

Appendix Table 3.3-1. Geometric and arithmetic means for each species caught in a juvenile finfish seine survey in 2014.

Species	Scientific name	Geometric		Arithmetic		Total catch #	Percentage of total catch
		Mean	SD	Mean	SD		
Alewife	<i>Alosa pseudoharengus</i>	0.05	0.25	0.09	0.41	8	0.03
Bass, Largemouth	<i>Micropterus salmoides</i>	0.03	0.34	0.17	1.58	15	0.06
Bluefish	<i>Pomatomus saltatrix</i>	0.05	0.33	0.14	0.98	13	0.05
Crab, Green	<i>Carcinus maenas</i>	2.35	2.57	7.18	13.83	646	2.50
Crab, Jonah	<i>Cancer borealis</i>	0.01	0.08	0.01	0.11	1	0.00
Crab, Rock	<i>Cancer irroratus</i>	0.01	0.08	0.01	0.11	1	0.00
Cunner	<i>Tautoglabrus adspersus</i>	0.02	0.11	0.02	0.15	2	0.01
Eel, American	<i>Anguilla rostrata</i>	0.01	0.08	0.01	0.11	1	0.00
Flounder, Smooth	<i>Pleuronectes putnami</i>	0.58	1.28	1.59	3.89	143	0.55
Flounder, Winter	<i>Pseudopleuronectes americanus</i>	0.32	0.66	0.59	1.55	53	0.21
Grubby	<i>Myoxocephalus aeneus</i>	0.19	0.48	0.31	0.79	28	0.11
Hake, Red	<i>Urophycis chuss</i>	0.04	0.31	0.13	1.06	12	0.05
Hake, Silver	<i>Merluccius bilinearis</i>	0.01	0.08	0.01	0.11	1	0.00
Hake, White	<i>Urophycis tenuis</i>	0.02	0.11	0.02	0.15	2	0.01
Herring, Atlantic	<i>Clupea harengus</i>	0.17	0.68	0.73	4.98	66	0.26
Herring, Blueback	<i>Alosa aestivalis</i>	0.14	0.64	0.51	2.79	46	0.18
Killifish, Striped	<i>Fundulus majalis</i>	1.39	3.15	10.14	30.47	913	3.54
Lance, American Sand	<i>Ammodytes americanus</i>	0.04	0.42	0.29	2.64	26	0.10
Menhaden, Atlantic	<i>Brevoortia tyrannus</i>	0.06	0.42	0.27	2.22	24	0.09
Mummichog	<i>Fundulus heteroclitus</i>	0.53	1.77	3.71	14.35	334	1.29
Perch, White	<i>Morone americana</i>	0.35	1.26	1.69	6.46	152	0.59
Pipefish, Northern	<i>Sygnathus fuscus</i>	0.09	0.34	0.17	0.71	15	0.06
Pollock	<i>Pollachius virens</i>	0.01	0.08	0.01	0.11	1	0.00
Raven, Sea	<i>Hemitripterus americanus</i>	0.01	0.12	0.02	0.21	2	0.01
Silverside, Atlantic	<i>Menidia menidia</i>	24.77	12.19	243.48	528.08	21,913	84.88
Smelt, Rainbow	<i>Osmerus mordax</i>	0.41	1.72	6.38	38.16	574	2.22
Butterflyfish, Spotfin	<i>Chaetodon ocellatus</i>	0.01	0.08	0.01	0.11	1	0.00
Stickleback, Fourspine	<i>Apeltes quadracus</i>	0.36	1.49	3.68	20.52	331	1.28
Stickleback, Ninespine	<i>Pungitius pungitius</i>	0.41	1.48	4.08	27.59	367	1.42
Stickleback, Threespine	<i>Gasterosteus aculeatus</i>	0.05	0.19	0.07	0.25	6	0.02
Tomcod, Atlantic	<i>Microgadus tomcod</i>	0.30	0.98	1.33	7.28	120	0.46
All species		64.47	7.00	286.86	536.16	25,817	100.00

Appendix Table 3.3-2. Geometric and arithmetic means for each species caught in a juvenile finfish seine survey in 2015.

Species	Scientific name	Geometric		Arithmetic		Total catch #	Percentage of total catch
		Mean	SD	Mean	SD		
Alewife	<i>Alosa pseudoharengus</i>	0.31	1.09	1.30	5.36	117	0.45
Bass, Largemouth	<i>Micropterus salmoides</i>	0.01	0.08	0.01	0.11	1	0.00
Bass, Striped	<i>Morone saxatilis</i>	0.01	0.08	0.01	0.11	1	0.00
Crab, Green	<i>Carcinus maenas</i>	1.71	1.77	3.89	6.97	350	1.34
Crab, Horseshoe	<i>Limulus polyphemus</i>	0.02	0.13	0.03	0.18	3	0.01
Crab, Jonah	<i>Cancer borealis</i>	0.01	0.12	0.02	0.21	2	0.01
Eel, American	<i>Anguilla rostrata</i>	0.02	0.11	0.02	0.15	2	0.01
Flounder, Smooth	<i>Pleuronectes putnami</i>	0.38	1.15	2.16	13.50	194	0.74
Flounder, Winter	<i>Pseudopleuronectes americanus</i>	0.64	0.93	1.12	1.95	101	0.39
Grubby	<i>Myoxocephalus aeneus</i>	0.39	0.76	0.73	1.68	66	0.25
Hake, Red	<i>Urophycis chuss</i>	0.14	0.48	0.28	0.91	25	0.10
Hake, White	<i>Urophycis tenuis</i>	0.03	0.19	0.06	0.35	5	0.02
Herring, Atlantic	<i>Clupea harengus</i>	0.15	0.82	1.38	11.00	124	0.47
Herring, Blueback	<i>Alosa aestivalis</i>	0.06	0.39	0.21	1.60	19	0.07
Killifish, Striped	<i>Fundulus majalis</i>	2.05	3.77	18.80	69.21	1,692	6.48
Lance, American Sand	<i>Ammodytes americanus</i>	0.08	0.46	0.34	2.74	31	0.12
Lumpfish	<i>Cyclopterus lumpus</i>	0.02	0.11	0.02	0.15	2	0.01
Menhaden, Atlantic	<i>Brevoortia tyrannus</i>	0.03	0.23	0.07	0.47	6	0.02
Mummichog	<i>Fundulus heteroclitus</i>	0.86	2.19	4.54	13.52	409	1.57
Perch, White	<i>Morone americana</i>	0.01	0.08	0.01	0.11	1	0.00
Pipefish, Northern	<i>Sygnathus fuscus</i>	0.10	0.31	0.16	0.45	14	0.05
Raven, Sea	<i>Hemitripterus americanus</i>	0.01	0.08	0.01	0.11	1	0.00
Silverside, Atlantic	<i>Menidia menidia</i>	18.87	11.81	227.43	522.12	20,469	78.34
Smelt, Rainbow	<i>Osmerus mordax</i>	0.56	2.95	26.72	139.32	2,405	9.20
Stickleback, Fourspine	<i>Apeltes quadracus</i>	0.28	0.79	0.67	1.96	60	0.23
Stickleback, Ninespine	<i>Pungitius pungitius</i>	0.05	0.28	0.11	0.76	10	0.04
Stickleback, Threespine	<i>Gasterosteus aculeatus</i>	0.02	0.13	0.03	0.18	3	0.01
Tomcod, Atlantic	<i>Microgadus tomcod</i>	0.09	0.39	0.19	0.81	17	0.07
All species		53.31	6.77	290.33	608.78	26,130	100.00

Appendix Table 3.3-3. Geometric and arithmetic means for each species caught in a juvenile finfish seine survey in 2016.

Species	Scientific name	Geometric		Arithmetic		Total catch #	Percentage of total catch
		Mean	SD	Mean	SD		
Alewife	<i>Alosa pseudoharengus</i>	0.15	0.96	1.73	12.40	156	0.67
Anchovy, Bay	<i>Anchoa mitchilli</i>	0.03	0.20	0.06	0.43	5	0.02
Bass, Striped	<i>Morone saxatilis</i>	0.01	0.08	0.01	0.11	1	0.00
Bluefish	<i>Pomatomus saltatrix</i>	0.02	0.13	0.03	0.18	3	0.01
Crab, Asian Shore	<i>Hemigrapsus sanguineus</i>	0.01	0.08	0.01	0.11	1	0.00
Crab, Green	<i>Carcinus maenas</i>	3.79	2.45	9.24	13.94	832	3.55
Crab, Horseshoe	<i>Limulus polyphemus</i>	0.05	0.22	0.08	0.34	7	0.03
Crab, Rock	<i>Cancer irroratus</i>	0.03	0.20	0.06	0.43	5	0.02
Cunner	<i>Tautoglabrus adspersus</i>	0.01	0.08	0.01	0.11	1	0.00
Eel, American	<i>Anguilla rostrata</i>	0.02	0.15	0.03	0.23	3	0.01
Flounder, Smooth	<i>Pleuronectes putnami</i>	0.21	0.68	0.50	1.57	45	0.19
Flounder, Windowpane	<i>Scophthalmus aquosus</i>	0.02	0.11	0.02	0.15	2	0.01
Flounder, Winter	<i>Pseudopleuronectes americanus</i>	1.48	1.71	3.44	6.12	310	1.32
Grubby	<i>Myoxocephalus aeneus</i>	0.20	0.61	0.50	2.22	45	0.19
Gunnel, Rock	<i>Pholis gunnellus</i>	0.01	0.12	0.02	0.21	2	0.01
Hake, Red	<i>Urophycis chuss</i>	0.04	0.21	0.07	0.36	6	0.03
Hake, White	<i>Urophycis tenuis</i>	0.08	0.31	0.13	0.50	12	0.05
Herring, Atlantic	<i>Clupea harengus</i>	0.04	0.26	0.09	0.65	8	0.03
Herring, Blueback	<i>Alosa aestivalis</i>	0.21	1.20	3.59	28.03	323	1.38
Killifish, Striped	<i>Fundulus majalis</i>	2.67	4.44	18.84	53.18	1,696	7.23
Lance, American Sand	<i>Ammodytes americanus</i>	0.06	0.35	0.17	1.18	15	0.06
Menhaden, Atlantic	<i>Brevoortia tyrannus</i>	0.04	0.28	0.10	0.67	9	0.04
Mummichog	<i>Fundulus heteroclitus</i>	1.23	3.01	10.81	48.91	973	4.15
Perch, White	<i>Morone americana</i>	0.02	0.15	0.03	0.23	3	0.01
Pipefish, Northern	<i>Sygnathus fuscus</i>	0.19	0.49	0.32	0.90	29	0.12
Shad, American	<i>Alosa sapidissima</i>	0.02	0.16	0.03	0.32	3	0.01
Silverside, Atlantic	<i>Menidia menidia</i>	21.78	10.15	208.23	532.52	18,741	79.94
Smelt, Rainbow	<i>Osmerus mordax</i>	0.15	0.85	1.16	7.98	104	0.44
Squid, Unc.	<i>Loliginidae</i>	0.01	0.08	0.01	0.11	1	0.00
Stickleback, Fourspine	<i>Apeltes quadracus</i>	0.14	0.52	0.32	1.23	29	0.12
Stickleback, Ninespine	<i>Pungitius pungitius</i>	0.04	0.21	0.07	0.33	6	0.03
Tomcod, Atlantic	<i>Microgadus tomcod</i>	0.19	0.79	0.77	3.97	69	0.29
All species		59.60	6.07	260.50	552.31	23,445	100.00

Appendix Table 3.3-4. Geometric and arithmetic means for each species caught in a juvenile finfish seine survey in 2017.

Species	Scientific name	Geometric		Arithmetic		Total catch #	Percentage of total catch
		Mean	SD	Mean	SD		
Alewife	<i>Alosa pseudoharengus</i>	0.21	0.93	1.01	4.80	91	0.41
Bass, Largemouth	<i>Micropterus salmoides</i>	0.01	0.08	0.01	0.11	1	0.00
Bass, Striped	<i>Morone saxatilis</i>	0.02	0.13	0.03	0.18	3	0.01
Bluefish	<i>Pomatomus saltatrix</i>	0.02	0.15	0.03	0.23	3	0.01
Crab, Asian Shore	<i>Hemigrapsus sanguineus</i>	0.01	0.08	0.01	0.11	1	0.00
Crab, Green	<i>Carcinus maenas</i>	3.30	2.24	7.40	10.96	666	3.00
Crab, Horseshoe	<i>Limulus polyphemus</i>	0.04	0.28	0.10	0.62	9	0.04
Crab, Rock	<i>Cancer irroratus</i>	0.02	0.13	0.03	0.18	3	0.01
Cunner	<i>Tautogolabrus adspersus</i>	0.02	0.11	0.02	0.15	2	0.01
Eel, American	<i>Anguilla rostrata</i>	0.01	0.08	0.01	0.11	1	0.00
Flounder, Smooth	<i>Pleuronectes putnami</i>	0.11	0.39	0.20	0.67	18	0.08
Flounder, Winter	<i>Pseudopleuronectes americanus</i>	0.90	1.40	2.51	7.49	226	1.02
Grubby	<i>Myoxocephalus aeneus</i>	0.21	0.49	0.34	0.90	31	0.14
Gunnel, Rock	<i>Pholis gunnellus</i>	0.01	0.12	0.02	0.21	2	0.01
Hake, Red	<i>Urophycis chuss</i>	0.02	0.13	0.03	0.18	3	0.01
Herring, Atlantic	<i>Clupea harengus</i>	0.38	1.87	7.67	46.25	690	3.11
Herring, Blueback	<i>Alosa aestivalis</i>	0.30	1.48	4.16	26.15	374	1.68
Killifish, Striped	<i>Fundulus majalis</i>	2.31	4.85	23.79	70.26	2,141	9.65
Lance, American Sand	<i>Ammodytes americanus</i>	0.02	0.25	0.08	0.74	7	0.03
Menhaden, Atlantic	<i>Brevoortia tyrannus</i>	0.31	1.71	16.86	146.61	1,517	6.83
Mummichog	<i>Fundulus heteroclitus</i>	0.85	2.29	5.61	18.76	505	2.28
Perch, White	<i>Morone americana</i>	0.20	0.89	0.98	4.58	88	0.40
Pipefish, Northern	<i>Syngnathus fuscus</i>	0.08	0.27	0.12	0.39	11	0.05
Shad, American	<i>Alosa sapidissima</i>	0.01	0.08	0.01	0.11	1	0.00
Silverside, Atlantic	<i>Menidia menidia</i>	19.21	9.23	163.90	346.01	14,751	66.45
Smelt, Rainbow	<i>Osmerus mordax</i>	0.51	1.94	9.06	53.28	815	3.67
Stickleback, Fourspine	<i>Apeltes quadracus</i>	0.23	0.76	0.61	2.02	55	0.25
Stickleback, Ninespine	<i>Pungitius pungitius</i>	0.22	0.92	1.07	5.60	96	0.43
Stickleback, Threespine	<i>Gasterosteus aculeatus</i>	0.01	0.08	0.01	0.11	1	0.00
Tomcod, Atlantic	<i>Microgadus tomcod</i>	0.23	0.87	0.94	4.91	85	0.38
All species		55.20	7.16	246.63	392.54	22,197	100.00

Appendix Table 3.3-5. Geometric and arithmetic means for each species caught in a juvenile finfish seine survey in 2018.

Species	Scientific name	Geometric		Arithmetic		Total catch #	Percentage of total catch
		Mean	SD	Mean	SD		
Alewife	<i>Alosa pseudoharengus</i>	0.23	0.88	0.90	4.15	81	0.23
Bass, Striped	<i>Morone saxatilis</i>	0.01	0.08	0.01	0.11	1	0.01
Bluefish	<i>Pomatomus saltatrix</i>	0.25	1.09	1.47	6.72	132	0.38
Bluegill	<i>Lepomis macrochirus</i>	0.01	0.08	0.01	0.11	1	0.01
Crab, Green	<i>Carcinus maenas</i>	1.61	1.71	3.59	6.25	323	0.93
Crab, Horseshoe	<i>Limulus polyphemus</i>	0.04	0.21	0.07	0.33	6	0.02
Crab, Rock	<i>Cancer irroratus</i>	0.05	0.25	0.09	0.47	8	0.02
Cunner	<i>Tautoglabrus adspersus</i>	0.02	0.13	0.03	0.18	3	0.01
Flounder, Smooth	<i>Pleuronectes putnami</i>	0.36	1.00	1.06	3.56	95	0.27
Flounder, Winter	<i>Pseudopleuronectes americanus</i>	0.36	0.73	0.64	1.34	58	0.17
Grubby	<i>Myoxocephalus aeneus</i>	0.18	0.45	0.29	0.72	26	0.07
Gunnel, Rock	<i>Pholis gunnellus</i>	0.02	0.11	0.02	0.15	2	0.01
Hake, Red	<i>Urophycis chuss</i>	0.04	0.20	0.07	0.29	6	0.02
Herring, Atlantic	<i>Clupea harengus</i>	0.36	2.54	60.17	474.28	5,415	15.61
Herring, Blueback	<i>Alosa aestivalis</i>	0.34	1.29	2.00	8.93	180	0.52
Killifish, Striped	<i>Fundulus majalis</i>	2.55	4.66	20.02	54.87	1,802	5.20
Menhaden, Atlantic	<i>Brevoortia tyrannus</i>	0.09	0.56	0.43	2.93	39	0.11
Mullet, White	<i>Mugil curema</i>	0.01	0.08	0.01	0.11	1	0.01
Mummichog	<i>Fundulus heteroclitus</i>	0.58	1.78	4.09	17.6	368	1.06
Perch, White	<i>Morone americana</i>	0.04	0.28	0.10	0.60	9	0.03
Pipefish, Northern	<i>Sygnathus fuscus</i>	0.13	0.46	0.26	0.88	23	0.07
Pumpkinseed	<i>Lepomis gibbosus</i>	0.01	0.08	0.01	0.11	1	0.01
Silverside, Atlantic	<i>Menidia menidia</i>	21.17	15.59	285.44	504.36	25,690	74.07
Smelt, Rainbow	<i>Osmerus mordax</i>	0.21	0.73	0.66	3.15	59	0.17
Stickleback, Fourspine	<i>Apeltes quadracus</i>	0.29	0.89	0.86	2.87	77	0.22
Stickleback, Ninespine	<i>Pungitius pungitius</i>	0.22	0.91	0.86	3.29	77	0.22
Stickleback, Threespine	<i>Gasterosteus aculeatus</i>	0.03	0.15	0.04	0.21	4	0.012
Tomcod, Atlantic	<i>Microgadus tomcod</i>	0.29	1.25	2.12	11.98	197	0.57
All species		50.83	11.75	385.34	690.89	34,684	100.00

Appendix Table 3.3-6. Geometric means from a juvenile finfish seine survey from 1997—2003.

Species		1997	1998	1999	2000	2001	2002	2003
Alewife	Mean	0.07	0.04	0.27	0.26	0.14	0.34	0.32
	SD	0.38	0.33	1.56	0.87	0.74	1.21	1.98
Anchovy, Bay	Mean	0.00	0.00	0.00	0.00	0.01	0.00	0.02
	SD	0.00	0.00	0.00	0.00	0.08	0.00	0.13
Bass, Striped	Mean	0.01	0.00	0.01	0.02	0.01	0.04	0.02
	SD	0.08	0.00	0.08	0.13	0.08	0.21	0.11
Bluefish	Mean	0.00	0.00	0.20	0.04	0.12	0.01	0.01
	SD	0.00	0.00	0.89	0.26	0.71	0.08	0.08
Cod, Atlantic	Mean	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	SD	0.00	0.00	0.00	0.00	0.27	0.00	0.00
Crab, Green	Mean	2.36	2.77	6.10	5.56	3.81	6.86	3.25
	SD	2.33	2.73	3.37	2.56	2.24	2.94	2.32
Crab, Horseshoe	Mean	0.07	0.01	0.00	0.06	0.02	0.00	0.05
	SD	0.31	0.08	0.00	0.31	0.13	0.00	0.28
Crab, Jonah	Mean	0.00	0.00	0.00	0.01	0.01	0.00	0.01
	SD	0.00	0.00	0.00	0.08	0.08	0.00	0.08
Crab, Rock	Mean	0.09	0.05	0.01	0.06	0.00	0.04	0.04
	SD	0.35	0.32	0.08	0.26	0.00	0.18	0.20
Cunner	Mean	0.05	0.02	0.02	0.04	0.00	0.02	0.04
	SD	0.29	0.11	0.13	0.18	0.00	0.13	0.18
Eel, American	Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	SD	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Flounder, Smooth	Mean	0.18	0.14	0.47	0.34	0.31	0.39	0.56
	SD	0.49	0.61	1.28	0.98	0.82	0.88	1.30
Flounder, Windowpane	Mean	0.00	0.01	0.01	0.01	0.00	0.08	0.00
	SD	0.00	0.08	0.12	0.08	0.00	0.32	0.00
Flounder, Winter	Mean	0.94	1.63	0.80	3.44	1.68	3.14	2.42
	SD	1.35	1.95	1.12	2.85	1.44	3.33	2.13
Grubby	Mean	0.15	0.29	0.10	0.09	0.30	0.31	0.17
	SD	0.49	0.69	0.34	0.51	0.65	0.75	0.46
Gunnel, Rock	Mean	0.01	0.02	0.00	0.01	0.00	0.02	0.00
	SD	0.08	0.11	0.00	0.08	0.00	0.11	0.00
Hake, Red	Mean	0.00	0.00	0.06	0.01	0.02	0.04	0.05
	SD	0.00	0.00	0.21	0.08	0.18	0.23	0.22
Hake, Silver	Mean	0.00	0.00	0.00	0.00	0.00	0.01	0.00
	SD	0.00	0.00	0.00	0.00	0.00	0.08	0.00
Hake, White	Mean	0.06	0.02	0.02	0.00	0.04	0.01	0.00
	SD	0.33	0.13	0.15	0.00	0.26	0.08	0.00
Herring, Atlantic	Mean	0.28	0.16	0.82	0.32	0.12	0.24	0.29
	SD	2.63	1.14	5.59	1.89	0.89	1.38	2.38
Herring, Blueback	Mean	0.43	0.66	0.97	0.74	0.89	0.26	0.71
	SD	1.56	3.13	3.74	2.90	3.15	1.20	2.73
Killifish, Striped	Mean	0.23	0.05	1.46	0.82	1.21	1.24	1.97
	SD	1.06	0.36	3.70	2.32	2.25	3.27	3.33

Appendix Table 3.3-6 (Continued).

Species		1997	1998	1999	2000	2001	2002	2003
Lance, American Sand	Mean	0.02	0.02	0.15	0.03	0.04	0.01	0.01
	SD	0.15	0.18	0.84	0.17	0.18	0.12	0.08
Lumpfish	Mean	0.07	0.03	0.01	0.02	0.06	0.04	0.06
	SD	0.40	0.17	0.08	0.13	0.23	0.18	0.28
Menhaden, Atlantic	Mean	0.06	0.00	0.57	2.15	0.30	1.37	1.23
	SD	0.47	0.00	3.14	8.45	1.85	7.31	4.86
Mullet, White	Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	SD	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Mummichog	Mean	1.35	0.45	1.51	0.96	0.55	0.68	0.77
	SD	3.30	1.80	3.51	2.35	1.40	2.31	1.72
Perch, White	Mean	0.13	0.02	0.02	0.12	0.00	0.16	0.09
	SD	0.57	0.15	0.13	0.56	0.00	0.69	0.57
Pipefish, Northern	Mean	0.05	0.12	0.07	0.14	0.09	0.11	0.08
	SD	0.23	0.42	0.27	0.43	0.36	0.34	0.33
Raven, Sea	Mean	0.02	0.01	0.00	0.00	0.00	0.01	0.01
	SD	0.16	0.08	0.00	0.00	0.00	0.08	0.08
Shad, American	Mean	0.02	0.00	0.12	0.04	0.02	0.01	0.00
	SD	0.11	0.00	0.95	0.35	0.18	0.12	0.00
Silverside, Atlantic	Mean	18.57	7.93	56.21	30.16	23.03	22.95	21.28
	SD	10.06	8.65	17.62	15.56	10.77	14.05	13.69
Smelt, Rainbow	Mean	0.59	0.85	0.39	1.50	1.27	0.69	1.31
	SD	2.75	3.81	1.67	4.62	4.49	2.51	4.95
Squid, Unc.	Mean	0.00	0.00	0.00	0.01	0.00	0.00	0.00
	SD	0.00	0.00	0.00	0.08	0.00	0.00	0.00
Stickleback, Fourspine	Mean	0.34	0.13	0.18	0.16	0.31	0.09	0.12
	SD	1.43	0.49	0.61	0.48	0.92	0.36	0.48
Stickleback, Ninespine	Mean	0.30	0.28	0.45	0.31	0.23	0.25	1.26
	SD	1.44	0.91	1.73	0.78	1.07	0.95	3.50
Stickleback, Threespine	Mean	0.19	0.08	0.08	0.06	0.07	0.11	0.06
	SD	0.94	0.35	0.32	0.26	0.31	0.38	0.24
Tomcod, Atlantic	Mean	0.14	0.11	0.06	0.18	0.10	0.13	0.10
	SD	0.77	0.52	0.49	0.52	0.45	0.55	0.43

Appendix Table 3.3-7.

Geometric mean catch per seine haul, by station and species, for all months combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014.

Species	Station #														
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay				
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147
Alewife	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.20	0.00	0.00	0.26	0.12	0.12
Bass, Largemouth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00
Bluefish	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.12
Butterflyfish, Spotfin	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	0.35	2.83	3.08	4.26	1.51	0.00	0.44	12.08	7.93	1.45	4.44	2.90	0.65	0.35	12.69
Crab, Jonah	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Rock	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cunner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12
Eel, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Flounder, Smooth	0.00	0.41	0.12	0.00	0.00	0.00	0.00	0.00	1.22	0.51	2.03	2.11	0.44	3.65	1.73
Flounder, Winter	0.12	1.09	0.59	0.12	2.13	0.12	0.00	0.20	0.12	0.20	0.47	0.51	0.00	0.12	0.12
Grubby	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.51	0.12	0.00	0.41	0.62	0.00	0.12	1.47
Hake, Red	0.00	0.00	0.12	0.49	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Hake, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
Herring, Atlantic	0.00	0.12	1.99	0.35	0.26	0.00	0.00	0.20	0.12	0.00	0.00	0.26	0.00	0.00	0.12
Herring, Blueback	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.31	0.41	1.84	0.12
Killifish, Striped	0.20	0.91	0.12	0.00	1.24	0.00	0.72	0.12	0.00	2.81	3.88	1.01	19.53	4.46	9.43
Lance, American Sand	0.00	0.00	0.00	0.12	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.00	0.00	0.00	0.88	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mummichog	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	1.67	1.41	0.51	6.13	0.94	2.37
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.51	2.42	3.55	1.97
Pipefish, Northern	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.12	0.12	0.20	0.74
Pollock	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Raven, Sea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Silverside, Atlantic	19.83	13.91	35.07	65.38	53.67	1.69	6.74	27.61	60.45	4.61	89.99	51.66	20.30	19.16	84.30
Smelt, Rainbow	0.00	0.20	1.60	0.00	3.67	0.00	0.00	0.00	1.03	0.00	0.26	1.71	0.00	0.00	0.65
Stickleback, Fourspine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.26	0.70	21.92
Stickleback, Ninespine	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.53	0.94	0.00	0.88	0.12	0.12	0.51	12.98
Stickleback, Threespine	0.26	0.00	0.00	0.12	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Tomcod, Atlantic	0.31	0.00	0.12	0.12	0.00	0.00	0.00	0.70	0.00	0.26	1.43	0.93	0.00	0.12	1.73
All Species	27.76	27.62	202.22	180.31	125.62	2.02	92.61	7.32	143.11	23.36	258.73	121.82	76.81	73.83	294.10



Appendix Table 3.3-8. Geometric mean catch per seine haul, by station and species, for all months combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2015.

Species	Station #														
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay				
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147
Alewife	0.78	0.00	0.00	0.31	0.26	0.00	0.00	0.00	0.26	0.78	0.00	0.20	0.66	3.43	0.00
Bass, Largemouth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
Bass, Striped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Crab, Green	0.51	1.05	2.05	0.91	0.94	0.00	0.41	11.07	3.85	1.62	2.34	3.96	1.01	0.41	7.57
Crab, Horseshoe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.12	0.00
Crab, Jonah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Eel, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12
Flounder, Smooth	0.00	0.12	0.26	0.00	0.20	0.00	0.00	0.00	0.12	0.78	0.26	1.01	1.14	5.57	0.00
Flounder, Winter	0.00	0.78	2.15	0.12	0.70	0.00	0.12	2.30	0.51	0.26	0.82	1.84	0.35	0.35	1.33
Grubby	0.00	0.12	0.26	0.35	0.00	0.12	0.00	2.09	0.12	0.78	0.59	0.78	0.00	0.12	2.38
Hake, Red	0.51	0.26	0.65	0.12	0.00	0.00	0.00	0.85	0.00	0.12	0.00	0.00	0.00	0.00	0.00
Hake, White	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
Herring, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.49	0.00	0.51	0.00	1.17	0.31
Herring, Blueback	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.20	0.78	0.00
Killifish, Striped	0.00	0.38	0.12	0.26	0.12	0.00	0.00	0.62	0.98	12.25	2.73	2.72	20.04	21.65	28.34
Lance, American Sand	0.26	0.00	0.00	0.73	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lumpfish	0.12	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.31	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mummichog	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.82	2.23	0.12	0.20	6.45	7.45	13.45
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
Pipefish, Northern	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.82	0.00	0.12	0.00	0.12	0.51
Raven, Sea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00
Silverside, Atlantic	4.81	6.62	18.19	38.09	11.65	3.64	6.35	14.83	93.84	24.10	140.87	83.14	16.42	8.76	26.29
Smelt, Rainbow	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.91	51.20	0.00	1.04	0.00	0.00	0.00	2.30
Stickleback, Fourspine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.99	0.00	0.00	0.26	0.94	4.06
Stickleback, Ninespine	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.59
Stickleback, Threespine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.00	0.12
Tomcod, Atlantic	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.35	0.00	0.51	0.00	0.12	0.44
All Species	8.84	15.15	47.11	67.83	33.63	4.21	9.83	64.26	272.26	81.74	316.87	169.42	66.00	113.32	166.72

Appendix Table 3.3-9.

Geometric mean catch per seine haul, by station and species, for all months combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2016.

Species	Station #														
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay				
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147
Alewife	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	1.65	0.88
Anchovy, Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.31	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Striped	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bluefish	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
Crab, Asian Shore	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	4.39	3.46	1.14	2.14	0.82	0.35	0.47	26.75	19.87	2.07	8.31	14.38	3.84	0.62	12.86
Crab, Horseshoe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.12	0.62	0.00	0.00
Crab, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.31
Cunner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eel, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.20
Flounder, Smooth	0.12	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.12	0.12	0.00	0.35	1.24	1.96	0.12
Flounder, Windowpane	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
Flounder, Winter	0.41	7.40	0.65	0.62	4.12	1.80	0.51	2.26	4.12	0.76	2.41	3.22	0.12	0.00	1.57
Grubby	0.00	0.00	0.00	0.26	0.00	0.00	0.00	1.40	0.00	0.12	0.12	0.82	0.00	0.00	1.35
Gunnel, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Hake, Red	0.00	0.12	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Hake, White	0.00	0.35	0.26	0.00	0.00	0.00	0.00	0.35	0.12	0.00	0.20	0.00	0.00	0.00	0.00
Herring, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.38	0.00	0.00	0.12	0.00
Herring, Blueback	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.12	0.00	2.83	1.57
Killifish, Striped	0.00	1.99	0.00	2.20	0.00	0.00	0.00	0.70	4.80	30.69	9.91	3.36	16.82	9.88	9.77
Lance, American Sand	0.12	0.00	0.00	0.00	0.82	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.12	0.00	0.00	0.00
Mummichog	0.00	0.65	0.00	0.26	0.00	0.00	0.00	0.20	0.86	10.14	5.32	0.89	9.31	3.43	5.00
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.12
Pipefish, Northern	0.12	0.12	0.00	0.12	0.00	0.12	0.00	0.20	0.35	0.44	0.12	0.51	0.00	0.00	1.03
Shad, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	3.06	11.69	6.76	26.49	12.68	1.43	0.12	39.81	170.61	67.32	350.98	92.47	19.93	19.39	82.72
Smelt, Rainbow	0.00	0.00	0.00	0.12	0.44	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00	0.00	0.26
Squid, Unc.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Stickleback, Fourspine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.12	0.00	0.20	0.00	1.29
Stickleback, Ninespine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.12	0.00	0.00	0.00	0.00	0.12	0.20
Tomcod, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.49	1.04	0.00	0.12	1.64
All Species	8.84	15.15	47.11	67.83	33.63	4.21	9.83	64.26	272.26	81.74	316.87	169.42	66.00	113.32	166.72

Appendix Table 3.3-10. Geometric mean catch per seine haul, by station and species, for all months combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2017.

Species	Station #														
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay				
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147
Alewife	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.47	0.00	0.00	0.00	2.86	0.85
Bass, Largemouth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Bass, Striped	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Bluefish	0.00	0.00	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
Crab, Asian Shore	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	1.99	4.42	2.30	1.04	1.45	0.12	0.20	12.16	7.93	6.55	4.24	9.42	5.51	1.24	11.29
Crab, Horseshoe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.35	0.26	0.00
Crab, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.12	0.00	0.12	0.00
Cunner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12
Eel, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Flounder, Smooth	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.41	0.65	0.35	0.12
Flounder, Winter	0.51	6.89	2.40	0.00	0.41	0.00	0.12	1.40	0.51	0.26	1.51	2.73	0.59	0.65	1.12
Grubby	0.59	0.12	0.00	0.12	0.00	0.00	0.00	1.09	0.00	0.00	0.47	0.26	0.00	0.00	1.14
Gunnel, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, Red	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.00
Herring, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.26	0.00	0.20	2.55	1.66	0.12	1.52	1.37
Herring, Blueback	0.00	0.77	1.03	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	1.08	0.70	0.59
Killifish, Striped	0.12	0.00	0.00	0.00	0.20	0.00	0.00	0.00	8.99	11.19	8.19	2.54	74.63	18.84	6.66
Lance, American Sand	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.51	0.12	0.26	0.00	0.12	2.68	4.50	0.00
Mummichog	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.35	6.07	2.11	0.51	17.69	4.84	0.91
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	4.13	1.04	0.35
Pipefish, Northern	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.12	0.26	0.26	0.00	0.44
Shad, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Silverside, Atlantic	3.59	1.71	10.24	9.80	6.30	0.31	3.41	114.78	70.13	62.39	255.43	116.79	35.49	11.55	82.22
Smelt, Rainbow	0.00	0.00	0.12	0.12	0.12	0.00	0.00	2.50	4.37	0.20	4.69	0.41	0.00	0.00	0.86
Stickleback, Fourspine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.12	0.00	0.70	0.65	2.74
Stickleback, Ninespine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.15	0.00	0.00	0.35	0.26	0.00	3.34
Stickleback, Threespine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Tomcod, Atlantic	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.41	0.12	0.12	1.67	0.81	0.00	0.00	1.09
All species	8.16	19.21	35.88	17.96	16.16	0.47	6.14	195.60	273.65	125.46	586.37	253.57	214.06	162.06	210.30

Appendix Table 3.3-11. Geometric mean catch per seine haul, by station and species, for all months combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2018.

Species	Station #														
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay				
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147
Alewife	0.12	0.09	0.09	0.13	0.05	0.00	0.00	0.06	0.18	0.41	0.00	0.24	0.16	1.45	0.34
Anchovy, Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Largemouth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.02	0.00
Bass, Striped	0.00	0.00	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05
Bluefish	0.02	0.00	0.02	0.02	0.02	0.13	0.13	0.00	0.02	0.27	0.07	0.18	0.04	0.00	0.10
Bluegill	0.00	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	0.00
Crab, Asian shore	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	1.25	2.25	1.87	1.76	1.16	0.13	0.32	12.10	7.47	2.91	3.81	5.66	1.75	0.53	9.65
Crab, Horseshoe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.09	0.25	0.07	0.00
Crab, Jonah	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Crab, Rock	0.02	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.05	0.02	0.02	0.14
Cunner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.05	0.00	0.00	0.10
Eel, American	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.02	0.09
Flounder, Smooth	0.02	0.12	0.07	0.00	0.08	0.00	0.00	0.00	0.29	0.55	0.56	0.74	0.94	2.15	0.41
Flounder, Windowpane	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Flounder, Winter	0.25	2.62	1.16	0.15	1.12	0.29	0.14	1.18	0.87	0.36	1.05	1.64	0.22	0.20	0.74
Grubby	0.10	0.07	0.12	0.21	0.00	0.02	0.00	1.24	0.05	0.19	0.33	0.56	0.00	0.05	1.26
Gunnel, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.00	0.04
Hake, Red	0.11	0.12	0.17	0.19	0.00	0.05	0.00	0.16	0.00	0.02	0.02	0.02	0.00	0.00	0.02
Hake, Silver	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	0.00	0.00
Hake, White	0.02	0.06	0.05	0.00	0.00	0.00	0.00	0.06	0.02	0.00	0.16	0.00	0.00	0.00	0.00
Herring, Atlantic	0.02	0.02	0.27	0.06	0.05	0.02	0.10	0.09	0.33	0.15	0.37	0.62	0.06	0.58	0.74
Herring, Blueback	0.00	0.12	0.18	0.00	0.00	0.02	0.06	0.14	0.08	0.27	0.06	0.52	0.33	1.21	0.53
Killifish, Striped	0.06	0.62	0.14	0.35	0.45	0.00	0.20	0.42	2.88	10.82	5.68	2.91	31.21	9.53	10.53
Lance, American Sand	0.07	0.00	0.00	0.14	0.38	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lumpfish	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.06	0.00	0.02	0.45	0.04	0.00	0.00	0.09	0.06	0.07	0.00	0.05	0.41	0.41	0.02
Mullet, White	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	0.00	0.00
Mummichog	0.00	0.11	0.02	0.10	0.09	0.00	0.04	0.13	0.45	4.19	1.30	0.52	9.67	2.60	2.97
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.09	0.96	0.71	0.35
Pipefish, Northern	0.05	0.02	0.00	0.05	0.00	0.05	0.00	0.09	0.06	0.46	0.05	0.26	0.10	0.06	0.74
Pollock	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumpkinseed	0.00	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	0.00
Raven, Sea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00
Shad, American	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	0.02	0.00
Silverside, Atlantic	5.87	7.37	15.61	30.68	9.58	1.71	3.02	42.23	89.29	24.45	175.09	100.23	25.91	14.07	55.90
Smelt, Rainbow	0.02	0.06	0.27	0.05	0.50	0.00	0.00	0.65	4.03	0.04	0.75	0.44	0.05	0.12	0.77
Spotfin Butterflyfish	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	0.00	0.00
squid, uncl.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Stickleback, Fourspine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.35	0.10	0.00	0.39	0.52	4.59
Stickleback, Ninespine	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.17	0.36	0.02	0.13	0.15	0.10	0.11	3.22
Stickleback, Threespine	0.07	0.00	0.00	0.02	0.02	0.00	0.00	0.02	0.02	0.02	0.02	0.05	0.00	0.00	0.07
Tomcod, Atlantic	0.06	0.04	0.05	0.02	0.02	0.00	0.00	0.24	0.11	0.33	0.74	1.01	0.00	0.07	1.34
All species	12.46	21.76	47.13	63.25	25.97	2.77	4.57	118.54	283.35	77.35	374.08	213.02	110.16	89.48	226.76

Appendix Table 3.3-12. Geometric mean (GM) and Arithmetic mean (AM) catch per seine haul, by species and month, for all stations combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014.

Species	June		July		August		September		October		November	
	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM
Alewife	0.00	0.00	0.36	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Largemouth	0.00	0.00	0.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bluefish	0.00	0.00	0.17	0.60	0.05	0.07	0.13	0.20	0.00	0.00	0.00	0.00
Butterflyfish, Spotfin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Crab, Green	2.86	5.47	4.82	16.27	4.27	10.60	3.64	8.13	1.02	2.13	0.27	0.47
Crab, Jonah	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Rock	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Cunner	0.00	0.00	0.05	0.07	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00
Eel, American	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flounder, Smooth	0.45	1.33	1.15	3.47	0.43	1.00	0.78	1.80	0.44	1.07	0.34	0.87
Flounder, Winter	0.24	0.33	0.05	0.07	0.72	1.60	0.44	0.67	0.39	0.53	0.20	0.33
Grubby	0.21	0.33	0.11	0.27	0.18	0.27	0.21	0.33	0.31	0.53	0.10	0.13
Hake, Red	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.73	0.05	0.07	0.00	0.00
Hake, Silver	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, White	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Herring, Atlantic	0.18	0.33	0.60	3.47	0.13	0.20	0.22	0.40	0.00	0.00	0.00	0.00
Herring, Blueback	0.10	0.20	0.00	0.00	0.49	1.07	0.10	0.13	0.00	0.00	0.24	1.67
Killifish, Striped	0.21	0.60	0.56	1.80	2.20	15.60	8.87	37.27	1.61	5.27	0.20	0.33
Lance, American Sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	1.73
Menhaden, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.32	1.53
Mummichog	0.05	0.07	0.25	0.47	1.08	7.47	2.65	13.87	0.21	0.33	0.05	0.07
Perch, White	0.00	0.00	0.66	2.80	1.02	5.27	0.63	1.93	0.10	0.13	0.00	0.00
Pipefish, Northern	0.10	0.13	0.28	0.60	0.00	0.00	0.10	0.13	0.10	0.13	0.00	0.00
Pollock	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Raven, Sea	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	0.38	1.00	1.70	6.73	40.25	92.80	262.84	740.47	143.29	334.27	48.93	285.60
Smelt, Rainbow	0.47	20.60	0.24	1.60	0.16	0.53	0.42	12.80	0.65	1.33	0.57	1.40
Stickleback, Fourspine	0.19	0.47	0.52	12.00	0.44	1.80	0.39	2.33	0.66	5.40	0.05	0.07
Stickleback, Ninespine	0.10	0.13	0.56	2.20	0.28	1.40	0.36	1.27	1.10	19.13	0.24	0.33
Stickleback, Threespine	0.10	0.13	0.05	0.07	0.00	0.00	0.00	0.00	0.10	0.13	0.05	0.07
Tomcod, Atlantic	1.45	6.60	0.36	0.60	0.10	0.13	0.20	0.53	0.10	0.13	0.00	0.00
All Species	12.55	38.20	18.10	54.60	68.34	139.87	421.21	823.07	167.08	370.80	60.84	294.60

Appendix Table 3.3-13. Geometric mean (GM) and Arithmetic mean (AM) catch per seine haul, by species and month, for all stations combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2015.

Species	June		July		August		September		October		November	
	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM
Alewife	0.20	0.40	0.61	3.00	0.34	0.73	0.28	2.53	0.40	0.93	0.10	0.20
Bass, Largemouth	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Striped	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	2.11	4.47	3.09	6.93	3.01	7.00	1.29	2.40	0.79	1.20	0.89	1.33
Crab, Horseshoe	0.10	0.13	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Jonah	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eel, American	0.05	0.07	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flounder, Smooth	0.63	8.87	1.00	2.20	0.15	0.27	0.18	0.27	0.41	1.20	0.10	0.13
Flounder, Winter	0.38	0.60	0.99	2.07	1.02	1.60	0.95	1.47	0.36	0.53	0.33	0.47
Grubby	0.36	0.60	0.85	1.40	0.49	1.07	0.24	0.33	0.18	0.27	0.33	0.73
Hake, Red	0.58	1.00	0.15	0.27	0.00	0.00	0.05	0.07	0.00	0.00	0.17	0.33
Hake, White	0.10	0.20	0.05	0.07	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Herring, Atlantic	0.43	7.00	0.20	0.40	0.32	0.87	0.00	0.00	0.00	0.00	0.00	0.00
Herring, Blueback	0.00	0.00	0.20	1.00	0.13	0.20	0.05	0.07	0.00	0.00	0.00	0.00
Killifish, Striped	0.90	2.67	1.35	5.00	2.63	12.73	5.87	51.67	1.42	14.40	1.97	26.33
Lance, American Sand	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.15	0.20	0.30	1.80
Lumpfish	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.05	0.07
Menhaden, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.27	0.08	0.13
Mummichog	0.53	2.07	0.89	3.47	1.35	6.93	1.17	8.00	0.46	0.80	0.92	6.00
Perch, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Pipefish, Northern	0.10	0.13	0.13	0.20	0.13	0.20	0.08	0.13	0.20	0.27	0.00	0.00
Raven, Sea	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	0.73	4.80	0.90	2.40	34.17	506.73	137.01	347.67	96.28	313.60	38.79	189.40
Smelt, Rainbow	0.13	0.33	0.10	0.13	0.72	37.73	0.76	65.20	1.09	51.07	0.81	5.87
Stickleback, Fourspine	0.20	0.27	0.55	1.33	0.28	1.00	0.25	0.60	0.28	0.53	0.16	0.27
Stickleback, Ninespine	0.00	0.00	0.05	0.07	0.15	0.47	0.05	0.07	0.00	0.00	0.05	0.07
Stickleback, Threespine	0.05	0.07	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tomcod, Atlantic	0.27	0.53	0.18	0.40	0.08	0.13	0.00	0.00	0.05	0.07	0.00	0.00
All Species	11.59	34.47	12.87	30.67	66.45	577.73	196.32	480.53	144.71	385.47	74.76	233.13

Appendix Table 3.3-14. Geometric mean (GM) and Arithmetic mean (AM) catch per seine haul, by species and month, for all stations combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2016.

Species	June		July		August		September		October		November	
	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM
Alewife	0.30	1.27	0.44	7.73	0.00	0.00	0.23	1.40	0.00	0.00	0.00	0.00
Bass, Striped	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Anchovy, Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.33	0.00	0.00
Bluefish	0.00	0.00	0.00	0.00	0.05	0.07	0.10	0.13	0.00	0.00	0.00	0.00
Crab, Asian Shore	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	4.51	11.93	7.43	16.40	4.35	7.73	3.64	6.67	3.04	9.33	1.59	3.40
Crab, Horseshoe	0.08	0.13	0.08	0.13	0.10	0.13	0.05	0.07	0.00	0.00	0.00	0.00
Crab, Rock	0.11	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07
Cunner	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Eel, American	0.08	0.13	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flounder, Smooth	0.37	0.93	0.60	1.27	0.13	0.20	0.15	0.47	0.05	0.07	0.05	0.07
Flounder, Windowpane	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.05	0.07	0.00	0.00
Flounder, Winter	0.95	2.40	3.02	7.80	2.12	3.87	1.81	2.87	1.44	3.07	0.39	0.67
Grubby	0.34	1.47	0.18	0.27	0.08	0.13	0.20	0.33	0.24	0.47	0.20	0.33
Gunnel, Rock	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, Red	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.27	0.10	0.13
Hake, White	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.60	0.13	0.20
Herring, Atlantic	0.19	0.47	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Herring, Blueback	0.23	0.73	0.67	18.07	0.13	0.33	0.27	2.33	0.05	0.07	0.00	0.00
Killifish, Striped	1.24	4.93	1.80	27.33	3.42	32.87	5.15	27.87	6.56	16.40	0.90	3.67
Lance, American Sand	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.73	0.08	0.13	0.10	0.13
Menhaden, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.60
Mummichog	1.16	5.33	1.86	33.73	1.84	12.80	3.37	11.73	0.54	1.20	0.05	0.07
Perch, White	0.05	0.07	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipefish, Northern	0.41	0.67	0.18	0.27	0.14	0.40	0.24	0.33	0.10	0.13	0.08	0.13
Shad, American	0.10	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	3.88	31.20	2.82	14.27	23.34	284.33	98.63	381.93	43.61	286.47	68.34	251.20
Smelt, Rainbow	0.00	0.00	0.00	0.00	0.00	0.00	0.69	5.67	0.26	1.07	0.10	0.20
Squid, Unc.	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Stickleback, Fourspine	0.30	0.73	0.13	0.20	0.08	0.13	0.00	0.00	0.20	0.53	0.17	0.33
Stickleback, Ninespine	0.13	0.20	0.00	0.00	0.13	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Tomcod, Atlantic	0.96	3.80	0.14	0.40	0.15	0.27	0.00	0.00	0.05	0.07	0.05	0.07
All Species	20.21	66.07	36.39	128.20	60.57	343.67	160.40	442.53	65.00	320.33	75.27	261.27

Appendix Table 3.3-15. Geometric mean (GM) and Arithmetic mean (AM) catch per seine haul, by species and month, for all stations combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2017.

Species	June		July		August		September		October		November	
	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM
Alewife	0.23	0.73	0.53	3.00	0.44	2.00	0.05	0.07	0.00	0.00	0.11	0.27
Bass, Largemouth	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Striped	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Bluefish	0.00	0.00	0.13	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Asian Shore	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	6.43	12.13	5.22	11.67	5.17	9.80	2.57	4.40	2.36	5.27	0.84	1.13
Crab, Horseshoe	0.13	0.33	0.10	0.20	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Rock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.05	0.07
Cunner	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.05	0.07
Eel, American	0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flounder, Smooth	0.05	0.07	0.24	0.40	0.28	0.47	0.10	0.20	0.05	0.07	0.00	0.00
Flounder, Winter	0.22	0.67	1.81	5.27	1.19	2.73	1.21	4.40	0.76	1.13	0.61	0.87
Grubby	0.19	0.47	0.38	0.60	0.05	0.07	0.15	0.20	0.26	0.40	0.24	0.33
Gunnel, Rock	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, Red	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.05	0.07	0.05	0.07
Herring, Atlantic	1.67	30.07	1.62	15.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Herring, Blueback	0.00	0.00	0.20	0.53	0.98	17.40	0.83	6.87	0.00	0.00	0.10	0.13
Killifish, Striped	0.89	3.73	1.39	11.13	2.14	19.40	3.73	32.60	3.98	56.80	2.90	19.07
Lance, American Sand	0.00	0.00	0.15	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menhaden, Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.83	5.87	1.53	95.13
Mummichog	0.87	2.13	1.12	10.20	0.77	5.00	1.43	9.53	0.95	6.40	0.22	0.40
Perch, White	0.15	0.27	0.05	0.07	0.40	1.87	0.34	1.93	0.24	1.60	0.08	0.13
Pipefish, Northern	0.18	0.27	0.15	0.20	0.13	0.20	0.00	0.00	0.05	0.07	0.00	0.00
Shad, American	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	2.26	8.33	3.82	13.93	46.30	156.60	47.29	171.93	62.72	237.67	28.75	394.93
Smelt, Rainbow	0.00	0.00	1.49	26.47	1.06	3.47	0.10	0.13	0.86	24.07	0.13	0.20
Stickleback, Fourspine	0.27	0.53	0.21	0.33	0.17	0.60	0.19	0.80	0.23	0.53	0.34	0.87
Stickleback, Ninespine	0.05	0.07	0.30	1.20	0.67	4.27	0.00	0.00	0.19	0.47	0.20	0.40
Stickleback, Threespine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00
Tomcod, Atlantic	1.16	4.60	0.47	0.93	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00
All species	21.09	64.87	26.35	102.80	89.32	224.13	98.07	233.27	100.70	340.67	56.27	514.07



Appendix Table 3.3-16. Geometric mean (GM) and Arithmetic mean (AM) catch per seine haul, by species and month, for all stations combined, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2018.

Species	June		July		August		September		October		November	
	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM	GM	AM
Alewife	0.16	0.53	0.42	3.03	0.23	0.76	0.15	0.89	0.12	0.65	0.07	0.17
Anchovy, Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.00
Bass, Largemouth	0.01	0.01	0.05	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bass, Striped	0.03	0.04	0.00	0.00	0.01	0.01	0.00	0.00	0.02	0.03	0.00	0.00
Bluefish	0.00	0.00	0.06	0.16	0.02	0.03	0.23	1.13	0.11	0.69	0.00	0.00
Bluegill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Crab, Asian shore	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Green	3.53	8.24	4.47	11.13	3.68	7.97	2.25	4.63	1.72	4.31	0.64	1.28
Crab, Horseshoe	0.06	0.12	0.04	0.08	0.07	0.11	0.02	0.03	0.00	0.00	0.00	0.00
Crab, Jonah	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crab, Rock	0.04	0.08	0.01	0.01	0.02	0.03	0.00	0.00	0.04	0.08	0.02	0.03
Cunner	0.00	0.00	0.01	0.01	0.01	0.01	0.03	0.04	0.02	0.03	0.01	0.01
Eel, American	0.03	0.05	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Flounder, Smooth	0.46	3.00	0.64	1.63	0.31	0.61	0.23	0.56	0.21	0.53	0.12	0.27
Flounder, Windowpane	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00
Flounder, Winter	0.40	0.92	1.02	3.16	1.08	2.20	0.82	1.93	0.67	1.27	0.32	0.49
Grubby	0.29	0.69	0.35	0.61	0.18	0.35	0.17	0.25	0.22	0.36	0.19	0.35
Gunnel, Rock	0.04	0.07	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, Red	0.11	0.23	0.04	0.07	0.00	0.00	0.07	0.19	0.07	0.11	0.06	0.11
Hake, Silver	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hake, White	0.03	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.09	0.15	0.02	0.04
Herring, Atlantic	0.57	66.61	0.74	17.08	0.09	0.23	0.07	0.12	0.00	0.00	0.00	0.00
Herring, Blueback	0.06	0.19	0.23	4.00	0.43	4.36	0.40	2.65	0.09	1.00	0.06	0.36
Killifish, Striped	0.80	3.23	1.06	10.03	3.20	26.13	6.36	36.19	2.98	23.77	1.16	10.57
Lance, American Sand	0.00	0.00	0.03	0.09	0.01	0.01	0.03	0.15	0.04	0.07	0.13	0.73
Lumpfish	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01
Menhaden, Atlantic	0.00	0.00	0.00	0.00	0.03	0.13	0.03	0.04	0.19	1.27	0.42	19.83
Mullet, White	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Mummichog	0.61	2.77	0.90	11.19	1.12	8.17	1.97	9.31	0.41	1.76	0.22	1.32
Perch, White	0.04	0.07	0.13	0.60	0.29	1.53	0.17	0.77	0.08	0.37	0.01	0.03
Pipefish, Northern	0.19	0.33	0.16	0.28	0.12	0.23	0.09	0.13	0.14	0.23	0.01	0.03
Pollock	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pumpkinseed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Sea, Raven	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shad, American	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silverside, Atlantic	1.29	9.31	2.14	9.31	39.78	287.65	139.20	456.21	76.74	320.00	35.14	271.71
Smelt, Rainbow	0.11	4.19	0.28	5.64	0.35	8.37	0.42	16.83	0.73	16.12	0.33	1.61
Spotfin, Butterflyfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
squid, uncl.	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Stickleback, Fourspine	0.26	0.61	0.30	2.81	0.26	0.89	0.25	1.05	0.34	1.65	0.16	0.33
Stickleback, Ninespine	0.11	0.37	0.20	0.84	0.27	1.43	0.11	0.47	0.24	4.03	0.15	0.28
Stickleback, Threespine	0.03	0.04	0.03	0.04	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.04
Tomcod, Atlantic	1.03	5.04	0.36	1.15	0.08	0.13	0.05	0.12	0.04	0.05	0.01	0.01
All species	15.45	106.97	21.06	83.24	74.41	351.41	222.24	533.72	111.54	378.65	52.74	309.64

Appendix Table 3.3-17. Mean, minimum, and maximum total length (cm), as well as sample size (N), for all fish species measured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014.

Species	Total length (cm)			
	Mean	Minimum	Maximum	N
Alewife	6.83	3.60	12.70	8
Bass, Largemouth	4.73	4.10	5.30	15
Bluefish	10.46	5.00	18.20	13
Butterflyfish, Spotfin	2.30	2.30	2.30	1
Cunner	5.60	4.50	6.70	2
Eel, American	33.00	33.00	33.00	1
Flounder, Smooth	7.54	2.90	12.30	143
Flounder, Winter	6.38	3.30	16.10	53
Grubby	6.16	3.40	11.10	28
Hake, Red	6.81	5.20	9.50	11
Hake, Silver	10.90	10.90	10.90	1
Hake, White	10.15	7.00	13.30	2
Herring, Atlantic	8.33	4.20	10.60	43
Herring, Blueback	5.55	3.50	11.60	46
Killifish, Striped	5.25	2.70	10.60	378
Lance, American Sand	10.14	9.20	10.90	25
Menhaden, Atlantic	5.44	4.10	8.10	24
Mummichog	5.74	4.00	8.70	182
Perch, White	5.68	3.40	21.60	125
Pipefish, Northern	19.60	13.40	26.80	15
Pollock	6.60	6.60	6.60	1
Raven, Sea	5.35	4.90	5.80	2
Silverside, Atlantic	8.20	3.50	19.00	1,301
Smelt, Rainbow	5.49	3.60	8.20	123
Stickleback, Fourspine	4.46	2.60	5.50	117
Stickleback, Ninespine	4.85	2.80	6.40	132
Stickleback, Threespine	4.83	3.70	6.70	6
Tomcod, Atlantic	7.26	5.20	13.20	77
			Total N=	2,875

Appendix Table 3.3-18. Mean, minimum, and maximum total length (cm), as well as sample size (N), for all fish species measured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2015.

Species	Total length (cm)			
	Mean	Minimum	Maximum	N
Alewife	7.09	3.20	14.20	98
Bass, Largemouth	4.40	4.40	4.40	1
Bass, Striped	62.90	62.90	62.90	1
Eel, American	20.95	17.30	24.60	2
Flounder, Smooth	6.90	1.80	14.90	92
Flounder, Winter	6.87	2.50	18.90	100
Grubby	5.02	3.00	9.50	65
Hake, Red	6.61	5.10	12.40	24
Hake, White	7.76	6.30	11.00	5
Herring, Atlantic	8.07	5.10	16.20	45
Herring, Blue	5.37	4.00	14.20	19
Killifish, Striped	5.47	2.40	9.40	458
Lance, American Sand	9.25	7.70	14.50	30
Lumpfish	3.25	2.80	3.70	2
Menhaden, Atlantic	7.63	5.80	8.60	6
Mummichog	5.78	3.20	8.70	280
Perch, White	10.30	10.30	10.30	1
Pipefish, Northern	18.59	13.30	23.00	14
Raven, Sea	4.40	4.40	4.40	1
Silverside, Atlantic	8.83	2.60	14.90	1,258
Smelt, Rainbow	6.62	4.10	11.50	170
Stickleback, Fourspine	4.50	3.20	6.40	60
Stickleback, Ninespine	4.84	3.60	5.70	10
Stickleback, Threespine	5.27	4.10	6.00	3
Tomcod, Atlantic	7.85	5.60	11.20	17
			Total N=	2,762

Appendix Table 3.3-19. Mean, minimum, and maximum total length (cm), as well as sample size (N), for all fish species measured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2016.

Species	Total length (cm)			
	Mean	Minimum	Maximum	N
Alewife	8.89	4.30	14.50	66
Bass, Striped	58.40	58.40	58.40	1
Anchovy, Bay	6.94	5.80	7.60	5
Bluefish	9.87	7.10	11.40	3
Cunner	3.70	3.70	3.70	1
Eel, American	19.10	18.10	20.00	3
Flounder, Smooth	6.95	3.00	20.90	45
Flounder, Windowpane	5.00	4.70	5.30	2
Flounder, Winter	5.20	1.50	15.50	296
Grubby	6.10	3.30	8.60	45
Gunnel, Rock	10.30	10.00	10.60	2
Hake, Red	5.73	4.50	7.60	6
Hake, White	5.35	3.20	6.80	12
Herring, Atlantic	7.07	6.70	7.50	7
Herring, Blueback	8.99	4.00	15.30	73
Killifish, Striped	5.59	2.80	12.40	638
Lance, American Sand	10.48	9.40	12.70	14
Menhaden, Atlantic	6.27	4.50	7.80	9
Mummichog	5.88	3.70	9.10	368
Perch, White	14.73	12.30	19.40	3
Pipefish, Northern	17.26	9.40	24.00	27
Shad, American	13.33	13.00	13.60	3
Silverside, Atlantic	9.03	3.90	14.10	1370
Smelt, Rainbow	7.11	5.10	13.20	55
Stickleback, Fourspine	4.19	3.40	5.10	28
Stickleback, Ninespine	4.62	3.80	5.60	6
Tomcod, Atlantic	7.51	5.70	13.40	59
Total N=				3,147

Appendix Table 3.3-20. Mean, minimum, and maximum total length (cm), as well as sample size (N), for all fish species measured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2017.

Species	Total length (cm)			
	AM	Minimum	Maximum	N
Alewife	12.64	3.70	21.70	77
Bass, Largemouth	19.50	19.50	19.50	1
Bass, Striped	53.77	40.00	61.60	3
Bluefish	5.33	4.80	5.90	3
Cunner	6.20	4.10	8.30	2
Eel, American	34.80	34.80	34.80	1
Flounder, Smooth	5.82	2.50	10.90	18
Flounder, Winter	5.06	2.30	14.60	179
Grubby	4.65	2.80	8.50	29
Gunnel, Rock	13.05	12.60	13.50	2
Hake, Red	7.07	5.10	10.10	3
Herring, Atlantic	7.27	4.30	18.40	126
Herring, Blueback	7.46	3.20	13.60	112
Killifish, Striped	5.05	2.70	14.00	521
Lance, American Sand	6.67	5.30	7.70	7
Menhaden, Atlantic	8.06	3.80	10.00	96
Mummichog	5.62	2.50	10.20	248
Perch, White	6.63	2.90	27.60	85
Pipefish, Northern	16.60	7.10	21.00	11
Shad, American	14.30	14.30	14.30	1
Silverside, Atlantic	8.06	3.30	14.40	1,309
Smelt, Rainbow	6.18	3.70	10.90	144
Stickleback, Fourspine	4.09	3.10	5.20	54
Stickleback, Ninespine	4.35	2.10	9.10	72
Stickleback, Threespine	5.10	5.10	5.10	1
Tomcod, Atlantic	7.23	4.50	11.20	66
			Total N=	3,171

Appendix Table 3.3-21. Mean, minimum, and maximum total length (cm), as well as sample size (N), for all fish species measured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2018.

Species	Total length (cm)			
	AM	Minimum	Maximum	N
Alewife	9.65	3.20	29.70	320
Anchovy, Bay	6.94	5.80	7.60	5
Bass, Largemouth	5.58	4.10	19.50	17
Bass, Striped	54.72	40.00	62.90	6
Bluefish	7.07	3.30	18.20	116
Bluegill	20.50	20.50	20.50	1
Butterflyfish, Spotfin	2.30	2.30	2.30	1
Cunner	5.33	3.70	8.30	8
Eel, American	23.86	17.30	34.80	7
Flounder, Smooth	6.91	1.80	20.90	393
Flounder, Windowpane	5.00	4.70	5.30	2
Flounder, Winter	5.60	1.50	18.90	686
Grubby	5.34	2.00	11.10	193
Gunnel, Rock	12.25	10.00	14.80	6
Hake, Red	6.42	2.50	12.40	50
Hake, Silver	10.90	10.90	10.90	1
Hake, White	6.49	3.20	13.30	19
Herring, Atlantic	7.27	3.20	18.40	319
Herring, Blueback	8.22	3.20	28.30	370
Killifish, Striped	5.31	2.40	14.00	2,597
Lance, American Sand	9.53	5.30	14.50	76
Lumpfish	3.25	2.80	3.70	2
Menhaden, Atlantic	7.41	3.80	13.30	173
Mullet, White	5.50	5.50	5.50	1
Mummichog	5.72	2.50	10.20	1,248
Perch, White	6.32	2.90	27.60	223
Pipefish, Northern	17.55	7.10	26.80	89
Pollock	6.60	6.60	6.60	1
Pumpkinseed	4.00	4.00	4.00	1
Raven, Sea	5.03	4.40	5.80	3
Shad, American	13.58	13.00	14.30	4
Silverside, Atlantic	8.50	2.60	19.00	6,447
Smelt, Rainbow	6.27	3.60	13.20	548
Stickleback, Fourspine	4.27	2.10	6.40	336
Stickleback, Ninespine	4.56	2.10	9.10	297
Stickleback, Threespine	5.02	3.70	6.70	14
Tomcod, Atlantic	7.34	4.50	13.40	323
			Total N=	14,903

Appendix Table 3.3-22. Water surface temperature (°C), by month and station, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014—2018.

2014	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	12.4	13.8	14.0	14.2	13.5	14.5	14.7	15.0	15.2	19.9	16.9	20.9	24.0	15.9	23.6	16.6
July	13.4	15.2	15.6	18.8	15.3	17.2	19.8	19.1	19.8	26.0	22.2	19.4	23.7	25.1	22.7	19.6
August	17.2	18.0	18.0	20.1	18.6	19.7	21.7	18.9	19.5	25.6	22.0	21.2	26.7	22.6	23.9	20.9
September	17.1	18.0	18.3	19.7	16.6	18.7	20.1	17.4	18.9	24.2	20.8	21.6	25.8	28.1	24.6	20.7
October	15.0	16.1	15.5	14.8	14.3	14.8	15.3	15.1	15.1	15.9	13.4	13.4	13.4	15.0	13.5	14.7
November	8.9	8.2	8.0	8.3	8.7	7.5	7.2	9.7	9.1	7.7	9.1	9.3	7.8	9.5	8.6	8.5
Site mean	14.0	14.9	14.9	16.0	14.5	15.4	16.5	15.9	16.3	19.9	17.4	17.6	20.2	19.4	19.5	
Area mean	14.6			15.6				17.3			18.8					
2015	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	13.7	14.9	14.3	15.0	12.3	14.2	15.7	16.6	16.4	21.8	19.0	17.8	21.4	22.4	20.2	17.0
July	13.8	15.9	16.1	19.5	18.0	19.3	19.9	17.2	17.9	23.3	19.7	20.7	24.2	11.6	24.5	18.8
August	19.7	19.8	19.8	18.0	15.7	17.4	18.2	18.0	18.4	25.6	21.7	20.9	24.3	26.2	23.1	20.5
September	17.2	18.0	17.9	20.9	19.1	21.6	20.7	17.6	17.9	20.8	20.0	20.0	22.2	22.0	21.5	19.8
October	11.4	11.4	11.4	11.6	11.3	11.1	11.0	14.7	14.1	14.6	14.3	16.1	16.4	16.3	15.8	13.4
November	11.9	11.6	11.8	11.8	11.3	11.6	11.9	11.3	10.8	10.8	11.2	10.8	11.3	12.4	11.6	11.5
Site mean	14.6	15.3	15.2	16.1	14.6	15.9	16.2	15.9	15.9	19.5	17.7	17.7	20.0	18.5	19.5	
Area mean	15.0			15.7				17.1			18.7					
2016	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	13.9	14.3	15.2	16.6	14.0	16.4	18.1	14.1	15.0	17.9	17.8	18.4	20.5	20.9	19.6	16.8
July	19.9	19.9	20.7	12.5	20.1	21.3	22.2	20.1	19.3	24.2	30.6	19.4	22.0	25.2	25.0	21.5
August	18.6	19.0	19.6	18.2	18.0	18.7	19.6	18.3	19.1	24.9	22.4	22.2	25.4	26.6	24.3	21.0
September	19.5	19.3	19.7	20.7	19.5	20.5	20.8	19.8	19.1	21.5	20.7	21.5	23.3	21.2	23.5	20.7
October	16.2	15.5	15.8	10.7	10.7	10.2	9.8	15.6	15.3	15.5	15.5	15.6	15.8	15.8	15.5	14.2
November	11.1	10.4	10.3	10.7	10.5	9.9	9.8	10.9	10.0	8.6	10.6	10.5	9.4	9.3	9.6	10.1
Site mean	16.5	16.4	16.9	14.9	15.5	16.2	16.7	16.5	16.3	18.8	19.6	17.9	19.4	19.8	19.6	
Area mean	16.6			15.8				17.2			19.3					

Appendix Table 3.3-22 (Continued).

2017	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	No June data due to instrument failure															
July	18.0	18.7	19.3	19.7	18.7	19.8	20.8	18.2	18.5	24.2	18.2	18.5	20.4	22.0	20.1	19.7
August	15.7	16.3	17.1	18.1	17.0	17.6	18.6	16.7	17.1	23.4	20.0	20.3	23.2	25.6	22.4	19.3
September	14.4	16.4	16.9	17.4	16.1	17.1	17.6	14.6	14.9	18.8	17.2	17.2	20.8	20.7	20.0	17.3
October	13.1	13.3	13.2	13.8	14.3	14.2	14.2	14.6	15.0	18.4	16.7	16.7	18.6	19.5	18.2	15.6
November	9.7	8.4	8.5	7.1	6.9	6.7	6.9	8.1	6.5	5.6	9.9	6.9	8.8	10.4	9.2	8.0
Site mean	14.2	14.6	15.0	15.2	14.6	15.1	15.6	14.4	14.4	18.1	16.4	15.9	18.4	19.6	18.0	
Area mean	14.6			15.1				15.6			17.7					
2018	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	14.9	14.7	14.9	15.1	16.6	15.9	16.7	14.0	16.5	22.8	20.4	16.8	20.4	22.5	23.0	17.7
July	19.7	19.3	20.5	17.5	19.5	19.2	20.1	18.4	19.6	25.7	22.3	21.7	26.5	25.9	25.2	21.4
August	18.1	18.6	21.5	19.8	22.8	21.5	22.4	21.5	21.5	24.9	23.1	23.8	26.0	23.6	24.9	22.3
September	18.1	20.0	20.4	21.4	22.8	23.0	23.2	19.9	27.6	23.6	21.3	19.5	20.7	20.3	20.3	21.5
October	16.3	16.1	16.4	15.7	15.4	15.3	15.2	16.2	16.4	15.6	16.6	16.9	17.1	16.2	16.9	16.2
November	7.1	6.6	6.8	8.1	6.7	6.6	6.5	6.0	5.4	2.4	5.1	4.7	4.6	9.4	2.5	5.9
Site mean	15.7	15.9	16.8	16.3	17.3	16.9	17.4	16.0	17.8	19.2	18.1	17.2	19.2	19.7	18.8	
Area mean	15.7			16.3				16.0			18.1					

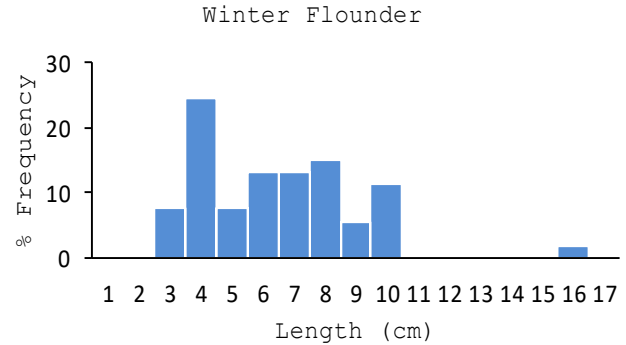
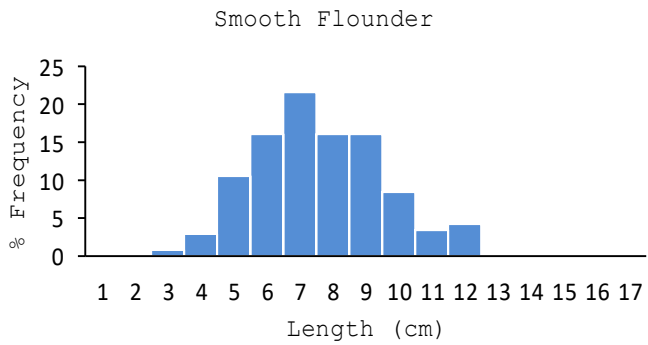
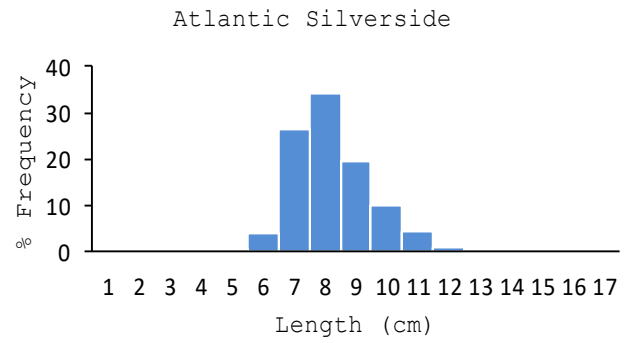
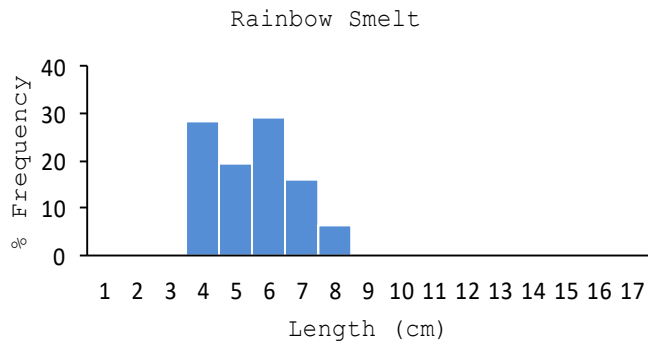
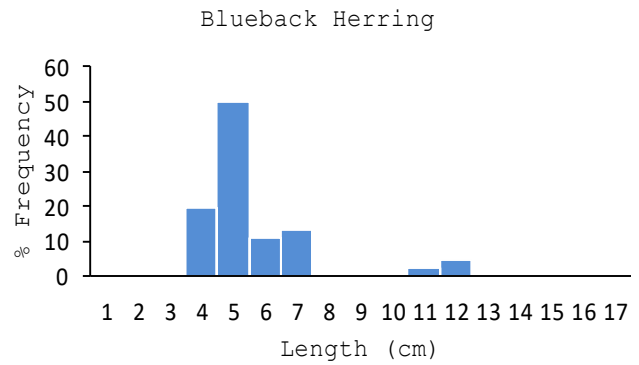
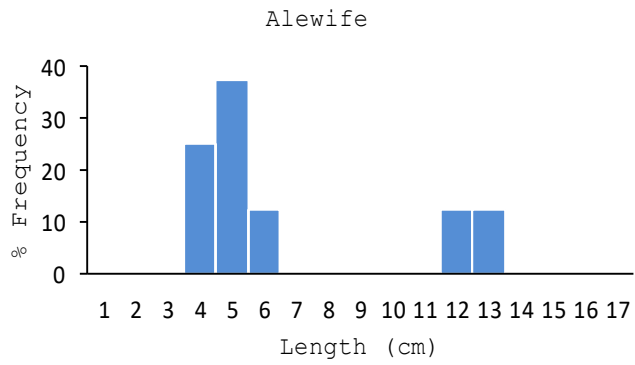


Appendix Table 3.3-23. Salinity (ppt), by month and station, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014—2018.

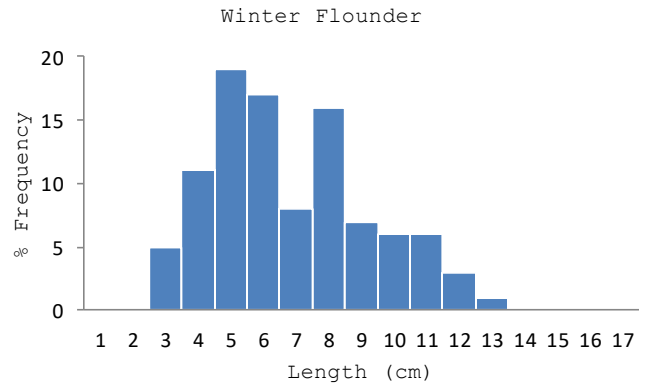
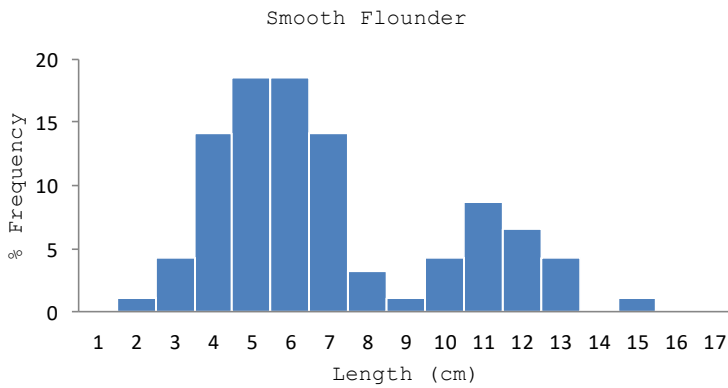
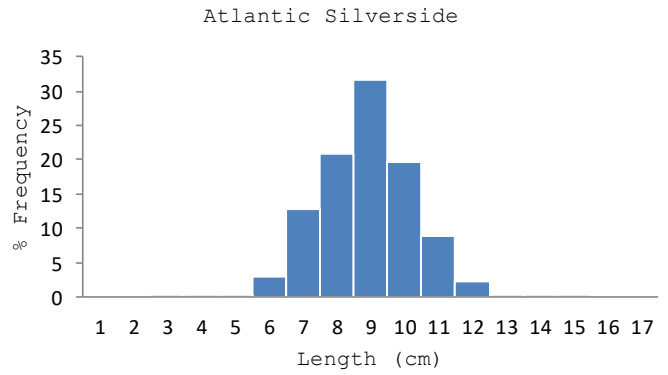
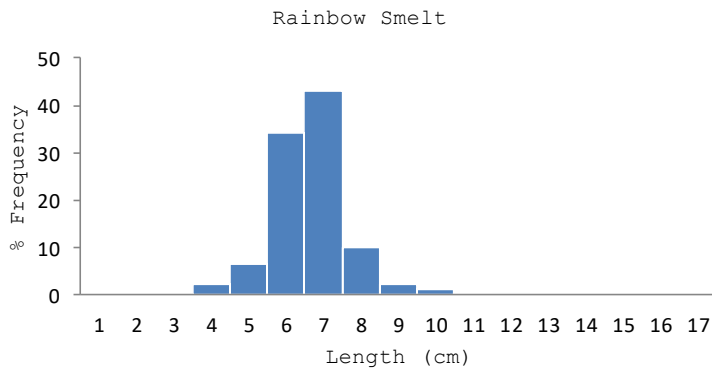
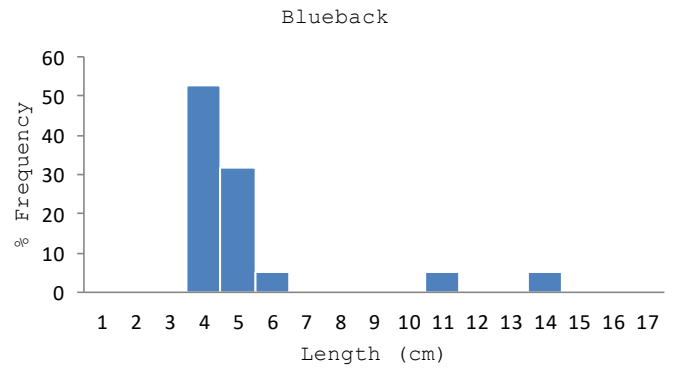
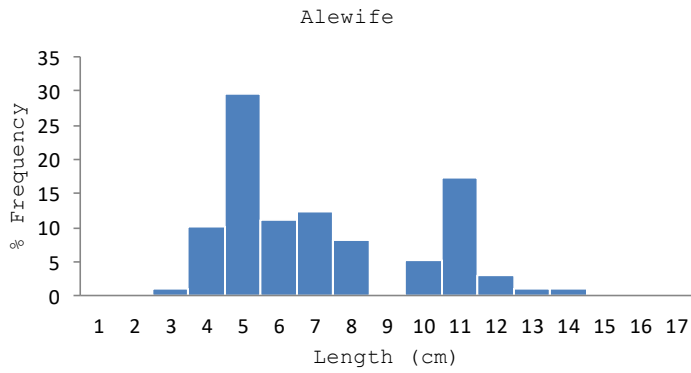
2014	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	28.8	28.1	28.0	27.9	28.3	27.9	28.1	25.7	24.4	7.9	23.7	26.1	24.3	23.3	26.0	25.2
July	29.9	29.9	28.5	28.3	30.1	29.2	28.7	25.4	21.5	6.2	24.4	26.8	22.7	12.0	25.6	24.6
August	30.3	29.9	29.8	30.0	30.6	30.3	30.5	28.5	27.5	12.4	27.2	27.3	26.3	10.3	25.6	26.4
September	22.6	30.2	30.4	29.6	30.8	30.4	29.2	29.3	28.4	16.2	27.4	27.0	25.8	19.2	25.4	26.8
October	31.2	31.3	31.1	31.3	31.5	31.5	31.4	31.1	30.4	25.6	30.9	31.0	29.8	25.6	30.5	30.3
November	31.2	30.3	34.4	30.6	31.2	30.8	26.1	29.8	27.8	12.4	28.1	28.1	26.1	23.5	27.4	27.9
Site mean	29.0	30.0	30.4	29.6	30.4	30.0	29.0	28.3	26.7	13.5	27.0	27.7	25.8	19.0	26.8	
Area mean	29.8			29.8				22.8			25.2					
2015	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	31.2	30.4	30.4	28.5	31.0	30.7	29.7	28.6	29.3	14.5	28.5	28.5	26.6	14.9	19.7	26.8
July	31.2	30.1	30.4	29.7	30.2	29.8	29.8	28.5	27.2	11.5	26.3	26.2	24.0	25.1	23.6	26.9
August	30.7	30.7	30.8	30.8	31.4	30.4	31.3	30.7	30.4	21.1	29.8	29.9	28.6	25.2	29.5	29.4
September	25.8	31.1	31.1	30.6	31.5	31.2	30.9	31.0	27.1	22.7	30.7	30.5	30.0	24.8	29.4	29.2
October	31.7	30.9	30.8	31.8	31.9	31.7	31.7	29.3	27.0	12.6	28.7	29.3	28.5	13.5	20.7	27.3
November	31.4	30.3	31.1	30.1	31.3	30.8	30.4	28.7	28.4	9.2	27.4	27.3	25.2	18.0	26.1	27.0
Site mean	30.3	30.6	30.8	30.3	31.2	30.8	30.6	29.5	28.2	15.3	28.6	28.6	27.2	20.3	24.8	
Area mean	30.6			30.7				24.3			25.9					
2016	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	31.1	28.5	30.6	30.6	31.3	31.1	31.2	29.2	28.9	17.2	28.3	28.3	26.9	13.9	27.6	27.6
July	31.2	31.0	30.8	30.6	30.8	31.2	31.2	29.2	30.7	20.2	20.8	29.8	29.9	22.2	29.5	28.6
August	31.2	21.7	31.8	31.3	31.4	31.7	31.9	31.0	30.8	25.5	30.7	30.1	31.0	28.2	31.0	30.0
September	31.4	31.4	31.6	31.4	31.5	31.5	31.6	30.6	30.8	27.2	31.2	31.2	30.5	28.6	31.0	30.8
October	32.1	31.4	30.2	31.2	31.7	31.5	31.0	32.1	32.1	24.4	31.3	31.1	27.5	28.7	30.6	30.5
November	31.9	31.2	31.0	32.3	31.9	32.0	32.0	29.5	28.0	11.7	27.5	27.5	25.0	17.5	25.9	27.7
Site mean	31.5	29.2	31.0	31.2	31.4	31.5	31.5	30.3	30.2	21.0	28.3	29.7	28.5	23.2	29.3	
Area mean	30.6			31.4				27.2			27.8					

Appendix Table 3.3-23 (Continued).

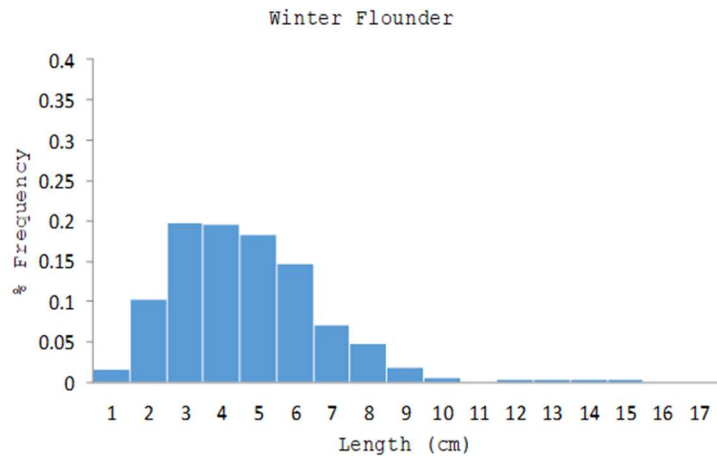
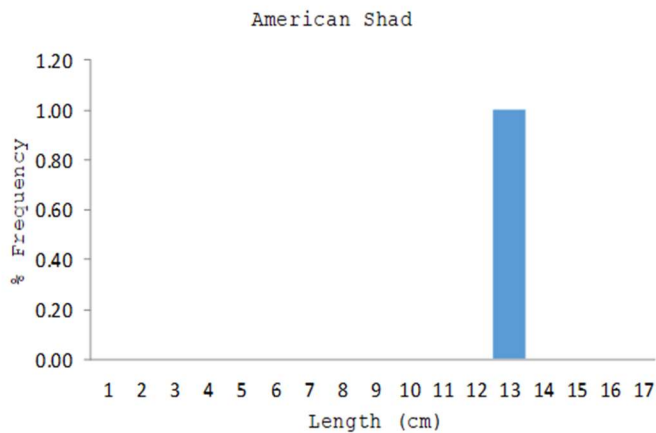
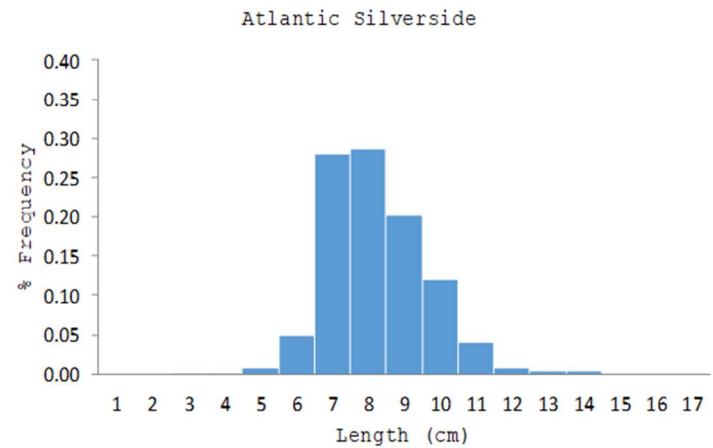
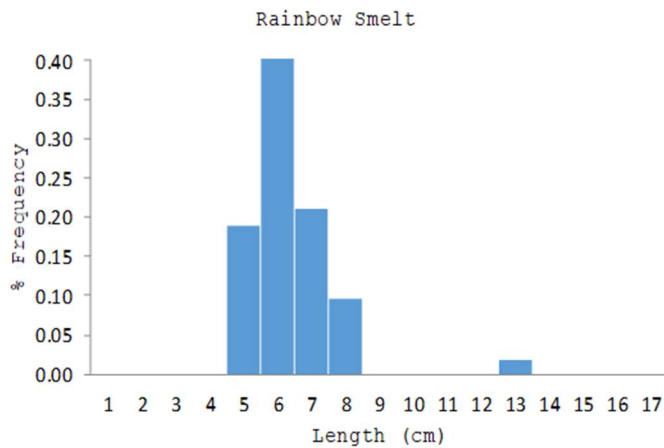
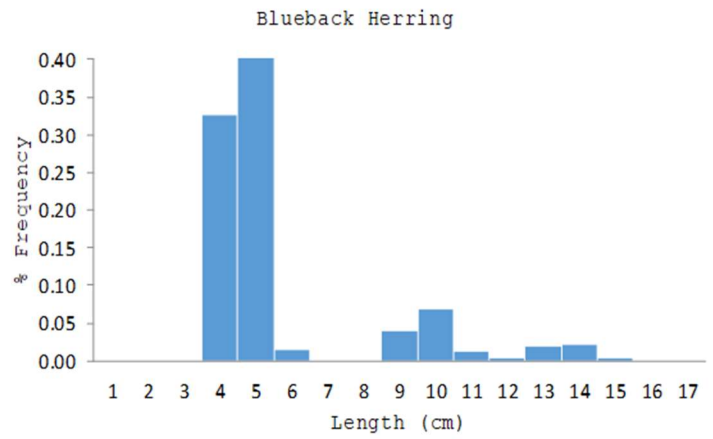
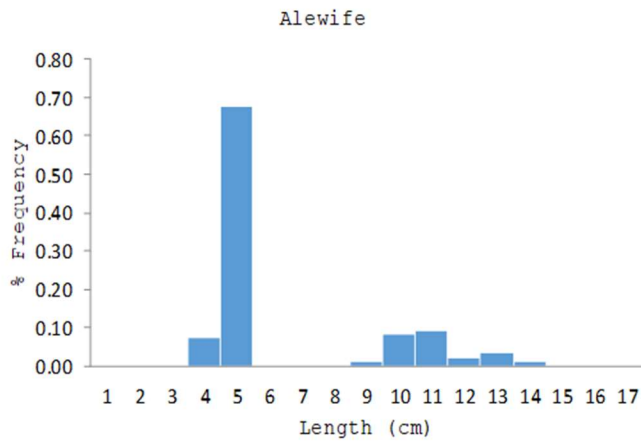
2017	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	No June data due to instrument failure															
July	30.6	30.0	30.3	30.2	30.0	30.5	30.3	29.4	28.6	15.6	27.5	27.4	25.6	10.6	24.4	26.7
August	31.3	31.0	31.2	30.9	31.2	31.6	31.4	31.1	30.7	22.8	30.0	30.1	29.5	24.4	29.4	29.8
September	31.3	31.0	31.2	31.1	30.7	31.2	31.2	30.6	30.0	16.9	29.0	29.3	27.1	20.4	28.0	28.6
October	31.6	31.4	31.5	31.3	31.2	31.4	31.6	31.2	30.9	18.3	30.6	30.5	29.5	23.3	28.3	29.5
November	31.3	30.0	30.4	30.5	31.1	31.1	31.1	27.6	25.4	10.4	24.6	25.3	21.3	11.7	22.1	25.6
Site mean	31.5	29.2	31.0	31.2	31.4	31.5	31.5	30.3	30.2	21.0	28.3	29.7	28.5	23.2	29.3	
Area mean	30.9			31.0				25.3			25.6					
2018	Station #															Monthly mean
	Little Harbor			Hampton/Seabrook Estuary				Piscataqua River			Little Bay/Great Bay					
	5	7	9	23	25	29	33	30	35	39	54	72	93	107	147	
June	31.0	30.9	31.1	31.0	31.3	31.3	31.4	30.3	29.1	20.1	29.6	29.0	27.3	23.8	28.6	30.3
July	30.8	29.5	30.2	30.4	31.1	31.2	31.3	29.6	28.7	15.6	28.4	28.1	26.6	8.8	26.0	26.0
August	30.4	28.9	28.7	30.6	31.0	31.0	30.8	27.6	26.2	9.7	24.3	24.4	21.5	0.7	17.6	31.0
September	31.4	30.2	30.8	30.8	31.0	31.0	31.1	29.6	24.5	13.1	28.4	28.7	27.1	14.0	26.1	25.3
October	29.6	28.9	29.0	29.4	28.8	27.1	28.0	26.9	25.2	10.0	23.7	23.6	20.2	6.6	20.1	22.3
November	27.1	25.2	26.2	29.7	25.8	24.2	26.1	15.5	12.7	0.2	11.2	10.7	8.2	0.3	4.9	16.5
Site mean	31.0	28.9	29.0	31.0	31.0	31.0	28.0	26.6	24.4	10.0	24.3	29.0	21.8	14.0	26.0	
Area mean	29.0			30.4				10.0			20.0					



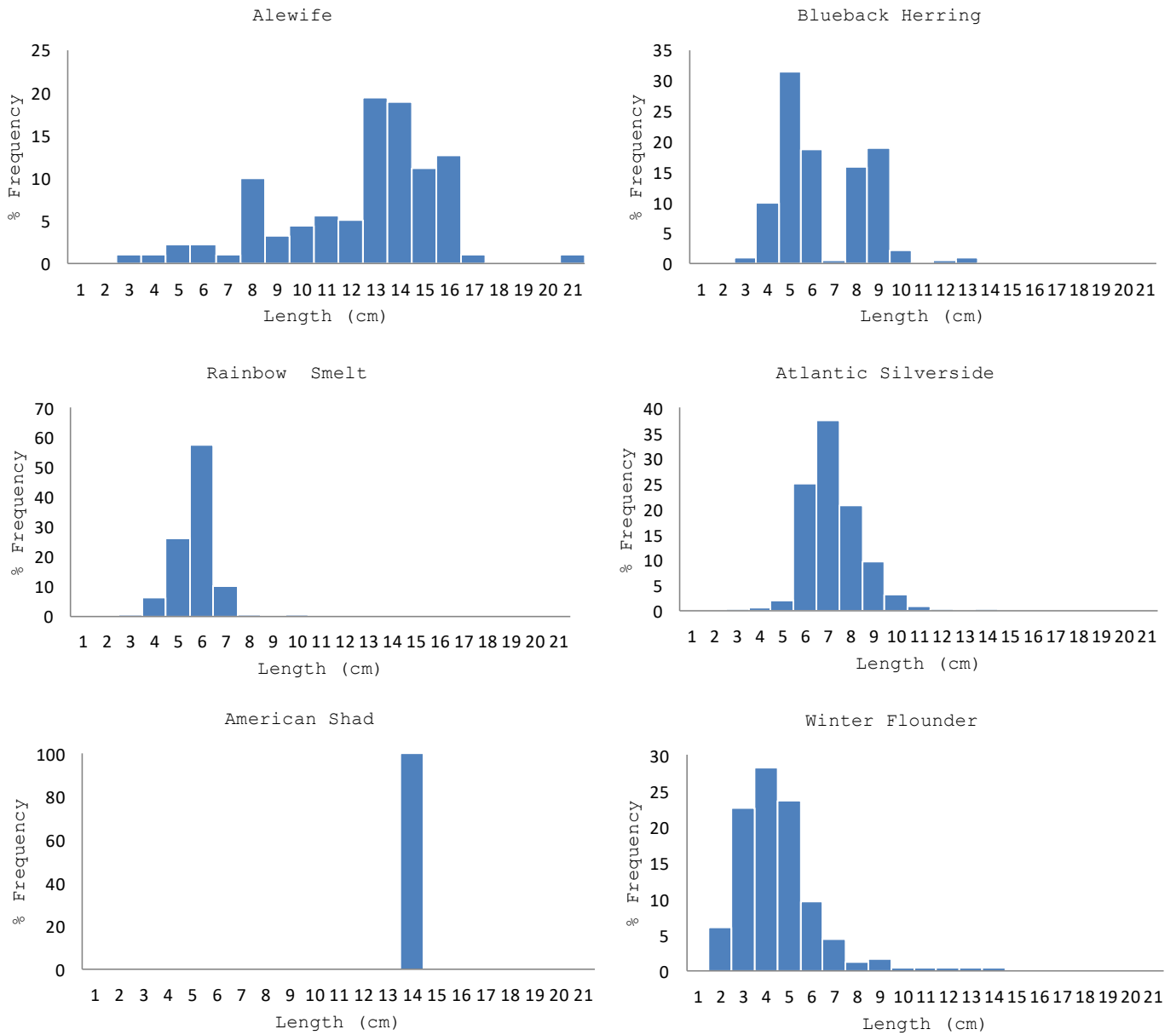
Appendix Figure 3.3-1. Weighted length frequencies of finfish species of special interest captured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2014.



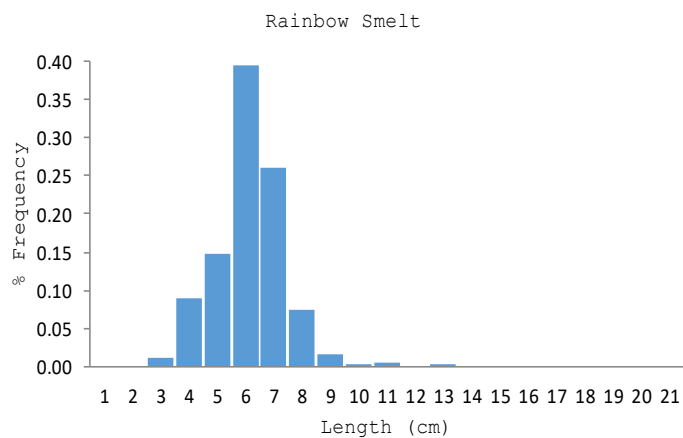
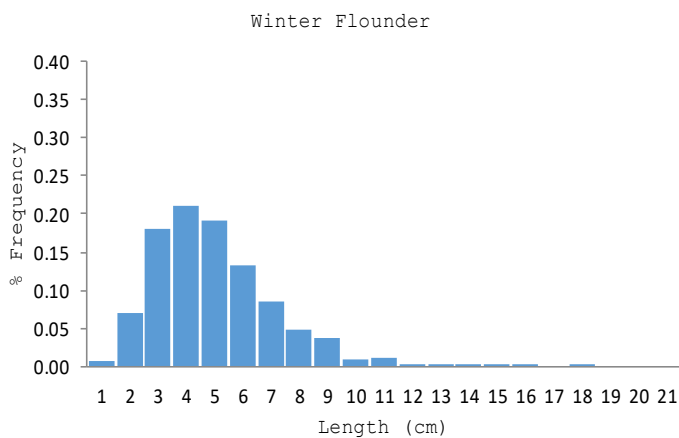
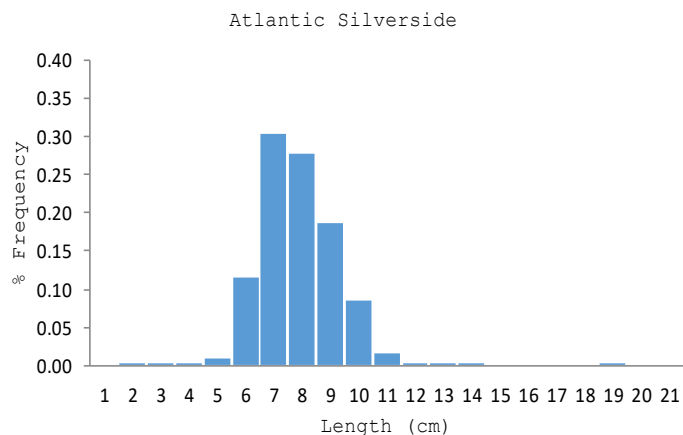
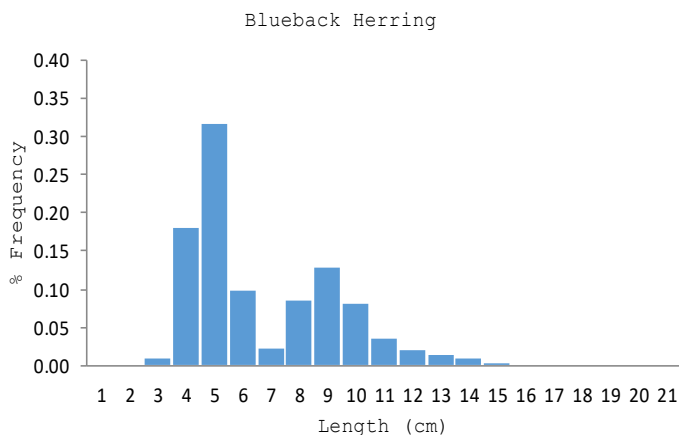
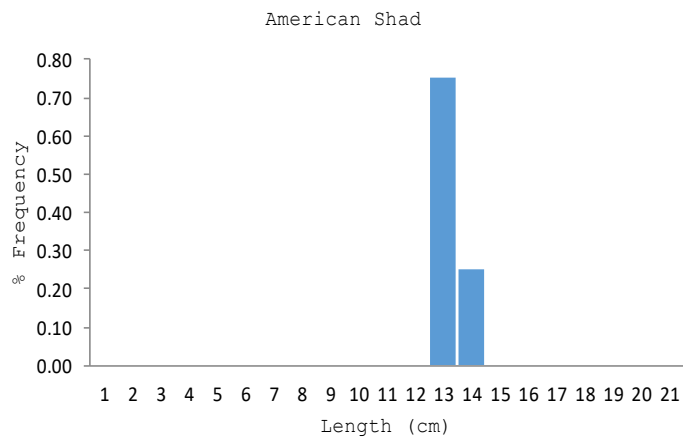
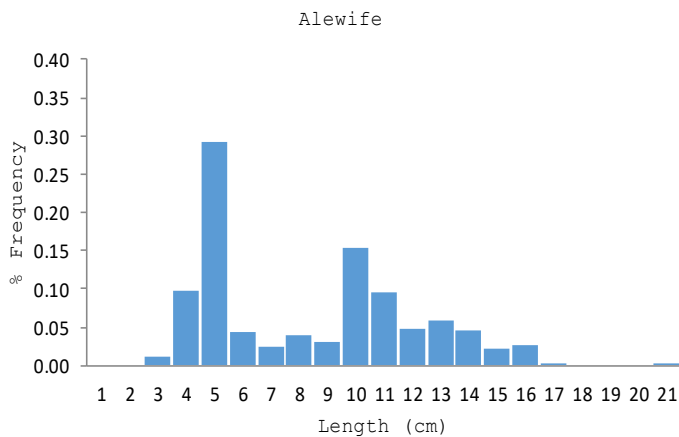
Appendix Figure 3.3-2. Weighted length frequencies of finfish species of special interest captured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2015.



Appendix Figure 3.3-3. Weighted length frequencies of finfish species of special interest captured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2016.



Appendix Figure 3.3-4. Weighted length frequencies of finfish species of special interest captured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2017.



Appendix Figure 3.3-5. Weighted length frequencies of finfish species of special interest captured, from a juvenile finfish seine survey conducted in New Hampshire estuaries, 2018.