514 533 14	1072 322 14	397 184 13	204 204 7	337 67 14	36 36 10	144 144 9	85 85 7	98 98 8	102 102 6	224 112 6	4446 742 126
28MAY- ST. CROP 31MAY SE NO. TOWS	38 38 8	63 63 10	1912 1073 14	230 133 14	114 83 13	733 262 7	12 12 14	286 220 10	170 30 9	84 84 7	89 55 8	0 0 6	0 0 6	3729 1145 126

TABLE D-170 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	921	886	4952	898	184	238	242	208	0	281	54	477	238	9578
06JUN SE	921	860	1637	125	60	125	177	131	0	121	54	228	238	2116
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	452	1782	2103	351	131	50	85	60	182	297	362	725	306	6886
13JUN SE	452	1105	1247	249	131	29	54	60	102	133	226	221	154	1794
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	642	319	724	111	73	103	23	120	43	39	181	72	54	2505
20JUN SE	414	226	374	58	33	103	23	120	26	39	181	72	54	660
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
24JUN- ST. CROP	1382	721	312	346	37	22	0	131	42	318	124	0	0	3435
27JUN SE	482	337	168	236	26	22	0	76	42	195	72	0	0	694
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- ST. CROP	0	6387	1389	209	73	153	143	63	NS	NS	NS	NS	NS	8417
11JUL SE	0	1555	619	79	37	63	83	63						1680
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	3957	1217	32	238	476	5	0	NS	NS	NS	NS	NS	5925
25JUL SE	0	2381	918	32	131	266	5	0						2570
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	909	5650	670	303	274	440	0	NS	NS	NS	NS	NS	8245
07AUG SE	0	412	608	241	127	150	263	0						840
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	98	246	1045	644	431	31	76	NS	NS	NS	NS	NS	2570
21AUG SE	0	98	246	867	234	245	22	76						971
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	813	0	307	127	572	488	2269	719	NS	NS	NS	NS	NS	5294
05SEP SE	813	0	307	69	151	334	1105	385						1505
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	334	1043	843	833	1869	NS	NS	NS	NS	NS	4923
18SEP SE	0	0	0	334	362	188	366	943						1141
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	276	0	206	280	NS	NS	NS	NS	NS	762
01OCT SE	0	0	0	0	175	0	98	200						284
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-171 REGIONAL DENSITY (NO./1,000m3) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	31.49	21.46	0.60	0.48	0.62	0.17	0.26	0.01	0.00	0.06	0.06	0.21	0.25	4.28
04JUL SE	4.08	2.60	0.24	0.21	0.28	0.07	0.16	0.01	0.00	0.06	0.06	0.10	0.25	4.87
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	10.83	36.22	1.61	2.29	0.41	0.76	0.25	0.63	0.04	2.37	0.84	0.00	0.80	4.39
19JUL SE	4.96	12.98	0.55	0.87	0.18	0.21	0.10	0.24	0.02	0.60	0.44	0.00	0.36	13.96
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	3.85	9.02	4.01	0.45	0.69	0.21	1.33	0.28	0.00	0.12	0.83	2.20	0.91	1.84
01AUG SE	3.21	3.13	0.99	0.21	0.23	0.11	0.68	0.18	0.00	0.12	0.43	1.25	0.69	4.89
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	2.79	4.07	2.87	4.70	1.78	3.75	1.69	0.54	0.02	2.20	0.53	0.00	0.09	1.93
15AUG SE	1.19	3.57	0.88	1.29	0.88	2.13	1.43	0.41	0.02	1.16	0.37	0.00	0.09	5.06
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.12	1.26	0.18	0.49	1.49	0.95	7.59	0.43	0.22	0.99	0.47	0.11	0.00	1.10
29AUG SE	0.12	0.61	0.11	0.32	0.42	0.72	7.10	0.27	0.14	0.41	0.28	0.11	0.00	7.21
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.89	0.02	1.37	2.21	7.27	2.52	23.23	2.49	0.15	1.53	2.60	0.31	0.29	3.45
12SEP SE	0.65	0.02	1.19	1.04	1.89	0.74	5.68	0.96	0.10	0.85	2.17	0.31	0.29	6.77
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.78	0.73	0.07	2.19	5.08	6.71	0.15	0.72	1.19	1.69	0.22	0.10	1.51
26SEP SE	0.00	0.76	0.63	0.07	0.70	1.47	2.77	0.10	0.48	0.69	1.02	0.11	0.10	3.61
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.12	1.70	0.16	4.52	9.22	7.93	0.17	3.43	0.05	2.18	0.31	0.11	0.29	2.32
10OCT SE	0.12	1.14	0.07	4.46	3.95	5.44	0.05	1.54	0.03	0.88	0.23	0.11	0.18	8.34
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	1.78	0.87	0.20	0.15	3.62	20.78	16.87	8.95	3.46	3.23	0.05	2.69	4.82
24OCT SE	0.00	0.77	0.54	0.20	0.11	1.47	3.25	2.48	4.03	1.47	2.00	0.05	1.43	6.65
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.91	0.58	1.14	12.07	8.19	8.51	8.52	6.17	6.24	2.53	0.00	0.00	4.22
07NOV SE	0.00	0.57	0.25	0.76	3.13	1.86	4.02	2.59	3.72	4.65	1.40	0.00	0.00	8.63
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.06	2.09	0.13	0.09	3.62	10.51	6.54	12.80	5.67	0.97	0.13	0.00	0.00	3.28
22NOV SE	0.03	0.90	0.11	0.09	1.51	1.96	2.42	2.60	2.01	0.50	0.10	0.00	0.00	4.89
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-172 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	6581	4923	194	71	128	35	36	4	0	9	10	33	18	12042
04JUL SE	853	597	79	31	59	15	23	4	0	9	10	16	18	1047
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	2264	8310	517	338	86	158	35	188	6	336	148	0	57	12443
19JUL SE	1038	2977	177	128	38	43	14	71	4	84	78	0	26	3164
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	805	2069	1291	67	144	43	186	83	0	17	146	354	65	5271
01AUG SE	671	718	317	31	48	24	95	53	0	17	76	200	49	1063
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	584	935	923	694	371	778	236	162	3	311	94	0	6	5095
15AUG SE	248	820	284	190	184	443	200	123	3	164	65	0	6	1080
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	25	289	57	72	310	196	1062	128	36	140	84	17	0	2415
29AUG SE	25	140	36	47	87	150	993	80	24	58	49	17	0	1026
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	186	5	442	326	1514	523	3247	743	25	216	458	50	20	7756
12SEP SE	136	5	384	153	394	153	794	285	17	120	382	50	20	1115
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	179	235	10	457	1053	938	46	119	168	298	35	7	3544
26SEP SE	0	174	202	10	147	305	387	29	80	98	180	17	7	620
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	24	389	53	667	1921	1645	24	1022	9	309	54	17	21	6154
10OCT SE	24	261	23	659	822	1129	7	460	4	124	40	17	13	1638
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	409	281	29	31	750	2905	5029	1481	490	569	8	192	12174
24OCT SE	0	177	175	29	23	305	455	739	667	209	352	8	101	1238
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	209	187	168	2514	1699	1189	2540	1021	883	446	0	0	10856
07NOV SE	0	130	79	112	652	385	561	772	616	658	247	0	0	1547
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	13	480	40	14	753	2181	914	3817	939	137	22	0	0	9311
22NOV SE	7	206	36	14	316	407	338	777	332	71	18	0	0	1069
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-173 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	1.00	0.82	1.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.35
12JUN SE	1.00	0.54	0.31	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	1.78
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.27	1.29	0.67	1.33	0.00	0.00	0.00	0.00	0.27	0.05	0.08	0.33
26JUN SE	0.00	0.19	0.61	0.33	0.67	0.00	0.00	0.00	0.00	0.12	0.05	0.08	0.99
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.09	1.00	2.33	0.67	0.00	0.38	0.25	0.13	0.00	0.63	0.08	0.46
10JUL SE	0.00	0.09	0.44	1.45	0.67	0.00	0.26	0.16	0.13	0.00	0.21	0.08	1.71
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.20	0.08	0.71	2.20	0.20	0.17	0.00	0.00	0.00	0.11	0.30	0.00	0.33
24JUL SE	0.20	0.06	0.38	0.80	0.20	0.17	0.00	0.00	0.00	0.11	0.15	0.00	0.97
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.20	0.00	0.07	0.60	0.00	0.17	0.00	0.00	0.00	0.44	0.00	0.00	0.12
08AUG SE	0.20	0.00	0.07	0.40	0.00	0.17	0.00	0.00	0.00	0.34	0.00	0.00	0.59
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.13	0.07	0.60	0.00	0.17	0.00	0.20	0.60	0.56	0.20	0.00	0.21
22AUG SE	0.00	0.07	0.07	0.60	0.00	0.17	0.00	0.20	0.40	0.44	0.13	0.00	0.90
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.60	0.29	0.07	0.40	0.20	0.00	0.00	0.00	0.00	0.22	0.10	0.00	0.16
05SEP SE	0.40	0.15	0.07	0.40	0.20	0.00	0.00	0.00	0.00	0.15	0.10	0.00	0.65
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.02
19SEP SE	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.04	0.00	0.00	0.20	0.17	0.00	0.00	0.20	0.00	0.20	0.00	0.07
03OCT SE	0.00	0.04	0.00	0.00	0.20	0.17	0.00	0.00	0.20	0.00	0.20	0.00	0.39
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.04
17OCT SE	0.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.30
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-174 REGIONAL STANDING CROP (IN THOUSANDS) OF HOGCHOKER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	8	37	27	12	0	0	0	0	0	0	2	0	86
12JUN SE	8	24	8	12	0	0	0	0	0	0	1	0	30
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	12	35	6	4	0	0	0	0	5	1	1	63
26JUN SE	0	9	16	3	2	0	0	0	0	2	1	1	19
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	4	27	22	2	0	3	< 0.5	1	0	12	1	72
10JUL SE	0	4	12	13	2	0	2	< 0.5	1	0	4	1	19
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	2	4	19	20	1	2	0	0	0	2	6	0	55
24JUL SE	2	3	10	7	1	2	0	0	0	2	3	0	14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	2	0	2	6	0	2	0	0	0	8	0	0	19
08AUG SE	2	0	2	4	0	2	0	0	0	6	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	6	2	6	0	2	0	< 0.5	5	10	4	0	34
22AUG SE	0	3	2	6	0	2	0	< 0.5	3	8	3	0	11
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	5	13	2	4	1	0	0	0	0	4	2	0	30
05SEP SE	3	7	2	4	1	0	0	0	0	3	2	0	9
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	2	2	0	0	0	0	0	0	2	0	0	6
19SEP SE	0	2	2	0	0	0	0	0	0	2	0	0	3
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	2	0	0	1	2	0	0	2	0	4	0	10
03OCT SE	0	2	0	0	1	2	0	0	2	0	4	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	2	6	0	0	0	0	0	0	2	0	0	0	9
17OCT SE	2	4	0	0	0	0	0	0	2	0	0	0	5
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-175 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-175 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.08	
27JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.72	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	NS	NS	NS	NS	NS	0.02	
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00						0.15	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	NS	NS	NS	NS	NS	0.10	
25JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00						0.58	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	NS	NS	NS	NS	NS	0.01	
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00						0.04	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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-176 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0

TABLE D-176 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	162	0	162	162
27JUN SE	0	0	0	0	0	0	0	0	0	0	0	115	0	115	115
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
08JUL- ST. CROP	0	0	0	0	0	31	0	0	NS	NS	NS	NS	NS	31	31
11JUL SE	0	0	0	0	0	31	0	0						31	31
NO. TOWS	6	11	13	14	13	8	10	6						81	81
22JUL- ST. CROP	0	0	0	0	0	0	107	0	NS	NS	NS	NS	NS	107	107
25JUL SE	0	0	0	0	0	0	81	0						81	81
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	6	0	NS	NS	NS	NS	NS	6	6
21AUG SE	0	0	0	0	0	0	6	0						6	6
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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-177 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	< 0.005	0.00	0.00	0.00	0.81	1.55	0.00	0.18	
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.00	0.71	0.95	0.00	1.18	
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.28	0.03	0.05	0.00	0.06	0.00	2.50	2.93	0.45	
19JUL SE	0.00	0.00	0.00	0.00	0.00	0.23	0.03	0.03	0.00	0.06	0.00	0.57	1.76	1.87	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.21	0.08	0.03	0.02	0.18	0.19	1.21	1.39	0.25	
01AUG SE	0.00	0.00	0.00	0.00	0.00	0.21	0.04	0.02	0.02	0.06	0.13	0.73	0.65	1.01	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.06	1.49	0.11	0.19	0.14	
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.06	1.49	0.11	0.19	1.51	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.01	0.00	0.00	0.70	0.21	0.44	0.11	
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.01	0.00	0.00	0.63	0.21	0.44	0.80	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.01	
12SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.54	0.22	0.09	0.07	
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.18	0.11	0.09	0.23	
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	0.03	0.00	0.02	0.06	0.19	0.14	0.00	0.03	
10OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.06	0.06	0.14	0.00	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	0.00	0.07	0.10	0.15	0.18	0.00	0.00	0.05	0.04	
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.07	0.12	0.00	0.00	0.05	0.16	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	< 0.005	
07NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.03	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.04	0.03	0.00	0.00	0.00	0.01	
22NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.00	0.00	0.00	0.05	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	

TABLE D-178 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	1	0	0	0	143	249	0	393
04JUL SE	0	0	0	0	0	0	1	0	0	0	125	153	0	197
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	57	5	16	0	8	0	402	209	696
19JUL SE	0	0	0	0	0	49	4	9	0	8	0	92	126	164
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	0	0	0	0	43	11	8	3	25	33	195	99	417
01AUG SE	0	0	0	0	0	43	6	5	3	8	22	117	47	135
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	0	0	0	0	0	0	1	0	0	8	263	18	14	303
15AUG SE	0	0	0	0	0	0	1	0	0	8	263	18	14	264
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	0	0	1	4	0	0	124	34	31	195
29AUG SE	0	0	0	0	0	0	1	4	0	0	111	34	31	121
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	13	13
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	13	13
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	3	0	96	35	7	140
26SEP SE	0	0	0	0	0	0	0	0	3	0	32	17	7	37
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	4	0	3	8	33	22	0	70
10OCT SE	0	0	0	0	0	0	4	0	3	8	11	22	0	26
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	9	30	26	25	0	0	3	94
24OCT SE	0	0	0	0	0	0	5	13	12	17	0	0	3	25
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	4	0	0	4	0	0	9
07NOV SE	0	0	0	0	0	0	0	4	0	0	4	0	0	6
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	2	10	7	4	0	0	0	23
22NOV SE	0	0	0	0	0	0	2	6	3	4	0	0	0	9
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-179 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.01
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.09	0.00	0.00	0.00	0.67	0.00	3.00	3.63	3.13	2.16	1.08	1.15
26JUN SE	0.00	0.09	0.00	0.00	0.00	0.67	0.00	2.44	2.03	2.10	0.76	0.43	3.96
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	0.43	1.33	1.67	0.33	8.88	3.13	1.88	14.27	21.47	24.92	6.52
10JUL SE	0.00	0.00	0.30	1.33	1.20	0.33	3.56	1.37	1.03	6.63	11.65	17.35	22.36
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.00	2.00	1.40	3.60	66.33	4.80	7.40	89.00	9.22	22.70	21.00	18.95
24JUL SE	0.00	0.00	1.01	0.93	1.89	53.81	4.55	4.51	63.09	2.90	13.03	10.75	84.95
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.08	0.93	3.60	1.60	124.83	0.00	0.40	5.40	1.00	23.00	5.00	13.82
08AUG SE	0.00	0.06	0.54	2.29	0.60	124.43	0.00	0.24	2.09	0.53	12.63	2.56	125.14
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	1.14	0.00	11.80	5.83	25.20	0.00	5.40	110.00	8.80	34.71	16.91
22AUG SE	0.00	0.00	0.80	0.00	4.22	5.64	17.79	0.00	3.34	98.47	3.87	16.24	101.75
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.00	0.00	0.00	3.20	3.33	0.60	0.00	0.40	9.56	3.30	5.43	2.15
05SEP SE	0.00	0.00	0.00	0.00	1.59	2.95	0.60	0.00	0.40	8.21	2.24	3.82	9.94
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.00	0.64	0.00	4.20	0.83	0.40	0.00	12.00	33.11	1.60	0.29	4.42
19SEP SE	0.00	0.00	0.46	0.00	1.77	0.65	0.40	0.00	5.75	19.79	1.02	0.18	20.74
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	0.07	0.00	5.60	7.17	1.80	3.60	15.00	67.78	0.20	0.57	8.48
03OCT SE	0.00	0.00	0.07	0.00	4.08	3.53	1.80	2.71	11.10	47.19	0.13	0.57	48.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.29	0.20	8.00	0.67	3.80	7.80	10.60	13.56	5.80	12.57	5.27
17OCT SE	0.00	0.00	0.29	0.20	4.51	0.49	1.62	4.14	5.70	5.84	3.67	8.05	13.61
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-180 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
12JUN SE	0	0	0	0	0	0	1	0	0	0	0	0	1
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	4	0	0	0	7	0	4	31	55	42	15	158
26JUN SE	0	4	0	0	0	7	0	3	18	37	15	6	45
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	12	12	4	4	63	4	16	250	423	339	1126
10JUL SE	0	0	8	12	3	4	25	2	9	116	229	236	350
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	54	13	9	707	34	9	766	162	447	285	2486
24JUL SE	0	0	27	9	5	573	32	6	543	51	256	146	846
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	4	25	33	4	1330	0	< 0.5	46	18	453	68	1981
08AUG SE	0	3	15	21	2	1325	0	< 0.5	18	9	248	35	1349
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	31	0	31	62	179	0	46	1931	173	472	2925
22AUG SE	0	0	22	0	11	60	126	0	29	1729	76	221	1750
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	0	0	0	8	36	4	0	3	168	65	74	358
05SEP SE	0	0	0	0	4	31	4	0	3	144	44	52	163
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	17	0	11	9	3	0	103	581	31	4	760
19SEP SE	0	0	12	0	5	7	3	0	50	348	20	3	352
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	2	0	15	76	13	4	129	1190	4	8	1441
03OCT SE	0	0	2	0	11	38	13	3	96	829	3	8	835
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	8	2	21	7	27	10	91	238	114	171	688
17OCT SE	0	0	8	2	12	5	12	5	49	103	72	109	175
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-181 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.22 0.22 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.02 0.22 126	0.02 0.22 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.27 0.27 8	0.00 0.00 6	0.00 0.00 6	0.02 0.27 126	0.02 0.27 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.30 0.30 7	0.00 0.00 8	0.63 0.63 6	2.86 0.88 6	0.29 1.13 126	0.29 1.13 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.23 0.23 8	0.00 0.00 6	0.00 0.00 6	0.02 0.23 126	0.02 0.23 126



TABLE D-181 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.09
06JUN 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
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	1.01	0.00	0.14
27JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.01	0.00	1.11
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.57	NS	NS	NS	NS	NS	0.08
25JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.57	NS	NS	NS	NS	NS	0.57
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.02
18SEP SE	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.12
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-182 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	32 32 7	0 0 7	0 0 7	0 0 9	32 32 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	48 48 8	0 0 6	0 0 6	48 48 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	42 42 7	0 0 8	102 102 6	204 63 6	348 127 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	41 41 8	0 0 6	0 0 6	41 41 126

TABLE D-182 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	186	0	186	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	95	0	95	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	0
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	0
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	0
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	138	163	0	301	0
27JUN SE	0	0	0	0	0	0	0	0	0	0	80	163	0	181	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	0
08JUL- 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	NS	NS	NS	NS	NS	81	0
22JUL- ST. CROP	0	0	0	0	0	0	5	171	NS	NS	NS	NS	NS	176	0
25JUL SE	0	0	0	0	0	0	5	171	NS	NS	NS	NS	NS	171	0
NO. TOWS	6	11	13	11	10	8	10	6	NS	NS	NS	NS	NS	75	0
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
NO. TOWS	6	11	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	0
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG 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	0
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP 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	0
16SEP- ST. CROP	0	0	0	0	0	26	0	0	NS	NS	NS	NS	NS	26	0
18SEP SE	0	0	0	0	0	26	0	0	NS	NS	NS	NS	NS	26	0
NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	0
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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	0

TABLE D-183 REGIONAL DENSITY (NO./1,000m3) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	0.06	0.20	0.25	0.04
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.20	0.16	0.26
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.12	0.00	0.11	0.09	0.03
19JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.12	0.00	0.11	0.09	0.18
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.18	0.11	0.00	0.03
01AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.11	0.00	0.17
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.10	0.02
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.10	0.22
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.11	0.02
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.11	0.18
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.13	0.00	0.00	0.00	0.01
12SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00	0.00	0.13	0.00	0.00	0.00	0.13
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.11	0.09	0.03
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.09	0.19
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	0.01	0.00	0.10	0.12	0.00	0.04	0.10	0.03
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.12	0.00	0.04	0.07	0.15
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	< 0.005
07NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.03	0.02	0.00	0.00	0.01
22NOV SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03	0.03	0.02	0.00	0.00	0.07
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-184 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	10	32	18	60
04JUL SE	0	0	0	0	0	0	0	0	0	0	10	32	12	36
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	3	0	0	16	0	18	6	43
19JUL SE	0	0	0	0	0	0	2	0	0	16	0	18	6	25
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	17	32	18	0	67
01AUG SE	0	0	0	0	0	0	0	0	0	17	11	18	0	27
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	36	0	7	43
15AUG SE	0	0	0	0	0	0	0	0	0	0	36	0	7	36
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	25	0	8	33
29AUG SE	0	0	0	0	0	0	0	0	0	0	25	0	8	27
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	0	0	1	0	0	19	0	0	0	20
12SEP SE	0	0	0	0	0	0	1	0	0	19	0	0	0	19
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	32	18	7	57
26SEP SE	0	0	0	0	0	0	0	0	0	0	20	18	7	28
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	8	0	0	0	8
10OCT SE	0	0	0	0	0	0	0	0	0	8	0	0	0	8
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	1	0	17	17	0	7	7	49
24OCT SE	0	0	0	0	0	0	1	0	7	17	0	7	5	20
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	2	0	0	0	0	2
07NOV SE	0	0	0	0	0	0	0	0	2	0	0	0	0	2
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	23	9	4	4	0	0	41
22NOV SE	0	0	0	0	0	0	0	14	5	4	4	0	0	16
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-185 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	2.00	1.67	5.38	0.63	0.75	0.93	1.11	0.75	1.10
12JUN SE	0.00	0.00	0.00	0.00	1.00	1.20	3.06	0.32	0.49	0.48	0.48	0.46	3.58
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.00	0.00	0.00	1.33	3.67	0.25	0.00	0.75	2.87	1.16	3.25	1.11
26JUN SE	0.00	0.00	0.00	0.00	0.67	3.18	0.25	0.00	0.53	1.04	0.34	2.37	4.21
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	1.00	1.00	3.00	0.00	2.63	0.50	0.38	0.13	0.63	0.50	0.81
10JUL SE	0.00	0.00	0.49	1.00	0.58	0.00	1.40	0.50	0.38	0.09	0.28	0.50	2.06
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.00	0.00	0.43	0.00	0.80	0.00	0.00	0.00	10.80	0.00	1.10	0.00	1.09
24JUL SE	0.00	0.00	0.43	0.00	0.58	0.00	0.00	0.00	10.55	0.00	0.72	0.00	10.60
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	0.00	0.21	0.00	0.20	0.17	0.00	0.00	0.00	0.22	0.00	0.86	0.14
08AUG SE	0.00	0.00	0.15	0.00	0.20	0.17	0.00	0.00	0.00	0.22	0.00	0.34	0.51
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.40	2.00	0.22
22AUG SE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.40	1.68	1.73
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	1.00	2.71	0.33
05SEP SE	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.67	2.25	2.36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.00	0.00	0.43	0.00	0.60	0.83	0.00	0.00	0.80	0.00	0.10	26.00	2.40
19SEP SE	0.00	0.00	0.36	0.00	0.40	0.83	0.00	0.00	0.80	0.00	0.10	26.00	26.03
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	0.00	0.36	0.00	0.60	3.83	1.80	2.40	8.40	16.67	0.00	0.14	2.85
03OCT SE	0.00	0.00	0.36	0.00	0.60	1.51	1.80	2.40	6.58	11.10	0.00	0.14	13.36
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.00	0.00	0.50	0.00	1.40	1.00	1.60	0.60	2.00	4.22	3.70	14.29	2.44
17OCT SE	0.00	0.00	0.31	0.00	0.98	0.63	0.51	0.60	0.95	1.22	2.27	12.14	12.53
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-186 REGIONAL STANDING CROP (IN THOUSANDS) OF SPOTTAIL SHINER YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	5	18	38	1	6	16	22	10	117
12JUN SE	0	0	0	0	3	13	22	< 0.5	4	8	9	6	29
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	0	0	0	4	39	2	0	6	50	23	44	168
26JUN SE	0	0	0	0	2	34	2	0	5	18	7	32	51
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	27	9	8	0	19	1	3	2	12	7	88
10JUL SE	0	0	13	9	2	0	10	1	3	2	5	7	21
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	12	0	2	0	0	0	93	0	22	0	128
24JUL SE	0	0	12	0	2	0	0	0	91	0	14	0	93
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	0	6	0	1	2	0	0	0	4	0	12	24
08AUG SE	0	0	4	0	1	2	0	0	0	4	0	5	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	0	0	0	0	1	0	0	0	0	0	8	27	36
22AUG SE	0	0	0	0	1	0	0	0	0	0	8	23	24
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	0	0	0	1	0	0	0	0	0	20	37	57
05SEP SE	0	0	0	0	1	0	0	0	0	0	13	31	33
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	0	0	12	0	2	9	0	0	7	0	2	353	384
19SEP SE	0	0	10	0	1	9	0	0	7	0	2	353	354
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	0	10	0	2	41	13	3	72	293	0	2	435
03OCT SE	0	0	10	0	2	16	13	3	57	195	0	2	204
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	0	0	13	0	4	11	11	1	17	74	73	194	398
17OCT SE	0	0	8	0	3	7	4	1	8	21	45	165	173
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-187 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126



TABLE D-187 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL 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	11	10	8	10	6						75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG 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	10	14	13	8	10	6						78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG 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
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP 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
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP 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
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT 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-188 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-188 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-189 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
														NS	NS
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126

TABLE D-189 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6		NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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 POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-190 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-191 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-191 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.03
20JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.40
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.02
27JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.19
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- 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
22JUL- 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
25JUL 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	11	10	8	10	6							75
05AUG- 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
07AUG 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	10	14	13	8	10	6							78
19AUG- 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
21AUG 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
03SEP- 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
05SEP 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
16SEP- 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
18SEP 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
29SEP- 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
01OCT 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-192 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-192 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	120	0	0	0	0	0	0	120
20JUN SE	0	0	0	0	0	0	0	120	0	0	0	0	0	0	120
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
24JUN- ST. CROP	0	0	0	0	0	0	7	56	0	0	0	0	0	0	62
27JUN SE	0	0	0	0	0	0	7	56	0	0	0	0	0	0	56
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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-193 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS	
													AL	COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-193 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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
08JUL-	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
22JUL-	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
25JUL	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	11	10	8	10	6						75	75
05AUG-	DENSITY	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.13	0.13
07AUG	SE	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.07	1.07
	NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG-	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
21AUG	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
03SEP-	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
05SEP	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
16SEP-	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
18SEP	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
29SEP-	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
01OCT	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 YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-194 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
06JUN SE	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG- ST. CROP	0	0	0	158	0	0	0	0	NS	NS	NS	NS	NS	NS	158
07AUG SE	0	0	0	158	0	0	0	0							158
NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP- ST. CROP	0	0	0	0	0	25	0	0	NS	NS	NS	NS	NS	NS	25
05SEP SE	0	0	0	0	0	25	0	0							25
NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-195 REGIONAL DENSITY (NO./1,000m3) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.00	0.02	0.00	0.03	0.01	0.06	0.01	0.00	0.00	0.06	0.00	0.00	0.01
04JUL SE	0.00	0.00	0.02	0.00	0.03	0.01	0.06	0.01	0.00	0.00	0.06	0.00	0.00	0.09
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.04	0.05	0.03	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.01
19JUL SE	0.00	0.00	0.04	0.05	0.03	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.08
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.00	0.00	0.02	0.00	0.02	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.01
01AUG SE	0.00	0.00	0.00	0.02	0.00	0.02	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.05
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.06	0.00	0.00	0.00	0.01	0.05	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.01
15AUG SE	0.06	0.00	0.00	0.00	0.01	0.03	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.07
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- DENSITY	0.00	0.00	0.00	0.03	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
29AUG SE	0.00	0.00	0.00	0.03	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.02	0.02	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.02
12SEP SE	0.00	0.00	0.00	0.00	0.02	0.01	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.07
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.00	< 0.005
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.04
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- DENSITY	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
10OCT SE	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- DENSITY	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
24OCT SE	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.02	0.00	0.04	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.01
07NOV SE	0.00	0.00	0.02	0.00	0.02	0.01	0.00	0.04	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
18NOV- DENSITY	0.00	0.02	0.00	0.00	0.02	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	< 0.005
22NOV SE	0.00	0.02	0.00	0.00	0.02	0.01	0.00	0.02	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



TABLE D-196 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- ST. CROP	0	0	7	0	6	2	8	4	0	0	10	0	0	36
04JUL SE	0	0	7	0	6	2	8	4	0	0	10	0	0	16
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	14	8	7	2	0	8	0	0	0	0	0	38
19JUL SE	0	0	14	8	7	2	0	8	0	0	0	0	0	19
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	0	0	4	0	3	4	4	3	0	0	0	0	18
01AUG SE	0	0	0	4	0	3	4	4	3	0	0	0	0	8
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	13	0	0	0	3	11	4	0	3	0	0	0	0	33
15AUG SE	13	0	0	0	3	5	4	0	3	0	0	0	0	15
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	4	3	7	0	0	0	0	0	0	0	14
29AUG SE	0	0	0	4	3	4	0	0	0	0	0	0	0	6
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	3	3	18	17	0	0	0	0	0	41
12SEP SE	0	0	0	0	3	2	9	7	0	0	0	0	0	12
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	3	4	4	0	0	0	0	0	11
26SEP SE	0	0	0	0	0	3	4	4	0	0	0	0	0	7
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	3	8	0	0	0	0	0	0	0	11
10OCT SE	0	0	0	0	3	4	0	0	0	0	0	0	0	5
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	0	4	0	4	0	0	0	0	0	0	0	8
24OCT SE	0	0	0	4	0	3	0	0	0	0	0	0	0	5
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	6	0	9	2	0	10	0	0	0	0	0	27
07NOV SE	0	0	6	0	5	2	0	10	0	0	0	0	0	13
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	5	0	0	4	2	0	5	0	0	0	0	0	15
22NOV SE	0	5	0	0	4	2	0	5	0	0	0	0	0	8
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-197 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-198 REGIONAL STANDING CROP (IN THOUSANDS) OF ATLANTIC STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-199 REGIONAL DENSITY (NO./1,000m3) OF SHORTRHINO STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126

TABLE D-199 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL REGIONS

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- DENSITY	0.00	0.00	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	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	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
08JUL- 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	0.00	0.00	0.00	0.00	0.00	81
22JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
25JUL SE	0.00	0.00	0.00	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	11	10	8	10	6	0.00	0.00	0.00	0.00	0.00	75
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
07AUG SE	0.00	0.00	0.00	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	10	14	13	8	10	6	0.00	0.00	0.00	0.00	0.00	78
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
21AUG SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
05SEP SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
18SEP SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00
01OCT SE	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	81

TABLE D-200 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTRHINO STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014 ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGION COMBINED
10MAR - ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR - ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR - ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR - ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR - ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR - ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR - ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR - ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY - ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY - ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY - ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY - ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-200 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	REGIONS	
													AL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0						0
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-201 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126



TABLE D-201 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTRIVER STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.03
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.38
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- DENSITY	0.00	0.00	0.00	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	0.00	0.00
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN SE	0.00	0.00	0.00	0.00	0.00	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
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN SE	0.00	0.00	0.00	0.00	0.00	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
08JUL- 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
22JUL- 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
25JUL 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	11	10	8	10	6							75
05AUG- 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
07AUG 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	10	14	13	8	10	6							78
19AUG- 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
21AUG 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
03SEP- 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
05SEP 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
16SEP- 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
18SEP 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
29SEP- 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
01OCT 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-202 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTRNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-202 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON POST YOLK-SAC LARVAE IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	53	0	0	0	53	53
06JUN SE	0	0	0	0	0	0	0	0	0	53	0	0	0	53	53
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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-203 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126

TABLE D-203 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.02	
13JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.28	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20JUN SE	0.00	0.00	0.00	0.00	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	
24JUN- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27JUN SE	0.00	0.00	0.00	0.00	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	
08JUL- 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	
22JUL - DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
25JUL 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	11	10	8	10	6						75	
05AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
07AUG 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	10	14	13	8	10	6						78	
19AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG 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	
03SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
05SEP 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	
16SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
18SEP 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	
29SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT 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-204 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-204 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	0	0	0	0	0	0	0	40	0	0	0	40	
13JUN SE	0	0	0	0	0	0	0	0	0	40	0	0	0	40	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27JUN 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	
08JUL- 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	
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
25JUL SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
07AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
05SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
18SEP SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
01OCT SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-205 REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.46 0.46 8	0.00 0.00 8	0.00 0.00 10	0.04 0.46 135	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126	0.00 0.00 126



TABLE D-205 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-206 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	81 81 8	0 0 8	0 0 10	81 81 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-206 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
														ALL	COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	122
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
25JUL SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	11	10	8	10	6						75	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
07AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	10	14	13	8	10	6						78	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
21AUG SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
05SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
18SEP SE	0	0	0	0	0	0	0	0						0	0
NO. TOWS	6	11	13	14	13	8	10	6						81	81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	0
01OCT 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 SHORTRIVER STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN- DENSITY	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
04JUL 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	0.00	0.08
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.01
19JUL SE	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.13
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- DENSITY	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.00	0.00	0.00	0.01
01AUG SE	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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
12AUG- DENSITY	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.01	0.02	0.06	0.00	0.00	0.00	0.01
15AUG SE	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.01	0.02	0.06	0.00	0.00	0.00	0.07
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- 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
29AUG 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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	< 0.005
12SEP SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
26SEP SE	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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

TABLE D-208 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
04JUL SE	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	0	10	0	0	0	0	0	0	0	17	0	0	0	0	27
19JUL SE	0	10	0	0	0	0	0	0	0	17	0	0	0	0	20
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	0	5	0	0	0	0	0	0	6	8	0	0	0	0	19
01AUG SE	0	5	0	0	0	0	0	0	4	8	0	0	0	0	10
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	0	0	7	4	3	0	0	4	3	8	0	0	0	0	29
15AUG SE	0	0	7	4	3	0	0	4	3	8	0	0	0	0	13
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
12SEP SE	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
26SEP SE	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	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	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	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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	8	150

TABLE D-209 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-210 REGIONAL STANDING CROP (IN THOUSANDS) OF SHORTNOSE STURGEON YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-211 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-211 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.15	0.44	0.00	NS	NS	NS	NS	NS	NS	0.07
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.15	0.44	0.00	NS	NS	NS	NS	NS	NS	0.47
	NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	NS	NS	NS	NS	NS	NS	0.05
25JUL	SE	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	NS	NS	NS	NS	NS	NS	0.30
	NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.63	0.40	0.00	NS	NS	NS	NS	NS	NS	0.13
07AUG	SE	0.00	0.00	0.00	0.00	0.00	0.63	0.40	0.00	NS	NS	NS	NS	NS	NS	0.74
	NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	NS	NS	NS	NS	NS	NS	0.03
21AUG	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	NS	NS	NS	NS	NS	NS	0.23
	NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.22	NS	NS	NS	NS	NS	NS	0.11
05SEP	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.22	NS	NS	NS	NS	NS	NS	0.60
	NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.83	NS	NS	NS	NS	NS	NS	0.14
18SEP	SE	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.83	NS	NS	NS	NS	NS	NS	0.86
	NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	NS	NS	NS	NS	NS	NS	0.06
01OCT	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	NS	NS	NS	NS	NS	NS	0.51
	NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-212 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126	0 0 126

TABLE D-212 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014  
ALL

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- ST. CROP	0	0	0	0	0	31	62	0	NS	NS	NS	NS	NS	93
11JUL SE	0	0	0	0	0	31	62	0						69
NO. TOWS	6	11	13	14	13	8	10	6						81
22JUL- ST. CROP	0	0	0	0	0	84	0	0	NS	NS	NS	NS	NS	84
25JUL SE	0	0	0	0	0	62	0	0						62
NO. TOWS	6	11	13	11	10	8	10	6						75
05AUG- ST. CROP	0	0	0	0	0	130	55	0	NS	NS	NS	NS	NS	185
07AUG SE	0	0	0	0	0	130	55	0						141
NO. TOWS	6	11	10	14	13	8	10	6						78
19AUG- ST. CROP	0	0	0	0	0	0	0	69	NS	NS	NS	NS	NS	69
21AUG SE	0	0	0	0	0	0	0	69						69
NO. TOWS	6	11	13	14	13	8	10	6						81
03SEP- ST. CROP	0	0	0	0	0	0	88	67	NS	NS	NS	NS	NS	155
05SEP SE	0	0	0	0	0	0	78	67						103
NO. TOWS	6	11	13	14	13	8	10	6						81
16SEP- ST. CROP	0	0	0	0	0	50	6	247	NS	NS	NS	NS	NS	303
18SEP SE	0	0	0	0	0	50	6	247						252
NO. TOWS	6	11	13	14	13	8	10	6						81
29SEP- ST. CROP	0	0	0	0	0	0	71	0	NS	NS	NS	NS	NS	71
01OCT SE	0	0	0	0	0	0	71	0						71
NO. TOWS	6	11	13	14	13	8	10	6						81

TABLE D-213 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206	
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.00	0.00	0.00	0.00	0.01	
19JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.07	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.08	0.05	0.00	0.06	0.55	0.19	0.10	
01AUG SE	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.03	0.03	0.00	0.06	0.29	0.11	0.52	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.36	1.53	0.25	1.92	0.19	0.33	
15AUG SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.35	0.72	0.17	0.95	0.11	1.26	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.02	0.98	1.00	0.21	0.00	0.18	
29AUG SE	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.02	0.60	1.00	0.21	0.00	1.19	
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210	
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.05	0.02	0.06	0.13	0.23	0.00	0.04	
12SEP SE	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.03	0.02	0.06	0.13	0.23	0.00	0.27	
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210	
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	< 0.005	0.03	0.00	0.05	0.00	0.43	0.19	0.05	
26SEP SE	0.00	0.00	0.00	0.00	0.00	0.01	< 0.005	0.02	0.00	0.05	0.00	0.12	0.19	0.23	
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	0.01	0.00	0.03	0.00	0.04	0.00	0.06	0.21	0.00	0.03	
10OCT SE	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.04	0.00	0.06	0.10	0.00	0.13	
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	0.08	0.03	0.10	0.08	0.00	0.08	1.11	0.12	
24OCT SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.05	0.06	0.00	0.08	0.47	0.48	
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150	
04NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.11	0.01	0.03	0.00	0.10	0.00	0.03	
07NOV SE	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.01	0.03	0.00	0.05	0.00	0.09	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.00	0.01	0.16	0.26	0.03	0.00	0.00	0.07	0.00	0.04	
22NOV SE	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.06	0.02	0.00	0.00	0.07	0.00	0.11	
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150	

TABLE D-214 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	24	9	0	0	0	0	33
19JUL SE	0	0	0	0	0	0	0	12	9	0	0	0	0	15
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	0	0	0	0	87	0	23	8	0	11	88	13	231
01AUG SE	0	0	0	0	0	85	0	9	6	0	11	47	8	99
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	0	0	0	0	0	0	4	8	60	217	43	308	13	654
15AUG SE	0	0	0	0	0	0	4	5	57	102	30	152	8	194
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	0	2	8	0	3	139	177	34	0	363
29AUG SE	0	0	0	0	0	2	5	0	3	84	177	34	0	199
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- ST. CROP	0	0	0	0	1	0	8	16	3	9	22	37	0	95
12SEP SE	0	0	0	0	1	0	5	9	3	9	22	37	0	45
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	0	2	1	8	0	7	0	70	13	101
26SEP SE	0	0	0	0	0	2	1	5	0	7	0	19	13	25
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	1	0	4	0	6	0	11	34	0	55
10OCT SE	0	0	0	0	1	0	4	0	6	0	11	17	0	21
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	12	10	16	12	0	14	79	142
24OCT SE	0	0	0	0	0	0	5	7	8	8	0	14	33	38
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	2	12	32	2	4	0	16	0	68
07NOV SE	0	0	0	0	0	2	5	16	2	4	0	8	0	19
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	0	2	22	76	5	0	0	10	0	115
22NOV SE	0	0	0	0	0	2	10	17	3	0	0	10	0	23
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-215 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-216 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-217 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.14 0.14 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.01 0.14 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.07 0.07 10	0.03 0.03 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.01 0.08 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.13 0.13 15	0.26 0.26 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.03 0.29 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.16 0.16 15	0.05 0.05 12	0.17 0.17 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.03 0.24 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.35 0.35 7	0.26 0.26 14	0.31 0.31 10	0.00 0.00 9	0.00 0.00 7	0.75 0.75 8	0.00 0.00 6	0.00 0.00 6	0.13 0.92 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.18 0.18 14	0.21 0.21 13	0.00 0.00 7	0.19 0.19 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.04 0.33 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.17 0.17 14	0.00 0.00 14	0.46 0.46 13	0.00 0.00 7	0.48 0.28 14	0.14 0.14 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.10 0.58 126



TABLE D-217 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	REGIONS	
															ALL	COMBINED
03JUN-	DENSITY	0.00	0.00	0.00	0.29	0.12	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
06JUN	SE	0.00	0.00	0.00	0.29	0.12	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN-	DENSITY	0.00	0.00	0.00	0.00	0.63	0.53	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.14
13JUN	SE	0.00	0.00	0.00	0.00	0.63	0.53	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	1.03
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.08
20JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.55
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN-	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	0.00	< 0.005
27JUN	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	0.00	0.04
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	NS	NS	NS	NS	NS	NS	0.09
11JUL	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	NS	NS	NS	NS	NS	NS	0.72
	NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.05	0.00	0.08	0.00	NS	NS	NS	NS	NS	NS	0.02
25JUL	SE	0.00	0.00	0.00	0.00	0.05	0.00	0.08	0.00	NS	NS	NS	NS	NS	NS	0.09
	NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG-	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
07AUG	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	10	14	13	8	10	6							78
19AUG-	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
21AUG	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
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.03
05SEP	SE	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	NS	NS	NS	NS	NS	NS	0.21
	NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	NS	NS	NS	NS	NS	NS	0.01
18SEP	SE	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	NS	NS	NS	NS	NS	NS	0.10
	NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP-	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
01OCT	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-218 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0	0	0	21	0	0	0	0	0	0	0	0	0	21
	0	0	0	21	0	0	0	0	0	0	0	0	0	21
	7	13	15	15	12	10	11	6	7	7	7	7	9	126
07APR- ST. CROP 11APR SE NO. TOWS	0	0	0	0	0	15	4	0	0	0	0	0	0	20
	0	0	0	0	0	15	4	0	0	0	0	0	0	16
	7	13	15	15	12	10	11	6	7	7	7	7	9	126
14APR- ST. CROP 17APR SE NO. TOWS	0	0	43	38	0	0	0	0	0	0	0	0	0	81
	0	0	43	38	0	0	0	0	0	0	0	0	0	58
	7	13	15	15	12	10	11	6	7	7	7	7	9	126
22APR- ST. CROP 25APR SE NO. TOWS	0	0	0	24	10	35	0	0	0	0	0	0	0	69
	0	0	0	24	10	35	0	0	0	0	0	0	0	43
	6	13	15	15	12	6	14	10	11	7	8	8	10	135
29APR- ST. CROP 02MAY SE NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	13	15	15	12	6	14	10	11	7	8	8	10	135
06MAY- ST. CROP 08MAY SE NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	13	15	15	12	6	14	10	11	7	8	8	10	135
13MAY- ST. CROP 16MAY SE NO. TOWS	0	0	0	0	0	73	36	92	0	0	132	0	0	333
	0	0	0	0	0	73	36	92	0	0	132	0	0	180
	8	10	14	14	13	7	14	10	9	7	8	6	6	126
20MAY- ST. CROP 23MAY SE NO. TOWS	0	0	0	26	43	0	26	0	0	0	0	0	0	95
	0	0	0	26	43	0	26	0	0	0	0	0	0	57
	8	10	14	14	13	7	14	10	9	7	8	6	6	126
28MAY- ST. CROP 31MAY SE NO. TOWS	0	0	55	0	95	0	67	43	0	0	0	0	0	260
	0	0	55	0	95	0	39	43	0	0	0	0	0	124
	8	10	14	14	13	7	14	10	9	7	8	6	6	126

TABLE D-218 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	43	24	0	24	0	0	0	0	0	0	0	91
06JUN SE	0	0	0	43	24	0	24	0	0	0	0	0	0	0	55
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	6	122
10JUN- ST. CROP	0	0	0	0	131	111	0	0	0	0	0	101	0	0	342
13JUN SE	0	0	0	0	131	111	0	0	0	0	0	101	0	0	199
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	86	0	0	0	0	72	0	0	158
20JUN SE	0	0	0	0	0	0	45	0	0	0	0	72	0	0	85
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
24JUN- ST. CROP	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
27JUN SE	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	6	123
08JUL- ST. CROP	0	0	0	0	0	0	100	0	NS	NS	NS	NS	NS	NS	100
11JUL SE	0	0	0	0	0	0	100	0							100
NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL- ST. CROP	0	0	0	0	9	0	11	0	NS	NS	NS	NS	NS	NS	20
25JUL SE	0	0	0	0	9	0	11	0							14
NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
21AUG SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP- ST. CROP	0	0	0	0	51	0	0	0	NS	NS	NS	NS	NS	NS	51
05SEP SE	0	0	0	0	44	0	0	0							44
NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP- ST. CROP	0	0	0	0	0	21	0	0	NS	NS	NS	NS	NS	NS	21
18SEP SE	0	0	0	0	0	21	0	0							21
NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-219 REGIONAL DENSITY (NO./1,000m3) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	0.04	0.00	0.02	0.00	0.00	0.00	0.00	< 0.005
04JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.02	0.02	0.02	0.01	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.01
19JUL SE	0.00	0.02	0.02	0.02	0.01	0.01	0.04	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
28JUL- DENSITY	0.00	0.02	0.00	0.02	0.02	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.09	0.01
01AUG SE	0.00	0.02	0.00	0.02	0.02	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.09	0.10
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- DENSITY	0.00	0.00	0.00	0.03	0.02	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
15AUG SE	0.00	0.00	0.00	0.03	0.02	0.01	0.03	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
26AUG- 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
29AUG SE	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.40	0.00	0.15	0.00	0.00	0.00	0.00	0.16	0.19	0.07
12SEP SE	0.00	0.00	0.00	0.00	0.32	0.00	0.15	0.00	0.00	0.00	0.00	0.16	0.19	0.43
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.00	0.00	0.06	0.02	0.03	0.01	0.00	0.06	0.06	0.00	0.00	0.02
26SEP SE	0.00	0.00	0.00	0.00	0.05	0.01	0.03	0.01	0.00	0.06	0.06	0.00	0.00	0.10
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	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
10OCT 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	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	0.10	0.01
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	0.06	0.07
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- DENSITY	0.00	0.00	0.08	0.05	0.11	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02
07NOV SE	0.00	0.00	0.06	0.05	0.05	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.10
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- DENSITY	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.01
22NOV SE	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.05
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-220 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	6	0	3	0	0	0	0	8
04JUL SE	0	0	0	0	0	0	4	0	3	0	0	0	0	5
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	5	6	4	1	2	11	0	0	0	0	0	0	29
19JUL SE	0	5	6	4	1	2	6	0	0	0	0	0	0	11
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL- ST. CROP	0	6	0	3	3	0	0	4	3	0	0	0	7	26
01AUG SE	0	6	0	3	3	0	0	4	3	0	0	0	7	11
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG- ST. CROP	0	0	0	4	4	2	4	0	0	0	0	0	0	14
15AUG SE	0	0	0	4	3	2	4	0	0	0	0	0	0	7
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG- ST. CROP	0	0	0	0	11	0	0	0	0	0	0	0	0	11
29AUG SE	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	210
09SEP- ST. CROP	0	0	0	0	83	0	21	0	0	0	0	25	14	143
12SEP SE	0	0	0	0	66	0	21	0	0	0	0	25	14	75
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	0	0	13	4	4	4	0	9	10	0	0	44
26SEP SE	0	0	0	0	10	2	4	4	0	9	10	0	0	18
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT- ST. CROP	0	0	0	0	17	0	0	0	0	0	0	0	0	17
10OCT SE	0	0	0	0	9	0	0	0	0	0	0	0	0	9
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
21OCT- ST. CROP	0	0	6	0	0	0	0	0	0	0	0	0	7	13
24OCT SE	0	0	6	0	0	0	0	0	0	0	0	0	4	7
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	26	7	22	2	0	0	0	4	0	0	0	60
07NOV SE	0	0	20	7	11	2	0	0	0	4	0	0	0	24
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV- ST. CROP	0	0	0	0	16	4	0	4	0	4	4	0	0	33
22NOV SE	0	0	0	0	6	2	0	4	0	4	4	0	0	10
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-221 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.16	0.00	0.02
12JUN SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.16	0.00	0.20
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
26JUN SE	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.01
10JUL SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-222 REGIONAL STANDING CROP (IN THOUSANDS) OF WHITE CATFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	0	0	0	0	0	0	< 0.5	0	0	3	0	3
12JUN SE	0	0	0	0	0	0	0	< 0.5	0	0	3	0	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	0	0	0	3	0	0	0	0	0	0	0	0	3
26JUN SE	0	0	0	3	0	0	0	0	0	0	0	0	3
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	0	0	0	0	0	0	0	< 0.5	0	0	0	0	< 0.5
10JUL SE	0	0	0	0	0	0	0	< 0.5	0	0	0	0	< 0.5
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-223 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-223 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.02	
11JUL	SE	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.17	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.03	
25JUL	SE	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.22	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	4.28	2.44	0.59	0.22	4.11	0.00	0.00	0.00	NS	NS	NS	NS	NS	1.46	
07AUG	SE	4.28	2.44	0.59	0.22	1.84	0.00	0.00	0.00	NS	NS	NS	NS	NS	5.30	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	1.30	0.68	2.40	2.46	0.11	0.00	0.00	NS	NS	NS	NS	NS	0.87	
21AUG	SE	0.00	1.30	0.68	0.93	1.23	0.11	0.00	0.00	NS	NS	NS	NS	NS	2.13	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP-	DENSITY	0.00	2.62	0.00	0.51	1.39	0.12	0.00	0.00	NS	NS	NS	NS	NS	0.58	
05SEP	SE	0.00	2.62	0.00	0.31	1.00	0.12	0.00	0.00	NS	NS	NS	NS	NS	2.82	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	1.75	0.32	0.00	0.71	3.97	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.84	
18SEP	SE	1.75	0.32	0.00	0.71	2.24	0.00	0.00	0.00	NS	NS	NS	NS	NS	2.94	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
01OCT	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-224 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-224 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	0	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	0	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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	
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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	
08JUL- ST. CROP	0	0	0	0	36	0	0	0	NS	NS	NS	NS	NS	NS	36
11JUL SE	0	0	0	0	36	0	0	0							36
NO. TOWS	6	11	13	14	13	8	10	6							81
22JUL- ST. CROP	0	0	0	32	0	0	0	0	NS	NS	NS	NS	NS	NS	32
25JUL SE	0	0	0	32	0	0	0	0							32
NO. TOWS	6	11	13	11	10	8	10	6							75
05AUG- ST. CROP	896	560	189	32	857	0	0	0	NS	NS	NS	NS	NS	NS	2533
07AUG SE	896	560	189	32	384	0	0	0							1140
NO. TOWS	6	11	10	14	13	8	10	6							78
19AUG- ST. CROP	0	299	218	355	513	23	0	0	NS	NS	NS	NS	NS	NS	1407
21AUG SE	0	299	218	138	255	23	0	0							471
NO. TOWS	6	11	13	14	13	8	10	6							81
03SEP- ST. CROP	0	600	0	76	289	24	0	0	NS	NS	NS	NS	NS	NS	990
05SEP SE	0	600	0	46	208	24	0	0							637
NO. TOWS	6	11	13	14	13	8	10	6							81
16SEP- ST. CROP	365	74	0	105	827	0	0	0	NS	NS	NS	NS	NS	NS	1371
18SEP SE	365	74	0	105	466	0	0	0							606
NO. TOWS	6	11	13	14	13	8	10	6							81
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	NS	0
01OCT SE	0	0	0	0	0	0	0	0							0
NO. TOWS	6	11	13	14	13	8	10	6							81

TABLE D-225 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
30JUN-	DENSITY	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
04JUL	SE	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	0.00	0.35	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
19JUL	SE	0.00	0.32	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL-	DENSITY	0.00	0.02	0.00	0.15	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
01AUG	SE	0.00	0.02	0.00	0.12	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	1.77	0.41	0.60	0.54	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
15AUG	SE	0.73	0.34	0.30	0.27	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	0.00	0.29	0.08	0.02	0.62	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
29AUG	SE	0.00	0.18	0.08	0.02	0.35	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	0.49	0.02	0.10	0.41	0.37	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
12SEP	SE	0.33	0.02	0.05	0.27	0.22	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	0.06	0.14	0.05	0.00	0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.03
26SEP	SE	0.06	0.14	0.05	0.00	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.17
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.12	0.15	0.02	0.03	0.37	0.01	0.03	0.00	0.00	0.11	0.00	0.00	0.00	0.06
10OCT	SE	0.09	0.09	0.02	0.03	0.21	0.01	0.03	0.00	0.00	0.11	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	0.21	0.61	0.15	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
24OCT	SE	0.14	0.34	0.07	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
	NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV-	DENSITY	0.44	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
07NOV	SE	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150
18NOV-	DENSITY	0.26	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
22NOV	SE	0.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
	NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	150

TABLE D-226 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	175	0	0	0	0	0	0	0	0	0	0	0	0	175
04JUL SE	0	175	0	0	0	0	0	0	0	0	0	0	0	0	175
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	0	81	94	0	0	0	0	0	0	0	0	0	0	0	175
19JUL SE	0	74	71	0	0	0	0	0	0	0	0	0	0	0	103
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	0	5	0	22	41	0	0	0	0	0	0	0	0	0	67
01AUG SE	0	5	0	18	23	0	0	0	0	0	0	0	0	0	29
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	371	94	193	79	46	0	0	0	0	0	0	0	0	0	783
15AUG SE	153	77	96	40	24	0	0	0	0	0	0	0	0	0	202
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	0	68	24	4	130	3	0	0	0	0	0	0	0	0	229
29AUG SE	0	42	24	4	74	2	0	0	0	0	0	0	0	0	88
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
09SEP- ST. CROP	102	5	32	61	76	25	0	0	0	0	0	0	0	0	301
12SEP SE	69	5	15	40	45	23	0	0	0	0	0	0	0	0	96
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	13	33	15	0	3	12	5	0	0	0	0	0	0	0	81
26SEP SE	13	33	15	0	3	5	4	0	0	0	0	0	0	0	39
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	24	34	8	5	78	2	4	0	0	15	0	0	0	0	170
10OCT SE	18	20	8	5	43	2	4	0	0	15	0	0	0	0	54
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
21OCT- ST. CROP	44	141	50	17	0	2	0	0	0	0	0	0	0	0	253
24OCT SE	29	77	23	17	0	2	0	0	0	0	0	0	0	0	87
NO. TOWS	12	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	92	8	0	0	0	0	0	0	0	0	0	0	0	0	100
07NOV SE	30	6	0	0	0	0	0	0	0	0	0	0	0	0	30
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150
18NOV- ST. CROP	55	0	0	0	3	0	0	0	0	0	0	0	0	0	57
22NOV SE	22	0	0	0	3	0	0	0	0	0	0	0	0	0	22
NO. TOWS	12	16	13	11	15	12	15	10	10	8	10	10	8	8	150

TABLE D-227 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-228 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAFTISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-229 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-229 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.00	0.00	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	0.00	0.00
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
24JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27JUN	SE	0.00	0.00	0.00	0.00	0.00	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	
08JUL-	DENSITY	0.00	0.00	0.00	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	0.00
	NO. TOWS	6	11	13	14	13	8	10	6	NS	NS	NS	NS	NS	81	
22JUL-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25JUL	SE	0.00	0.00	0.00	0.00	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	11	10	8	10	6	NS	NS	NS	NS	NS	75	
05AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07AUG	SE	0.00	0.00	0.00	0.00	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	10	14	13	8	10	6	NS	NS	NS	NS	NS	78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21AUG	SE	0.00	0.00	0.00	0.00	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05SEP	SE	0.00	0.00	0.00	0.00	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	
16SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18SEP	SE	0.00	0.00	0.00	0.00	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	
29SEP-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01OCT	SE	0.00	0.00	0.00	0.00	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	

TABLE D-230 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-230 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122
10JUN- ST. CROP	0	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	0
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123
17JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN 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
24JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN 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
08JUL- 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
22JUL- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
25JUL SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	13	11	10	8	10	6	0	0	0	0	0	75
05AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
07AUG SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	6	11	10	14	13	8	10	6	0	0	0	0	0	78
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
21AUG 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
03SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
18SEP 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
29SEP- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0
01OCT 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-231 REGIONAL DENSITY (NO./1,000m3) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19JUL SE	0.00	0.00	0.00	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
28JUL- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01AUG SE	0.00	0.00	0.00	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
12AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15AUG SE	0.00	0.00	0.00	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
26AUG- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29AUG SE	0.00	0.00	0.00	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
09SEP- DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12SEP SE	0.00	0.00	0.00	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	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- DENSITY	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
26SEP SE	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV SE	0.00	0.00	0.00	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
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
22NOV SE	0.00	0.00	0.00	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

TABLE D-232 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

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	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19JUL 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
28JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01AUG 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
12AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15AUG 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
26AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29AUG 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
09SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12SEP SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP- ST. CROP	0	0	8	0	0	0	0	0	0	0	0	0	0	8
26SEP SE	0	0	8	0	0	0	0	0	0	0	0	0	0	8
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
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	17	13	11	15	12	15	10	10	8	10	9	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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

TABLE D-233 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- 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
12JUN SE	0.00	0.00	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
23JUN- 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
08JUL- 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
10JUL SE	0.00	0.00	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
21JUL- 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
24JUL SE	0.00	0.00	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
05AUG- 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
08AUG SE	0.00	0.00	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
19AUG- 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
22AUG SE	0.00	0.00	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
02SEP- 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
05SEP SE	0.00	0.00	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
16SEP- 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
19SEP SE	0.00	0.00	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
30SEP- 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
03OCT SE	0.00	0.00	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-234 REGIONAL STANDING CROP (IN THOUSANDS) OF WEAKFISH YEARLING AND OLDER IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
12JUN 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
23JUN- 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
08JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
10JUL 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
21JUL- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
24JUL 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
05AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
08AUG 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
19AUG- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
22AUG 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
02SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
05SEP 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
16SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
19SEP 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
30SEP- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
03OCT 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-235 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
													AL	
10MAR- 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- 04APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
07APR- 11APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
14APR- 17APR SE NO. TOWS	0.00 0.00 7	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 10	0.00 0.00 11	0.00 0.00 6	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 7	0.00 0.00 9	0.00 0.00 126
22APR- 25APR SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
29APR- 02MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
06MAY- 08MAY SE NO. TOWS	0.00 0.00 6	0.00 0.00 13	0.00 0.00 15	0.00 0.00 15	0.00 0.00 12	0.00 0.00 6	0.00 0.00 14	0.00 0.00 10	0.00 0.00 11	0.00 0.00 7	0.00 0.00 8	0.00 0.00 8	0.00 0.00 10	0.00 0.00 135
13MAY- 16MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
20MAY- 23MAY SE NO. TOWS	0.00 0.00 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126
28MAY- 31MAY SE NO. TOWS	0.21 0.21 8	0.00 0.00 10	0.00 0.00 14	0.00 0.00 14	0.00 0.00 13	0.00 0.00 7	0.00 0.00 14	0.00 0.00 10	0.00 0.00 9	0.00 0.00 7	0.00 0.00 8	0.00 0.00 6	0.00 0.00 6	0.00 0.00 126



TABLE D-235 (CONT.) REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06JUN	SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN-	DENSITY	0.00	0.77	0.00	1.24	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	
13JUN	SE	0.00	0.77	0.00	1.24	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN-	DENSITY	0.00	0.00	0.00	1.87	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	
20JUN	SE	0.00	0.00	0.00	0.80	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN-	DENSITY	0.00	0.25	0.00	1.04	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
27JUN	SE	0.00	0.25	0.00	0.84	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	
	NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL-	DENSITY	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.12	
11JUL	SE	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00						0.76	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL-	DENSITY	0.00	0.00	0.59	0.42	0.47	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.19	
25JUL	SE	0.00	0.00	0.32	0.21	0.47	0.00	0.00	0.00						0.61	
	NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG-	DENSITY	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.21	
07AUG	SE	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00						0.99	
	NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG-	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.00	
21AUG	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	
03SEP-	DENSITY	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.06	
05SEP	SE	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00						0.18	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP-	DENSITY	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.28	
18SEP	SE	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.22	
	NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP-	DENSITY	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS	NS	NS	NS	0.14	
01OCT	SE	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00						1.10	
	NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-236 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
10MAR- ST. CROP 14MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
17MAR- ST. CROP 21MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24MAR- ST. CROP 28MAR SE NO. TOWS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31MAR- ST. CROP 04APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
07APR- ST. CROP 11APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
14APR- ST. CROP 17APR SE NO. TOWS	0 0 7	0 0 13	0 0 15	0 0 15	0 0 12	0 0 10	0 0 11	0 0 6	0 0 7	0 0 7	0 0 7	0 0 7	0 0 9	0 0 126
22APR- ST. CROP 25APR SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
29APR- ST. CROP 02MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 11	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
06MAY- ST. CROP 08MAY SE NO. TOWS	0 0 6	0 0 13	0 0 15	0 0 15	0 0 12	0 0 6	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 8	0 0 10	0 0 135
13MAY- ST. CROP 16MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
20MAY- ST. CROP 23MAY SE NO. TOWS	0 0 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126
28MAY- ST. CROP 31MAY SE NO. TOWS	43 43 8	0 0 10	0 0 14	0 0 14	0 0 13	0 0 7	0 0 14	0 0 10	0 0 9	0 0 7	0 0 8	0 0 6	0 0 6	0 0 126

TABLE D-236 (CONT.) REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM LONG RIVER SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
03JUN- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	10	14	11	13	9	16	7	10	7	6	6	6	122	
10JUN- ST. CROP	0	178	0	184	179	0	0	0	0	0	0	0	0	540	
13JUN SE	0	178	0	184	179	0	0	0	0	0	0	0	0	312	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
17JUN- ST. CROP	0	0	0	276	585	0	0	0	0	0	0	0	0	861	
20JUN SE	0	0	0	118	516	0	0	0	0	0	0	0	0	529	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
24JUN- ST. CROP	0	57	0	154	171	0	0	0	0	0	0	0	0	383	
27JUN SE	0	57	0	125	171	0	0	0	0	0	0	0	0	219	
NO. TOWS	7	11	14	11	13	9	16	7	10	7	6	6	6	123	
08JUL- ST. CROP	0	0	0	138	0	0	0	0	NS	NS	NS	NS	NS	138	
11JUL SE	0	0	0	112	0	0	0	0						112	
NO. TOWS	6	11	13	14	13	8	10	6						81	
22JUL- ST. CROP	0	0	191	63	98	0	0	0	NS	NS	NS	NS	NS	351	
25JUL SE	0	0	104	31	98	0	0	0						147	
NO. TOWS	6	11	13	11	10	8	10	6						75	
05AUG- ST. CROP	0	0	548	0	0	0	0	0	NS	NS	NS	NS	NS	548	
07AUG SE	0	0	319	0	0	0	0	0						319	
NO. TOWS	6	11	10	14	13	8	10	6						78	
19AUG- ST. CROP	0	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	0	
21AUG SE	0	0	0	0	0	0	0	0						0	
NO. TOWS	6	11	13	14	13	8	10	6						81	
03SEP- ST. CROP	0	0	0	77	0	0	0	0	NS	NS	NS	NS	NS	77	
05SEP SE	0	0	0	26	0	0	0	0						26	
NO. TOWS	6	11	13	14	13	8	10	6						81	
16SEP- ST. CROP	464	0	0	0	0	0	0	0	NS	NS	NS	NS	NS	464	
18SEP SE	464	0	0	0	0	0	0	0						464	
NO. TOWS	6	11	13	14	13	8	10	6						81	
29SEP- ST. CROP	0	252	0	0	0	0	0	0	NS	NS	NS	NS	NS	252	
01OCT SE	0	252	0	0	0	0	0	0						252	
NO. TOWS	6	11	13	14	13	8	10	6						81	

TABLE D-237 REGIONAL DENSITY (NO./1,000m3) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE		BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
														AL	
30JUN-	DENSITY	0.00	0.00	0.13	0.03	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
04JUL	SE	0.00	0.00	0.07	0.03	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
	NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	206
15JUL-	DENSITY	0.03	0.39	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
19JUL	SE	0.03	0.36	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
28JUL-	DENSITY	0.05	0.02	0.02	0.05	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
01AUG	SE	0.03	0.02	0.02	0.04	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
12AUG-	DENSITY	0.39	0.00	0.27	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
15AUG	SE	0.39	0.00	0.23	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
26AUG-	DENSITY	0.31	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
29AUG	SE	0.31	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
09SEP-	DENSITY	0.00	0.00	0.02	0.02	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
12SEP	SE	0.00	0.00	0.02	0.02	0.01	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
	NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	210
23SEP-	DENSITY	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005
26SEP	SE	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	210
07OCT-	DENSITY	0.00	0.00	0.22	0.03	0.35	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
10OCT	SE	0.00	0.00	0.20	0.03	0.35	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
	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	17	13	11	15	12	15	10	10	8	10	9	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
07NOV	SE	0.00	0.00	0.00	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
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
22NOV	SE	0.00	0.00	0.00	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

TABLE D-238 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM FALL JUVENILE SURVEY, 2014

DATE	BT	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED	
30JUN- ST. CROP	0	0	43	4	57	0	0	0	0	0	0	0	0	0	104
04JUL SE	0	0	21	4	57	0	0	0	0	0	0	0	0	0	61
NO. TOWS	14	14	24	22	22	22	22	22	14	10	6	6	8	8	206
15JUL- ST. CROP	7	89	44	20	0	0	0	0	0	0	0	0	0	0	159
19JUL SE	7	82	22	11	0	0	0	0	0	0	0	0	0	0	86
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
28JUL- ST. CROP	11	5	7	7	75	0	0	0	0	0	0	0	0	0	105
01AUG SE	7	5	7	5	72	0	0	0	0	0	0	0	0	0	73
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
12AUG- ST. CROP	81	0	87	7	6	0	0	0	0	0	0	0	0	0	182
15AUG SE	81	0	73	5	6	0	0	0	0	0	0	0	0	0	110
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
26AUG- ST. CROP	65	0	8	0	3	0	0	0	0	0	0	0	0	0	76
29AUG SE	65	0	8	0	3	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
09SEP- ST. CROP	0	0	6	4	1	46	0	0	0	0	0	0	0	0	57
12SEP SE	0	0	6	4	1	46	0	0	0	0	0	0	0	0	46
NO. TOWS	14	18	23	23	22	22	22	22	14	10	6	6	8	8	210
23SEP- ST. CROP	6	0	0	0	3	0	0	0	0	0	0	0	0	0	9
26SEP SE	6	0	0	0	3	0	0	0	0	0	0	0	0	0	7
NO. TOWS	14	18	24	22	22	22	22	22	14	10	6	6	8	8	210
07OCT- ST. CROP	0	0	71	4	72	5	0	0	0	0	0	0	0	0	152
10OCT SE	0	0	64	4	72	4	0	0	0	0	0	0	0	0	96
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	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	17	13	11	15	12	15	10	10	8	10	9	8	8	150
04NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07NOV 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	8	150
18NOV- ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22NOV 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	8	150

TABLE D-239 REGIONAL CATCH-PER-UNIT-EFFORT (CPUE) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	ALL REGIONS COMBINED
09JUN- CPUE	0.00	4.36	2.71	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
12JUN SE	0.00	2.42	1.04	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- CPUE	1.67	1.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
26JUN SE	1.20	0.43	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- CPUE	0.33	0.45	2.00	0.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
10JUL SE	0.33	0.21	0.62	0.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- CPUE	0.40	1.17	0.50	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
24JUL SE	0.24	0.42	0.25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- CPUE	0.00	1.92	0.71	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
08AUG SE	0.00	0.70	0.53	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- CPUE	0.20	0.46	0.86	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
22AUG SE	0.20	0.13	0.53	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- CPUE	0.00	1.00	0.71	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
05SEP SE	0.00	0.38	0.24	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- CPUE	0.20	0.92	0.86	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
19SEP SE	0.20	0.42	0.33	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- CPUE	0.00	1.33	0.64	2.20	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.38
03OCT SE	0.00	0.82	0.31	1.32	0.20	0.17	0.00	0.00	0.00	0.00	0.00	0.00	1.60
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- CPUE	0.20	0.04	0.50	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
17OCT SE	0.20	0.04	0.20	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE D-240 REGIONAL STANDING CROP (IN THOUSANDS) OF BLUEFISH YOUNG-OF-YEAR IN HUDSON RIVER ESTUARY DETERMINED FROM BEACH SEINE SURVEY, 2014

DATE	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	ALL REGIONS COMBINED	
												AL	
09JUN- ST. CROP	0	198	73	9	0	0	0	0	0	0	0	0	280
12JUN SE	0	110	28	9	0	0	0	0	0	0	0	0	114
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
23JUN- ST. CROP	13	45	0	3	0	0	0	0	0	0	0	0	61
26JUN SE	9	19	0	3	0	0	0	0	0	0	0	0	22
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
08JUL- ST. CROP	3	21	54	3	2	0	0	0	0	0	0	0	82
10JUL SE	3	9	17	3	2	0	0	0	0	0	0	0	20
NO. TOWS	3	11	7	3	3	3	8	8	8	15	19	12	100
21JUL- ST. CROP	3	53	13	0	1	0	0	0	0	0	0	0	70
24JUL SE	2	19	7	0	1	0	0	0	0	0	0	0	20
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
05AUG- ST. CROP	0	87	19	6	0	0	0	0	0	0	0	0	112
08AUG SE	0	32	14	6	0	0	0	0	0	0	0	0	35
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
19AUG- ST. CROP	2	21	23	4	0	0	0	0	0	0	0	0	49
22AUG SE	2	6	14	4	0	0	0	0	0	0	0	0	16
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
02SEP- ST. CROP	0	45	19	4	0	0	0	0	0	0	0	0	68
05SEP SE	0	17	7	4	0	0	0	0	0	0	0	0	19
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
16SEP- ST. CROP	2	42	23	17	0	0	0	0	0	0	0	0	83
19SEP SE	2	19	9	17	0	0	0	0	0	0	0	0	27
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30SEP- ST. CROP	0	61	17	20	1	2	0	0	0	0	0	0	100
03OCT SE	0	37	8	12	1	2	0	0	0	0	0	0	40
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
14OCT- ST. CROP	2	2	13	7	0	0	0	0	0	0	0	0	24
17OCT SE	2	2	5	5	0	0	0	0	0	0	0	0	8
NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100