

Supplement

Table S1: Taxa list of seine and lift net catches from May 2017 to June 2019. Data is separated by gear type and treatment type with percent of each gear calculated, as well as each taxa’s contribution to the overall catch. 97,027 individuals were sampled in total.

Scientific Name	Common Name	Seine					Lift Net					Overall				
		Dead	Restore	Live	Seine Count	% of Seine	Dead	Restore	Live	Lift Net Count	% of Lift Net	Dead	Restore	Live	Overall Count	% of Overall
<i>Anchoa</i> spp.	Anchovies	10900	21753	27566	60219	62.79%	0	1	0	1	0.09%	10900	21754	27566	60220	62.06%
<i>Eucinostomus</i> spp.	Mojarras	2079	5556	4481	12116	12.63%	0	2	69	71	6.34%	2079	5558	4550	12187	12.56%
<i>Leiostomus xanthurus</i>	Spot	2938	1214	2273	6425	6.70%	0	0	0	0	0.00%	2938	1214	2273	6425	6.62%
<i>Lagodon rhomboides</i>	Pinfish	800	369	1568	2737	2.85%	9	9	22	40	3.57%	809	378	1590	2777	2.86%
<i>Harengula jaguana</i>	Scaled Sardine	602	1273	540	2415	2.52%	0	0	0	0	0.00%	602	1273	540	2415	2.49%
<i>Eucinostomus harengulus</i>	Tidewater Mojarra	820	812	648	2280	2.38%	0	0	0	0	0.00%	820	812	648	2280	2.35%
<i>Clupeidae</i> spp.	Herrings	139	741	1113	1993	2.08%	0	0	0	0	0.00%	139	741	1113	1993	2.05%
<i>Diapterus auratus</i>	Irish Pompano	298	301	1011	1610	1.68%	0	3	4	7	0.63%	298	304	1015	1617	1.67%
<i>Eucinostomus gula</i>	Silver Jenny	400	591	568	1559	1.63%	0	0	2	2	0.18%	400	591	570	1561	1.61%
<i>Menidia</i> spp.	Silversides	786	79	311	1176	1.23%	0	0	0	0	0.00%	786	79	311	1176	1.21%
<i>Lucania parva</i>	Rainwater Killifish	23	1	1014	1038	1.08%	2	0	2	4	0.36%	25	1	1016	1042	1.07%
<i>Orthopristis chrysoptera</i>	Pigfish	167	44	273	484	0.50%	2	5	9	16	1.43%	169	49	282	500	0.52%
<i>Gobiosoma</i> spp.	Gobiosoma Gobies	7	16	61	84	0.09%	71	58	123	252	22.50%	78	74	184	336	0.35%
<i>Bairdiella chrysoura</i>	Silver Perch	15	5	242	262	0.27%	3	3	46	52	4.64%	18	8	288	314	0.32%
<i>Lutjanus griseus</i>	Mangrove Snapper	38	81	44	163	0.17%	26	42	41	109	9.73%	64	123	85	272	0.28%
<i>Opisthonema oglinum</i>	Atlantic Herring	14	17	214	245	0.26%	0	0	0	0	0.00%	14	17	214	245	0.25%
<i>Ctenogobius boleosoma</i>	Darter Goby	3	25	46	74	0.08%	9	14	116	139	12.41%	12	39	162	213	0.22%
<i>Gobiosoma robostum</i>	Code Goby	3	3	29	35	0.04%	38	16	108	162	14.46%	41	19	137	197	0.20%
<i>Micropogonias undulatus</i>	Atlantic Croaker	14	33	109	156	0.16%	0	0	0	0	0.00%	14	33	109	156	0.16%

<i>Microgobius</i> <i>gulosus</i>	Clown Goby	25	13	98	136	0.14%	2	2	0	4	0.36%	27	15	98	140	0.14%
<i>Gobiosoma bosc</i>	Naked Goby	1	2	3	6	0.01%	14	22	88	124	11.07%	15	24	91	130	0.13%
<i>Elops saurus</i>	Ladyfish	11	86	21	118	0.12%	0	0	0	0	0.00%	11	86	21	118	0.12%
<i>Archosargus</i> <i>probatocephalus</i>	Sheepshead	17	13	31	61	0.06%	7	8	29	44	3.93%	24	21	60	105	0.11%
<i>Mugil curema</i>	White Mullet	31	41	32	104	0.11%	0	0	0	0	0.00%	31	41	32	104	0.11%
<i>Lutjanus synagris</i>	Lane Snapper	5	53	14	72	0.08%	1	2	0	3	0.27%	6	55	14	75	0.08%
<i>Strongylura</i> <i>notata</i>	Redfin Needlefish	17	12	20	49	0.05%	0	0	1	1	0.09%	17	12	21	50	0.05%
<i>Citharichthys</i> <i>spilopterus</i>	Bay Whiff	6	0	42	48	0.05%	0	0	0	0	0.00%	6	0	42	48	0.05%
<i>Syngnathus</i> <i>scovelli</i>	Gulf Pipefish	3	0	38	41	0.04%	0	0	0	0	0.00%	3	0	38	41	0.04%
<i>Oligoplites saurus</i>	Leatherjacket Oyster	10	18	5	33	0.03%	0	0	0	0	0.00%	10	18	5	33	0.03%
<i>Opsanus tau</i>	Toadfish	0	1	0	1	0.00%	5	13	10	28	2.50%	5	14	10	29	0.03%
<i>Paralichthys</i> <i>albiguttata</i>	Gulf Flounder	8	6	7	21	0.02%	0	0	2	2	0.18%	8	6	9	23	0.02%
<i>Bathygobius</i> <i>soporator</i>	Frillfin Goby	0	0	0	0	0.00%	13	3	5	21	1.88%	13	3	5	21	0.02%
<i>Strongylura</i> <i>marina</i>	Atlantic Needlefish	5	7	6	18	0.02%	0	0	0	0	0.00%	5	7	6	18	0.02%
<i>Synodus foetens</i>	Inshore Lizardfish	8	8	2	18	0.02%	0	0	0	0	0.00%	8	8	2	18	0.02%
<i>Eucinostomus</i> <i>jonesii</i>	Slender Mojarra	10	6	0	16	0.02%	0	0	0	0	0.00%	10	6	0	16	0.02%
<i>Mugil cephalus</i>	Striped Mullet	3	4	7	14	0.01%	0	0	0	0	0.00%	3	4	7	14	0.01%
<i>Chasmodes</i> <i>saburrae</i>	Florida Blenny	0	0	0	0	0.00%	8	2	2	12	1.07%	8	2	2	12	0.01%
<i>Fundulus grandis</i>	Gulf Killifish	1	0	6	7	0.01%	2	2	0	4	0.36%	3	2	6	11	0.01%
<i>Centropomus</i> <i>undecimalis</i>	Common Snook	1	3	6	10	0.01%	0	0	0	0	0.00%	1	3	6	10	0.01%
<i>Symphurus</i> <i>plagiusa</i>	Blackcheek Tonguefish	0	1	5	6	0.01%	0	0	1	1	0.09%	0	1	6	7	0.01%
<i>Chilomycterus</i> <i>schoepfi</i>	Striped Burrfish	6	0	0	6	0.01%	0	0	0	0	0.00%	6	0	0	6	0.01%
<i>Sphoeroides</i> <i>nephalus</i>	Southern Puffer	4	0	2	6	0.01%	0	0	0	0	0.00%	4	0	2	6	0.01%
<i>Myrophis</i> <i>platyrhynchus</i>	Broadnose Worm Eel	0	1	1	2	0.00%	0	1	3	4	0.36%	0	2	4	6	0.01%
<i>Gobiesox</i> <i>strumosus</i>	Skilletfish	0	0	0	0	0.00%	4	1	1	6	0.54%	4	1	1	6	0.01%
<i>Dasyatis sabina</i>	Atlantic Stingray	2	1	2	5	0.01%	0	0	0	0	0.00%	2	1	2	5	0.01%

<i>Ariopsis felis</i>	Hardhead	0	2	3	5	0.01%	0	0	0	0	0.00%	0	2	3	5	0.01%
<i>Chloroscombrus chrysurus</i>	Catfish	0	2	2	4	0.00%	0	0	0	0	0.00%	0	2	2	4	0.00%
<i>Fundulus majalis</i>	Atlantic Bumper	3	0	0	3	0.00%	0	0	1	1	0.09%	3	0	1	4	0.00%
<i>Scomberomorus cavalla</i>	Striped Killifish	2	1	0	3	0.00%	0	0	0	0	0.00%	2	1	0	3	0.00%
<i>Stephanolepis hispidus</i>	King Mackerel	0	0	3	3	0.00%	0	0	0	0	0.00%	0	0	3	3	0.00%
<i>Poecilia latipinna</i>	Planehead Filefish	0	0	0	0	0.00%	0	3	0	3	0.27%	0	3	0	3	0.00%
<i>Brevoortia</i> spp.	Sailfin Molly	2	0	0	2	0.00%	0	0	0	0	0.00%	2	0	0	2	0.00%
<i>Albula vulpes</i>	Menhadens	0	1	1	2	0.00%	0	0	0	0	0.00%	0	1	1	2	0.00%
<i>Selene vomer</i>	Bonefish	1	0	1	2	0.00%	0	0	0	0	0.00%	1	0	1	2	0.00%
<i>Caranx latus</i>	Lookdown	1	0	1	2	0.00%	0	0	0	0	0.00%	1	0	1	2	0.00%
<i>Achirus lineatus</i>	Horse-eye Jack	2	0	0	2	0.00%	0	0	0	0	0.00%	2	0	0	2	0.00%
<i>Floridichthys carpio</i>	Lined Sole	1	0	0	1	0.00%	0	1	0	1	0.09%	1	1	0	2	0.00%
<i>Caranx hippos</i>	Goldspotted Killifish	0	1	1	2	0.00%	0	0	0	0	0.00%	0	1	1	2	0.00%
<i>Cynoscion nebulosus</i>	Crevalle Jack	0	0	1	1	0.00%	1	0	0	1	0.09%	1	0	1	2	0.00%
<i>Syngnathus louisianae</i>	Spotted Seatrout	0	1	0	1	0.00%	0	1	0	1	0.09%	0	2	0	2	0.00%
<i>Gambusia holbrooki</i>	Chain Pipefish	0	0	0	0	0.00%	0	1	1	2	0.18%	0	1	1	2	0.00%
<i>Microgobius thalassinus</i>	Eastern Mosquito Fish	0	0	0	0	0.00%	2	0	0	2	0.18%	2	0	0	2	0.00%
<i>Sphyræna barracuda</i>	Green Goby	0	1	0	1	0.00%	0	0	0	0	0.00%	0	1	0	1	0.00%
<i>Carangidae</i> spp.	Great Barracuda	0	1	0	1	0.00%	0	0	0	0	0.00%	0	1	0	1	0.00%
<i>Megalops atlanticus</i>	Jacks	1	0	0	1	0.00%	0	0	0	0	0.00%	1	0	0	1	0.00%
<i>Lutjanus</i> spp.	Tarpon	0	1	0	1	0.00%	0	0	0	0	0.00%	0	1	0	1	0.00%
<i>Dasyatis centroura</i>	Snappers	0	0	1	1	0.00%	0	0	0	0	0.00%	0	0	1	1	0.00%
	Roughtail															
	Stingray															