

Appendix A:
Plankton data summary tables

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Plankton-net catch statistics (April 2000 through December 2004, n=684)

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	Kmu (km)	Su (psu)	Mean CPUE (No./10 ³ m ³)	Max CPUE (No./10 ³ m ³)
foraminiferans	foraminiferans	28	3	9.1	17.0	0.5	307.1
Craspedacusta sowberii	hydromedusa	263	25	11.8	12.7	5.4	1171.8
Liriope tetraphylla	hydromedusa	19,464	41	3.1	22.2	401.6	98495.7
Clytia sp.	hydromedusa	382,048	202	8.7	19.3	16393.6	1439419.9
medusa sp. c	hydromedusa	3	3	7.6	13.3	0.1	14.6
medusa sp. b	hydromedusa	4	2	4.9	16.6	0.1	31.4
Chrysaora quinquecirrha	sea nettle	16	7	7.3	16.1	0.4	99.1
Mnemiopsis mccradyi	comb jelly, ctenophore	6,737	25	3.2	22.4	132.7	15369.2
Beroe ovata	sea walnut, ctenophore	3	2	5.1	20.2	0.1	24.3
turbellarians	flatworms	2	2	2.4	21.3	0.0	15.4
nematodes	roundworms, threadworms	2	1	4.1	10.6	0.0	30.6
polychaetes	sand worms, tube worms	31,161	540	7.9	10.1	663.0	135690.2
oligochaetes	freshwater worms	761	122	10.7	0.9	14.7	1207.8
hirudinoideans	leeches	56	39	8.0	4.2	1.1	79.5
cladocerans, Daphnia spp.	water fleas	20,674	81	11.2	0.8	390.7	74802.9
Bosmina sp.	water flea	6	4	11.7	0.4	0.1	28.6
Bosminopsis deitersi	water flea	9	2	7.1	3.9	0.2	71.0
Scaphroleberis kingi	water flea	4	4	10.2	0.4	0.1	15.3
Simocephalus vetulus	water flea	1,439	123	11.5	0.5	27.3	834.1
Ceriodaphnia sp.	water flea	95	16	10.8	0.7	1.8	474.1
Bunops sp.	water flea	1,534	14	10.7	0.2	28.3	4597.6
Grimaldina brazzai	water flea	2	2	7.5	0.2	0.0	12.8
Ilyocryptus sp.	water flea	1,781	104	10.8	1.0	32.5	3158.0
Diaphanosoma brachyurum	water flea	59	16	11.1	0.6	1.1	165.1
Sida crystallina	water flea	553	64	11.8	0.4	10.4	906.4
Latona setifera	water flea	474	61	11.2	0.4	8.9	588.5
Penilia avirostris	water flea	2	2	3.2	22.7	0.0	16.4
Pseudosida bidentata	water flea	2	1	12.7	4.1	0.0	22.7
Latonopsis fasciculata	water flea	17	4	12.5	0.2	0.3	98.8
Anchistropus minor	water flea	1	1	8.0	0.2	0.0	12.8
Camptocercus rectirostris	water flea	2	2	6.1	0.2	0.0	12.8
Dadaya macrops	water flea	1	1	5.8	0.2	0.0	12.8
Euryalona occidentalis	water flea	6	1	6.3	0.2	0.1	73.1
Kurzia longirostris	water flea	2	1	11.3	0.2	0.0	25.0
Leydigia sp.	water flea	142	37	11.7	0.6	2.8	551.3
Eurycercus lamellatus	water flea	6	6	9.3	0.2	0.1	14.5
Evadne tergestina	water flea	3,080	13	1.0	23.5	68.7	25522.9
Squilla empusa larvae	mantis shrimp	145	35	2.4	22.7	3.1	316.1
decapod zoeae	crab larvae	2,592,121	507	6.8	16.9	53059.3	2963390.3
decapod mysis	shrimp larvae	45,556	410	6.7	17.7	910.9	45697.4
decapod megalopae	post-zoea crab larvae	65,739	285	7.5	16.2	1271.2	97587.0
shrimps, unidentified postlarvae	shrimps	12	5	2.6	21.2	0.2	89.7
shrimps, unidentified juveniles	shrimps	3	2	2.1	17.9	0.1	28.6
penaeid metamorphs	penaeid shrimps	7	5	5.9	13.8	0.2	91.2
Farfantepenaeus duorarum juveniles	pink shrimp	2	2	10.4	14.3	0.0	13.0
Lucifer faxoni juveniles and adults	shrimp	14,958	111	1.4	22.3	306.2	52120.6
Leptochela serratorbita juveniles	combclaw shrimp	6	5	5.5	17.8	0.1	24.7
Leptochela serratorbita adults	combclaw shrimp	1	1	8.0	19.8	0.0	11.9
Palaemonetes spp. postlarvae	grass shrimp	12,637	224	5.2	16.8	230.5	41446.0
Palaemonetes pugio juveniles	daggerblade grass shrimp	1,297	193	10.0	15.7	33.8	5295.8
Palaemonetes pugio adults	daggerblade grass shrimp	526	120	10.6	13.1	10.3	1235.0
Periclimenes spp. postlarvae	shrimps	34	14	3.5	18.0	0.7	89.7
alphaeid postlarvae	snapping shrimps	1,875	60	1.4	23.8	40.7	9705.2
alphaeid juveniles	snapping shrimps	13	5	1.8	22.5	0.3	135.1
Alpheus viridari juveniles	snapping shrimp	1	1	1.2	27.1	0.0	12.2
Leptalpheus forceps juveniles	snapping shrimp	1	1	4.4	0.2	0.0	13.2
Hippolyte zostericola postlarvae	zostera shrimp	62	11	1.9	20.7	1.2	247.2
Latreutes parvulus postlarvae	sargassum shrimp	10	2	0.9	25.4	0.2	91.2
Tozeuma carolinense postlarvae	arrow shrimp	36	13	2.1	21.2	0.8	228.6
Tozeuma carolinense juveniles	arrow shrimp	3	3	6.2	21.3	0.1	12.3
Tozeuma carolinense adults	arrow shrimp	1	1	4.4	20.0	0.0	13.0

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Plankton-net catch statistics (April 2000 through December 2004, n=684)

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Taxon	Common Name	Number Collected	Collection Frequency	Kmu (km)	Su (psu)	Mean CPUE (No./10 ³ m ³)	Max CPUE (No./10 ³ m ³)
Ogyrides alphaerostris juveniles and adults	estuarine longeye shrimp	5	3	2.6	21.5	0.1	40.9
processid postlarvae	night shrimps	13	2	0.8	24.4	0.3	134.6
Ambidexter symmetricus juveniles	shrimp	1	1	0.8	26.0	0.0	15.2
Upogebia spp. postlarvae	mud shrimps	100	13	5.0	13.3	1.9	667.4
paguroid postlarvae	hermit crabs	9	4	2.9	20.3	0.2	65.8
paguroid juveniles	hermit crabs	3	2	0.9	18.2	0.1	29.1
porcellanid (not P. armatus) juveniles	porcelain crabs	1	1	4.1	24.6	0.0	11.5
Euceramus praelongus juveniles	olivepit porcelain crab	8	6	2.1	17.6	0.2	35.9
Petrolisthes armatus juveniles	porcelain crab	732	62	2.3	21.2	15.4	1510.8
Callinectes sapidus juveniles	blue crab	6	5	5.8	14.7	0.1	23.4
xanthid juveniles	mud crabs	16	8	4.4	17.9	4.6	3024.7
Eurypanopeus depressus adults	flatback mud crab	1	1	4.1	19.4	0.0	15.4
Rhithropanopeus harrisi juveniles	Harris mud crab	29	10	6.4	18.4	0.6	185.1
Rhithropanopeus harrisi adults	Harris mud crab	4	3	7.5	18.9	0.1	26.3
Pinnixa sayana juveniles	pea crab	2,744	102	3.4	20.1	55.6	7036.9
unidentified Americamysis juveniles	opossum shrimps, mysids	27,637	296	5.0	17.9	535.7	45247.7
Americamysis almyra	opossum shrimp, mysid	136,903	378	7.5	15.9	2674.3	290932.6
Americamysis bahia	opossum shrimp, mysid	237	16	3.8	15.7	5.1	854.8
Americamysis stucki	opossum shrimp, mysid	225	14	3.4	22.8	4.9	914.4
Bowmaniella dissimilis	opossum shrimp, mysid	118	35	5.7	19.9	2.2	445.5
Brasilomysis castroi	opossum shrimp, mysid	2	2	4.4	24.0	0.0	11.9
Spelaeomysis sp.	opossum shrimp, mysid	1	1	12.7	8.7	0.0	13.8
cumaceans	cumaceans	15,648	279	2.7	20.8	307.2	25139.5
Sinelobus stanfordi	tanaid	38	21	3.9	14.2	0.8	200.5
Hargeria rapax	tanaid	25	16	4.3	15.1	0.5	54.2
isopod sp. a	isopod	1	1	4.1	12.7	0.0	11.2
Cyathura polita	isopod	11	8	3.1	13.2	0.2	43.1
Munna reynoldsi	isopod	34	23	9.2	4.5	0.7	49.6
epicaridean larvae	isopods	23	4	4.1	21.4	0.6	329.7
Probopyrus sp. (attached)	isopod	81	28	10.7	17.5	2.6	648.5
Anopsilana jonesi	isopod	73	42	7.9	8.5	1.5	108.1
cymothoid sp. a (Lironeca) juveniles	isopod	14,820	381	7.3	18.2	307.3	4842.4
cymothoid sp. b juveniles	isopod	6	3	5.0	21.3	0.1	33.6
cymothoid sp. c juveniles	isopod	5	4	7.8	20.3	0.1	24.7
cymothoid sp. d juveniles	isopod	1	1	8.0	9.6	0.0	11.0
Cassidinidea ovalis	isopod	2,279	159	10.1	1.8	44.0	2367.4
Harrieta faxoni	isopod	1	1	1.2	25.1	0.0	11.3
Sphaeroma quadridentata	isopod	21	11	2.0	21.2	0.4	72.4
Sphaeroma terebrans	isopod	102	66	8.4	9.4	1.9	114.7
Edotea triloba	isopod	8,460	277	4.9	15.6	161.6	7321.3
Erichsonella attenuata	isopod	6	5	1.0	23.8	0.1	22.5
amphipods, gammaridean	amphipods	49,728	481	5.6	16.8	1665.7	527868.4
amphipods, caprellid	skeleton shrimps	1,267	51	2.6	23.8	24.4	3041.6
cirriped nauplius stage	barnacles	186	20	3.3	23.1	4.1	914.4
cirriped cypris stage	barnacles	38	12	4.4	11.6	0.7	93.4
branchiurans, Argulus spp.	fish lice	54	40	8.9	7.8	1.0	97.9
unidentified harpacticoids	copepods	33	20	4.7	17.8	4.9	3024.7
Ergasilus spp.	parasitic copepods	210	23	10.9	15.3	4.4	1209.7
siphonostomatids	parasitic copepods	161	72	3.9	20.3	3.3	108.5
Monstrilla sp.	copepod	607	57	1.5	23.8	11.8	1584.2
Cyclops spp.	copepods	682	55	10.7	12.6	13.9	5387.6
Eucyclops speratus	copepod	11	7	12.0	2.8	0.2	69.6
Halicyclops sp.	copepod	1	1	4.4	0.3	0.0	13.5
Macrocyclus albidus	copepods	60	23	10.2	1.6	1.2	111.4
Mesocyclops edax	copepod	53,537	215	11.6	0.8	1028.8	72328.8
Oithona spp.	copepods	30	6	6.2	19.6	0.6	358.2
Orthocyclops modestus	copepod	148	30	11.1	0.7	2.7	398.8
Saphirella spp.	copepods	10	5	5.4	15.6	0.2	72.1
unidentified calanoids	copepods	31,557	27	2.3	24.8	788.3	128225.7
paracalanids	copepods	305	12	5.2	19.9	23.7	9309.1
Acartia tonsa	copepod	106,478	177	5.8	17.1	2048.6	538796.1

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Plankton-net catch statistics (April 2000 through December 2004, n=684)

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Taxon	Common Name	Number Collected	Collection Frequency	Kmu (km)	Su (psu)	Mean CPUE (No./10 ³ m ³)	Max CPUE (No./10 ³ m ³)
Calanopia americana	copepod	77	15	4.4	15.5	1.4	430.4
Centropages hamatus	copepod	9	3	0.9	24.1	0.2	50.4
Centropages velificatus	copepod	331	12	1.0	24.9	7.2	2356.3
Diaptomus spp.	copepods	1,778	79	10.3	6.4	33.7	5526.7
Eucalanus sp.	copepod	2	2	7.0	12.4	0.0	13.9
Labidocera aestiva	copepod	26,486	134	1.0	25.2	556.5	131815.3
Osphranticum labronectum	copepod	61	23	11.8	0.3	1.1	97.4
Pseudodiaptomus coronatus	copepod	1,881	117	5.5	20.4	34.2	4178.1
Temora turbinata	copepod	3	3	1.0	22.9	0.1	14.6
Sarsiella zostericola	ostracod, seed shrimp	13	7	3.1	22.3	0.3	69.0
Parasterope pollex	ostracod, seed shrimp	248	41	3.6	22.2	5.1	1214.6
ostracods, podocopid	ostracods, seed shrimps	516	121	8.3	4.0	9.7	620.9
collembolas, podurid	springtails	19	12	11.4	6.5	0.4	95.4
ephemeropteran larvae	mayflies	1,155	95	10.8	0.3	20.7	3666.8
odonates, anisopteran larvae	dragonflies	35	20	8.6	0.4	0.6	49.4
odonates, zygopteran larvae	damselflies	80	37	10.4	1.5	1.4	213.6
hemipterans, belostomatid adults	giant water bugs	5	3	12.2	0.1	0.1	39.7
hemipterans, corixid juveniles	water boatmen	2	2	13.0	0.1	0.0	13.8
hemipterans, corixid adults	water boatmen	3	3	9.6	4.6	0.1	12.7
hemipterans, gerrid adults	water striders	24	8	10.9	7.2	0.5	97.1
hemipterans, pleid adults	pygmy backswimmers	2	1	11.3	0.1	0.0	20.3
neuropterans, Climacia spp. larvae	spongillafly	2	2	6.1	0.2	0.0	12.4
coleopterans, curculionid adults	beetles	34	12	9.6	13.3	0.7	263.8
coleopterans, dytiscid larvae	predaceous diving beetles	4	3	9.7	3.2	0.1	22.6
coleopterans, noterid adults	burrowing water beetles	10	5	12.3	0.3	0.2	36.4
coleopterans, elmids adults	riffle beetles	1	1	0.8	21.8	0.0	12.8
coleopterans, gyrinid larvae	whirligig beetles	1	1	13.0	0.1	0.0	15.7
coleopterans, noterid larvae	burrowing water beetles	3	1	13.0	0.1	0.1	39.7
coleopterans, dytiscid adults	predaceous diving beetles	4	4	9.2	8.0	0.1	13.8
coleopterans, scirtid larvae	marsh beetles	8	4	12.1	0.1	0.1	40.4
dipterans, pupae	flies, mosquitoes	6,434	240	9.4	0.7	121.9	8560.6
dipterans, ceratopogonid larvae	biting midges	38	20	11.2	1.2	0.7	95.4
dipterans, Chaoborus punctipennis larvae	phantom midge	16,990	276	11.2	1.4	312.4	28723.0
dipterans, chironomid larvae	midges	4,388	256	11.0	1.5	84.1	4257.8
dipterans, ephydrid larvae	shore flies	171	2	11.3	0.3	3.5	2381.2
dipterans, stratiomyid larvae	soldier flies	9	4	11.5	1.7	0.2	55.9
dipterans, sciomyzid larvae	marsh flies	3	3	11.3	4.8	0.1	15.8
trichopteran larvae	caddisflies	231	55	10.3	0.6	4.4	394.0
lepidopterans, pyralid larvae	aquatic caterpillars	19	12	11.6	1.8	0.3	66.1
pycnogonids	sea spiders	1	1	0.8	27.7	0.0	13.0
Limulus polyphemus larvae	horseshoe crab	180	42	2.3	24.3	3.6	330.2
acari	water mites	133	50	10.4	0.8	2.6	206.6
gastropods, prosobranch	snails	2,140	227	9.3	8.6	40.4	2581.4
gastropods, opisthobranch	sea slugs	12	6	1.4	19.1	0.2	69.7
pelecypods	clams, mussels, oysters	680	144	5.8	17.5	13.9	951.6
Lolliguncula brevis juveniles	bay squid	74	37	2.9	21.2	1.4	104.1
brachiopod, Glottidia pyramidata larvae	lamp shell	606	10	2.9	22.8	12.0	3768.7
chaetognaths, sagittid	arrow worms	70,598	255	3.1	20.3	1473.0	81532.5
thaliaceans	salps	1	1	0.8	28.5	0.0	14.2
appendicularian, Oikopleura dioica	larvacean	2,806	33	0.9	26.2	65.8	35400.5
Elops saurus postflexion larvae	ladyfish	39	21	10.0	14.2	0.8	144.3
Elops saurus juveniles	ladyfish	2	1	11.3	21.0	0.1	90.3
Brevoortia spp. postflexion larvae	menhaden	108	24	7.9	17.4	2.1	453.6
Brevoortia spp. metamorphs	menhaden	3,350	68	10.7	18.7	64.2	10063.3
Brevoortia patronus juveniles	gulf menhaden	49	15	11.0	15.6	1.0	152.4
Brevoortia smithi juveniles	yellowfin menhaden	116	20	10.5	15.3	2.4	417.0
Dorosoma spp. preflexion larvae	shads	7	4	9.5	3.4	0.1	43.9
Dorosoma spp. flexion larvae	shads	11	3	11.5	0.7	0.2	118.5
Dorosoma spp. postflexion larvae	shads	11	10	10.5	1.3	0.2	24.8
Dorosoma cepedianum juveniles	gizzard shad	2	2	4.0	0.1	0.0	12.8
Dorosoma petenense metamorphs	threadfin shad	2	2	11.0	2.1	0.0	11.4

Table A1, page 4 of 6.

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Dorosoma petenense juveniles	threadfin shad	9	9	7.4	0.2	0.2	27.0
Anchoa spp. preflexion larvae	anchovies	6,114	83	1.8	23.0	130.0	13224.0
Anchoa spp. flexion larvae	anchovies	3,469	92	3.3	21.2	76.3	8554.4
Anchoa hepsetus eggs	striped anchovy	1	1	0.8	29.5	0.0	12.8
Anchoa hepsetus postflexion larvae	striped anchovy	63	8	3.1	25.8	1.2	257.5
Anchoa hepsetus juveniles	striped anchovy	123	20	2.7	24.7	2.3	635.5
Anchoa mitchilli eggs	bay anchovy	179	14	1.4	21.0	3.9	918.4
Anchoa mitchilli postflexion larvae	bay anchovy	3,857	100	5.8	20.4	85.7	13636.7
Anchoa mitchilli juveniles	bay anchovy	74,924	517	6.5	14.6	1452.4	45916.7
Anchoa mitchilli adults	bay anchovy	425	145	6.9	7.9	8.0	423.7
Anchoa cubana juveniles	Cuban anchovy	4	4	5.1	21.2	0.1	16.3
Notropis spp. preflexion larvae	minnows	1	1	11.3	0.7	0.0	13.5
Notropis spp. flexion larvae	minnows	1	1	11.4	0.7	0.0	13.2
Notropis spp. juveniles	minnows	5	4	7.5	0.2	0.1	24.7
Ameiurus catus preflexion larvae	white catfish	1	1	4.1	0.5	0.0	13.8
Ameiurus catus juveniles	white catfish	6	5	8.6	0.3	0.1	25.7
Noturus gyrinus juveniles	tadpole madtom	1	1	12.7	0.1	0.0	13.2
Liposarcus spp. juveniles	suckermouth catfish	28	16	11.6	0.5	0.5	73.4
Opsanus beta juveniles	gulf toadfish	19	7	5.4	21.5	0.3	96.1
Opsanus beta adults	gulf toadfish	1	1	4.1	21.7	0.0	12.2
Gobiesox strumosus preflexion larvae	skilletfish	355	64	2.9	21.5	7.3	798.2
Gobiesox strumosus flexion larvae	skilletfish	475	46	2.5	22.4	9.6	1346.0
Gobiesox strumosus postflexion larvae	skilletfish	1,576	43	1.4	23.9	34.0	18768.8
Gobiesox strumosus juveniles	skilletfish	722	88	5.0	19.4	13.9	718.9
Gobiesox strumosus adults	skilletfish	4	4	4.5	11.6	0.1	14.4
Strongylura spp. postflexion larvae	needlefishes	2	1	0.8	26.0	0.0	32.1
Cyprinodon variegatus postflexion larvae	sheepshead minnow	3	2	5.1	0.3	0.1	25.7
Cyprinodon variegatus juveniles	sheepshead minnow	1	1	11.4	0.3	0.0	13.4
Fundulus spp. eggs	killifishes	1	1	11.3	17.5	0.0	12.4
Fundulus spp. postflexion larvae	killifishes	1	1	5.8	23.0	0.0	14.5
Fundulus seminolis postflexion larvae	Seminole killifish	2	2	8.4	17.6	0.0	12.7
Fundulus seminolis juveniles	Seminole killifish	1	1	11.4	0.3	0.0	13.4
Fundulus grandis postflexion larvae	gulf killifish	11	10	8.9	15.9	0.2	34.6
Lucania parva postflexion larvae	rainwater killifish	5	5	12.3	9.5	0.1	13.8
Lucania parva juveniles	rainwater killifish	7	7	10.1	6.7	0.1	13.7
Lucania parva adults	rainwater killifish	1	1	12.7	0.1	0.0	13.2
Gambusia holbrooki juveniles	eastern mosquitofish	129	38	12.2	6.9	2.3	407.5
Gambusia holbrooki adults	eastern mosquitofish	105	11	12.9	16.0	1.9	1062.1
Heterandria formosa juveniles	least killifish	1	1	11.4	13.2	0.0	13.9
Heterandria formosa adults	least killifish	1	1	8.0	0.2	0.0	11.7
Poecilia latipinna juveniles	sailfin molly	81	21	12.1	6.1	1.5	298.2
Menidia spp. eggs	silversides	35	7	7.5	7.0	0.7	205.6
Menidia spp. preflexion larvae	silversides	297	112	10.7	4.7	5.8	320.2
Menidia spp. flexion larvae	silversides	16	13	9.8	10.3	0.3	27.4
Menidia spp. postflexion larvae	silversides	16	9	8.4	11.4	0.3	49.8
Menidia spp. juveniles	silversides	233	41	11.6	14.0	4.5	695.1
Menidia spp. adults	silversides	9	4	12.9	13.2	0.2	74.1
Membras martinica juveniles	rough silverside	21	14	5.7	20.6	0.4	64.8
fish eggs, percomorph	sciaenid eggs (primarily)	3,063	19	1.1	23.6	69.7	40842.9
Syngnathus louisianae juveniles	chain pipefish	105	39	4.7	20.1	2.0	146.6
Syngnathus scovelli juveniles	gulf pipefish	101	52	5.4	20.6	1.9	146.6
Syngnathus scovelli adults	gulf pipefish	2	1	5.8	20.7	0.0	24.3
Lepomis spp. preflexion larvae	sunfishes	6	6	9.4	1.7	0.1	14.6
Lepomis spp. flexion larvae	sunfishes	10	4	11.3	1.2	0.2	79.0
Lepomis spp. juveniles	sunfishes	6	5	12.0	0.1	0.1	24.4
Lepomis gulosus postflexion larvae	warmouth	1	1	12.7	4.1	0.0	11.4
Lepomis gulosus juveniles	warmouth	1	1	4.4	5.6	0.0	11.6
Lepomis macrochirus postflexion larvae	bluegill	4	4	10.0	2.7	0.1	13.7
Lepomis macrochirus juveniles	bluegill	16	9	7.4	0.2	0.3	33.5
Lepomis auritus flexion larvae	redbreast sunfish	4	2	11.2	0.1	0.1	34.0
Lepomis punctatus postflexion larvae	spotted sunfish	1	1	9.3	0.3	0.0	11.7

Table A1, page 5 of 6.

Plankton-net catch statistics (April 2000 through December 2004, n=684)

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	Kmu (km)	Su (psu)	Mean CPUE (No./10 ³ m ³)	Max CPUE (No./10 ³ m ³)
Lepomis punctatus juveniles	spotted sunfish	2	2	10.5	2.5	0.0	11.4
Micropterus salmoides postflexion larvae	largemouth bass	2	2	8.0	0.4	0.0	13.2
Micropterus salmoides juveniles	largemouth bass	9	8	10.9	0.5	0.2	24.8
centrarchid preflexion larvae	sunfishes	2	1	1.2	0.2	0.0	25.4
Chloroscombrus chrysurus postflexion larvae	Atlantic bumper	1	1	4.1	16.8	0.0	13.2
Chloroscombrus chrysurus juveniles	Atlantic bumper	2	2	2.5	16.7	0.0	13.5
Oligoplites saurus postflexion larvae	leatherjack	1	1	1.2	25.1	0.0	11.3
Oligoplites saurus juveniles	leatherjack	13	10	2.5	21.9	0.4	98.4
gerreid postflexion larvae	mojaras	2	2	6.2	15.2	0.0	14.7
Diapterus plumieri postflexion larvae	striped mojarra	1	1	6.3	9.8	0.0	12.1
Diapterus plumieri juveniles	striped mojarra	1	1	1.2	0.2	0.0	14.9
Eucinostomus spp. juveniles	mojaras	1	1	6.3	12.3	0.0	11.6
Lagodon rhomboides juveniles	pinfish	9	6	6.9	14.4	0.2	46.2
Bairdiella chrysoura preflexion larvae	silver perch	3	1	1.2	24.9	0.1	48.9
Bairdiella chrysoura flexion larvae	silver perch	1	1	4.4	21.9	0.0	15.0
Bairdiella chrysoura postflexion larvae	silver perch	6	3	1.7	16.2	0.1	48.0
Bairdiella chrysoura juveniles	silver perch	6	5	1.5	7.2	0.1	33.8
Cynoscion arenarius preflexion larvae	sand seatrout	31	12	2.5	21.4	0.7	105.4
Cynoscion arenarius flexion larvae	sand seatrout	36	11	3.6	22.4	0.7	134.4
Cynoscion arenarius postflexion larvae	sand seatrout	54	16	4.4	13.7	1.1	263.8
Cynoscion arenarius juveniles	sand seatrout	48	25	4.2	13.9	0.9	86.7
Cynoscion nebulosus preflexion larvae	spotted seatrout	1	1	9.3	14.4	0.0	12.9
Cynoscion nebulosus flexion larvae	spotted seatrout	2	1	1.2	25.4	0.0	30.0
Cynoscion nebulosus postflexion larvae	spotted seatrout	1	1	9.3	17.0	0.0	11.1
Cynoscion nebulosus juveniles	spotted seatrout	1	1	4.1	10.8	0.0	10.9
Leiostomus xanthurus juveniles	spot	86	12	6.8	16.1	1.6	418.0
Menticirrhus spp. preflexion larvae	kingfishes	4	3	3.4	20.6	0.1	28.3
Menticirrhus spp. flexion larvae	kingfishes	1	1	0.8	28.5	0.0	12.3
Menticirrhus spp. postflexion larvae	kingfishes	5	3	2.7	23.4	0.1	30.4
Menticirrhus americanus juveniles	southern kingfish	1	1	0.8	26.0	0.0	15.2
Sciaenops ocellatus postflexion larvae	red drum	2	2	5.1	16.3	0.0	12.0
Tilapia spp. postflexion larvae	tilapias	1	1	11.3	13.7	0.0	11.0
Tilapia spp. juveniles	tilapias	3	3	9.5	7.6	0.1	22.8
Tilapia melanotheron juveniles	blackchin tilapia	7	3	12.7	14.7	0.1	61.7
Mugil cephalus juveniles	striped mullet	9	7	8.7	6.0	0.2	25.4
Mugil curema juveniles	white mullet	2	1	9.3	16.4	0.0	25.6
blenniid preflexion larvae	blennies	400	59	1.4	24.5	8.9	3004.3
Chasmodes saburrae flexion larvae	Florida blenny	187	16	2.0	23.4	4.2	1143.0
Chasmodes saburrae postflexion larvae	Florida blenny	95	19	2.4	22.5	2.0	407.1
Hypsoblennius spp. flexion larvae	blennies	1	1	9.3	10.9	0.0	13.3
Hypsoblennius spp. postflexion larvae	blennies	1	1	0.8	25.6	0.0	14.6
Lupinoblennius nicholsi flexion larvae	highfin blenny	3	2	3.4	21.4	0.1	31.4
Lupinoblennius nicholsi postflexion larvae	highfin blenny	5	2	2.2	21.5	0.1	44.9
gobiid eggs	gobies	1	1	12.7	0.8	0.0	14.6
gobiid preflexion larvae	gobies	16,720	218	3.7	21.2	357.0	42538.2
gobiid flexion larvae	gobies	9,381	204	6.2	18.6	205.5	11762.6
Bathygobius soporator preflexion larvae	frillfin goby	62	15	3.2	22.7	1.4	255.4
Bathygobius soporator flexion larvae	frillfin goby	57	16	2.4	20.4	1.2	219.8
Bathygobius soporator postflexion larvae	frillfin goby	69	7	12.0	14.3	1.8	1068.7
Gobionellus spp. postflexion larvae	gobies	1	1	11.3	5.8	0.0	14.4
Gobionellus oceanicus juveniles	highfin goby	1	1	4.4	6.2	0.0	13.2
Gobiosoma spp. postflexion larvae	gobies	32,849	185	9.3	17.2	674.5	79241.0
Gobiosoma bosc juveniles	naked goby	131	22	8.9	15.7	2.6	1041.4
Gobiosoma bosc adults	naked goby	20	12	3.8	2.9	0.4	63.4
Gobiosoma robustum juveniles	code goby	196	65	7.4	16.1	4.3	492.4
Microgobius spp. flexion larvae	gobies	594	85	5.2	19.7	11.4	1823.9
Microgobius spp. postflexion larvae	gobies	2,411	86	8.2	18.1	50.0	6104.6
Microgobius gulosus juveniles	clown goby	33	15	8.4	15.0	0.6	82.1
Microgobius gulosus adults	clown goby	10	7	7.4	18.4	0.3	108.8
Microgobius thalassinus juveniles	green goby	9	4	2.2	24.4	0.2	91.2
Achirus lineatus flexion larvae	lined sole	1	1	4.1	23.4	0.0	15.8

Table A1, page 6 of 6.

Plankton-net catch statistics (April 2000 through December 2004, n=684)

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	<i>Kmu</i> (km)	<i>Su</i> (psu)	Mean CPUE (No./10 ³ m ³)	Max CPUE (No./10 ³ m ³)
Achirus lineatus postflexion larvae	lined sole	2	2	0.8	26.6	0.0	14.6
Achirus lineatus juveniles	lined sole	1	1	1.2	0.4	0.0	12.9
Trinectes maculatus preflexion larvae	hogchoker	17	8	1.2	24.4	0.4	97.7
Trinectes maculatus flexion larvae	hogchoker	49	15	4.4	20.4	1.0	134.4
Trinectes maculatus postflexion larvae	hogchoker	232	80	5.9	15.0	4.9	221.8
Trinectes maculatus juveniles	hogchoker	233	84	7.9	6.1	4.7	345.8
Trinectes maculatus adults	hogchoker	6	6	7.4	2.9	0.1	14.5
anuran larvae	tadpoles	5	5	6.7	6.7	0.1	14.3

Table A2. Page 1 of 7.

Plankton net catch by month (April 2000 to December 2004).

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
foraminiferans	foraminiferans	0	26	0	0	0	0	1	0	0	0	1	0
Craspedacusta sowerbii	hydromedusa	0	2	9	17	2	0	0	0	0	1	36	196
Liriope tetraphylla	hydromedusa	0	0	2	12927	2288	3459	8	0	0	632	113	35
Clytia sp.	hydromedusa	0	1331	4087	44789	44567	136166	79590	43060	54	9007	1831	17566
medusa sp. c	hydromedusa	0	0	0	0	1	0	0	0	0	0	2	0
medusa sp. b	hydromedusa	0	0	0	0	2	0	0	0	0	0	0	2
Chrysaora quinquecirrha	sea nettle	0	0	0	0	13	0	3	0	0	0	0	0
Mnemiopsis mccradyi	comb jelly, ctenophore	4	69	6	3445	86	0	3102	25	0	0	0	0
Beroe ovata	sea walnut, ctenophore	0	0	0	2	1	0	0	0	0	0	0	0
turbellarians	flatworms	0	0	0	0	2	0	0	0	0	0	0	0
nematodes	roundworms, threadworms	0	2	0	0	0	0	0	0	0	0	0	0
polychaetes	sand worms, tube worms	334	842	510	647	12347	3095	4106	1531	2404	2030	1965	1350
oligochaetes	freshwater worms	50	97	56	3	4	70	150	147	93	83	3	5
hirudinoideans	leeches	3	2	4	3	4	1	4	6	16	12	0	1
cladocerans, Daphnia spp.	water fleas	24	0	56	19970	0	218	77	45	266	18	0	0
Bosmina sp.	water flea	0	1	0	0	0	0	0	0	0	5	0	0
Bosminopsis deitersi	water flea	0	0	0	9	0	0	0	0	0	0	0	0
Scaphroleberis kingi	water flea	1	1	0	0	0	0	0	0	1	1	0	0
Simocephalus vetulus	water flea	219	41	140	84	29	51	262	241	86	283	3	0
Ceriodaphnia sp.	water flea	0	3	0	55	0	25	0	0	0	10	2	0
Bunops sp.	water flea	1531	1	2	0	0	0	0	0	0	0	0	0
Grimaldina brazzai	water flea	2	0	0	0	0	0	0	0	0	0	0	0
Ilyocryptus sp.	water flea	4	1	7	0	3	497	104	835	205	125	0	0
Diaphanosoma brachyurum	water flea	0	0	33	0	0	0	0	1	7	18	0	0
Sida crystallina	water flea	158	26	188	8	0	10	88	33	23	12	6	1
Latona setifera	water flea	41	16	35	41	0	10	87	83	32	129	0	0
Penilia avirostris	water flea	1	0	0	0	0	1	0	0	0	0	0	0
Pseudosida bidentata	water flea	0	0	0	0	0	0	0	2	0	0	0	0
Latonopsis fasciculata	water flea	0	0	0	0	0	0	0	0	0	17	0	0
Anchistropus minor	water flea	1	0	0	0	0	0	0	0	0	0	0	0
Camptocercus rectirostris	water flea	2	0	0	0	0	0	0	0	0	0	0	0
Dadaya macrops	water flea	1	0	0	0	0	0	0	0	0	0	0	0
Euryalona occidentalis	water flea	0	0	0	0	0	6	0	0	0	0	0	0
Kurzia longirostris	water flea	0	0	2	0	0	0	0	0	0	0	0	0
Leydigia sp.	water flea	9	44	0	0	0	6	25	29	13	16	0	0
Eurycercus lamellatus	water flea	4	0	2	0	0	0	0	0	0	0	0	0
Evadne tergestina	water flea	0	0	0	123	2938	19	0	0	0	0	0	0
Squilla empusa larvae	mantis shrimp	0	4	6	111	17	2	1	1	0	3	0	0
decapod zoae	crab larvae	20763	40477	529116	1100803	229401	78187	7648	18394	14442	15135	274134	263621
decapod mysis	shrimp larvae	148	1805	6847	13519	6382	6366	499	2126	4057	1669	1041	1097
decapod megalopae	post-zoea crab larvae	332	941	23071	20357	736	758	20	225	840	1020	5636	11803
shrimps, unidentified postlarvae	shrimps	0	0	0	6	2	0	0	0	0	0	4	0
shrimps, unidentified juveniles	shrimps	0	0	0	0	0	0	0	0	0	0	3	0
penaeid metamorphs	penaeid shrimps	0	0	0	0	0	2	3	0	0	2	0	0
Farfantepenaeus duorarum juveniles	pink shrimp	0	0	0	1	0	0	0	1	0	0	0	0
Lucifer faxoni juveniles and adults	shrimp	6	0	0	536	486	898	25	507	55	3632	1393	7420
Leptochela serratorbita juveniles	combclaw shrimp	0	0	0	0	0	0	0	0	0	0	5	1
Leptochela serratorbita adults	combclaw shrimp	0	0	0	0	0	0	0	0	0	0	1	0

Table A2. Page 2 of 7.

Plankton net catch by month (April 2000 to December 2004).

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
Palaemonetes spp. postlarvae	grass shrimp	252	107	3108	1828	325	386	37	717	4024	118	755	980
Palaemonetes pugio juveniles	daggerblade grass shrimp	44	15	107	43	165	377	54	82	145	164	89	12
Palaemonetes pugio adults	daggerblade grass shrimp	7	1	36	46	197	72	51	47	29	28	8	4
Periclimenes spp. postlarvae	shrimps	0	0	0	9	5	3	0	1	0	3	5	8
alphaeid postlarvae	snapping shrimps	0	1	21	619	189	103	1	878	0	11	36	16
alphaeid juveniles	snapping shrimps	0	0	0	0	0	10	0	1	1	0	1	0
Alpheus viridari juveniles	snapping shrimp	0	0	0	0	0	0	0	0	0	0	0	1
Leptalpheus forceps juveniles	snapping shrimp	0	0	0	0	0	0	0	0	1	0	0	0
Hippolyte zostericola postlarvae	zostera shrimp	0	8	1	0	4	2	0	0	1	0	0	46
Latreutes parvulus postlarvae	sargassum shrimp	0	0	0	0	0	0	0	0	0	10	0	0
Tozeuma carolinense postlarvae	arrow shrimp	0	0	0	14	2	1	0	0	0	6	6	7
Tozeuma carolinense juveniles	arrow shrimp	0	0	0	0	0	0	0	0	0	0	2	1
Tozeuma carolinense adults	arrow shrimp	1	0	0	0	0	0	0	0	0	0	0	0
Ogyrides alphaerostris juveniles and adults	estuarine longeye shrimp	0	1	0	0	0	0	3	0	0	0	0	1
processid postlarvae	night shrimps	0	0	0	9	0	0	0	4	0	0	0	0
Ambidexter symmetricus juveniles	shrimp	0	0	0	0	0	0	0	0	0	1	0	0
Upogebia spp. postlarvae	mud shrimps	0	0	0	3	1	1	0	20	75	0	0	0
paguroid postlarvae	hermit crabs	0	0	0	0	0	0	0	0	0	9	0	0
paguroid juveniles	hermit crabs	0	2	0	1	0	0	0	0	0	0	0	0
porcellanid (not P. armatus) juveniles	porcelain crabs	0	0	0	0	1	0	0	0	0	0	0	0
Eucерamus praelongus juveniles	olivepit porcelain crab	0	0	0	0	0	0	2	0	0	3	3	0
Petrolisthes armatus juveniles	porcelain crab	0	0	0	176	14	100	83	236	6	109	7	1
Callinectes sapidus juveniles	blue crab	0	0	1	0	0	0	0	0	0	0	5	0
xanthid juveniles	mud crabs	0	2	9	0	0	1	0	0	2	1	1	0
Eurypanopeus depressus adults	flatback mud crab	0	0	0	0	1	0	0	0	0	0	0	0
Rhithropanopeus harrisi juveniles	Harris mud crab	7	0	0	2	14	3	2	1	0	0	0	0
Rhithropanopeus harrisi adults	Harris mud crab	0	0	0	1	1	2	0	0	0	0	0	0
Pinnixa sayana juveniles	pea crab	0	0	4	165	257	1584	69	24	30	508	82	21
unidentified Americamysis juveniles	opossum shrimps, mysids	420	344	13881	4085	2182	26	1	36	17	146	607	5892
Americamysis almyra	opossum shrimp, mysid	11788	2175	42904	47531	6777	455	3	203	100	1540	6119	17308
Americamysis bahia	opossum shrimp, mysid	61	0	0	137	1	17	0	2	7	0	12	0
Americamysis stucki	opossum shrimp, mysid	0	0	0	184	1	29	3	0	0	0	0	8
Bowmaniella dissimilis	opossum shrimp, mysid	27	0	1	1	1	0	0	0	0	0	13	75
Brasilomysis castroi	opossum shrimp, mysid	0	0	0	0	0	0	0	0	0	0	1	1
Spelaeomysis sp.	opossum shrimp, mysid	0	0	0	0	0	0	0	1	0	0	0	0
cumaceans	cumaceans	520	409	1263	948	3121	640	26	38	156	258	3326	4943
Sinelobus stanfordi	taenid	2	5	0	1	15	1	4	2	0	7	0	1
Hargeria rapax	taenid	2	1	12	1	1	1	1	0	4	0	1	1
isopod sp. a	isopod	0	0	0	0	0	0	0	0	0	0	1	0
Cyathura polita	isopod	1	0	1	1	1	0	0	0	1	2	4	0
Munna reynoldsi	isopod	7	0	8	1	3	0	0	0	5	9	1	0
epicaridean larvae	isopods	1	0	0	22	0	0	0	0	0	0	0	0
Probopyrus sp. (attached)	isopod	0	0	6	0	17	43	5	3	2	4	1	0
Anopsilana jonesi	isopod	3	1	1	1	5	7	11	1	6	27	7	3
cymothoid sp. a (Lironeca) juveniles	isopod	504	379	468	2509	5427	2677	741	184	44	272	914	701
cymothoid sp. b juveniles	isopod	0	5	0	0	0	1	0	0	0	0	0	0
cymothoid sp. c juveniles	isopod	0	0	0	1	3	1	0	0	0	0	0	0
cymothoid sp. d juveniles	isopod	0	0	0	0	0	0	0	0	0	0	1	0

Table A2. Page 3 of 7.

Plankton net catch by month (April 2000 to December 2004).

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
Cassinidea ovalis	isopod	40	8	39	130	196	36	58	40	865	727	104	36
Harrieta faxoni	isopod	0	0	0	0	0	1	0	0	0	0	0	0
Sphaeroma quadridentata	isopod	0	0	1	0	0	0	1	3	7	8	0	1
Sphaeroma terebrans	isopod	2	0	5	14	11	26	10	2	8	14	10	0
Edotea triloba	isopod	81	172	671	1592	1353	1304	18	64	206	260	2329	410
Erichsonella attenuata	isopod	0	0	0	0	1	3	1	1	0	0	0	0
amphipods, gammaridean	amphipods	2180	3619	14100	10761	2832	4106	215	6526	216	1412	2878	883
amphipods, caprellid	skeleton shrimps	3	12	72	125	440	610	1	3	0	0	0	1
cirriped nauplius stage	barnacles	12	65	0	87	10	0	6	0	0	0	0	6
cirriped cypris stage	barnacles	0	1	0	0	1	0	3	0	0	15	0	18
branchiurans, Argulus spp.	fish lice	0	0	0	3	5	12	6	6	11	9	2	0
unidentified harpacticoids	copepods	4	3	10	2	5	2	3	3	1	0	0	0
Ergasilus spp.	parasitic copepods	55	15	0	40	23	5	4	0	0	0	0	68
siphonostomatids	parasitic copepods	7	3	7	35	22	19	0	0	0	8	37	23
Monstrilla sp.	copepod	62	44	25	177	29	42	0	0	0	1	187	40
Cyclops spp.	copepods	489	24	2	3	36	42	10	12	5	16	1	42
Eucyclops speratus	copepod	4	7	0	0	0	0	0	0	0	0	0	0
Halicyclops sp.	copepod	0	0	0	0	0	0	0	0	1	0	0	0
Macrocyclus albidus	copepods	0	20	5	1	0	3	1	10	8	12	0	0
Mesocyclops edax	copepod	126	130	575	25613	4787	1496	6559	7499	4693	1207	206	646
Oithona spp.	copepods	0	0	0	24	4	0	0	1	0	0	1	0
Orthocyclops modestus	copepod	63	15	48	6	0	0	0	7	4	3	2	0
Saphirella spp.	copepods	0	0	0	0	1	1	1	1	0	6	0	0
unidentified calanoids	copepods	0	13	0	19185	10733	386	1240	0	0	0	0	0
paracalanids	copepods	1	0	0	3	0	0	29	259	0	1	12	0
Acartia tonsa	copepod	4424	3346	69515	16767	2439	662	4	1827	3	1091	526	5874
Calanopia americana	copepod	0	0	0	0	0	0	0	0	0	0	16	61
Centropages hamatus	copepod	7	0	0	0	0	0	0	2	0	0	0	0
Centropages velificatus	copepod	0	0	0	0	2	1	0	0	2	287	24	15
Diaptomus spp.	copepods	8	711	15	902	1	27	0	6	54	27	2	25
Eucalanus sp.	copepod	0	1	0	0	0	0	0	0	0	0	1	0
Labidocera aestiva	copepod	26	83	4751	1681	5631	687	5	984	404	11184	634	416
Osphranticum labronectum	copepod	26	5	15	9	0	0	1	3	0	1	0	1
Pseudodiaptomus coronatus	copepod	44	54	51	68	61	27	8	20	8	9	1469	62
Temora turbinata	copepod	0	0	0	0	2	0	0	0	0	0	0	1
Sarsiella zostericola	ostracod, seed shrimp	1	0	0	5	0	0	1	5	0	0	0	1
Parasterope pollex	ostracod, seed shrimp	23	5	4	75	72	26	0	1	2	11	6	23
ostracods, podocopid	ostracods, seed shrimps	16	32	20	20	11	74	34	120	46	132	6	5
collembolas, podurid	springtails	2	3	1	3	0	0	6	0	0	0	3	1
ephemeropteran larvae	mayflies	11	0	18	7	4	481	208	78	241	106	1	0
odonates, anisopteran larvae	dragonflies	0	0	0	0	0	10	5	6	4	10	0	0
odonates, zygopteran larvae	damselflies	0	0	3	6	0	30	7	9	8	12	5	0
hemipterans, belostomatid adults	giant water bugs	0	0	1	0	0	0	1	3	0	0	0	0
hemipterans, corixid juveniles	water boatmen	0	0	0	0	0	0	0	1	1	0	0	0
hemipterans, corixid adults	water boatmen	0	0	2	0	0	0	0	0	0	0	1	0
hemipterans, gerrid adults	water striders	0	0	0	8	13	0	0	0	1	2	0	0
hemipterans, pleid adults	pygmy backswimmers	0	0	0	0	0	2	0	0	0	0	0	0
neuropterans, Climacia spp. larvae	spongillafies	0	0	0	0	0	0	2	0	0	0	0	0

Table A2. Page 4 of 7.

Plankton net catch by month (April 2000 to December 2004).

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
coleopterans, curculionid adults	beetles	1	0	0	21	0	0	3	0	1	5	3	0
coleopterans, dytiscid larvae	predaceous diving beetles	0	0	0	0	0	0	2	2	0	0	0	0
coleopterans, noterid adults	burrowing water beetles	0	0	2	0	0	3	0	0	4	1	0	0
coleopterans, elmidae adults	riffle beetles	0	0	0	0	0	0	0	0	0	0	1	0
coleopterans, gyrinid larvae	whirligig beetles	0	0	0	0	0	0	0	0	0	1	0	0
coleopterans, noterid larvae	burrowing water beetles	0	0	0	0	0	0	0	3	0	0	0	0
coleopterans, dytiscid adults	predaceous diving beetles	0	0	0	0	0	0	0	2	1	1	0	0
coleopterans, scirtid larvae	marsh beetles	0	0	0	0	0	4	3	0	1	0	0	0
dipterans, pupae	flies, mosquitoes	54	23	223	182	64	310	738	1023	2650	1146	11	10
dipterans, ceratopogonid larvae	biting midges	1	1	2	0	0	0	14	8	5	7	0	0
dipteran, Chaoborus punctipennis larvae	phantom midge	101	71	273	305	408	5477	1202	2312	5223	1306	186	126
dipterans, chironomid larvae	midges	63	661	678	141	28	159	241	605	569	1196	25	22
dipterans, ephydrid larvae	shore flies	0	0	0	0	0	0	0	0	171	0	0	0
dipterans, stratiomyid larvae	soldier flies	0	0	0	0	0	1	4	4	0	0	0	0
dipterans, sciomyzid larvae	marsh flies	0	0	0	0	0	0	0	0	0	1	2	0
trichopteran larvae	caddisflies	1	2	18	8	2	6	12	23	90	68	0	1
lepidopterans, pyralid larvae	aquatic caterpillars	0	0	1	0	1	1	1	9	1	5	0	0
pycnogonids	sea spiders	0	0	0	0	1	0	0	0	0	0	0	0
Limulus polyphemus larvae	horseshoe crab	1	7	11	4	10	121	14	9	0	0	3	0
acarid	water mites	2	4	4	0	1	21	47	30	12	12	0	0
gastropods, prosobranch	snails	57	40	377	109	239	114	144	505	95	256	125	79
gastropods, opisthobranch	sea slugs	0	0	0	0	2	4	0	0	0	6	0	0
pelecypods	clams, mussels, oysters	12	18	16	185	45	46	31	150	11	45	90	31
Lolliguncula brevis juveniles	bay squid	4	1	7	0	18	7	0	0	0	1	8	28
brachiopod, Glottidia pyramidata larvae	lamp shell	0	0	0	2	460	16	0	0	1	3	124	0
chaetognaths, sagittid	arrow worms	980	82	410	10853	16119	4635	1848	10318	109	158	14068	11018
thaliaceans	salps	0	0	0	1	0	0	0	0	0	0	0	0
appendicularian, Oikopleura dioica	larvacean	2	67	0	94	104	2458	1	9	0	0	26	45
Elops saurus postflexion larvae	ladyfish	0	3	13	17	6	0	0	0	0	0	0	0
Elops saurus juveniles	ladyfish	0	0	0	2	0	0	0	0	0	0	0	0
Brevoortia spp. postflexion larvae	menhaden	2	24	1	63	18	0	0	0	0	0	0	0
Brevoortia spp. metamorphs	menhaden	2	3	24	1399	1766	151	5	0	0	0	0	0
Brevoortia patronus juveniles	gulf menhaden	0	0	0	3	7	25	14	0	0	0	0	0
Brevoortia smithi juveniles	yellowfin menhaden	0	0	1	2	23	72	18	0	0	0	0	0
Dorosoma spp. preflexion larvae	shads	0	0	2	5	0	0	0	0	0	0	0	0
Dorosoma spp. flexion larvae	shads	0	0	0	11	0	0	0	0	0	0	0	0
Dorosoma spp. postflexion larvae	shads	0	0	0	2	0	0	0	8	0	1	0	0
Dorosoma cepedianum juveniles	gizzard shad	0	0	0	0	0	2	0	0	0	0	0	0
Dorosoma petenense metamorphs	threadfin shad	0	0	0	0	0	1	0	1	0	0	0	0
Dorosoma petenense juveniles	threadfin shad	0	0	0	0	0	0	2	4	3	0	0	0
Anchoa spp. preflexion larvae	anchovies	0	0	855	3477	530	150	5	1088	9	0	0	0
Anchoa spp. flexion larvae	anchovies	0	0	45	2681	345	146	29	120	95	7	1	0
Anchoa hepsetus eggs	striped anchovy	0	0	1	0	0	0	0	0	0	0	0	0
Anchoa hepsetus postflexion larvae	striped anchovy	0	0	9	0	0	54	0	0	0	0	0	0
Anchoa hepsetus juveniles	striped anchovy	0	0	0	47	68	6	0	2	0	0	0	0
Anchoa mitchilli eggs	bay anchovy	0	0	43	133	0	0	0	0	3	0	0	0
Anchoa mitchilli postflexion larvae	bay anchovy	6	0	2	3097	445	137	14	117	21	9	2	7
Anchoa mitchilli juveniles	bay anchovy	4800	8872	1327	8409	18282	7683	1862	2003	685	5398	6051	9552

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Plankton net catch by month (April 2000 to December 2004).

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
Anchoa mitchilli adults	bay anchovy	56	8	42	19	25	14	68	84	44	49	5	11
Anchoa cubana juveniles	Cuban anchovy	0	0	0	4	0	0	0	0	0	0	0	0
Notropis spp. preflexion larvae	minnows	0	0	0	1	0	0	0	0	0	0	0	0
Notropis spp. flexion larvae	minnows	0	0	0	1	0	0	0	0	0	0	0	0
Notropis spp. juveniles	minnows	0	0	5	0	0	0	0	0	0	0	0	0
Ameiurus catus preflexion larvae	white catfish	0	0	0	0	0	0	0	0	0	1	0	0
Ameiurus catus juveniles	white catfish	0	0	0	0	0	0	0	1	2	3	0	0
Noturus gyrinus juveniles	tadpole madtom	0	0	0	0	0	0	0	1	0	0	0	0
Liposarcus spp. juveniles	suckermouth catfish	0	0	0	0	0	2	13	12	1	0	0	0
Opsanus beta juveniles	gulf toadfish	0	0	0	0	12	7	0	0	0	0	0	0
Opsanus beta adults	gulf toadfish	0	0	0	0	0	1	0	0	0	0	0	0
Gobiesox strumosus preflexion larvae	skilletfish	11	11	33	233	23	1	0	0	0	0	16	27
Gobiesox strumosus flexion larvae	skilletfish	9	2	96	267	20	1	0	0	0	0	63	17
Gobiesox strumosus postflexion larvae	skilletfish	32	0	66	1449	3	2	0	0	0	0	18	6
Gobiesox strumosus juveniles	skilletfish	42	79	98	420	17	6	0	2	0	0	9	49
Gobiesox strumosus adults	skilletfish	1	0	0	0	0	1	2	0	0	0	0	0
Strongylura spp. postflexion larvae	needlefishes	0	0	0	2	0	0	0	0	0	0	0	0
Cyprinodon variegatus postflexion larvae	sheepshead minnow	0	0	0	0	0	2	0	0	0	1	0	0
Cyprinodon variegatus juveniles	sheepshead minnow	0	0	0	0	0	0	1	0	0	0	0	0
Fundulus spp. eggs	killifishes	0	1	0	0	0	0	0	0	0	0	0	0
Fundulus spp. postflexion larvae	killifishes	0	0	0	0	0	1	0	0	0	0	0	0
Fundulus seminolis postflexion larvae	Seminole killifish	0	0	0	0	0	0	0	1	0	0	1	0
Fundulus seminolis juveniles	Seminole killifish	0	0	0	0	0	0	0	1	0	0	0	0
Fundulus grandis postflexion larvae	gulf killifish	0	3	0	1	0	2	5	0	0	0	0	0
Lucania parva postflexion larvae	rainwater killifish	0	0	0	0	0	0	0	2	1	2	0	0
Lucania parva juveniles	rainwater killifish	0	0	0	2	0	2	2	1	0	0	0	0
Lucania parva adults	rainwater killifish	0	0	0	0	0	0	0	1	0	0	0	0
Gambusia holbrooki juveniles	eastern mosquitofish	0	0	3	4	37	4	10	57	9	5	0	0
Gambusia holbrooki adults	eastern mosquitofish	2	0	0	3	88	1	1	3	6	0	1	0
Heterandria formosa juveniles	least killifish	0	0	0	0	0	1	0	0	0	0	0	0
Heterandria formosa adults	least killifish	0	0	0	0	0	0	0	1	0	0	0	0
Poecilia latipinna juveniles	sailfin molly	0	0	0	0	7	11	5	54	1	3	0	0
Menidia spp. eggs	silversides	0	4	0	14	0	17	0	0	0	0	0	0
Menidia spp. preflexion larvae	silversides	4	59	57	38	20	23	33	14	11	9	12	17
Menidia spp. flexion larvae	silversides	0	1	3	2	1	1	0	3	1	0	4	0
Menidia spp. postflexion larvae	silversides	0	0	9	4	2	0	0	1	0	0	0	0
Menidia spp. juveniles	silversides	2	0	9	40	87	63	17	13	1	0	1	0
Menidia spp. adults	silversides	0	0	0	0	6	0	1	1	0	1	0	0
Membras martinica juveniles	rough silverside	0	0	0	9	7	5	0	0	0	0	0	0
fish eggs, percomorph	sciaenid eggs (primarily)	0	7	7	51	2850	141	5	2	0	0	0	0
Syngnathus louisianae juveniles	chain pipefish	1	0	26	67	6	3	0	0	0	0	2	0
Syngnathus scovelli juveniles	gulf pipefish	4	5	19	44	17	8	0	1	0	0	3	0
Syngnathus scovelli adults	gulf pipefish	0	0	0	2	0	0	0	0	0	0	0	0
Lepomis spp. preflexion larvae	sunfishes	0	0	0	2	0	0	1	1	1	1	0	0
Lepomis spp. flexion larvae	sunfishes	0	0	0	8	0	0	0	0	2	0	0	0
Lepomis spp. juveniles	sunfishes	0	0	0	0	0	4	1	1	0	0	0	0
Lepomis gulosus postflexion larvae	warmouth	0	0	0	0	0	0	0	1	0	0	0	0
Lepomis gulosus juveniles	warmouth	0	0	0	0	0	0	0	1	0	0	0	0

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Plankton net catch by month (April 2000 to December 2004).

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Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (60)	May (60)	Jun (60)	Jul (60)	Aug (60)	Sep (60)	Oct (60)	Nov (60)	Dec (60)
Lepomis macrochirus postflexion larvae	bluegill	0	0	1	0	0	0	0	1	2	0	0	0
Lepomis macrochirus juveniles	bluegill	0	0	0	0	0	16	0	0	0	0	0	0
Lepomis auritus flexion larvae	redbreast sunfish	0	0	0	0	0	3	1	0	0	0	0	0
Lepomis punctatus postflexion larvae	spotted sunfish	0	0	0	0	0	0	0	1	0	0	0	0
Lepomis punctatus juveniles	spotted sunfish	0	0	0	0	0	0	0	2	0	0	0	0
Micropterus salmoides postflexion larvae	largemouth bass	0	0	1	1	0	0	0	0	0	0	0	0
Micropterus salmoides juveniles	largemouth bass	0	0	4	4	0	1	0	0	0	0	0	0
centrarchid preflexion larvae	sunfishes	0	0	0	0	0	2	0	0	0	0	0	0
Chloroscombrus chrysurus postflexion larvae	Atlantic bumper	0	0	0	0	0	0	0	0	0	1	0	0
Chloroscombrus chrysurus juveniles	Atlantic bumper	0	0	0	0	0	0	0	0	2	0	0	0
Oligoplites saurus postflexion larvae	leatherjack	0	0	0	0	0	1	0	0	0	0	0	0
Oligoplites saurus juveniles	leatherjack	0	0	0	0	1	3	6	2	0	1	0	0
gerreid postflexion larvae	mojaras	0	0	0	0	0	2	0	0	0	0	0	0
Diapterus plumieri postflexion larvae	striped mojarra	0	0	0	0	0	0	0	0	1	0	0	0
Diapterus plumieri juveniles	striped mojarra	0	0	0	0	0	0	1	0	0	0	0	0
Eucinostomus spp. juveniles	mojaras	0	0	0	0	0	0	0	0	0	0	1	0
Lagodon rhomboides juveniles	pinfish	1	2	5	0	0	0	0	0	0	0	0	1
Bairdiella chrysoura preflexion larvae	silver perch	0	0	0	3	0	0	0	0	0	0	0	0
Bairdiella chrysoura flexion larvae	silver perch	0	0	0	0	0	1	0	0	0	0	0	0
Bairdiella chrysoura postflexion larvae	silver perch	0	0	0	0	4	2	0	0	0	0	0	0
Bairdiella chrysoura juveniles	silver perch	0	0	0	1	1	0	2	2	0	0	0	0
Cynoscion arenarius preflexion larvae	sand seatrout	0	0	1	20	8	0	0	2	0	0	0	0
Cynoscion arenarius flexion larvae	sand seatrout	0	0	0	24	10	0	0	2	0	0	0	0
Cynoscion arenarius postflexion larvae	sand seatrout	0	0	2	25	1	8	0	2	15	1	0	0
Cynoscion arenarius juveniles	sand seatrout	0	0	0	6	16	11	0	1	7	5	1	1
Cynoscion nebulosus preflexion larvae	spotted seatrout	0	0	0	1	0	0	0	0	0	0	0	0
Cynoscion nebulosus flexion larvae	spotted seatrout	0	0	0	0	0	2	0	0	0	0	0	0
Cynoscion nebulosus postflexion larvae	spotted seatrout	0	0	0	0	1	0	0	0	0	0	0	0
Cynoscion nebulosus juveniles	spotted seatrout	0	0	0	0	0	0	0	0	1	0	0	0
Leiostomus xanthurus juveniles	spot	0	85	1	0	0	0	0	0	0	0	0	0
Menticirrhus spp. preflexion larvae	kingfishes	0	0	0	0	2	0	0	2	0	0	0	0
Menticirrhus spp. flexion larvae	kingfishes	0	0	0	0	0	1	0	0	0	0	0	0
Menticirrhus spp. postflexion larvae	kingfishes	0	0	0	2	0	1	0	0	0	2	0	0
Menticirrhus americanus juveniles	southern kingfish	0	0	0	0	0	0	0	0	0	1	0	0
Sciaenops ocellatus postflexion larvae	red drum	0	0	0	0	0	0	0	0	0	2	0	0
Tilapia spp. postflexion larvae	tilapias	0	0	0	0	0	0	0	1	0	0	0	0
Tilapia spp. juveniles	tilapias	0	0	0	1	1	0	1	0	0	0	0	0
Tilapia melanotheron juveniles	blackchin tilapia	0	0	0	0	5	0	1	1	0	0	0	0
Mugil cephalus juveniles	striped mullet	0	2	7	0	0	0	0	0	0	0	0	0
Mugil curema juveniles	white mullet	2	0	0	0	0	0	0	0	0	0	0	0
blenniid preflexion larvae	blennies	11	13	21	295	26	10	0	4	0	0	9	11
Chasmodes saburrae flexion larvae	Florida blenny	0	0	11	175	1	0	0	0	0	0	0	0
Chasmodes saburrae postflexion larvae	Florida blenny	2	0	8	72	10	1	0	0	0	0	0	2
Hypsoblennius spp. flexion larvae	blennies	0	0	0	1	0	0	0	0	0	0	0	0
Hypsoblennius spp. postflexion larvae	blennies	0	0	0	0	1	0	0	0	0	0	0	0
Lupinoblennius nicholsi flexion larvae	highfin blenny	1	0	0	0	2	0	0	0	0	0	0	0
Lupinoblennius nicholsi postflexion larvae	highfin blenny	0	0	0	3	0	0	0	0	0	0	0	2
gobiid eggs	gobies	0	0	0	1	0	0	0	0	0	0	0	0

Table A2. Page 7 of 7.

Plankton net catch by month (April 2000 to December 2004).

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gobiid preflexion larvae	gobies	11	180	5964	7332	2329	407	8	99	4	6	175	205
gobiid flexion larvae	gobies	49	144	2602	4384	849	572	21	183	8	3	248	318
Bathygobius soporator preflexion larvae	frillfin goby	0	0	1	41	14	3	0	0	0	0	3	0
Bathygobius soporator flexion larvae	frillfin goby	0	0	0	27	27	1	0	2	0	0	0	0
Bathygobius soporator postflexion larvae	frillfin goby	0	0	0	63	4	0	0	0	0	1	1	0
Gobionellus spp. postflexion larvae	gobies	0	1	0	0	0	0	0	0	0	0	0	0
Gobionellus oceanicus juveniles	highfin goby	0	0	0	0	0	0	0	0	0	1	0	0
Gobiosoma spp. postflexion larvae	gobies	1090	175	2963	26446	484	729	13	11	2	1	209	726
Gobiosoma bosc juveniles	naked goby	1	1	0	96	11	17	0	4	1	0	0	0
Gobiosoma bosc adults	naked goby	1	1	0	0	0	10	2	2	3	1	0	0
Gobiosoma robustum juveniles	code goby	1	1	9	78	30	14	3	5	45	6	1	3
Microgobius spp. flexion larvae	gobies	0	1	271	153	31	46	9	30	17	6	14	16
Microgobius spp. postflexion larvae	gobies	9	0	813	1302	24	106	3	30	4	6	64	50
Microgobius gulosus juveniles	clown goby	0	0	0	18	1	1	0	0	10	3	0	0
Microgobius gulosus adults	clown goby	0	0	0	5	0	1	3	0	1	0	0	0
Microgobius thalassinus juveniles	green goby	1	1	0	0	0	0	0	0	0	6	0	1
Achirus lineatus flexion larvae	lined sole	0	0	0	0	0	0	1	0	0	0	0	0
Achirus lineatus postflexion larvae	lined sole	0	0	0	0	2	0	0	0	0	0	0	0
Achirus lineatus juveniles	lined sole	0	0	0	0	0	0	0	0	1	0	0	0
Trinectes maculatus preflexion larvae	hogchoker	0	0	0	9	6	1	1	0	0	0	0	0
Trinectes maculatus flexion larvae	hogchoker	0	0	0	15	19	9	2	2	0	2	0	0
Trinectes maculatus postflexion larvae	hogchoker	0	0	0	34	18	78	13	3	55	27	3	1
Trinectes maculatus juveniles	hogchoker	2	1	4	15	3	16	18	23	45	91	13	2
Trinectes maculatus adults	hogchoker	0	0	1	0	0	1	1	3	0	0	0	0
anuran larvae	tadpoles	0	0	0	1	0	3	0	1	0	0	0	0

Table A3, page 1 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
foraminiferans	foraminiferans	0.00	0.00	0.00	0.19	0.00	0.00	0.00	5.60	0.00	0.00	0.00	0.00
Craspedacusta sowerbii	hydromedusa	0.22	0.00	0.00	0.00	0.00	1.51	1.27	5.07	14.97	6.11	14.45	21.73
Liriope tetraphylla	hydromedusa	506.54	2311.75	577.13	532.26	258.31	45.21	151.68	435.50	0.24	0.24	0.00	0.00
Clytia sp.	hydromedusa	2156.52	1665.64	2209.27	3757.81	35892.46	21989.01	25284.30	37335.04	20459.33	29117.03	13021.58	3835.71
medusa sp. c	hydromedusa	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.25	0.00
medusa sp. b	hydromedusa	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
Chrysaora quinquecirrha	sea nettle	0.24	0.25	0.00	0.00	1.63	0.00	1.74	0.50	0.00	0.80	0.00	0.00
Mnemiopsis mccradyi	comb jelly, ctenophore	284.49	447.26	400.97	182.65	93.84	96.97	85.56	0.25	0.00	0.51	0.00	0.00
Beroe ovata	sea walnut, ctenophore	0.00	0.00	0.27	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
turbellarians	flatworms	0.26	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nematodes	roundworms, threadworms	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
polychaetes	sand worms, tube worms	180.51	134.19	370.69	781.43	460.14	470.31	2925.44	1046.22	490.13	426.25	562.16	109.06
oligochaetes	freshwater worms	1.66	0.69	5.43	11.41	7.53	8.65	4.52	9.33	14.71	15.33	41.54	55.91
hirudinoideans	leeches	0.50	0.46	0.86	0.46	0.61	2.35	2.20	1.35	0.22	2.23	0.97	0.45
cladocerans, Daphnia spp.	water fleas	4.71	1.22	8.60	6.74	7.46	13.41	9.52	1326.37	1005.85	752.97	309.29	1242.62
Bosmina sp.	water flea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.75	0.28
Bosminopsis deitersi	water flea	0.00	0.00	0.00	0.00	0.00	1.25	0.94	0.00	0.00	0.00	0.00	0.00
Scaphroleberis kingi	water flea	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.27
Simocephalus vetulus	water flea	0.45	1.65	2.75	2.22	6.50	3.14	11.85	32.60	53.53	40.37	91.39	80.74
Ceriodaphnia sp.	water flea	0.00	0.00	0.00	0.00	2.41	0.00	0.66	0.88	3.98	10.10	2.02	1.31
Bunops sp.	water flea	0.25	0.83	7.85	2.59	19.96	2.69	18.93	45.24	54.25	80.66	40.45	66.01
Grimaldina brazzai	water flea	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.00	0.00
Ilyocryptus sp.	water flea	5.33	3.00	0.22	11.16	13.27	15.43	30.90	31.78	47.51	43.52	127.13	61.22
Diaphanosoma brachyurum	water flea	0.00	0.00	0.00	0.00	0.00	0.44	1.02	0.88	3.09	4.68	2.44	0.67
Sida crystallina	water flea	0.00	0.00	0.00	0.00	1.51	1.30	4.94	8.08	30.76	12.88	25.31	39.54
Latona setifera	water flea	0.25	0.26	0.88	2.06	1.74	2.17	8.15	15.02	8.21	6.11	32.69	29.71
Penilia avirostris	water flea	0.29	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Pseudosida bidentata	water flea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00
Latonopsis fasciculata	water flea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.48	1.65	1.73
Anchistropus minor	water flea	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
Camptocercus rectirostris	water flea	0.00	0.00	0.00	0.00	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Dadaya macrops	water flea	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Euryalona occidentalis	water flea	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00
Kurzia longirostris	water flea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
Leydigia sp.	water flea	0.00	0.00	0.00	0.47	0.67	0.69	1.81	2.42	3.43	1.28	9.49	12.99
Eurycercus lamellatus	water flea	0.00	0.00	0.22	0.00	0.22	0.00	0.23	0.00	0.24	0.00	0.25	0.25
Evadne tergestina	water flea	360.28	457.82	1.08	3.47	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Squilla empusa larvae	mantis shrimp	13.43	10.63	2.26	6.70	2.01	0.71	0.50	0.22	0.00	0.40	0.00	0.00
decapod zoeae	crab larvae	58308.78	73345.15	46546.38	37715.76	56811.95	52720.06	63760.71	104237.8	42206.19	42157.21	31109.40	27791.84
decapod mysis	shrimp larvae	916.84	1164.63	1324.50	970.10	825.09	916.33	1336.50	789.90	446.60	411.63	923.73	904.53
decapod megalopae	post-zoea crab larvae	270.76	224.26	659.14	1033.47	3462.57	2976.96	1228.99	2692.36	470.56	396.74	1063.95	774.78
shrimps, unidentified postlarvae	shrimps	1.57	0.25	0.00	0.71	0.00	0.22	0.00	0.19	0.00	0.00	0.00	0.00
shrimps, unidentified juveniles	shrimps	0.00	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
penaeid metamorphs	penaeid shrimps	0.00	0.26	0.00	0.26	0.00	1.81	0.00	0.23	0.00	0.00	0.00	0.00

Table A3, page 2 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Farfantepenaeus duorarum juveniles	pink shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.21
Lucifer faxoni juveniles and adults	shrimp	1808.58	1435.43	241.30	139.28	18.34	13.21	15.44	2.39	0.00	0.00	0.00	0.00
Leptochela serratorbita juveniles	combclaw shrimp	0.25	0.00	0.00	0.47	0.22	0.00	0.00	0.43	0.00	0.00	0.00	0.00
Leptochela serratorbita adults	combclaw shrimp	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
Palaemonetes spp. postlarvae	grass shrimp	218.21	327.17	874.39	133.33	235.79	313.23	345.40	93.92	14.39	15.59	126.91	67.82
Palaemonetes pugio juveniles	daggerblade grass shrimp	6.00	5.59	12.63	12.53	11.73	25.22	19.04	33.80	111.43	108.17	31.18	28.81
Palaemonetes pugio adults	daggerblade grass shrimp	1.18	1.98	3.25	3.08	3.77	6.70	8.00	6.68	16.48	16.64	20.49	34.89
Periclimenes spp. postlarvae	shrimps	2.81	1.47	0.27	1.82	0.21	1.11	0.00	0.00	0.00	0.00	0.00	0.60
alphaeid postlarvae	snapping shrimps	261.83	152.59	56.09	11.46	0.97	3.73	0.00	1.01	0.00	0.40	0.00	0.00
alphaeid juveniles	snapping shrimps	0.26	2.57	0.00	0.24	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Alpheus viridari juveniles	snapping shrimp	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Leptalpheus forceps juveniles	snapping shrimp	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hippolyte zostericola postlarvae	zostera shrimp	4.65	5.13	3.95	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Latreutes parvulus postlarvae	sargassum shrimp	1.60	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tozeuma carolinense postlarvae	arrow shrimp	0.99	5.81	0.91	1.14	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Tozeuma carolinense juveniles	arrow shrimp	0.00	0.21	0.00	0.00	0.00	0.00	0.21	0.22	0.00	0.00	0.00	0.00
Tozeuma carolinense adults	arrow shrimp	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ogyrides alphaerostris juveniles and adults	estuarine longeye shrimp	0.72	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
processid postlarvae	night shrimps	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ambidexter symmetricus juveniles	shrimp	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Upogebia spp. postlarvae	mud shrimps	1.82	2.17	1.58	2.57	2.45	12.74	0.00	0.00	0.00	0.00	0.00	0.00
paguroid postlarvae	hermit crabs	0.53	0.26	1.15	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
paguroid juveniles	hermit crabs	0.51	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
porcellanid (not P. armatus) juveniles	porcelain crabs	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eucramus praelongus juveniles	olivepit porcelain crab	0.26	1.14	0.23	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Petrolisthes armatus juveniles	porcelain crab	85.18	37.23	28.16	12.42	9.68	7.62	3.55	1.32	0.00	0.00	0.00	0.00
Callinectes sapidus juveniles	blue crab	0.24	0.00	0.00	0.26	0.22	0.21	0.00	0.41	0.00	0.00	0.00	0.00
xanthid juveniles	mud crabs	0.00	0.47	0.47	53.48	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Eurypanopeus depressus adults	flatback mud crab	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rhithropanopeus harrisi juveniles	Harris mud crab	0.00	0.00	3.48	1.14	0.63	0.00	0.00	0.20	0.44	0.00	0.00	1.26
Rhithropanopeus harrisi adults	Harris mud crab	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.19	0.22	0.00	0.00
Pinnixa sayana juveniles	pea crab	103.07	158.12	124.78	141.45	89.03	35.17	12.39	1.74	0.68	0.00	0.25	0.00
unidentified Americamysis juveniles	opossum shrimps, mysids	567.91	326.54	850.59	1736.43	1217.97	905.77	387.35	268.03	59.61	33.35	71.66	3.17
Americamysis almyra	opossum shrimp, mysid	1234.72	893.44	2032.16	2678.53	6236.08	3477.81	1820.31	6902.65	1950.54	1324.69	2426.91	1113.52
Americamysis bahia	opossum shrimp, mysid	16.03	4.63	14.45	7.38	10.49	6.19	0.00	0.00	0.00	0.00	0.00	2.05
Americamysis stucki	opossum shrimp, mysid	7.35	18.49	14.00	1.85	4.72	12.26	0.00	0.00	0.00	0.00	0.00	0.00
Bowmaniella dissimilis	opossum shrimp, mysid	0.23	0.97	3.28	3.08	4.89	11.38	1.34	0.65	0.00	0.21	0.00	0.00
Brasilomysis castroi	opossum shrimp, mysid	0.21	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
Spelaeomysis sp.	opossum shrimp, mysid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
cumaceans	cumaceans	693.16	1389.33	769.26	476.16	167.77	98.30	39.46	16.11	12.94	11.54	5.57	6.60
Sinelobus stanfordi	tanaid	1.39	0.44	5.18	0.86	0.44	0.42	0.19	0.00	0.00	0.23	0.00	0.00
Hargeria rapax	tanaid	1.19	0.71	0.94	0.41	0.41	1.00	0.56	0.00	0.00	0.00	0.00	0.22
isopod sp. a	isopod	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyathura polita	isopod	0.00	1.76	0.20	0.00	0.00	0.46	0.00	0.00	0.20	0.00	0.00	0.00

Table A3, page 3 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Munna reynoldsi	isopod	0.00	1.18	0.00	0.47	0.70	0.24	0.46	0.22	0.48	0.44	2.29	1.39
epicaridean larvae	isopods	0.00	0.24	6.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Probopyrus sp. (attached)	isopod	0.00	0.43	0.29	0.46	0.73	0.46	1.50	1.08	12.69	10.76	0.89	1.86
Anopsilana jonesi	isopod	0.49	0.68	3.23	0.67	1.57	0.64	2.34	2.74	3.19	1.89	0.76	0.28
cymothoid sp. a (Lironeca) juveniles	isopod	208.34	249.52	294.24	343.74	387.35	418.21	438.58	311.19	337.48	306.27	196.06	196.72
cymothoid sp. b juveniles	isopod	0.00	0.00	0.21	0.44	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cymothoid sp. c juveniles	isopod	0.23	0.00	0.00	0.21	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.43
cymothoid sp. d juveniles	isopod	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00
Cassidinidea ovalis	isopod	3.98	1.68	22.71	31.05	32.76	29.93	44.03	29.35	41.59	63.09	98.89	128.55
Harrieta faxoni	isopod	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sphaeroma quadridentata	isopod	2.01	2.21	0.46	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.21
Sphaeroma terebrans	isopod	0.71	0.96	2.17	2.69	2.35	1.06	0.70	1.54	2.96	1.58	2.32	3.69
Edotea triloba	isopod	141.12	117.81	344.81	447.62	453.74	249.23	124.78	45.28	4.17	5.61	2.39	2.74
Erichsonella attenuata	isopod	0.48	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
amphipods, gammaridean	amphipods	540.11	839.03	1377.86	1887.72	11173.52	1758.67	1839.77	349.94	38.54	25.41	114.02	43.91
amphipods, caprellid	skeleton shrimps	40.61	122.00	48.42	71.99	5.39	2.79	0.00	1.10	0.24	0.46	0.00	0.00
cirriped nauplius stage	barnacles	8.07	29.44	0.26	0.00	1.13	0.47	0.00	0.21	0.22	7.92	1.11	0.00
cirriped cypris stage	barnacles	0.48	0.74	3.18	0.75	0.96	1.58	0.00	0.23	0.00	0.00	0.00	0.00
branchiurans, Argulus spp.	fish lice	0.23	0.00	2.37	0.24	0.63	0.64	1.54	0.64	1.17	1.15	1.92	1.48
unidentified harpacticoids	copepods	0.22	0.90	0.21	53.50	0.00	1.68	0.22	0.85	0.42	0.00	0.76	0.21
Ergasilus spp.	parasitic copepods	0.26	0.00	0.00	0.00	0.73	4.46	3.38	7.10	11.26	3.25	21.85	0.23
siphonostomatids	parasitic copepods	8.62	11.42	4.08	3.37	2.09	3.20	1.22	1.09	2.54	2.12	0.00	0.00
Monstrilla sp.	copepod	50.86	70.26	4.76	11.39	3.26	0.84	0.22	0.00	0.00	0.00	0.00	0.00
Cyclops spp.	copepods	0.22	0.26	0.69	0.67	1.36	8.66	4.00	27.39	96.01	7.74	17.95	2.45
Eucyclops speratus	copepod	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.24	0.49	1.22	0.48
Halicyclops sp.	copepod	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Macrocyclus albidus	copepods	1.26	0.67	0.00	0.00	0.73	0.00	0.68	0.67	1.07	1.23	4.00	3.91
Mesocyclops edax	copepod	6.42	18.67	21.71	28.00	60.50	68.41	685.04	1030.35	2260.61	2138.32	3507.52	2520.04
Oithona spp.	copepods	0.21	0.00	0.22	0.00	0.46	6.28	0.21	0.20	0.00	0.00	0.00	0.00
Orthocyclops modestus	copepod	0.25	0.00	0.67	0.00	2.25	0.45	0.89	3.54	5.03	3.15	7.06	9.69
Saphirella spp.	copepods	0.26	0.00	0.00	0.26	0.45	1.26	0.00	0.00	0.00	0.00	0.00	0.00
unidentified calanoids	copepods	3102.85	2577.88	1568.32	1999.99	120.06	70.51	19.54	0.00	0.43	0.00	0.49	0.00
paracalanids	copepods	11.03	2.28	0.46	86.52	163.51	20.03	0.00	0.00	0.00	0.00	0.00	0.00
Acartia tonsa	copepod	2308.75	4804.38	950.47	2176.96	1923.90	1325.07	1058.33	9821.18	149.31	31.06	31.61	2.62
Calanopia americana	copepod	0.69	2.38	4.16	2.06	7.55	0.23	0.21	0.00	0.00	0.00	0.00	0.00
Centropages hamatus	copepod	1.40	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centropages velificatus	copepod	48.38	37.59	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaptomus spp.	copepods	0.00	2.31	1.46	3.42	1.58	41.24	30.91	50.36	157.95	82.82	19.10	13.51
Eucalanus sp.	copepod	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
Labidocera aestiva	copepod	4628.95	1885.16	119.13	29.90	7.60	4.27	2.40	0.23	0.00	0.00	0.25	0.00
Osphranticum labronectum	copepod	0.00	0.00	0.00	0.00	0.22	0.45	0.85	0.44	2.10	1.35	2.20	6.03
Pseudodiaptomus coronatus	copepod	17.05	22.15	81.18	59.97	63.53	75.06	79.99	5.89	3.35	1.51	0.46	0.21
Temora turbinata	copepod	0.26	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sarsiella zostericola	ostracod, seed shrimp	0.71	1.21	0.00	0.00	0.48	0.52	0.22	0.00	0.00	0.00	0.00	0.00

Table A3, page 4 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Parasterope pollex	ostracod, seed shrimp	9.04	4.87	27.19	16.02	2.14	0.84	0.41	0.22	0.00	0.00	0.00	0.00
ostracods, podocopid	ostracods, seed shrimps	1.72	6.27	11.53	18.64	6.95	3.68	6.54	6.68	21.31	12.15	15.37	5.82
collembolas, podurid	springtails	0.25	0.00	0.00	0.00	0.21	0.19	0.00	0.00	0.89	0.00	0.67	2.39
ephemeropteran larvae	mayflies	2.46	0.70	2.53	11.40	13.52	8.68	14.78	14.72	26.55	22.69	39.44	90.51
odonates, anisopteran larvae	dragonflies	0.23	0.67	0.59	0.00	0.82	0.24	0.64	0.87	0.90	1.31	0.50	0.87
odonates, zygopteran larvae	damselflies	0.45	0.00	0.20	0.88	0.41	0.22	2.20	0.22	4.88	2.20	3.92	1.37
hemipterans, belostomatid adults	giant water bugs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.95
hemipterans, corixid juveniles	water boatmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
hemipterans, corixid adults	water boatmen	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.20	0.22	0.00	0.00	0.00
hemipterans, gerrid adults	water striders	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.52	4.21
hemipterans, pleid adults	pygmy backswimmers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00
neuropterans, Climacia spp. larvae	spongillaflies	0.00	0.00	0.00	0.00	0.21	0.22	0.00	0.00	0.00	0.00	0.00	0.00
coleopterans, curculionid adults	beetles	0.00	0.21	0.00	0.19	0.21	0.22	0.00	4.84	0.22	0.49	0.64	0.90
coleopterans, dytiscid larvae	predaceous diving beetles	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.42	0.00	0.00
coleopterans, noterid adults	burrowing water beetles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.23	0.00	1.23
coleopterans, elmid adults	riffle beetles	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
coleopterans, gyrinid larvae	whirligig beetles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
coleopterans, noterid larvae	burrowing water beetles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
coleopterans, dytiscid adults	predaceous diving beetles	0.00	0.00	0.00	0.00	0.00	0.24	0.19	0.19	0.00	0.00	0.24	0.00
coleopterans, scirtid larvae	marsh beetles	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.21	0.00	1.30
dipterans, pupae	flies, mosquitoes	11.75	9.38	47.45	168.09	103.88	114.25	150.00	91.02	120.60	146.95	194.00	305.58
dipterans, ceratopogonid larvae	biting midges	0.00	0.00	0.00	0.84	0.46	0.00	0.19	0.21	1.31	0.53	2.27	3.04
dipteran, Chaoborus punctipennis larvae	phantom midge	48.20	44.78	56.61	81.99	105.80	178.31	124.19	147.12	309.23	420.77	912.34	1320.02
dipterans, chironomid larvae	midges	4.72	11.16	20.30	39.03	23.97	21.12	45.80	53.13	148.89	157.36	190.34	293.83
dipterans, ephydrid larvae	shore flies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	41.78	0.00	0.00	0.00
dipterans, stratiomyid larvae	soldier flies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	1.22	0.00	0.23
dipterans, sciomyzid larvae	marsh flies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.26	0.00	0.00	0.28
trichopteran larvae	caddisflies	1.84	0.00	0.22	1.12	1.57	2.24	7.27	6.25	5.24	7.04	13.19	6.96
lepidopterans, pyralid larvae	aquatic caterpillars	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.40	1.27	0.66	0.00	1.63
pycnogonids	sea spiders	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Limulus polyphemus larvae	horseshoe crab	11.87	15.42	6.79	5.66	1.75	0.90	0.40	0.00	0.00	0.00	0.00	0.00
acari	water mites	1.15	0.49	0.44	1.52	0.62	0.45	1.94	3.22	2.19	5.79	3.03	9.85
gastropods, prosobranch	snails	10.12	29.86	43.87	22.54	20.72	15.42	13.34	14.47	72.79	126.15	48.79	67.32
gastropods, opisthobranch	sea slugs	1.80	0.69	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
pelecypods	clams, mussels, oysters	29.82	34.27	5.30	5.39	13.48	8.94	17.17	14.41	8.49	8.83	9.78	10.68
Lolliguncula brevis juveniles	bay squid	4.54	5.50	1.45	2.86	1.37	0.21	0.41	0.47	0.00	0.00	0.33	0.00
brachiopod, Glottidia pyramidata larvae	lamp shell	72.60	43.70	0.00	0.00	0.00	0.22	0.00	0.47	0.00	26.55	0.00	0.00
chaetognaths, sagittid	arrow worms	4651.20	5252.30	2153.97	1849.70	1314.09	951.84	351.86	561.11	279.51	96.26	171.14	42.84
thaliaceans	salps	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
appendicularian, Oikopleura dioica	larvacean	669.71	109.15	2.76	1.33	1.50	2.80	0.22	2.26	0.21	0.00	0.00	0.00
Elops saurus postflexion larvae	ladyfish	0.48	0.23	0.20	0.22	0.22	0.43	1.00	0.68	0.22	0.94	3.05	1.40
Elops saurus juveniles	ladyfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00
Brevoortia spp. postflexion larvae	menhaden	0.00	0.86	1.75	2.56	1.65	2.65	8.60	0.23	1.47	2.89	0.75	1.95
Brevoortia spp. metamorphs	menhaden	0.94	0.24	1.60	1.96	5.20	40.49	80.18	135.08	217.63	89.63	99.91	97.62

Table A3, page 5 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Brevoortia patronus juveniles	gulf menhaden	0.00	0.00	0.00	0.00	0.00	0.52	0.46	0.89	4.28	3.72	1.19	0.46
Brevoortia smithi juveniles	yellowfin menhaden	0.00	0.00	0.00	0.21	0.21	1.61	3.82	1.92	14.07	4.89	0.93	0.77
Dorosoma spp. preflexion larvae	shads	0.00	0.00	0.00	0.43	0.00	0.25	0.00	0.00	0.00	0.23	0.77	0.00
Dorosoma spp. flexion larvae	shads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	2.08	0.26	0.00
Dorosoma spp. postflexion larvae	shads	0.00	0.00	0.00	0.20	0.21	0.00	0.00	0.21	0.45	0.67	0.20	0.41
Dorosoma cepedianum juveniles	gizzard shad	0.23	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
Dorosoma petenense metamorphs	threadfin shad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.20	0.00
Dorosoma petenense juveniles	threadfin shad	0.26	0.00	0.47	0.00	0.00	0.34	0.43	0.22	0.23	0.22	0.00	0.22
Anchoa spp. preflexion larvae	anchovies	561.41	710.70	89.02	61.51	82.40	46.66	2.13	3.97	0.00	1.90	0.00	0.00
Anchoa spp. flexion larvae	anchovies	236.06	221.16	198.55	72.20	70.30	54.23	2.86	14.33	14.06	10.59	8.77	12.71
Anchoa hepsetus eggs	striped anchovy	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Anchoa hepsetus postflexion larvae	striped anchovy	4.52	1.79	2.15	3.78	1.78	0.47	0.00	0.00	0.00	0.00	0.00	0.00
Anchoa hepsetus juveniles	striped anchovy	12.76	4.35	0.61	2.68	5.14	1.75	0.00	0.23	0.00	0.00	0.25	0.00
Anchoa mitchilli eggs	bay anchovy	29.30	11.26	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Anchoa mitchilli postflexion larvae	bay anchovy	116.19	319.94	56.55	69.14	54.13	39.90	5.02	87.03	10.95	10.11	239.94	19.20
Anchoa mitchilli juveniles	bay anchovy	622.34	1298.47	1913.64	2028.16	1806.61	3506.99	2180.43	1580.18	1363.71	689.33	340.42	98.18
Anchoa mitchilli adults	bay anchovy	4.37	4.40	7.42	22.60	6.41	10.05	10.11	9.79	10.28	3.94	6.74	0.00
Anchoa cubana juveniles	Cuban anchovy	0.00	0.29	0.24	0.22	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
Notropis spp. preflexion larvae	minnows	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00
Notropis spp. flexion larvae	minnows	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Notropis spp. juveniles	minnows	0.00	0.00	0.00	0.22	0.22	0.00	0.43	0.00	0.00	0.22	0.00	0.00
Ameiurus catus preflexion larvae	white catfish	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ameiurus catus juveniles	white catfish	0.00	0.00	0.22	0.00	0.00	0.00	0.23	0.68	0.00	0.23	0.00	0.00
Noturus gyrinus juveniles	tadpole madtom	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
Liposarcus spp. juveniles	suckermouth catfish	0.23	0.00	0.00	0.00	0.25	0.00	0.00	0.42	0.48	0.65	3.97	0.46
Opsanus beta juveniles	gulf toadfish	0.00	0.00	0.23	1.69	0.46	1.51	0.20	0.00	0.00	0.00	0.00	0.00
Opsanus beta adults	gulf toadfish	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gobiesox strumosus preflexion larvae	skilletfish	26.57	19.61	18.87	8.98	3.91	7.57	1.36	1.12	0.00	0.00	0.00	0.00
Gobiesox strumosus flexion larvae	skilletfish	42.33	32.77	13.03	7.65	6.46	8.67	3.44	0.65	0.00	0.00	0.00	0.00
Gobiesox strumosus postflexion larvae	skilletfish	342.12	23.25	6.97	5.17	14.09	8.11	0.45	0.00	0.00	0.00	7.78	0.00
Gobiesox strumosus juveniles	skilletfish	17.19	19.02	21.33	21.85	32.26	25.04	13.30	15.02	1.69	0.22	0.00	0.00
Gobiesox strumosus adults	skilletfish	0.00	0.00	0.72	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strongylura spp. postflexion larvae	needlefishes	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyprinodon variegatus postflexion larvae	sheepshead minnow	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
Cyprinodon variegatus juveniles	sheepshead minnow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
Fundulus spp. eggs	killifishes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
Fundulus spp. postflexion larvae	killifishes	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fundulus seminolis postflexion larvae	Seminole killifish	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Fundulus seminolis juveniles	Seminole killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
Fundulus grandis postflexion larvae	gulf killifish	0.00	0.00	0.51	0.00	0.00	0.21	0.23	0.43	0.45	0.83	0.00	0.00
Lucania parva postflexion larvae	rainwater killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.45	0.21
Lucania parva juveniles	rainwater killifish	0.00	0.00	0.20	0.00	0.00	0.21	0.00	0.21	0.00	0.24	0.00	0.65
Lucania parva adults	rainwater killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
Gambusia holbrooki juveniles	eastern mosquitofish	0.00	0.23	0.49	0.00	0.00	0.23	0.65	0.92	2.29	1.76	4.41	16.85

Table A3, page 6 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Gambusia holbrooki adults	eastern mosquitofish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.21	1.89	20.62
Heterandria formosa juveniles	least killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
Heterandria formosa adults	least killifish	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
Poecilia latipinna juveniles	sailfin molly	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.21	5.73	1.62	4.17	6.34
Menidia spp. eggs	silversides	0.00	0.00	0.00	0.00	2.61	3.61	0.22	0.00	0.22	0.00	1.24	0.22
Menidia spp. preflexion larvae	silversides	2.15	0.97	2.27	1.08	2.58	1.95	2.36	4.18	10.28	7.33	17.29	17.03
Menidia spp. flexion larvae	silversides	0.00	0.00	0.20	0.20	0.24	0.00	0.70	0.25	0.25	0.83	0.74	0.21
Menidia spp. postflexion larvae	silversides	0.00	0.25	0.20	0.22	0.67	0.00	0.56	0.25	0.00	0.47	0.00	0.87
Menidia spp. juveniles	silversides	0.00	0.57	0.00	0.22	1.11	0.64	2.73	1.85	16.86	4.10	7.10	19.18
Menidia spp. adults	silversides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.58
Membras martinica juveniles	rough silverside	0.45	0.20	0.27	0.50	0.70	1.13	1.55	0.00	0.00	0.00	0.00	0.00
fish eggs, percomorph	sciaenid eggs (primarily)	110.87	723.74	1.35	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Syngnathus louisianae juveniles	chain pipefish	1.57	4.80	3.20	1.83	5.11	4.73	1.90	0.95	0.00	0.00	0.29	0.00
Syngnathus scovelli juveniles	gulf pipefish	0.96	4.08	3.12	0.88	3.67	4.22	3.74	1.57	0.46	0.24	0.23	0.00
Syngnathus scovelli adults	gulf pipefish	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lepomis spp. preflexion larvae	sunfishes	0.00	0.00	0.20	0.00	0.00	0.22	0.00	0.22	0.24	0.23	0.26	0.00
Lepomis spp. flexion larvae	sunfishes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.47	1.39	0.24	0.00
Lepomis spp. juveniles	sunfishes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.18	0.00	0.87	0.00
Lepomis gulosus postflexion larvae	warmouth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Lepomis gulosus juveniles	warmouth	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lepomis macrochirus postflexion larvae	bluegill	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.22	0.24	0.00
Lepomis macrochirus juveniles	bluegill	0.00	0.22	0.39	0.44	0.40	0.43	0.00	0.59	0.18	0.21	0.43	0.00
Lepomis auritus flexion larvae	redbreast sunfish	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.60
Lepomis punctatus postflexion larvae	spotted sunfish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
Lepomis punctatus juveniles	spotted sunfish	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.20	0.00
Micropterus salmoides postflexion larvae	largemouth bass	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Micropterus salmoides juveniles	largemouth bass	0.00	0.00	0.00	0.00	0.00	0.22	0.24	0.00	0.41	0.46	0.43	0.21
centrarchid preflexion larvae	sunfishes	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroscombrus chrysurus postflexion larvae	Atlantic bumper	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroscombrus chrysurus juveniles	Atlantic bumper	0.00	0.24	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oligoplites saurus postflexion larvae	leatherjack	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oligoplites saurus juveniles	leatherjack	1.13	1.92	0.20	0.69	0.00	0.00	0.20	0.00	0.19	0.00	0.00	0.00
gerreid postflexion larvae	mojaras	0.00	0.00	0.00	0.26	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
Diapterus plumieri postflexion larvae	striped mojarra	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Diapterus plumieri juveniles	striped mojarra	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eucinostomus spp. juveniles	mojarra	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Lagodon rhomboides juveniles	pinfish	0.00	0.23	0.23	0.00	0.22	0.81	0.00	0.00	0.25	0.00	0.25	0.00
Bairdiella chrysoura preflexion larvae	silver perch	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bairdiella chrysoura flexion larvae	silver perch	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bairdiella chrysoura postflexion larvae	silver perch	0.00	1.07	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bairdiella chrysoura juveniles	silver perch	1.10	0.28	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cynoscion arenarius preflexion larvae	sand seatrout	2.51	1.71	0.66	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cynoscion arenarius flexion larvae	sand seatrout	1.03	2.85	0.65	1.85	0.00	2.36	0.00	0.19	0.00	0.00	0.00	0.00
Cynoscion arenarius postflexion larvae	sand seatrout	4.23	2.25	0.46	1.14	0.48	0.00	0.00	4.63	0.00	0.00	0.00	0.00

Table A3, page 7 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Cynoscion arenarius juveniles	sand seatrout	1.02	1.99	2.22	1.69	1.78	0.87	1.05	0.24	0.00	0.00	0.00	0.00
Cynoscion nebulosus preflexion larvae	spotted seatrout	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
Cynoscion nebulosus flexion larvae	spotted seatrout	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cynoscion nebulosus postflexion larvae	spotted seatrout	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
Cynoscion nebulosus juveniles	spotted seatrout	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Leiostomus xanthurus juveniles	spot	0.23	0.00	0.46	0.00	5.20	8.49	0.88	2.14	0.51	0.72	0.00	0.00
Menticirrhus spp. preflexion larvae	kingfishes	0.26	0.24	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menticirrhus spp. flexion larvae	kingfishes	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menticirrhus spp. postflexion larvae	kingfishes	0.53	0.00	0.45	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Menticirrhus americanus juveniles	southern kingfish	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sciaenops ocellatus postflexion larvae	red drum	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tilapia spp. postflexion larvae	tilapias	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Tilapia spp. juveniles	tilapias	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.23	0.00	0.40	0.00	0.00
Tilapia melanotheron juveniles	blackchin tilapia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.20	1.08
Mugil cephalus juveniles	striped mullet	0.00	0.00	0.23	0.00	0.43	0.00	0.19	0.20	0.45	0.43	0.00	0.00
Mugil curema juveniles	white mullet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
blenniid preflexion larvae	blennies	28.00	68.86	3.86	3.61	1.74	0.67	0.44	0.00	0.00	0.00	0.00	0.00
Chasmodes saburrae flexion larvae	Florida blenny	9.42	26.27	9.41	3.85	0.62	0.48	0.00	0.00	0.00	0.00	0.00	0.00
Chasmodes saburrae postflexion larvae	Florida blenny	5.88	9.55	2.90	3.37	1.89	0.22	0.21	0.00	0.00	0.00	0.00	0.00
Hypsoblennius spp. flexion larvae	blennies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
Hypsoblennius spp. postflexion larvae	blennies	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lupinoblennius nicholsi flexion larvae	highfin blenny	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Lupinoblennius nicholsi postflexion larvae	highfin blenny	0.79	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
gobiid eggs	gobies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
gobiid preflexion larvae	gobies	303.34	1403.32	898.93	763.43	276.43	317.90	65.65	185.28	18.10	12.80	12.03	26.62
gobiid flexion larvae	gobies	252.28	292.10	252.64	359.77	108.41	279.46	144.67	329.23	51.63	56.65	185.14	153.91
Bathygobius soporator preflexion larvae	frillfin goby	2.46	6.21	0.54	1.57	5.61	0.00	0.22	0.00	0.00	0.00	0.00	0.00
Bathygobius soporator flexion larvae	frillfin goby	4.28	4.82	1.39	2.30	0.93	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Bathygobius soporator postflexion larvae	frillfin goby	0.00	0.24	0.24	1.36	0.46	0.25	0.00	0.00	0.00	0.00	0.00	18.75
Gobionellus spp. postflexion larvae	gobies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
Gobionellus oceanicus juveniles	highfin goby	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gobiosoma spp. postflexion larvae	gobies	267.05	226.87	271.06	225.52	394.17	533.14	1036.92	1233.80	498.84	1341.96	1411.45	652.98
Gobiosoma bosc juveniles	naked goby	1.58	0.90	0.00	0.71	0.40	1.72	0.00	18.50	4.06	0.73	0.93	1.60
Gobiosoma bosc adults	naked goby	1.16	1.63	0.50	0.23	0.23	0.00	0.00	0.21	0.00	0.22	0.49	0.00
Gobiosoma robustum juveniles	code goby	0.00	0.99	1.47	7.42	5.24	10.29	14.86	3.58	1.91	0.91	3.68	0.99
Microgobius spp. flexion larvae	gobies	14.91	12.48	13.64	7.64	23.02	45.16	6.20	10.32	1.24	0.92	0.47	0.24
Microgobius spp. postflexion larvae	gobies	23.70	33.06	58.58	8.53	59.51	128.81	20.05	31.87	20.56	34.64	72.80	107.59
Microgobius gulosus juveniles	clown goby	0.00	0.00	0.88	0.00	0.83	1.49	0.87	1.42	0.00	0.72	1.44	0.00
Microgobius gulosus adults	clown goby	0.00	0.00	0.25	0.00	0.23	2.43	0.00	0.44	0.00	0.00	0.57	0.00
Microgobius thalassinus juveniles	green goby	1.60	0.00	0.00	0.20	0.21	0.00	0.20	0.00	0.00	0.00	0.00	0.00
Achirus lineatus flexion larvae	lined sole	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Achirus lineatus postflexion larvae	lined sole	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Achirus lineatus juveniles	lined sole	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trinectes maculatus preflexion larvae	hogchoker	2.09	2.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A3, page 8 of 8. Location specific plankton-net catch.

Data are presented as mean number per 1,000 cubic meters.

Organisms are listed in phylogenetic order.

Description	Common Name	Location (km from mouth)											
		0.7	1.2	4.1	4.4	5.8	6.3	8.0	9.3	11.3	11.4	12.7	13.0
Trinectes maculatus flexion larvae	hogchoker	2.85	2.39	0.28	0.00	1.95	2.59	0.22	1.98	0.00	0.00	0.00	0.00
Trinectes maculatus postflexion larvae	hogchoker	7.97	3.94	8.65	5.08	5.86	7.03	4.98	7.20	2.19	3.68	0.95	0.92
Trinectes maculatus juveniles	hogchoker	0.47	0.46	2.58	4.27	10.44	5.93	11.11	8.73	1.61	4.28	2.53	3.50
Trinectes maculatus adults	hogchoker	0.25	0.00	0.00	0.00	0.00	0.20	0.38	0.26	0.00	0.00	0.22	0.00
anuran larvae	tadpoles	0.00	0.21	0.00	0.00	0.24	0.23	0.24	0.00	0.25	0.00	0.00	0.00

Appendix B:
Seine and trawl summary tables

Table B1, page 1 of 2. Seine catch statistics (n=674).

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	km _U (km)	S _U (psu)	Mean CPUE (No./seine)	Max CPUE (No./seine)
<i>Farfantepenaeus duorarum</i>	Pink shrimp	125	6	2.19	10.55	0.2	51
<i>Palaemonetes</i> spp.	Grass shrimp	1009	12	7.00	15.36	1.5	433
<i>Palaemonetes intermedius</i>	Riverine grass shrimp	527	22	4.79	15.06	0.8	220
<i>Palaemonetes paludosus</i>	Brackish grass shrimp	2	2	9.82	0.80	0.0	1
<i>Palaemonetes pugio</i>	Daggerblade grass shrimp	64911	294	8.66	11.84	96.3	6251
<i>Palaemon floridanus</i>	Florida grass shrimp	1	1	3.21	5.45	0.0	1
<i>Callinectes sapidus</i>	Blue crab	295	113	6.51	9.46	0.4	34
<i>Dasyatis say</i>	Bluntnose stingray	1	1	6.18	23.45	0.0	1
<i>Rhinoptera bonasus</i>	Cownose ray	7	2	3.72	22.50	0.0	6
<i>Lepisosteus</i> spp.	Gars	1	1	15.74	0.10	0.0	1
<i>Lepisosteus osseus</i>	Longnose gar	7	5	6.31	3.09	0.0	2
<i>Lepisosteus platyrhincus</i>	Florida gar	15	12	11.83	4.72	0.0	3
<i>Amia calva</i>	Bowfin	1	1	2.74	0.20	0.0	1
<i>Elops saurus</i>	Ladyfish	274	33	9.65	14.26	0.4	61
<i>Albula vulpes</i>	Bonefish	1	1	3.79	26.55	0.0	1
<i>Clupeidae</i> spp.	Herrings	1	1	1.75	21.05	0.0	1
<i>Brevoortia</i> spp.	Menhaden	28172	64	11.81	15.71	41.8	18048
<i>Dorosoma</i> spp.	Dorosoma shads	1	1	9.10	0.30	0.0	1
<i>Dorosoma cepedianum</i>	Gizzard shad	1	1	0.17	0.20	0.0	1
<i>Dorosoma petenense</i>	Threadfin shad	211	22	12.06	0.34	0.3	149
<i>Opisthonema oglinum</i>	Atlantic thread herring	1	1	1.30	9.45	0.0	1
<i>Harengula jaguana</i>	Scaled sardine	116	3	0.65	12.26	0.2	108
<i>Anchoa hepsetus</i>	Striped anchovy	4008	46	1.71	27.09	5.9	1728
<i>Anchoa mitchilli</i>	Bay anchovy	318181	221	5.02	15.92	472.1	26464
<i>Synodus foetens</i>	Inshore lizardfish	23	16	2.59	25.03	0.0	4
<i>Notemigonus crysoleucas</i>	Golden shiner	143	17	9.68	1.32	0.2	91
<i>Notropis maculatus</i>	Taillight shiner	6	3	14.45	0.13	0.0	3
<i>Notropis petersoni</i>	Coastal shiner	27	13	13.88	0.47	0.0	6
<i>Bagre marinus</i>	Gafftopsail catfish	5	4	3.52	21.55	0.0	2
<i>Arius felis</i>	Hardhead catfish	5	3	3.43	11.70	0.0	3
Loricariidae spp.	Suckermouth catfish	2	2	9.63	0.35	0.0	1
<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	2	2	13.10	0.20	0.0	1
<i>Opsanus beta</i>	Gulf toadfish	14	12	2.68	15.83	0.0	3
<i>Gobiesox strumosus</i>	Skilletfish	12	8	4.53	14.08	0.0	2
<i>Strongylura</i> spp.	Needlefishes	41	22	4.87	15.31	0.1	5
<i>Strongylura marina</i>	Atlantic needlefish	25	12	4.75	10.26	0.0	8
<i>Strongylura notata</i>	Redfin needlefish	16	10	3.66	17.70	0.0	3
<i>Strongylura timucu</i>	Timucu	31	21	6.07	10.91	0.0	3
<i>Cyprinodon variegatus</i>	Sheepshead minnow	3110	181	8.85	8.67	4.6	162
<i>Fundulus</i> spp.	Assorted killifish	1	1	8.00	13.27	0.0	1
<i>Fundulus confluentus</i>	Marsh killifish	28	12	13.55	5.71	0.0	6
<i>Fundulus majalis</i>	Striped killifish	1596	60	5.12	16.01	2.4	301
<i>Fundulus grandis</i>	Gulf killifish	3182	153	8.10	9.54	4.7	262
<i>Fundulus chrysotus</i>	Golden topminnow	1	1	14.23	0.20	0.0	1
<i>Fundulus seminolis</i>	Seminole killifish	175	29	12.28	1.05	0.3	25
<i>Lucania parva</i>	Rainwater killifish	7231	181	12.02	7.26	10.7	723
<i>Lucania goodei</i>	Bluefin killifish	3	3	13.08	2.90	0.0	1
<i>Adinia xenica</i>	Diamond killifish	1	1	0.62	0.20	0.0	1
<i>Floridichthys carpio</i>	Goldspotted killifish	18	5	8.48	11.01	0.0	8
<i>Gambusia holbrooki</i>	Eastern mosquito fish	16595	221	13.21	6.38	24.6	2160
<i>Poecilia latipinna</i>	Sailfin molly	6691	153	11.94	7.60	9.9	816
<i>Heterandria formosa</i>	Least killifish	2	2	11.41	8.38	0.0	1
<i>Xiphophorus</i> spp.	Swordtails	2	1	11.56	0.20	0.0	2
<i>Membras martinica</i>	Rough silverside	441	14	1.55	27.78	0.7	149
<i>Menidia</i> spp.	Silversides	148621	544	9.06	11.04	220.5	24704
<i>Labidesthes sicculus</i>	Brook silverside	434	48	13.58	0.79	0.6	92
<i>Syngnathus louisianae</i>	Chain pipefish	18	12	3.67	21.81	0.0	4
<i>Syngnathus scovelli</i>	Gulf pipefish	65	41	5.64	16.20	0.1	5
<i>Prionotus scitulus</i>	Leopard searobin	3	2	0.20	29.68	0.0	2
<i>Centropomus undecimalis</i>	Snook	47	29	7.83	5.47	0.1	6
<i>Lepomis</i> spp.	Sunfishes	29	9	12.38	0.14	0.0	13

Table B1, page 2 of 2. Seine catch statistics (n=674).

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	km _U (km)	S _U (psu)	Mean CPUE (No./seine)	Max CPUE (No./seine)
<i>Lepomis auritus</i>	Redbreast sunfish	24	16	12.15	0.92	0.0	4
<i>Lepomis gulosus</i>	Warmouth	2	2	10.32	2.93	0.0	1
<i>Lepomis macrochirus</i>	Bluegill	322	88	8.17	1.64	0.5	29
<i>Lepomis marginatus</i>	Dollar sunfish	10	8	11.74	2.02	0.0	2
<i>Lepomis microlophus</i>	Redear sunfish	142	36	11.57	1.17	0.2	12
<i>Lepomis punctatus</i>	Spotted sunfish	27	14	11.03	4.34	0.0	6
<i>Micropterus salmoides</i>	Largemouth bass	204	51	7.84	1.19	0.3	51
<i>Pomoxis nigromaculatus</i>	Black crappie	6	3	8.13	0.17	0.0	3
<i>Etheostoma fusiforme</i>	Swamp darter	14	4	14.54	0.12	0.0	10
<i>Caranx hippos</i>	Creville jack	2	2	6.18	8.15	0.0	1
<i>Oligoplites saurus</i>	Leatherjacket	257	67	4.64	16.18	0.4	31
<i>Lutjanus griseus</i>	Gray snapper	1	1	1.07	19.35	0.0	1
<i>Eucinostomus</i> spp.	Eucinostomus mojarra	3298	126	3.65	7.54	4.9	622
<i>Eucinostomus gula</i>	Silver jenny	427	29	1.35	17.34	0.6	99
<i>Eucinostomus harengulus</i>	Tidewater mojarra	2296	143	5.90	10.81	3.4	328
<i>Diapterus plumieri</i>	Striped mojarra	597	82	6.52	4.74	0.9	140
<i>Orthopristis chrysoptera</i>	Pigfish	3	3	0.77	27.00	0.0	1
<i>Lagodon rhomboides</i>	Pinfish	3459	157	5.57	15.53	5.1	832
<i>Archosargus probatocephalus</i>	Sheepshead	63	43	7.96	8.80	0.1	6
<i>Diplodus holbrooki</i>	Spottail pinfish	5	1	5.16	2.90	0.0	5
<i>Cynoscion nebulosus</i>	Spotted seatrout	52	30	4.81	9.01	0.1	7
<i>Cynoscion arenarius</i>	Sand seatrout	347	36	5.55	14.43	0.5	101
<i>Bairdiella chrysoura</i>	Silver perch	1272	17	3.28	8.43	1.9	1090
<i>Leiostomus xanthurus</i>	Spot	15150	102	5.78	11.34	22.5	2194
<i>Menticirrhus americanus</i>	Southern kingfish	82	19	4.70	19.04	0.1	25
<i>Pogonias cromis</i>	Black drum	22	10	5.87	21.13	0.0	7
<i>Sciaenops ocellatus</i>	Red drum	1676	115	5.54	7.99	2.5	157
<i>Chaetodipterus faber</i>	Atlantic spadefish	1	1	0.80	7.75	0.0	1
<i>Cichlasoma</i> spp.	Cichlasoma cichlids	1	1	14.22	0.10	0.0	1
<i>Tilapia</i> spp.	Tilapias	863	76	12.84	4.65	1.3	118
<i>Mugil</i> spp.	Mullet	47	3	7.86	16.17	0.1	43
<i>Mugil cephalus</i>	Striped mullet	6045	88	5.62	14.68	9.0	944
<i>Mugil curema</i>	White mullet	3	1	10.55	1.90	0.0	3
<i>Mugil gyrans</i>	Fantail mullet	23	4	6.19	7.50	0.0	16
<i>Chasmodes saburrae</i>	Florida blenny	3	3	2.14	5.58	0.0	1
<i>Gobionellus smaragdus</i>	Emerald goby	1	1	0.81	13.55	0.0	1
<i>Gobiosoma</i> spp.	Gobiosoma gobies	669	110	6.44	7.77	1.0	128
<i>Gobiosoma bosc</i>	Naked goby	1564	235	6.07	9.72	2.3	129
<i>Gobiosoma robustum</i>	Code goby	21	7	12.57	13.47	0.0	15
<i>Microgobius gulosus</i>	Clown goby	2411	215	6.63	15.95	3.6	460
<i>Microgobius thalassinus</i>	Green goby	3	3	1.64	21.05	0.0	1
<i>Bathygobius soporator</i>	Frillfin goby	4	4	1.52	9.30	0.0	1
<i>Dormitator maculatus</i>	Fat sleeper	1	1	13.76	13.60	0.0	1
<i>Trinectes maculatus</i>	Hogchoker	2934	343	8.73	8.23	4.4	97
<i>Achirus lineatus</i>	Lined sole	41	17	3.37	16.29	0.1	10
<i>Sphoeroides nephelus</i>	Southern puffer	10	7	2.57	26.05	0.0	3

Table B2, page 1 of 2. Trawl catch statistics (n=336).

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	km _U (km)	S _U (psu)	Mean CPUE (No./seine)	Max CPUE (No./seine)
<i>Limulus polyphemus</i>	Horseshoe crab	19	6	1.07	25.66	0.1	6
<i>Farfantepenaeus duorarum</i>	Pink shrimp	183	47	1.96	16.85	0.5	24
<i>Palaemonetes</i> spp.	Grass shrimp	11	2	6.21	8.62	0.0	8
<i>Palaemonetes intermedius</i>	Brackish grass shrimp	1	1	5.28	9.30	0.0	1
<i>Palaemonetes pugio</i>	Daggerblade grass shrimp	302	50	6.56	9.12	0.9	40
<i>Lysmata amboinensis</i>	Cleaner shrimp	1	1	0.93	25.23	0.0	1
<i>Callinectes sapidus</i>	Blue crab	721	130	3.69	16.61	2.1	74
<i>Menippe</i> spp.	Stone crabs	16	10	1.13	25.81	0.0	3
<i>Dasyatis sabina</i>	Atlantic stingray	8	7	2.13	20.84	0.0	2
<i>Gymnura micrura</i>	Smooth butterfly ray	1	1	1.50	23.55	0.0	1
<i>Rhinoptera bonasus</i>	Cownose ray	1	1	3.06	18.40	0.0	1
<i>Lepisosteus osseus</i>	Longnose gar	1	1	7.44	3.68	0.0	1
<i>Elops saurus</i>	Ladyfish	5	4	7.48	2.20	0.0	2
<i>Brevoortia</i> spp.	Menhaden	1	1	10.86	18.04	0.0	1
<i>Dorosoma cepedianum</i>	Gizzard shad	3	1	7.55	0.10	0.0	3
<i>Opisthonema oglinum</i>	Atlantic thread herring	1	1	6.10	21.83	0.0	1
<i>Anchoa hepsetus</i>	Striped anchovy	57	7	4.42	25.52	0.2	19
<i>Anchoa mitchilli</i>	Bay anchovy	1356	45	4.89	14.67	4.0	352
<i>Synodus foetens</i>	Inshore lizardfish	1	1	3.51	19.55	0.0	1
<i>Notropis petersoni</i>	Coastal shiner	1	1	10.63	0.20	0.0	1
<i>Ameiurus catus</i>	White catfish	56	21	7.08	0.59	0.2	13
<i>Ameiurus natalis</i>	Yellow bullhead	1	1	8.20	0.30	0.0	1
<i>Ictalurus punctatus</i>	Channel catfish	9	5	5.85	0.20	0.0	3
<i>Bagre marinus</i>	Gafftopsail catfish	13	10	4.69	20.17	0.0	3
<i>Arius felis</i>	Hardhead catfish	47	25	3.93	17.13	0.1	6
Loricariidae spp.	Suckermouth catfish	2	2	8.55	2.58	0.0	1
<i>Pterygoplichthys multiradialis</i>	Orinoco sailfin catfish	1	1	10.63	0.20	0.0	1
<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	1	1	9.00	0.60	0.0	1
<i>Opsanus beta</i>	Gulf toadfish	172	59	1.67	22.53	0.5	14
<i>Gobiesox strumosus</i>	Skilletfish	39	19	3.29	22.22	0.1	6
<i>Cyprinodon variegatus</i>	Sheepshead minnow	21	1	12.70	0.33	0.1	21
<i>Fundulus grandis</i>	Gulf killifish	1	1	4.92	4.23	0.0	1
<i>Lucania parva</i>	Rainwater killifish	23	7	10.44	3.76	0.1	12
<i>Poecilia latipinna</i>	Sailfin molly	3	3	9.66	11.90	0.0	1
<i>Menidia</i> spp.	Silversides	40	9	9.00	3.10	0.1	15
<i>Syngnathus louisianae</i>	Chain pipefish	29	20	3.16	21.53	0.1	5
<i>Syngnathus scovelli</i>	Gulf pipefish	34	18	4.25	20.73	0.1	8
<i>Prionotus scitulus</i>	Leopard searobin	20	12	1.37	22.94	0.1	3
<i>Prionotus tribulus</i>	Bighead searobin	7	5	1.17	18.23	0.0	2
<i>Centropomus undecimalis</i>	Snook	1	1	8.20	0.30	0.0	1
<i>Lepomis auritus</i>	Redbreast sunfish	1	1	10.79	0.20	0.0	1
<i>Lepomis macrochirus</i>	Bluegill	30	18	9.60	1.08	0.1	5
<i>Micropterus salmoides</i>	Largemouth bass	1	1	10.36	0.30	0.0	1
<i>Pomoxis nigromaculatus</i>	Black crappie	16	9	10.54	0.25	0.0	5
<i>Echeneis naucrates</i>	Sharksucker	1	1	3.06	18.40	0.0	1
<i>Chloroscombrus chrysurus</i>	Atlantic bumper	6	2	1.65	15.80	0.0	5
<i>Oligoplites saurus</i>	Leatherjacket	1	1	10.01	1.57	0.0	1
<i>Hemicaranx amblyrhynchus</i>	Bluntnose jack	1	1	0.70	17.28	0.0	1
<i>Eucinostomus</i> spp.	Eucinostomus mojarra	95	15	3.02	9.01	0.3	40
<i>Eucinostomus gula</i>	Silver jenny	63	5	2.45	26.89	0.2	29
<i>Eucinostomus harengulus</i>	Tidewater mojarra	21	12	3.33	17.05	0.1	5
<i>Diapterus plumieri</i>	Striped mojarra	23	10	3.78	4.35	0.1	8
<i>Orthopristis chrysoptera</i>	Pigfish	2	2	1.19	28.68	0.0	1
<i>Lagodon rhomboides</i>	Pinfish	32	17	2.50	24.96	0.1	4
<i>Archosargus probatocephalus</i>	Sheepshead	83	35	3.74	15.92	0.2	11
<i>Cynoscion nebulosus</i>	Spotted seatrout	6	4	2.35	3.22	0.0	3
<i>Cynoscion arenarius</i>	Sand seatrout	847	81	3.80	16.33	2.5	69
<i>Bairdiella chrysoura</i>	Silver perch	100	11	1.05	21.88	0.3	41
<i>Leiostomus xanthurus</i>	Spot	2207	34	4.49	9.70	6.6	634
<i>Menticirrhus americanus</i>	Southern kingfish	438	43	1.86	15.53	1.3	198
<i>Micropogonias undulatus</i>	Atlantic croaker	15	7	4.00	12.30	0.0	5

Table B2, page 2 of 2. Trawl catch statistics (n=336).

Organisms are listed in phylogenetic order.

Taxon	Common Name	Number Collected	Collection Frequency	km_U (km)	S_U (psu)	Mean CPUE (No./seine)	Max CPUE (No./seine)
<i>Sciaenops ocellatus</i>	Red drum	108	33	5.32	5.01	0.3	22
<i>Chaetodipterus faber</i>	Atlantic spadefish	51	18	1.33	21.40	0.2	10
<i>Tilapia</i> spp.	Tilapias	2	2	13.20	7.83	0.0	1
<i>Gobiosoma</i> spp.	Gobiosoma gobies	329	21	4.48	18.65	1.0	143
<i>Gobiosoma bosc</i>	Naked goby	181	68	4.73	16.38	0.5	13
<i>Gobiosoma robustum</i>	Code goby	4	4	7.41	14.17	0.0	1
<i>Microgobius gulosus</i>	Clown goby	66	34	5.22	16.04	0.2	9
<i>Microgobius thalassinus</i>	Green goby	3	1	5.28	9.30	0.0	3
<i>Paralichthys albigutta</i>	Gulf flounder	5	4	1.08	26.97	0.0	2
<i>Trinectes maculatus</i>	Hogchoker	1461	153	6.08	6.25	4.3	74
<i>Achirus lineatus</i>	Lined sole	20	12	2.21	13.04	0.1	6
<i>Symphurus plagiusa</i>	Blackcheek tonguefish	8	4	1.74	24.85	0.0	3
<i>Sphoeroides nephelus</i>	Southern puffer	6	5	1.75	23.22	0.0	2

Table B3. Page 1 of 4.

Seine catch by month.

Number of monthly samples is indicated in parentheses.

	Taxon	Common Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			(48)	(48)	(48)	(48)	(60)	(60)	(59)	(60)	(60)	(60)	(63)	(60)
B - 6	<i>Farfantepenaeus duorarum</i>	Pink shrimp	5	2	1	1	0	6	62	6	17	3	16	6
	<i>Palaemonetes</i> spp.	Grass shrimp	0	8	254	0	56	484	0	1	205	0	1	0
	<i>Palaemonetes intermedius</i>	Riverine grass shrimp	267	15	8	0	0	4	1	7	2	1	1	221
	<i>Palaemonetes paludosus</i>	Brackish grass shrimp	1	0	0	0	0	0	0	1	0	0	0	0
	<i>Palaemonetes pugio</i>	Daggerblade grass shrimp	23046	4783	6843	2435	1109	324	921	1249	4751	3012	4380	12058
	<i>Palaemon floridanus</i>	Florida grass shrimp	0	0	0	0	0	0	1	0	0	0	0	0
	<i>Callinectes sapidus</i>	Blue crab	28	54	21	25	35	11	6	1	37	7	23	47
	<i>Dasyatis say</i>	Bluntnose stingray	0	0	0	0	0	1	0	0	0	0	0	0
	<i>Rhinoptera bonasus</i>	Cownose ray	0	0	0	0	0	7	0	0	0	0	0	0
	<i>Lepisosteus</i> spp.	Gars	0	0	0	0	0	0	0	0	0	1	0	0
	<i>Lepisosteus osseus</i>	Longnose gar	0	0	0	0	0	0	2	0	3	1	0	1
	<i>Lepisosteus platyrhincus</i>	Florida gar	2	0	0	0	1	0	6	3	0	1	1	1
	<i>Amia calva</i>	Bowfin	0	0	0	0	0	0	0	1	0	0	0	0
	<i>Elops saurus</i>	Ladyfish	0	0	0	1	124	132	9	7	1	0	0	0
	<i>Albula vulpes</i>	Bonefish	0	0	0	0	1	0	0	0	0	0	0	0
	<i>Clupeidae</i> spp.	Herrings	0	0	1	0	0	0	0	0	0	0	0	0
	<i>Brevoortia</i> spp.	Menhaden	0	35	10	3585	21632	1354	1527	29	0	0	0	0
	<i>Dorosoma</i> spp.	Dorosoma shads	0	0	0	0	0	0	0	1	0	0	0	0
	<i>Dorosoma cepedianum</i>	Gizzard shad	0	0	0	0	0	1	0	0	0	0	0	0
	<i>Dorosoma petenense</i>	Threadfin shad	0	1	2	0	0	153	4	23	7	0	1	20
	<i>Opisthonema oglinum</i>	Atlantic thread herring	0	0	0	0	0	1	0	0	0	0	0	0
	<i>Harengula jaguana</i>	Scaled sardine	0	0	0	7	0	0	0	0	0	1	108	0
	<i>Anchoa hepsetus</i>	Striped anchovy	2	0	0	170	2370	1243	205	18	0	0	0	0
	<i>Anchoa mitchilli</i>	Bay anchovy	39904	16207	2870	48252	37588	33148	51404	5110	1328	19818	10148	52404
	<i>Synodus foetens</i>	Inshore lizardfish	0	1	0	0	14	4	0	0	0	0	2	2
	<i>Notemigonus crysoleucas</i>	Golden shiner	0	0	0	99	1	10	7	3	18	5	0	0
	<i>Notropis maculatus</i>	Taillight shiner	0	0	0	0	0	0	0	0	2	4	0	0
	<i>Notropis petersoni</i>	Coastal shiner	2	0	0	5	0	0	7	1	5	7	0	0
	<i>Bagre marinus</i>	Gafftopsail catfish	0	0	0	0	0	3	1	0	1	0	0	0
	<i>Arius felis</i>	Hardhead catfish	0	0	0	0	0	2	3	0	0	0	0	0

Table B3. Page 2 of 4.

Seine catch by month.

Number of monthly samples is indicated in parentheses.

B-7

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (48)	May (60)	Jun (60)	Jul (59)	Aug (60)	Sep (60)	Oct (60)	Nov (63)	Dec (60)
Loricariidae spp.	Suckermouth catfish	0	0	0	0	0	0	1	0	0	1	0	0
<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	0	0	1	0	0	0	0	0	0	0	1	0
<i>Opsanus beta</i>	Gulf toadfish	2	5	0	1	0	0	1	0	3	1	1	0
<i>Gobiesox strumosus</i>	Skilletfish	0	0	2	4	1	1	2	2	0	0	0	0
<i>Strongylura</i> spp.	Needlefishes	0	0	0	14	13	11	1	2	0	0	0	0
<i>Strongylura marina</i>	Atlantic needlefish	0	1	0	0	2	13	2	5	0	0	2	0
<i>Strongylura notata</i>	Redfin needlefish	0	2	0	0	3	1	6	2	0	2	0	0
<i>Strongylura timucu</i>	Timucu	0	0	4	0	0	2	5	2	0	2	10	6
<i>Cyprinodon variegatus</i>	Sheepshead minnow	116	127	348	424	337	356	96	150	420	322	226	188
<i>Fundulus</i> spp.	Assorted killifish	1	0	0	0	0	0	0	0	0	0	0	0
<i>Fundulus confluentus</i>	Marsh killifish	4	5	0	0	0	1	0	0	7	7	2	2
<i>Fundulus majalis</i>	Striped killifish	89	217	218	104	485	113	6	8	239	104	6	7
<i>Fundulus grandis</i>	Gulf killifish	158	29	503	699	624	270	82	223	245	132	122	95
<i>Fundulus chrysotus</i>	Golden topminnow	0	0	0	0	0	0	0	0	0	0	1	0
<i>Fundulus seminolis</i>	Seminole killifish	15	0	5	2	24	0	2	1	5	27	73	21
<i>Lucania parva</i>	Rainwater killifish	629	94	290	38	289	1145	666	953	1571	494	403	659
<i>Lucania goodei</i>	Bluefin killifish	0	0	0	0	0	0	0	1	0	0	0	2
<i>Adinia xenica</i>	Diamond killifish	0	0	0	0	0	0	0	1	0	0	0	0
<i>Floridichthys carpio</i>	Goldspotted killifish	0	1	0	0	8	0	0	0	2	0	7	0
<i>Gambusia holbrooki</i>	Eastern mosquito fish	1448	320	842	773	711	744	1307	1815	3435	3207	545	1448
<i>Poecilia latipinna</i>	Sailfin molly	720	10	239	428	397	962	409	818	1408	482	616	202
<i>Heterandria formosa</i>	Least killifish	1	0	0	1	0	0	0	0	0	0	0	0
<i>Xiphophorus</i> spp.	Swordtails	0	0	0	0	0	0	0	0	0	0	0	2
<i>Membras martinica</i>	Rough silverside	0	0	0	0	18	233	174	16	0	0	0	0
<i>Menidia</i> spp.	Silversides	5036	3500	5045	10913	38861	15926	17568	16546	11328	8155	6541	9202
<i>Labidesthes sicculus</i>	Brook silverside	36	3	4	62	20	18	14	34	48	47	121	27
<i>Syngnathus louisianae</i>	Chain pipefish	1	0	0	0	12	4	0	0	0	0	1	0
<i>Syngnathus scovelli</i>	Gulf pipefish	2	0	1	15	17	14	11	4	0	0	1	0
<i>Prionotus scitulus</i>	Leopard searobin	0	0	0	0	2	1	0	0	0	0	0	0
<i>Centropomus undecimalis</i>	Snook	1	1	1	0	4	1	3	1	12	11	12	0

Table B3. Page 3 of 4.

Seine catch by month.

Number of monthly samples is indicated in parentheses.

	Taxon	Common Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			(48)	(48)	(48)	(48)	(60)	(60)	(59)	(60)	(60)	(60)	(63)	(60)
B-8	<i>Lepomis</i> spp.	Sunfishes	0	0	0	0	0	0	6	19	4	0	0	0
	<i>Lepomis auritus</i>	Redbreast sunfish	0	1	2	0	0	0	1	1	7	6	0	6
	<i>Lepomis gulosus</i>	Warmouth	0	0	0	0	0	0	0	0	0	0	0	2
	<i>Lepomis macrochirus</i>	Bluegill	8	2	1	5	14	58	48	40	34	43	52	17
	<i>Lepomis marginatus</i>	Dollar sunfish	0	0	0	0	0	0	0	0	1	5	2	2
	<i>Lepomis microlophus</i>	Redear sunfish	8	10	0	3	7	4	23	10	18	21	27	11
	<i>Lepomis punctatus</i>	Spotted sunfish	0	1	0	0	1	0	2	1	1	1	3	17
	<i>Micropterus salmoides</i>	Largemouth bass	0	0	5	26	41	106	8	5	7	1	4	1
	<i>Pomoxis nigromaculatus</i>	Black crappie	0	0	0	0	0	0	1	3	2	0	0	0
	<i>Etheostoma fusiforme</i>	Swamp darter	0	0	3	0	0	1	10	0	0	0	0	0
	<i>Caranx hippos</i>	Crevalle jack	0	0	0	0	0	0	0	0	0	1	0	1
	<i>Oligoplites saurus</i>	Leatherjacket	0	0	0	0	25	107	97	19	4	3	2	0
	<i>Lutjanus griseus</i>	Gray snapper	0	0	0	0	0	0	1	0	0	0	0	0
	<i>Eucinostomus</i> spp.	<i>Eucinostomus</i> mojarra	253	1064	362	104	1	9	22	7	37	33	785	621
	<i>Eucinostomus gula</i>	Silver jenny	1	96	66	106	53	0	10	6	3	2	70	14
	<i>Eucinostomus harengulus</i>	Tidewater mojarra	32	375	244	859	341	41	19	28	43	41	188	85
	<i>Diapterus plumieri</i>	Striped mojarra	20	0	5	8	3	51	191	67	57	30	125	40
	<i>Orthopristis chrysoptera</i>	Pigfish	0	1	0	1	1	0	0	0	0	0	0	0
	<i>Lagodon rhomboides</i>	Pinfish	26	1555	987	315	300	113	58	24	14	60	5	2
	<i>Archosargus probatocephalus</i>	Sheepshead	2	2	1	1	15	9	13	9	0	4	7	0
	<i>Diplodus holbrooki</i>	Spottail pinfish	0	0	0	0	0	0	0	5	0	0	0	0
	<i>Cynoscion nebulosus</i>	Spotted seatrout	0	2	0	0	10	8	16	0	9	0	6	1
	<i>Cynoscion arenarius</i>	Sand seatrout	0	3	0	80	92	158	10	0	0	0	3	1
	<i>Bairdiella chrysoura</i>	Silver perch	0	1	0	6	49	1091	114	11	0	0	0	0
	<i>Leiostomus xanthurus</i>	Spot	3	6889	6650	1025	476	86	6	0	4	11	0	0
	<i>Menticirrhus americanus</i>	Southern kingfish	0	1	0	0	30	38	0	0	0	0	5	8
	<i>Pogonias cromis</i>	Black drum	0	0	0	3	14	4	0	0	0	1	0	0
	<i>Sciaenops ocellatus</i>	Red drum	146	294	240	26	10	16	2	0	0	30	633	279
	<i>Chaetodipterus faber</i>	Atlantic spadefish	0	0	0	0	0	0	1	0	0	0	0	0
	<i>Cichlasoma</i> spp.	<i>Cichlasoma</i> cichlids	0	0	0	0	0	0	0	0	1	0	0	0

Table B3. Page 4 of 4.

Seine catch by month.

Number of monthly samples is indicated in parentheses.

B-9

Taxon	Common Name	Jan (48)	Feb (48)	Mar (48)	Apr (48)	May (60)	Jun (60)	Jul (59)	Aug (60)	Sep (60)	Oct (60)	Nov (63)	Dec (60)
<i>Tilapia</i> spp.	Tilapias	9	0	5	11	36	159	75	119	270	21	142	16
<i>Mugil</i> spp.	Mulletts	0	46	1	0	0	0	0	0	0	0	0	0
<i>Mugil cephalus</i>	Striped mullet	1087	2036	1183	1316	164	219	1	1	21	4	8	5
<i>Mugil curema</i>	White mullet	0	3	0	0	0	0	0	0	0	0	0	0
<i>Mugil gyrans</i>	Fantail mullet	0	0	0	1	0	17	5	0	0	0	0	0
<i>Chasmodes saburrae</i>	Florida blenny	0	0	1	0	0	0	0	0	0	2	0	0
<i>Gobionellus smaragdus</i>	Emerald goby	0	0	0	0	0	0	0	1	0	0	0	0
<i>Gobiosoma</i> spp.	Gobiosoma gobies	18	25	19	51	11	180	41	92	196	21	2	13
<i>Gobiosoma bosc</i>	Naked goby	65	59	27	243	177	170	60	79	196	180	95	213
<i>Gobiosoma robustum</i>	Code goby	0	0	0	0	16	0	1	1	2	0	0	1
<i>Microgobius gulosus</i>	Clown goby	34	12	75	107	800	724	173	76	110	223	42	35
<i>Microgobius thalassinus</i>	Green goby	0	0	0	0	0	1	2	0	0	0	0	0
<i>Bathygobius soporator</i>	Frillfin goby	0	0	0	1	0	0	0	0	0	1	1	1
<i>Dormitator maculatus</i>	Fat sleeper	0	0	0	1	0	0	0	0	0	0	0	0
<i>Trinectes maculatus</i>	Hogchoker	326	328	173	192	157	202	95	44	227	313	412	465
<i>Achirus lineatus</i>	Lined sole	0	0	8	0	2	12	10	5	1	0	3	0
<i>Sphoeroides nephelus</i>	Southern puffer	0	0	0	0	5	4	0	0	0	0	1	0

Trawl catch by month.

Number of monthly samples is indicated in parentheses.

B-10

Table B4. Page 2 of 3.

Trawl catch by month.

Number of monthly samples is indicated in parentheses.

B - 11

Taxon	Common Name	Jan (24)	Feb (23)	Mar (24)	Apr (24)	May (30)	Jun (29)	Jul (30)	Aug (30)	Sep (30)	Oct (30)	Nov (32)	Dec (30)
<i>Lucania parva</i>	Rainwater killifish	2	0	0	0	3	0	12	2	4	0	0	0
<i>Poecilia latipinna</i>	Sailfin molly	0	0	0	0	0	0	1	0	0	1	1	0
<i>Menidia</i> spp.	Silversides	33	1	2	0	0	0	0	0	0	0	1	3
<i>Syngnathus louisianae</i>	Chain pipefish	1	0	3	2	16	0	0	0	0	0	3	4
<i>Syngnathus scovelli</i>	Gulf pipefish	2	0	11	4	13	2	0	0	0	0	0	2
<i>Prionotus scitulus</i>	Leopard searobin	4	2	0	0	2	6	1	1	0	0	0	4
<i>Prionotus tribulus</i>	Bighead searobin	0	0	1	0	0	0	0	0	0	0	0	6
<i>Centropomus undecimalis</i>	Snook	1	0	0	0	0	0	0	0	0	0	0	0
<i>Lepomis auritus</i>	Redbreast sunfish	0	0	0	0	0	0	0	0	1	0	0	0
<i>Lepomis macrochirus</i>	Bluegill	3	3	1	0	0	3	3	2	8	7	0	0
<i>Micropterus salmoides</i>	Largemouth bass	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pomoxis nigromaculatus</i>	Black crappie	3	0	0	0	0	0	7	0	4	2	0	0
<i>Echeneis naucrates</i>	Sharksucker	0	0	0	0	0	0	0	0	0	0	1	0
<i>Chloroscombrus chrysurus</i>	Atlantic bumper	0	0	0	0	0	0	5	0	0	0	1	0
<i>Oligoplites saurus</i>	Leatherjacket	0	0	0	0	0	0	0	0	0	1	0	0
<i>Hemicaranx amblyrhynchus</i>	Bluntnose jack	0	0	0	0	0	0	1	0	0	0	0	0
<i>Eucinostomus</i> spp.	Eucinostomus mojarra	9	21	0	1	0	0	0	0	1	6	15	42
<i>Eucinostomus gula</i>	Silver jenny	0	4	0	2	57	0	0	0	0	0	0	0
<i>Eucinostomus harengulus</i>	Tidewater mojarra	1	6	0	7	4	0	1	0	0	1	0	1
<i>Diapterus plumieri</i>	Striped mojarra	1	0	0	0	0	0	0	6	12	3	0	1
<i>Orthopristis chrysoptera</i>	Pigfish	0	0	0	0	1	0	1	0	0	0	0	0
<i>Lagodon rhomboides</i>	Pinfish	0	0	3	3	19	2	3	0	0	0	0	2
<i>Archosargus probatocephalus</i>	Sheepshead	3	2	7	2	19	0	6	9	12	10	6	7
<i>Cynoscion nebulosus</i>	Spotted seatrout	0	0	0	0	0	0	0	0	5	1	0	0
<i>Cynoscion arenarius</i>	Sand seatrout	12	2	0	53	218	176	81	31	72	177	22	3
<i>Bairdiella chrysoura</i>	Silver perch	0	0	1	0	37	43	1	17	1	0	0	0
<i>Leiostomus xanthurus</i>	Spot	3	792	808	46	483	18	52	4	1	0	0	0
<i>Menticirrhus americanus</i>	Southern kingfish	10	14	1	0	32	46	21	12	28	18	34	222
<i>Micropogonias undulatus</i>	Atlantic croaker	0	5	2	3	0	0	0	0	0	0	1	4
<i>Sciaenops ocellatus</i>	Red drum	38	5	2	0	0	0	0	4	2	11	12	34
<i>Chaetodipterus faber</i>	Atlantic spadefish	3	0	0	2	4	10	24	7	0	0	0	1
<i>Tilapia</i> spp.	Tilapias	0	0	0	0	1	0	0	1	0	0	0	0

Table B4. Page 3 of 3.

Trawl catch by month.

Number of monthly samples is indicated in parentheses.

Taxon	Common Name	Jan (24)	Feb (23)	Mar (24)	Apr (24)	May (30)	Jun (29)	Jul (30)	Aug (30)	Sep (30)	Oct (30)	Nov (32)	Dec (30)
<i>Gobiosoma</i> spp.	Gobiosoma gobies	3	13	49	144	75	0	0	1	38	6	0	0
<i>Gobiosoma bosc</i>	Naked goby	42	10	20	23	16	16	1	2	15	13	14	9
<i>Gobiosoma robustum</i>	Code goby	0	0	0	0	2	0	0	0	1	0	0	1
<i>Microgobius gulosus</i>	Clown goby	3	3	7	0	10	11	5	7	6	7	4	3
<i>Microgobius thalassinus</i>	Green goby	3	0	0	0	0	0	0	0	0	0	0	0
<i>Paralichthys albigutta</i>	Gulf flounder	0	0	0	0	0	2	2	0	0	0	1	0
<i>Trinectes maculatus</i>	Hogchoker	186	49	57	49	44	182	177	178	196	126	133	84
<i>Achirus lineatus</i>	Lined sole	0	0	1	0	1	4	3	8	0	3	0	0
<i>Symphurus plagiusa</i>	Blackcheek tonguefish	3	0	2	0	2	0	0	0	1	0	0	0
<i>Sphoeroides nephelus</i>	Southern puffer	1	0	2	0	1	0	1	0	0	0	1	0

Table B5, page 1 of 2. Location-specific seine catch.

Data are presented as mean number per deployment.

Organisms are listed in phylogenetic order.

Taxon	Common Name	Location (km from mouth)					
		0.0-2.5	2.5-5.1	5.1-7.7	7.7-10.2	10.2-12.7	12.7-16.1
<i>Farfantepenaeus duorarum</i>	Pink shrimp	0.76	0.21	0.13	0.02	0.00	0.00
<i>Palaemonetes</i> spp.	Grass shrimp	0.08	4.13	2.32	0.43	0.21	1.82
<i>Palaemonetes intermedius</i>	Riverine grass shrimp	1.05	1.64	0.06	1.96	0.00	0.00
<i>Palaemonetes paludosus</i>	Brackish grass shrimp	0.00	0.01	0.00	0.00	0.00	0.01
<i>Palaemonetes pugio</i>	Daggerblade grass shrimp	38.11	115.88	43.81	140.37	130.67	108.35
<i>Palaemon floridanus</i>	Florida grass shrimp	0.00	0.01	0.00	0.00	0.00	0.00
<i>Callinectes sapidus</i>	Blue crab	0.38	0.59	0.65	0.48	0.50	0.03
<i>Dasyatis say</i>	Bluntnose stingray	0.00	0.00	0.01	0.00	0.00	0.00
<i>Rhinoptera bonasus</i>	Cownose ray	0.00	0.06	0.00	0.00	0.00	0.00
<i>Lepisosteus</i> spp.	Gars	0.00	0.00	0.00	0.00	0.00	0.01
<i>Lepisosteus osseus</i>	Longnose gar	0.02	0.01	0.00	0.03	0.01	0.00
<i>Lepisosteus platyrhincus</i>	Florida gar	0.00	0.00	0.00	0.04	0.03	0.06
<i>Amia calva</i>	Bowfin	0.00	0.01	0.00	0.00	0.00	0.00
<i>Elops saurus</i>	Ladyfish	0.00	0.15	0.31	1.11	0.54	0.33
<i>Albula vulpes</i>	Bonefish	0.00	0.01	0.00	0.00	0.00	0.00
<i>Clupeidae</i> spp.	Herrings	0.01	0.00	0.00	0.00	0.00	0.00
<i>Brevoortia</i> spp.	Menhadens	1.00	9.01	14.26	31.46	18.39	176.96
<i>Dorosoma</i> spp.	Dorosoma shads	0.00	0.00	0.00	0.01	0.00	0.00
<i>Dorosoma cepedianum</i>	Gizzard shad	0.01	0.00	0.00	0.00	0.00	0.00
<i>Dorosoma petenense</i>	Threadfin shad	0.08	0.11	0.03	0.02	0.01	1.64
<i>Opisthonema oglinum</i>	Atlantic thread herring	0.01	0.00	0.00	0.00	0.00	0.00
<i>Harengula jaguana</i>	Scaled sardine	0.97	0.07	0.00	0.00	0.00	0.00
<i>Anchoa hepsetus</i>	Striped anchovy	31.82	2.29	1.38	0.54	0.01	0.03
<i>Anchoa mitchilli</i>	Bay anchovy	657.53	717.69	998.60	299.94	124.71	37.16
<i>Synodus foetens</i>	Inshore lizardfish	0.10	0.08	0.03	0.00	0.00	0.00
<i>Notemigonus crysoleucas</i>	Golden shiner	0.01	0.16	0.00	0.89	0.04	0.18
<i>Notropis maculatus</i>	Taillight shiner	0.00	0.00	0.00	0.00	0.00	0.05
<i>Notropis petersoni</i>	Coastal shiner	0.00	0.00	0.00	0.02	0.02	0.21
<i>Bagre marinus</i>	Gafftopsail catfish	0.01	0.03	0.01	0.00	0.00	0.00
<i>Arius felis</i>	Hardhead catfish	0.00	0.04	0.00	0.00	0.00	0.00
Loricariidae spp.	Suckermouth catfish	0.00	0.01	0.00	0.00	0.00	0.01
<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	0.00	0.00	0.00	0.00	0.01	0.01
<i>Opsanus beta</i>	Gulf toadfish	0.05	0.06	0.01	0.00	0.00	0.00
<i>Gobiesox strumosus</i>	Skilletfish	0.02	0.07	0.01	0.01	0.00	0.00
<i>Strongylura</i> spp.	Needlefishes	0.14	0.08	0.08	0.01	0.05	0.00
<i>Strongylura marina</i>	Atlantic needlefish	0.09	0.04	0.05	0.03	0.02	0.00
<i>Strongylura notata</i>	Redfin needlefish	0.08	0.01	0.01	0.04	0.00	0.00
<i>Strongylura timucu</i>	Timucu	0.06	0.05	0.07	0.04	0.04	0.01
<i>Cyprinodon variegatus</i>	Sheepshead minnow	0.01	3.03	6.48	9.57	5.02	3.52
<i>Fundulus</i> spp.	Assorted killifish	0.00	0.00	0.00	0.01	0.00	0.00
<i>Fundulus confluentus</i>	Marsh killifish	0.00	0.00	0.00	0.01	0.03	0.21
<i>Fundulus majalis</i>	Striped killifish	0.00	7.05	6.03	1.10	0.02	0.00
<i>Fundulus grandis</i>	Gulf killifish	0.06	2.54	7.50	13.90	3.68	0.61
<i>Fundulus chrysotus</i>	Golden topminnow	0.00	0.00	0.00	0.00	0.00	0.01
<i>Fundulus seminolis</i>	Seminole killifish	0.00	0.00	0.02	0.16	0.81	0.56
<i>Lucania parva</i>	Rainwater killifish	0.04	2.08	4.78	10.05	18.34	28.90
<i>Lucania goodei</i>	Bluefin killifish	0.00	0.00	0.00	0.00	0.02	0.01
<i>Adinia xenica</i>	Diamond killifish	0.01	0.00	0.00	0.00	0.00	0.00
<i>Floridichthys carpio</i>	Goldspotted killifish	0.01	0.01	0.07	0.00	0.07	0.00
<i>Gambusia holbrooki</i>	Eastern mosquito fish	0.57	1.36	2.78	7.28	31.39	104.21
<i>Poecilia latipinna</i>	Sailfin molly	0.03	2.93	1.66	7.00	15.12	32.71
<i>Heterandria formosa</i>	Least killifish	0.00	0.00	0.00	0.00	0.02	0.00
<i>Xiphophorus</i> spp.	Swordtails	0.00	0.00	0.00	0.00	0.02	0.00
<i>Membras martinica</i>	Rough silverside	3.47	0.28	0.01	0.21	0.00	0.00
<i>Menidia</i> spp.	Silversides	53.98	168.19	258.27	223.33	299.45	316.58
<i>Labidesthes sicculus</i>	Brook silverside	0.01	0.02	0.00	0.30	0.73	2.80
<i>Syngnathus louisianae</i>	Chain pipefish	0.05	0.09	0.02	0.01	0.00	0.00
<i>Syngnathus scovelli</i>	Gulf pipefish	0.13	0.20	0.09	0.13	0.04	0.01
<i>Prionotus scitulus</i>	Leopard searobin	0.03	0.00	0.00	0.00	0.00	0.00
<i>Centropomus undecimalis</i>	Snook	0.04	0.04	0.09	0.10	0.15	0.00
<i>Lepomis</i> spp.	Sunfishes	0.00	0.01	0.00	0.04	0.12	0.09
<i>Lepomis auritus</i>	Redbreast sunfish	0.00	0.00	0.01	0.02	0.12	0.06

Table B5, page 2 of 2. Location-specific seine catch.

Data are presented as mean number per deployment.

Organisms are listed in phylogenetic order.

Taxon	Common Name	Location (km from mouth)					
		0.0-2.5	2.5-5.1	5.1-7.7	7.7-10.2	10.2-12.7	12.7-16.1
<i>Lepomis gulosus</i>	Warmouth	0.00	0.00	0.01	0.00	0.00	0.01
<i>Lepomis macrochirus</i>	Bluegill	0.52	0.25	0.65	0.21	0.57	0.65
<i>Lepomis marginatus</i>	Dollar sunfish	0.00	0.00	0.00	0.02	0.05	0.02
<i>Lepomis microlophus</i>	Redear sunfish	0.03	0.00	0.12	0.04	0.61	0.46
<i>Lepomis punctatus</i>	Spotted sunfish	0.00	0.01	0.04	0.00	0.09	0.10
<i>Micropterus salmoides</i>	Largemouth bass	0.53	0.19	0.12	0.22	0.22	0.54
<i>Pomoxis nigromaculatus</i>	Black crappie	0.00	0.03	0.00	0.00	0.03	0.00
<i>Etheostoma fusiforme</i>	Swamp darter	0.00	0.00	0.00	0.00	0.01	0.12
<i>Caranx hippos</i>	Crevalle jack	0.00	0.00	0.02	0.00	0.00	0.00
<i>Oligoplites saurus</i>	Leatherjacket	0.60	0.76	0.48	0.32	0.11	0.02
<i>Lutjanus griseus</i>	Gray snapper	0.01	0.00	0.00	0.00	0.00	0.00
<i>Eucinostomus</i> spp.	Eucinostomus mojarra	6.76	16.04	5.03	1.05	0.54	0.04
<i>Eucinostomus gula</i>	Silver jenny	3.38	0.21	0.25	0.00	0.01	0.00
<i>Eucinostomus harengulus</i>	Tidewater mojarra	3.72	4.50	6.32	4.66	1.11	0.15
<i>Diapterus plumieri</i>	Striped mojarra	0.05	2.14	1.58	0.38	1.04	0.10
<i>Orthopristis chrysoptera</i>	Pigfish	0.03	0.00	0.00	0.00	0.00	0.00
<i>Lagodon rhomboides</i>	Pinfish	3.90	4.69	17.50	4.27	0.39	0.01
<i>Archosargus probatocephalus</i>	Sheepshead	0.07	0.08	0.07	0.14	0.17	0.03
<i>Diplodus holbrooki</i>	Spottail pinfish	0.00	0.00	0.04	0.00	0.00	0.00
<i>Cynoscion nebulosus</i>	Spotted seatrout	0.07	0.20	0.13	0.03	0.04	0.00
<i>Cynoscion arenarius</i>	Sand seatrout	0.06	1.74	0.65	0.43	0.17	0.04
<i>Bairdiella chrysoura</i>	Silver perch	0.32	10.83	0.01	0.20	0.00	0.00
<i>Leiostomus xanthurus</i>	Spot	30.08	22.30	36.43	37.09	7.34	1.83
<i>Menticirrhus americanus</i>	Southern kingfish	0.11	0.26	0.30	0.06	0.00	0.00
<i>Pogonias cromis</i>	Black drum	0.00	0.06	0.11	0.03	0.00	0.00
<i>Sciaenops ocellatus</i>	Red drum	1.80	4.87	6.38	1.61	0.24	0.03
<i>Chaetodipterus faber</i>	Atlantic spadefish	0.01	0.00	0.00	0.00	0.00	0.00
<i>Cichlasoma</i> spp.	Cichlasoma cichlids	0.00	0.00	0.00	0.00	0.00	0.01
<i>Tilapia</i> spp.	Tilapias	0.00	0.18	0.14	0.12	2.54	4.68
<i>Mugil</i> spp.	Mullet	0.00	0.00	0.00	0.41	0.01	0.00
<i>Mugil cephalus</i>	Striped mullet	2.20	21.15	17.11	10.04	3.20	0.09
<i>Mugil curema</i>	White mullet	0.00	0.00	0.00	0.00	0.03	0.00
<i>Mugil gyrans</i>	Fantail mullet	0.05	0.02	0.00	0.14	0.00	0.00
<i>Chasmodes saburrae</i>	Florida blenny	0.02	0.01	0.00	0.00	0.00	0.00
<i>Gobionellus smaragdus</i>	Emerald goby	0.01	0.00	0.00	0.00	0.00	0.00
<i>Gobiosoma</i> spp.	Gobiosoma gobies	1.14	1.18	1.92	0.73	0.45	0.54
<i>Gobiosoma bosc</i>	Naked goby	1.47	4.96	3.55	1.71	1.74	0.50
<i>Gobiosoma robustum</i>	Code goby	0.01	0.03	0.01	0.01	0.00	0.13
<i>Microgobius gulosus</i>	Clown goby	1.77	7.24	6.55	2.84	1.99	1.06
<i>Microgobius thalassinus</i>	Green goby	0.02	0.01	0.00	0.00	0.00	0.00
<i>Bathygobius soporator</i>	Frillfin goby	0.03	0.01	0.00	0.00	0.00	0.00
<i>Dormitator maculatus</i>	Fat sleeper	0.00	0.00	0.00	0.00	0.00	0.01
<i>Trinectes maculatus</i>	Hogchoker	0.47	4.32	5.84	4.38	7.21	3.80
<i>Achirus lineatus</i>	Lined sole	0.18	0.07	0.10	0.00	0.02	0.00
<i>Sphoeroides nephelus</i>	Southern puffer	0.05	0.04	0.00	0.00	0.00	0.00

Table B6, page 1 of 2. Location-specific trawl catch.

Data are presented as mean number per deployment.

Organisms are listed in phylogenetic order.

Taxon	Common Name	Location (km from mouth)				
		0.0-2.5	2.5-5.1	5.1-7.7	7.7-10.2	10.2-12.7
<i>Limulus polyphemus</i>	Horseshoe crab	0.28	0.00	0.00	0.00	0.00
<i>Farfantepenaeus duorarum</i>	Pink shrimp	1.70	0.91	0.08	0.00	0.00
<i>Palaemonetes</i> spp.	Grass shrimp	0.00	0.04	0.12	0.00	0.00
<i>Palaemonetes intermedius</i>	Brackish grass shrimp	0.00	0.00	0.02	0.00	0.00
<i>Palaemonetes pugio</i>	Daggerblade grass shrimp	0.51	0.72	1.85	0.75	0.71
<i>Lysmata amboinensis</i>	Cleaner shrimp	0.01	0.00	0.00	0.00	0.00
<i>Callinectes sapidus</i>	Blue crab	4.29	2.73	2.91	0.40	0.35
<i>Menippe</i> spp.	Stone crabs	0.22	0.01	0.00	0.00	0.00
<i>Dasyatis sabina</i>	Atlantic stingray	0.06	0.06	0.00	0.00	0.00
<i>Gymnura micrura</i>	Smooth butterfly ray	0.01	0.00	0.00	0.00	0.00
<i>Rhinoptera bonasus</i>	Cownose ray	0.00	0.01	0.00	0.00	0.00
<i>Lepisosteus osseus</i>	Longnose gar	0.00	0.00	0.02	0.00	0.00
<i>Elops saurus</i>	Ladyfish	0.00	0.01	0.02	0.05	0.00
<i>Brevoortia</i> spp.	Menhadens	0.00	0.00	0.00	0.00	0.01
<i>Dorosoma cepedianum</i>	Gizzard shad	0.00	0.00	0.05	0.00	0.00
<i>Opisthonema oglinum</i>	Atlantic thread herring	0.00	0.00	0.02	0.00	0.00
<i>Anchoa hepsetus</i>	Striped anchovy	0.01	0.66	0.18	0.00	0.00
<i>Anchoa mitchilli</i>	Bay anchovy	7.19	4.75	5.30	1.35	1.53
<i>Synodus foetens</i>	Inshore lizardfish	0.00	0.01	0.00	0.00	0.00
<i>Notropis petersoni</i>	Coastal shiner	0.00	0.00	0.00	0.00	0.01
<i>Ameiurus catus</i>	White catfish	0.01	0.22	0.21	0.34	0.06
<i>Ameiurus natalis</i>	Yellow bullhead	0.00	0.00	0.00	0.02	0.00
<i>Ictalurus punctatus</i>	Channel catfish	0.00	0.04	0.06	0.03	0.00
<i>Bagre marinus</i>	Gafftopsail catfish	0.01	0.10	0.08	0.00	0.00
<i>Arius felis</i>	Hardhead catfish	0.13	0.46	0.08	0.03	0.00
Loricariidae spp.	Suckermouth catfish	0.00	0.00	0.00	0.03	0.00
<i>Pterygoplichthys multiradiatus</i>	Orinoco sailfin catfish	0.00	0.00	0.00	0.00	0.01
<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	0.00	0.00	0.00	0.02	0.00
<i>Opsanus beta</i>	Gulf toadfish	2.07	0.33	0.09	0.02	0.00
<i>Gobiosox strumosus</i>	Skilletfish	0.23	0.31	0.03	0.00	0.00
<i>Cyprinodon variegatus</i>	Sheepshead minnow	0.00	0.00	0.00	0.00	0.31
<i>Fundulus grandis</i>	Gulf killifish	0.00	0.01	0.00	0.00	0.00
<i>Lucania parva</i>	Rainwater killifish	0.00	0.07	0.00	0.05	0.18
<i>Poecilia latipinna</i>	Sailfin molly	0.00	0.00	0.02	0.00	0.03
<i>Menidia</i> spp.	Silversides	0.01	0.06	0.03	0.25	0.25
<i>Syngnathus louisianae</i>	Chain pipefish	0.19	0.18	0.06	0.00	0.00
<i>Syngnathus scovelli</i>	Gulf pipefish	0.13	0.24	0.08	0.06	0.00
<i>Prionotus scitulus</i>	Leopard searobin	0.28	0.01	0.00	0.00	0.00
<i>Prionotus tribulus</i>	Bighead searobin	0.10	0.00	0.00	0.00	0.00
<i>Centropomus undecimalis</i>	Snook	0.00	0.00	0.00	0.02	0.00
<i>Lepomis auritus</i>	Redbreast sunfish	0.00	0.00	0.00	0.00	0.01
<i>Lepomis macrochirus</i>	Bluegill	0.00	0.01	0.03	0.22	0.19
<i>Micropterus salmoides</i>	Largemouth bass	0.00	0.00	0.00	0.00	0.01
<i>Pomoxis nigromaculatus</i>	Black crappie	0.00	0.00	0.02	0.09	0.13
<i>Echeneis naucrates</i>	Sharksucker	0.00	0.01	0.00	0.00	0.00
<i>Chloroscombrus chrysurus</i>	Atlantic bumper	0.07	0.00	0.02	0.00	0.00
<i>Oligoplites saurus</i>	Leatherjacket	0.00	0.00	0.00	0.00	0.01
<i>Hemicaranx amblyrhynchus</i>	Bluntnose jack	0.01	0.00	0.00	0.00	0.00
<i>Eucinostomus</i> spp.	Eucinostomus mojarra	0.38	0.99	0.02	0.02	0.01
<i>Eucinostomus gula</i>	Silver jenny	0.48	0.45	0.00	0.00	0.00
<i>Eucinostomus harengulus</i>	Tidewater mojarra	0.09	0.18	0.03	0.02	0.00
<i>Diapterus plumieri</i>	Striped mojarra	0.16	0.10	0.03	0.03	0.01
<i>Orthopristis chrysoptera</i>	Pigfish	0.03	0.00	0.00	0.00	0.00
<i>Lagodon rhomboides</i>	Pinfish	0.30	0.10	0.05	0.02	0.00
<i>Archosargus probatocephalus</i>	Sheepshead	0.70	0.12	0.14	0.20	0.04
<i>Cynoscion nebulosus</i>	Spotted seatrout	0.06	0.01	0.02	0.00	0.00

Table B6, page 2 of 2. Location-specific trawl catch.

Data are presented as mean number per deployment.

Organisms are listed in phylogenetic order.

Taxon	Common Name	Location (km from mouth)				
		0.0-2.5	2.5-5.1	5.1-7.7	7.7-10.2	10.2-12.7
<i>Cynoscion arenarius</i>	Sand seatrout	3.28	7.25	1.73	0.17	0.15
<i>Bairdiella chrysoura</i>	Silver perch	1.36	0.06	0.03	0.00	0.00
<i>Leiostomus xanthurus</i>	Spot	10.77	10.91	6.68	3.52	0.93
<i>Menticirrhus americanus</i>	Southern kingfish	4.84	1.16	0.32	0.06	0.01
<i>Micropogonias undulatus</i>	Atlantic croaker	0.07	0.10	0.05	0.00	0.00
<i>Sciaenops ocellatus</i>	Red drum	0.12	0.70	0.62	0.09	0.09
<i>Chaetodipterus faber</i>	Atlantic spadefish	0.70	0.03	0.02	0.00	0.00
<i>Tilapia</i> spp.	Tilapias	0.00	0.00	0.00	0.00	0.01
<i>Gobiosoma</i> spp.	Gobiosoma gobies	0.14	3.70	0.27	0.80	0.00
<i>Gobiosoma bosc</i>	Naked goby	0.48	1.22	0.70	0.23	0.07
<i>Gobiosoma robustum</i>	Code goby	0.01	0.00	0.02	0.02	0.00
<i>Microgobius gulosus</i>	Clown goby	0.26	0.33	0.14	0.12	0.13
<i>Microgobius thalassinus</i>	Green goby	0.00	0.00	0.05	0.00	0.00
<i>Paralichthys albigutta</i>	Gulf flounder	0.07	0.00	0.00	0.00	0.00
<i>Trinectes maculatus</i>	Hogchoker	2.38	7.66	6.65	1.97	3.18
<i>Achirus lineatus</i>	Lined sole	0.25	0.04	0.00	0.00	0.00
<i>Symphurus plagiusa</i>	Blackcheek tonguefish	0.12	0.00	0.00	0.00	0.00
<i>Sphoeroides nephelus</i>	Southern puffer	0.06	0.03	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

Appendix C:
Length-frequency plots for selected taxa

Farfantepenaeus duorarum (Pink shrimp)

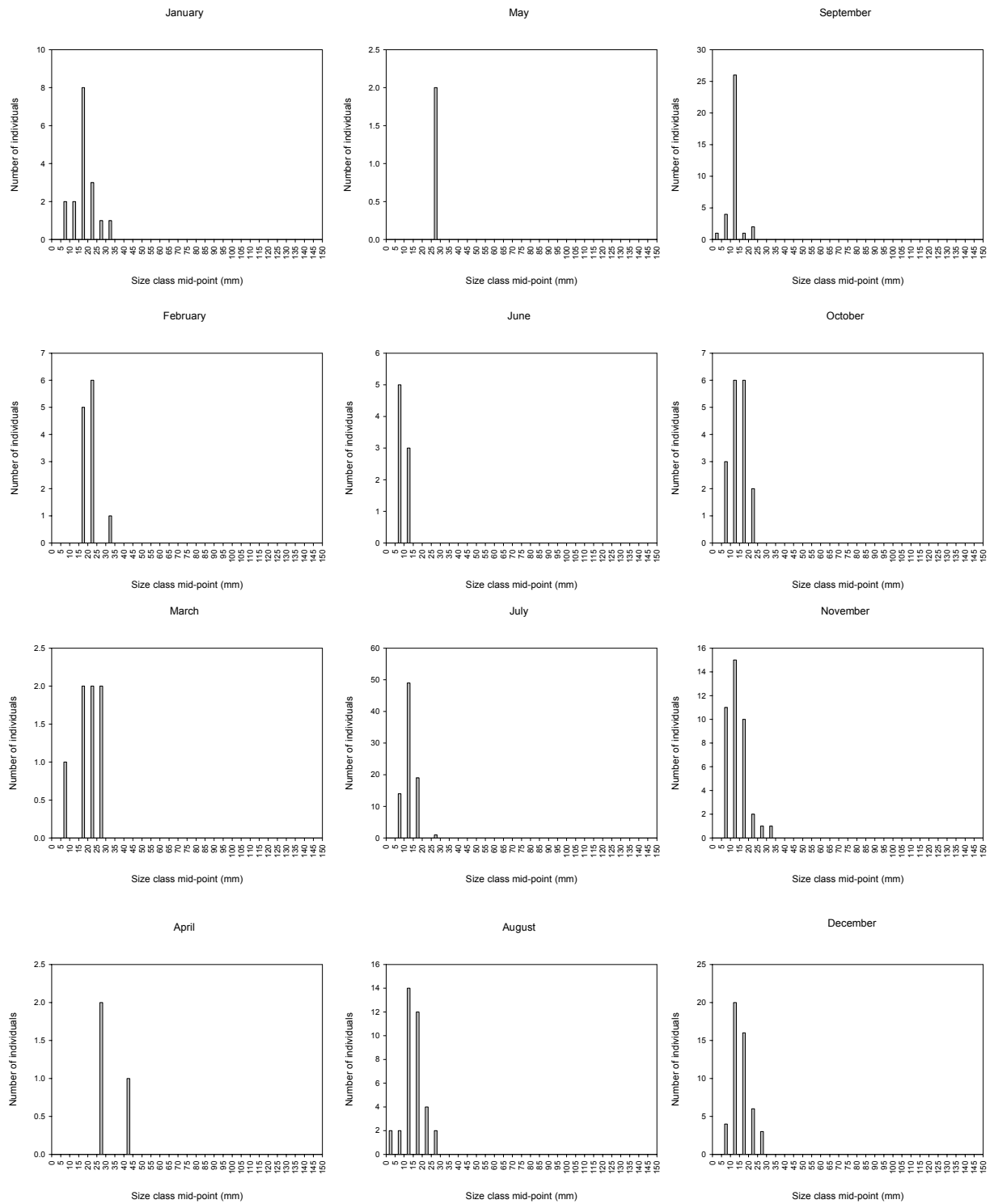


Fig. C1. Monthly length frequencies of Pink shrimp collected in seines and trawls.

Callinectes sapidus (Blue crab)

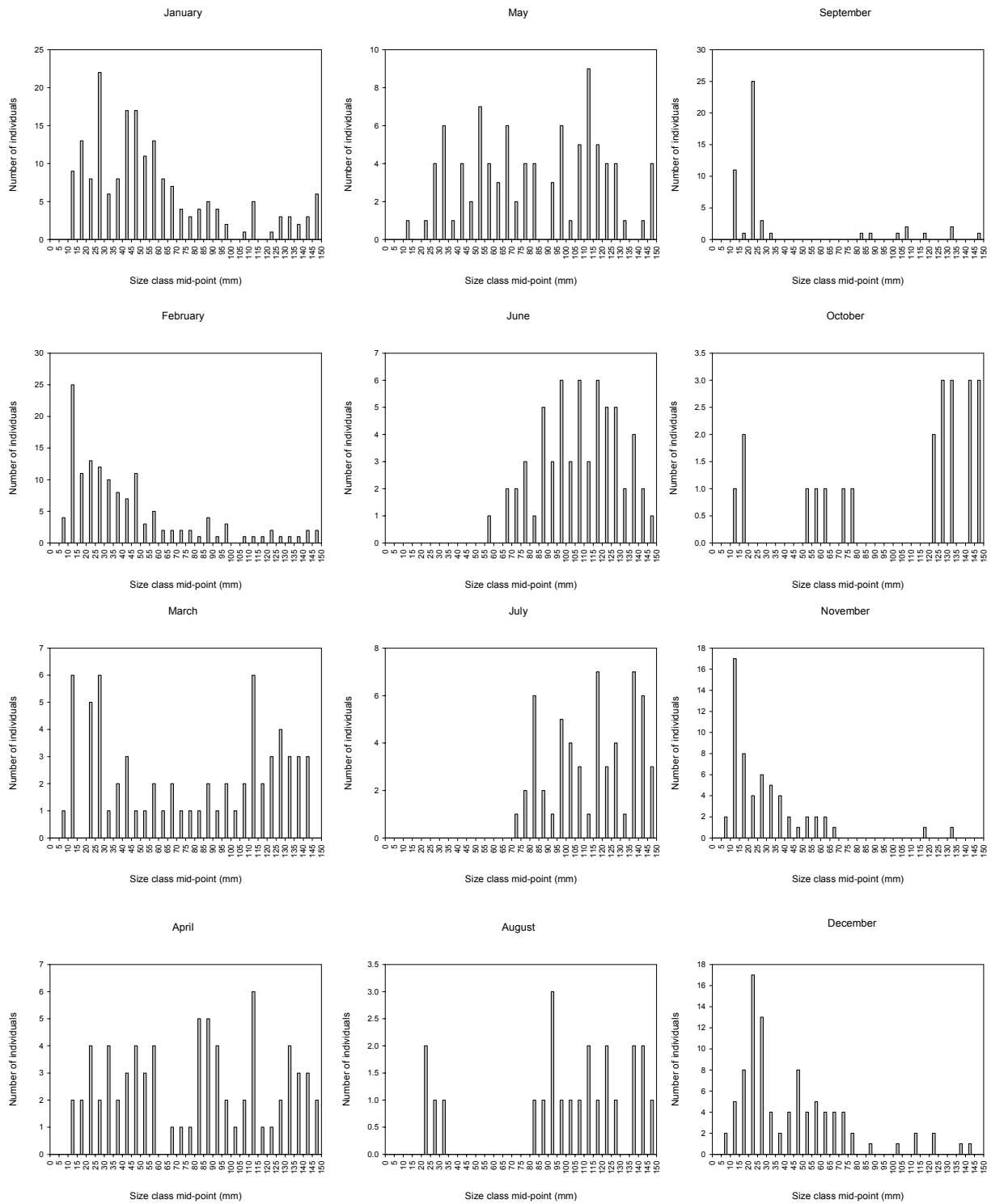


Fig. C2. Monthly length frequencies of Blue crab collected in seines and trawls.

Elops saurus (Ladyfish)

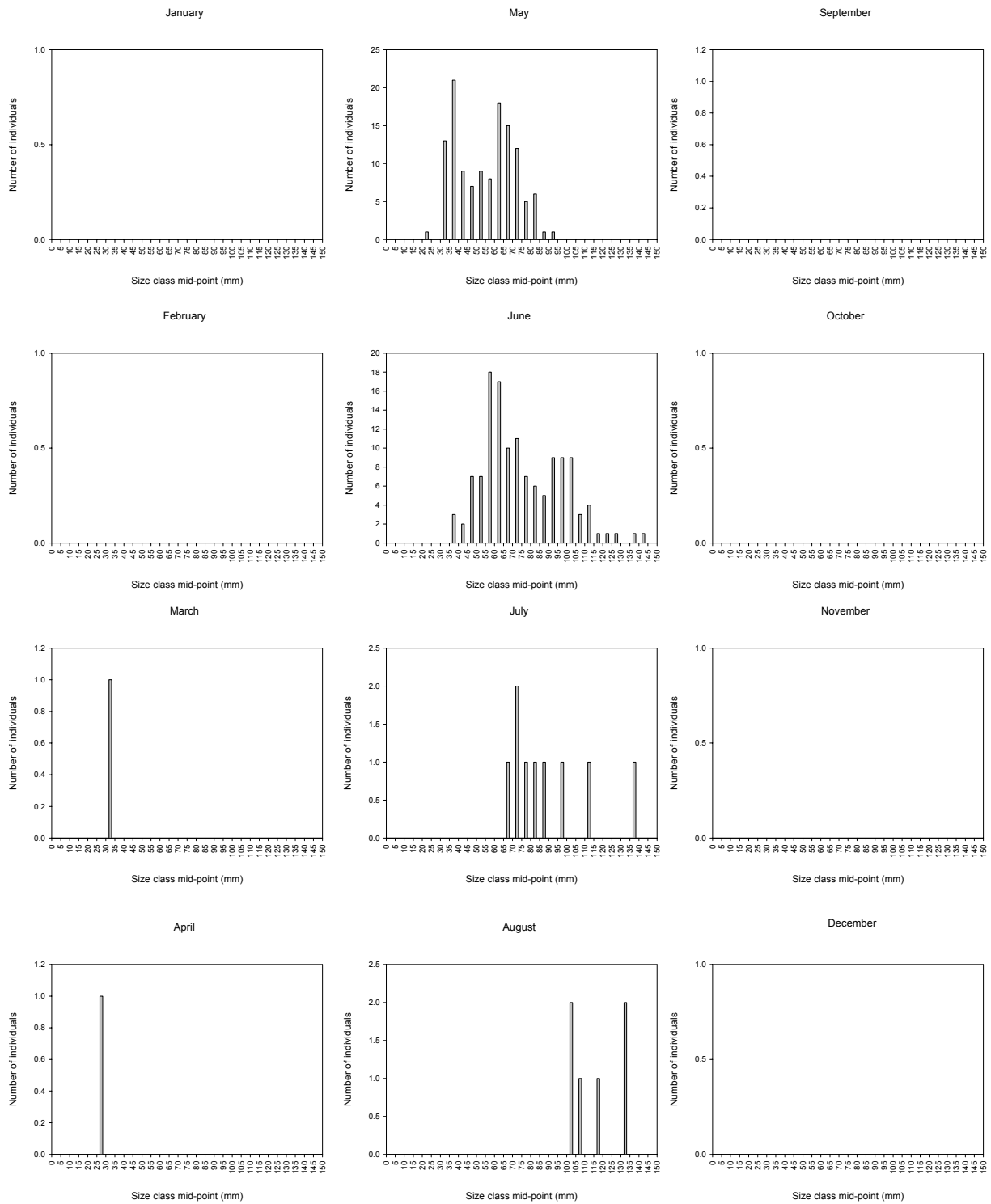


Fig. C3. Monthly length frequencies of Ladyfish collected in seines and trawls.

Brevoortia spp. (Menhadens)

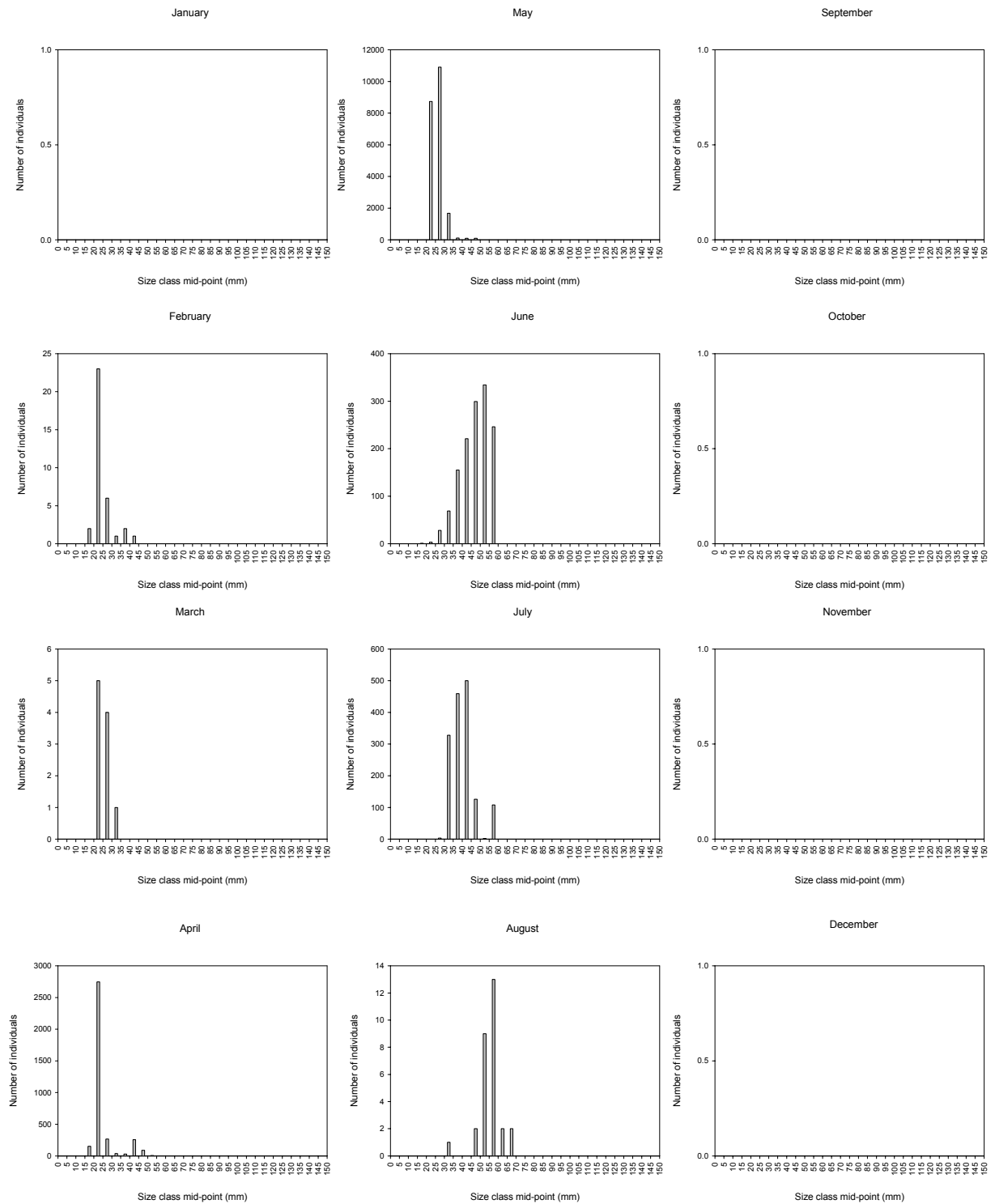


Fig. C4. Monthly length frequencies of Menhadens collected in seines and trawls.

Anchoa hepsetus (Striped anchovy)

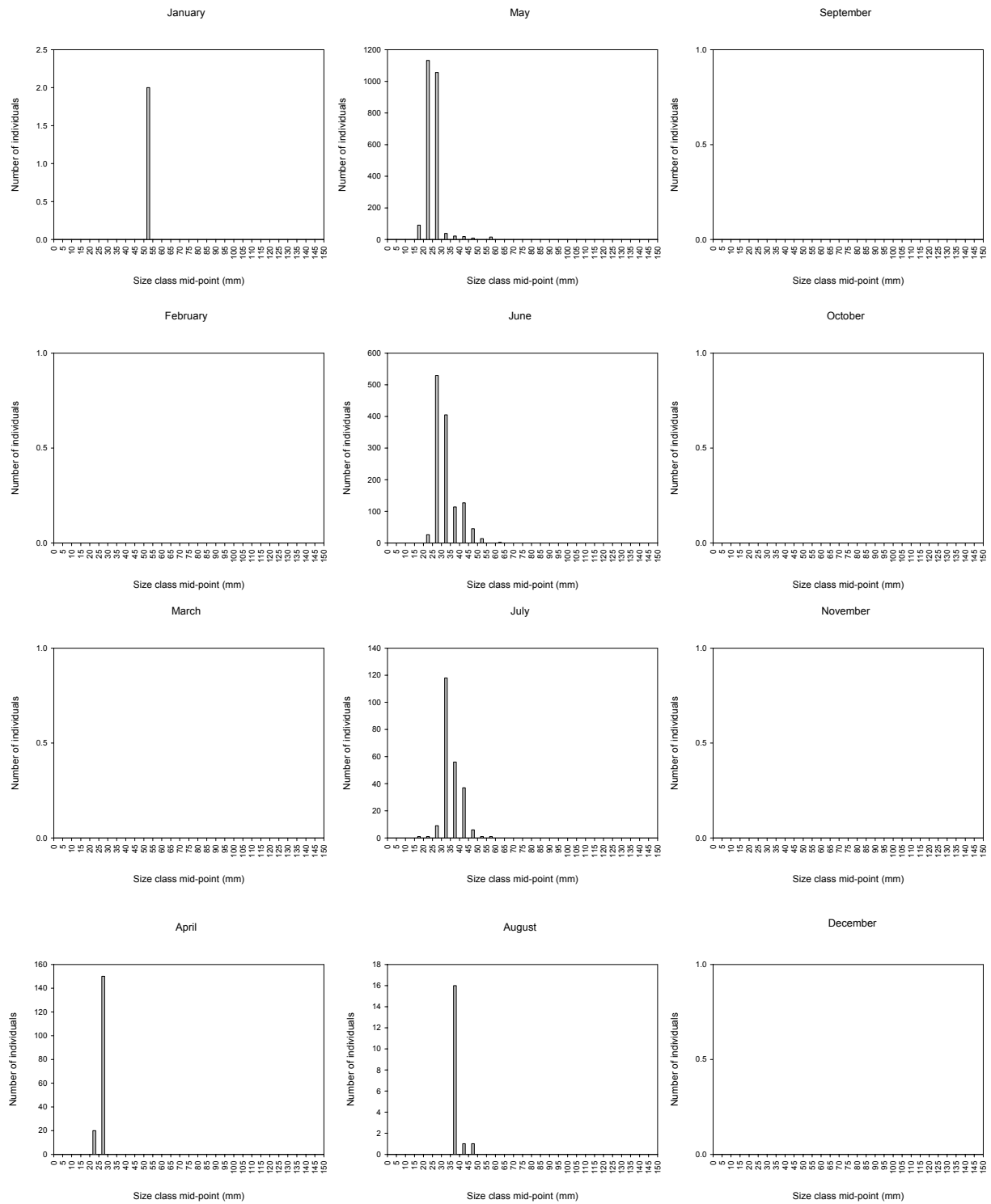


Fig. C5. Monthly length frequencies of Striped anchovy collected in seines and trawls.

Anchoa mitchilli (Bay anchovy)

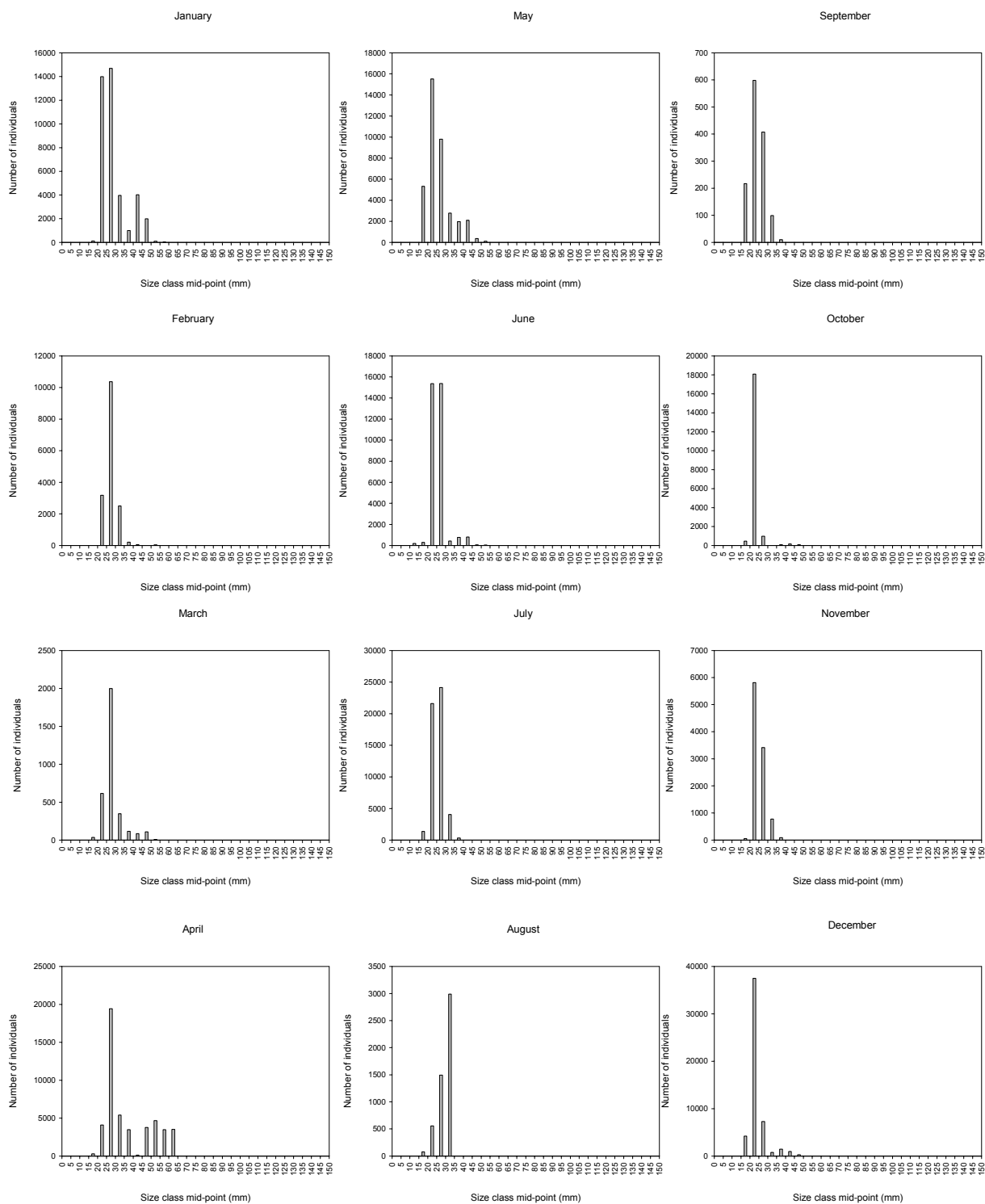


Fig. C6. Monthly length frequencies of Bay anchovy collected in seines and trawls.

Opsanus beta (Gulf toadfish)

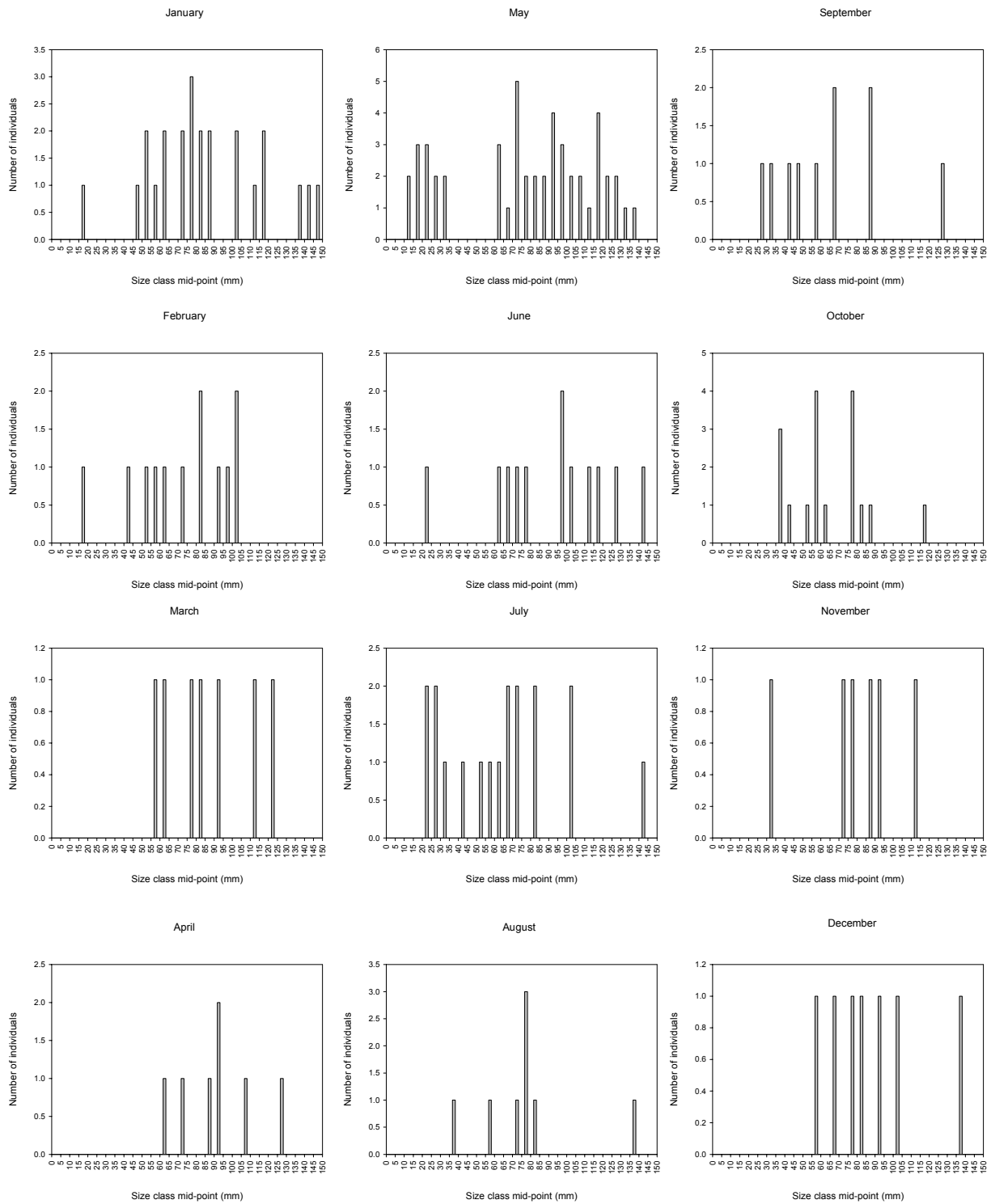


Fig. C7. Monthly length frequencies of Gulf toadfish collected in seines and trawls.

Cyprinodon variegatus (Sheepshead minnow)

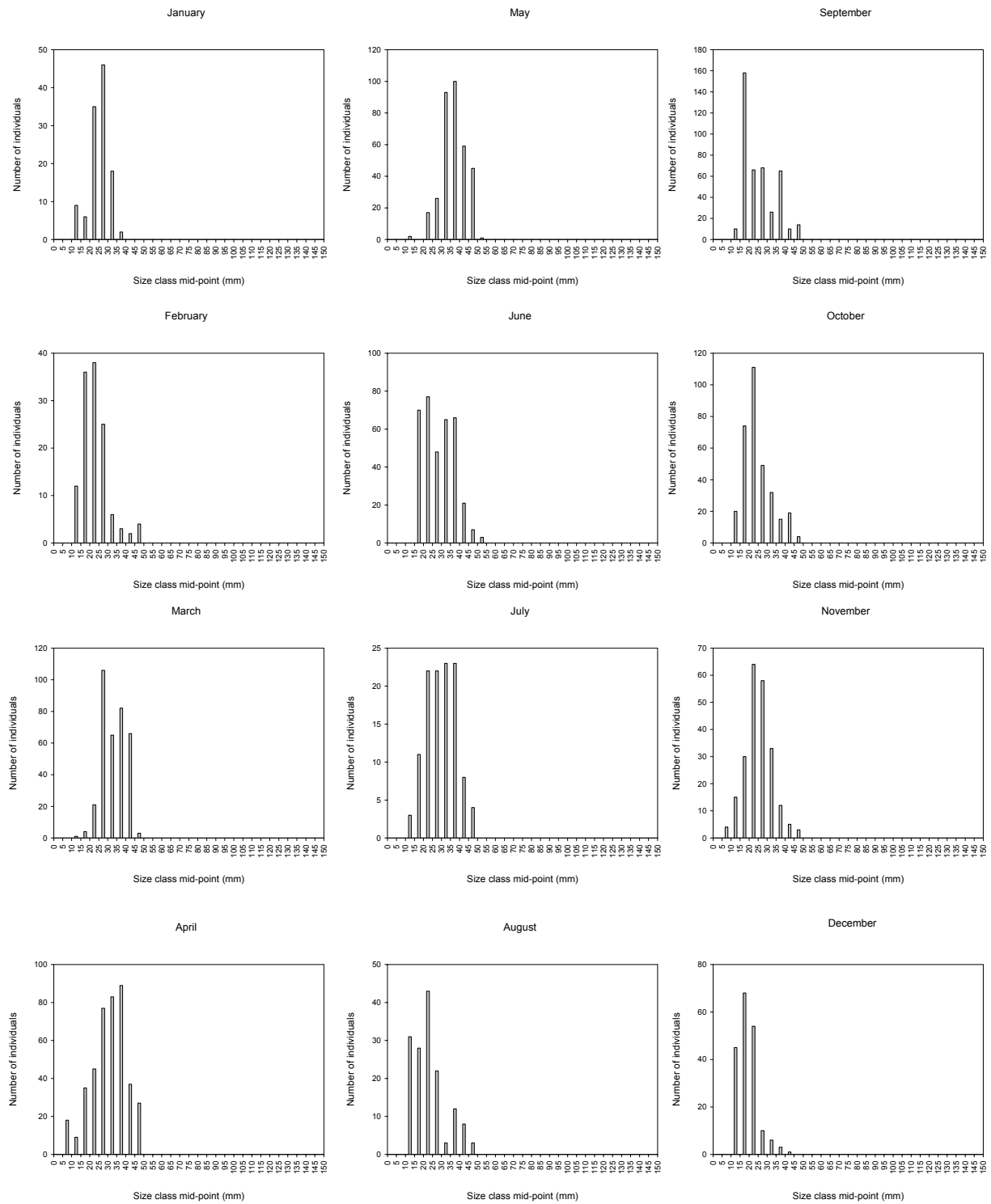


Fig. C8. Monthly length frequencies of Sheepshead minnow collected in seines and trawls.

Fundulus majalis (Striped killifish)

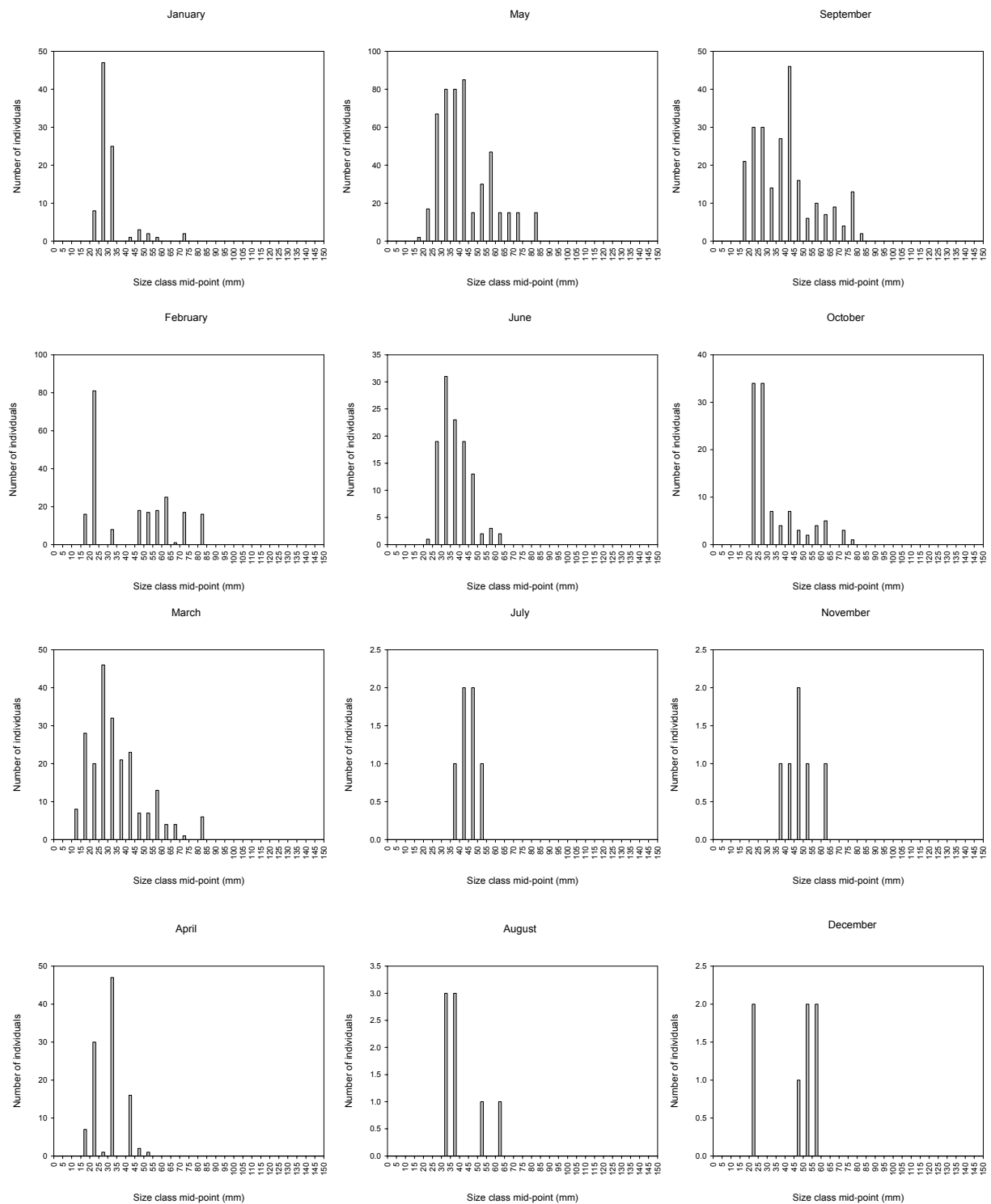


Fig. C9. Monthly length frequencies of Striped killifish collected in seines and trawls.

Fundulus grandis (Gulf killifish)

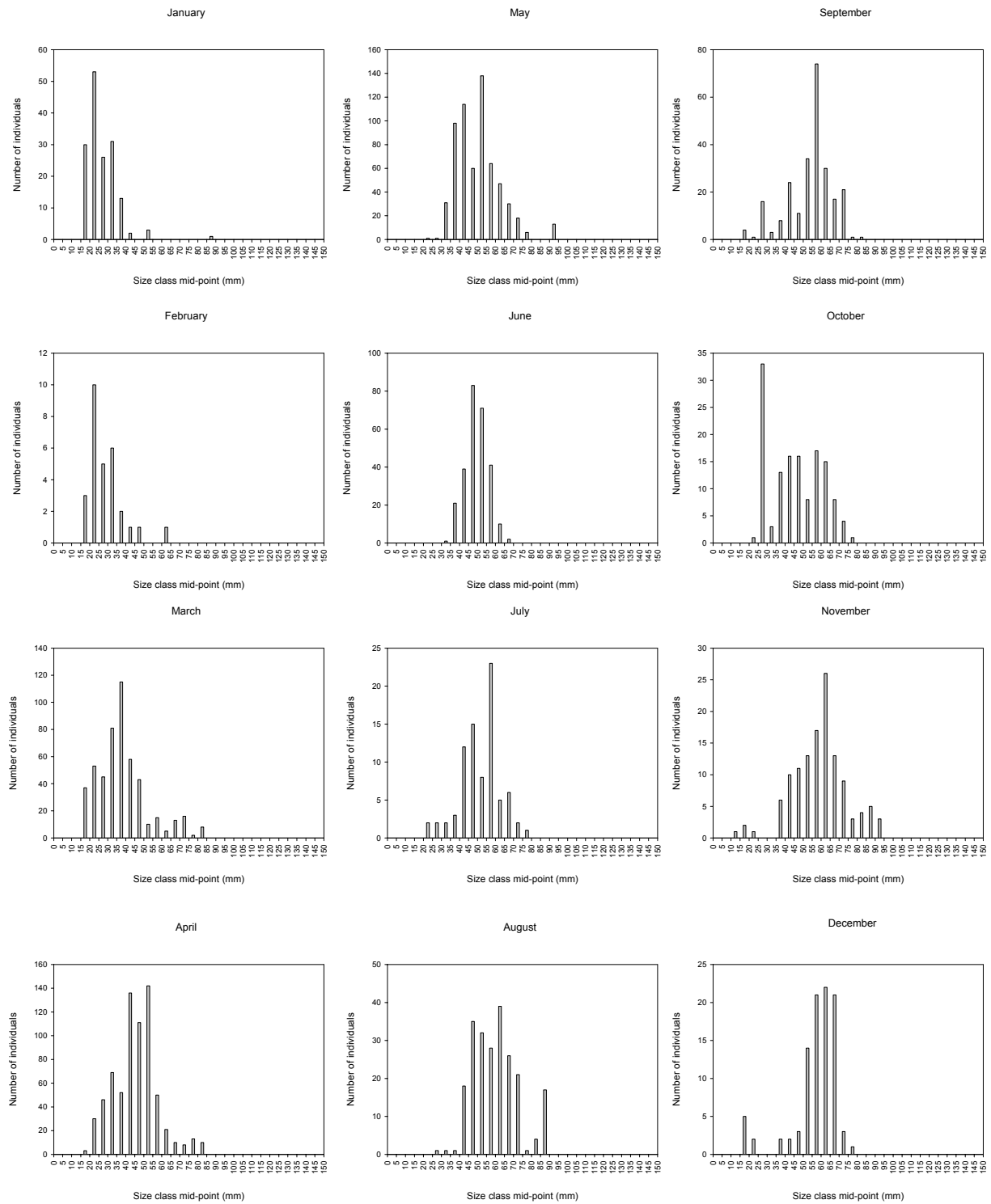


Fig. C10. Monthly length frequencies of Gulf killifish collected in seines and trawls.

***Fundulus seminolis* (Seminole killifish)**

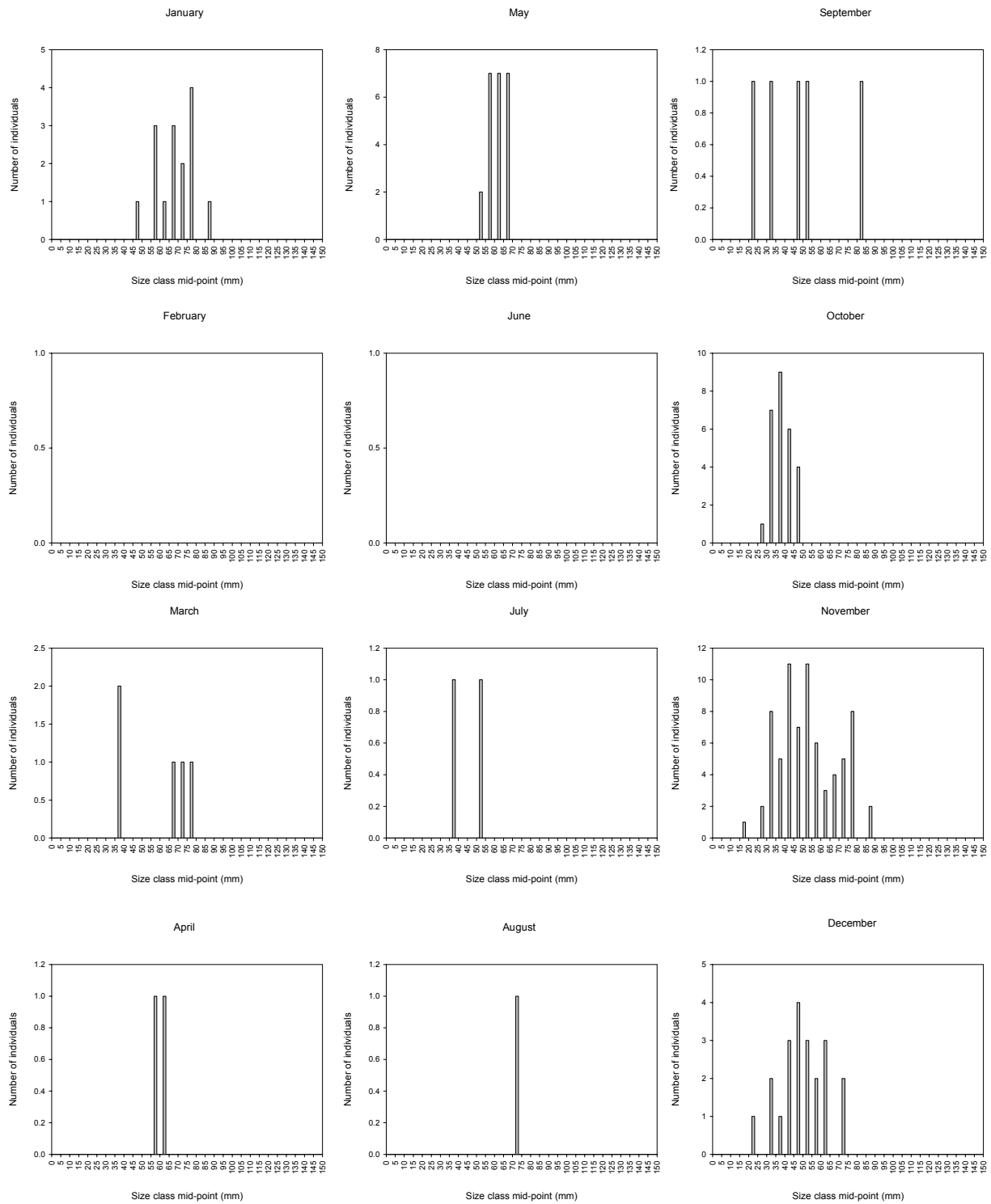


Fig. C11. Monthly length frequencies of Seminole killifish collected in seines and trawls.

Lucania parva (Rainwater killifish)

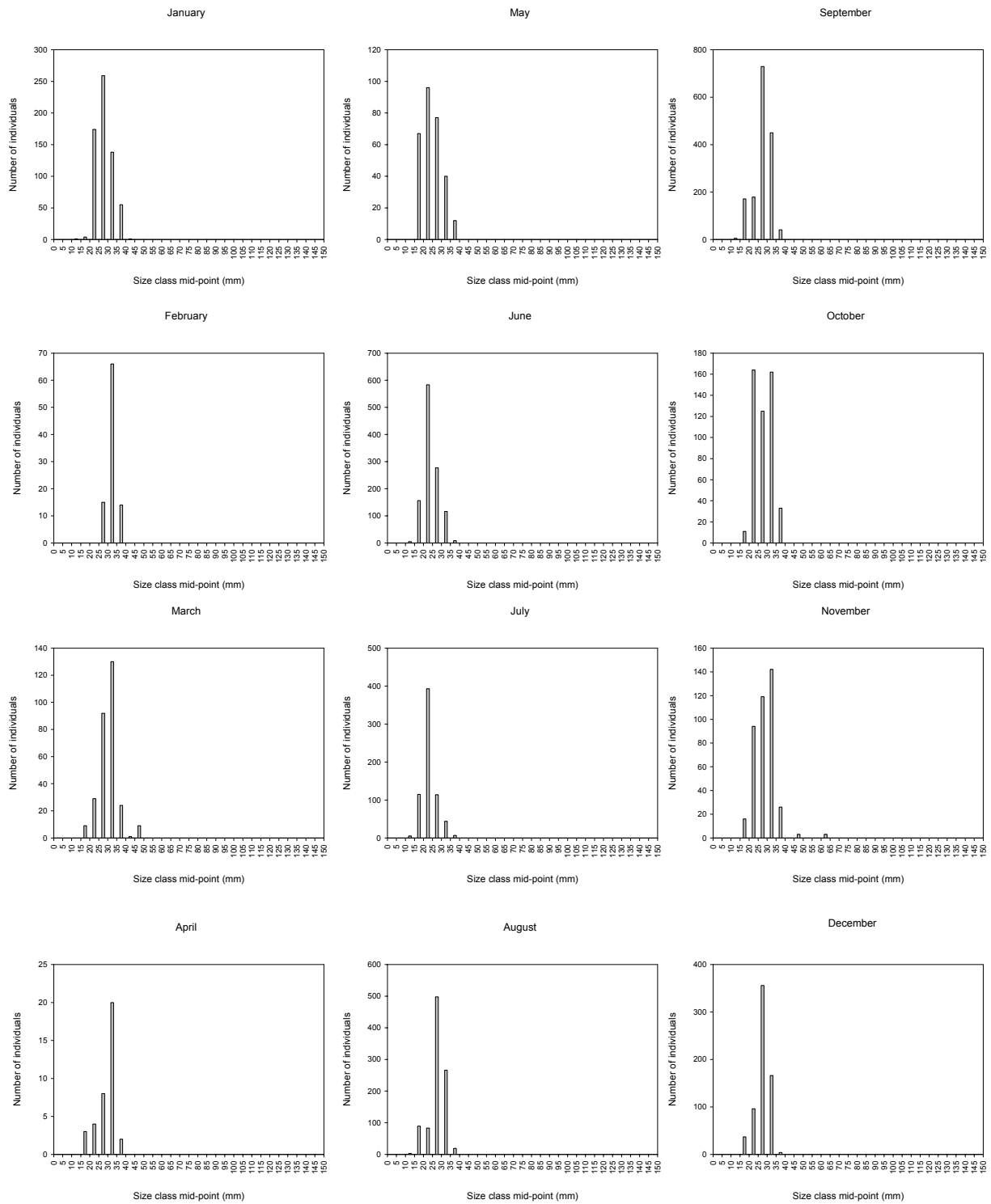


Fig. C12. Monthly length frequencies of Rainwater killifish collected in seines and trawls.

Gambusia holbrooki (Eastern mosquito fish)

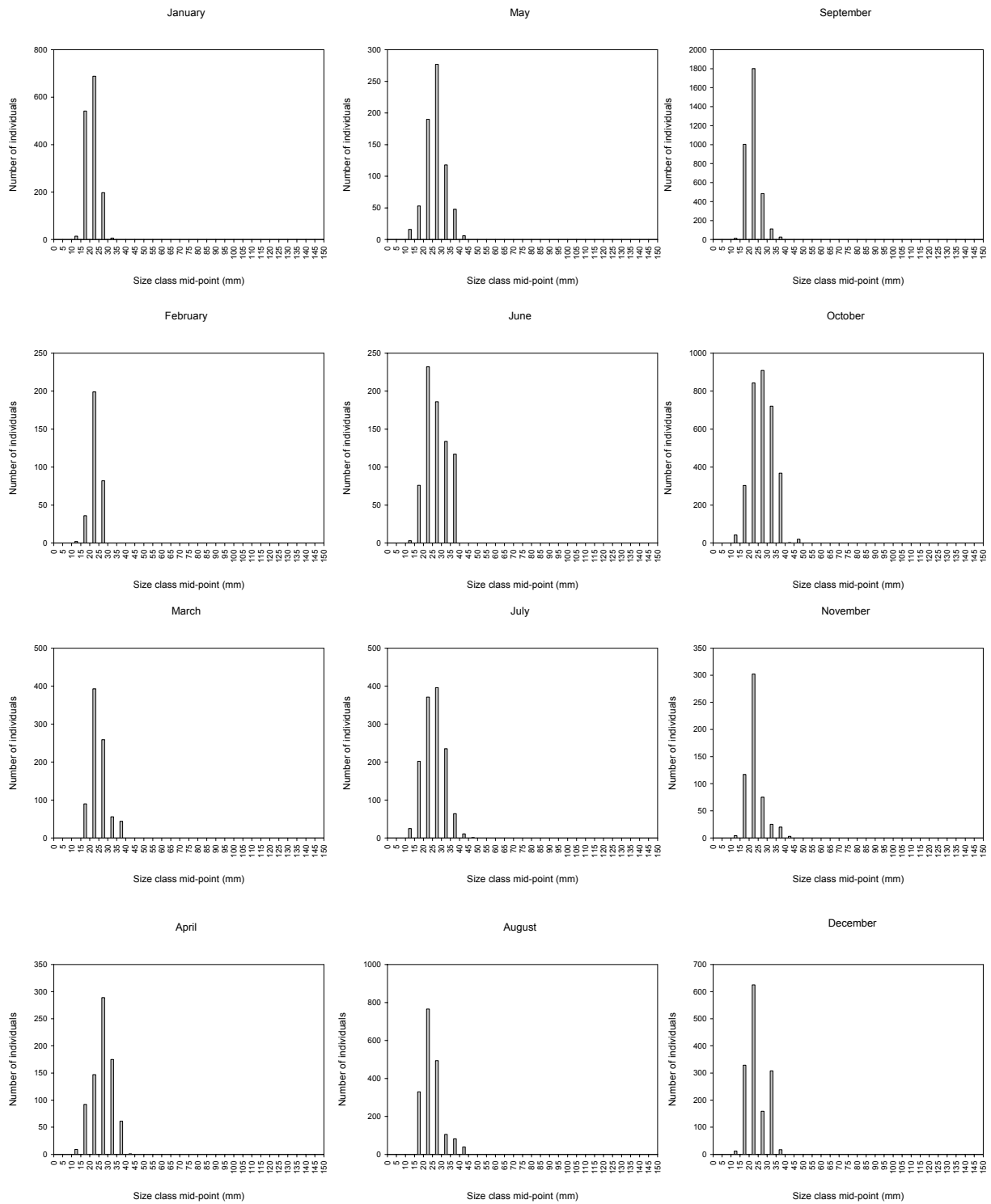


Fig. C13. Monthly length frequencies of Eastern mosquito fish collected in seines and trawls.

Poecilia latipinna (Sailfin molly)

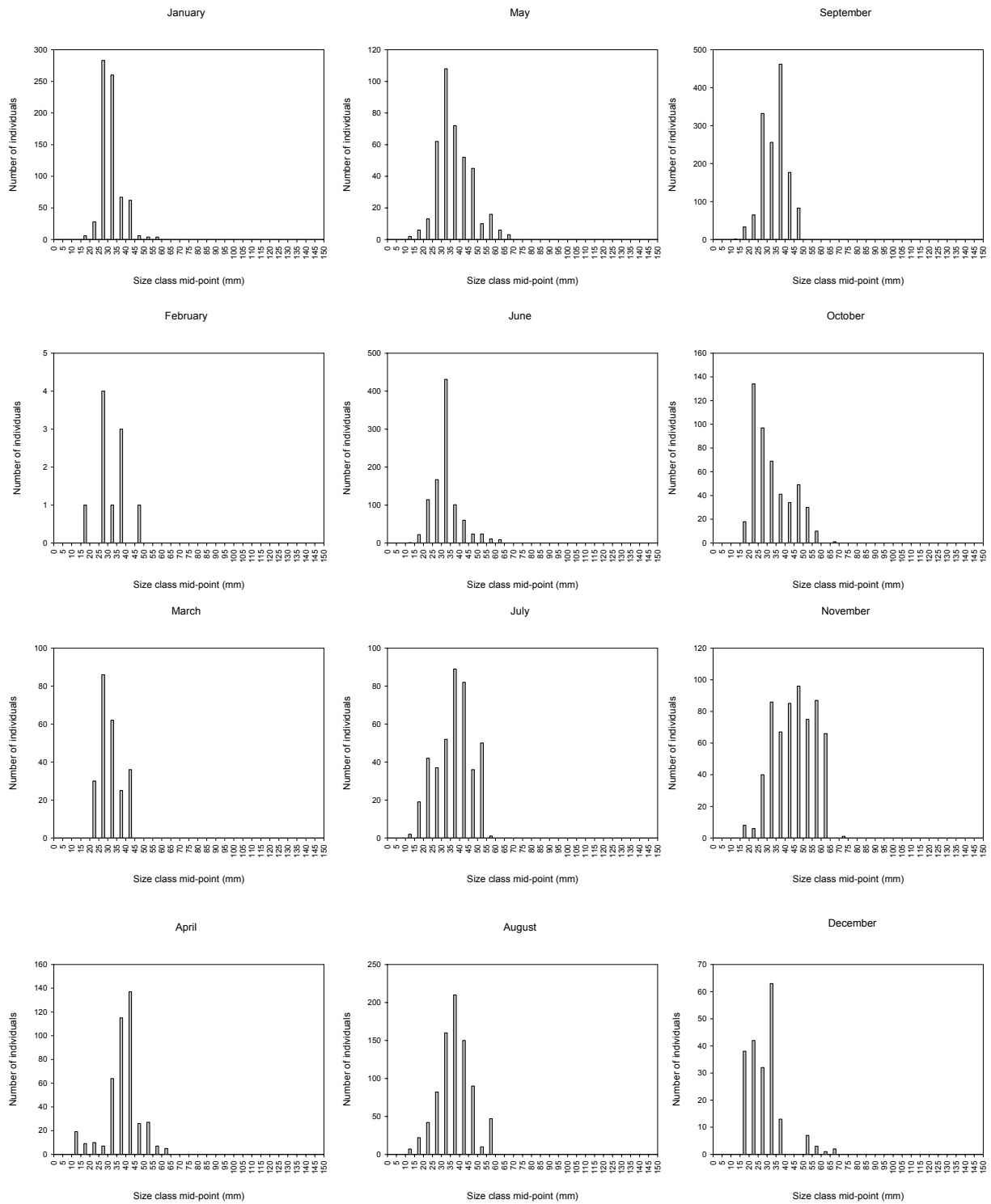


Fig. C14. Monthly length frequencies of Sailfin molly collected in seines and trawls.

Menidia spp. (Silversides)

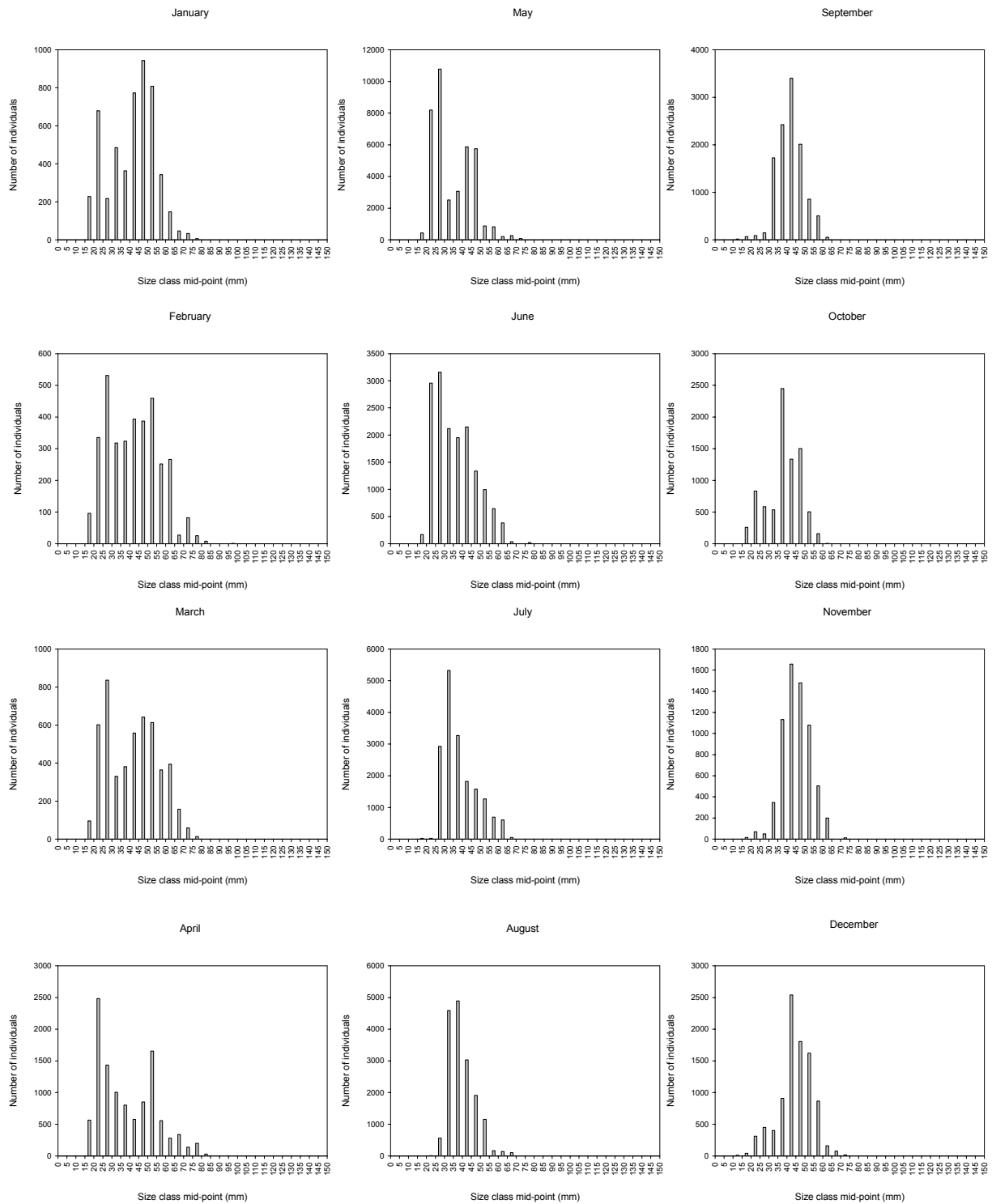


Fig. C15. Monthly length frequencies of Silversides collected in seines and trawls.

Labidesthes sicculus (Brook silverside)

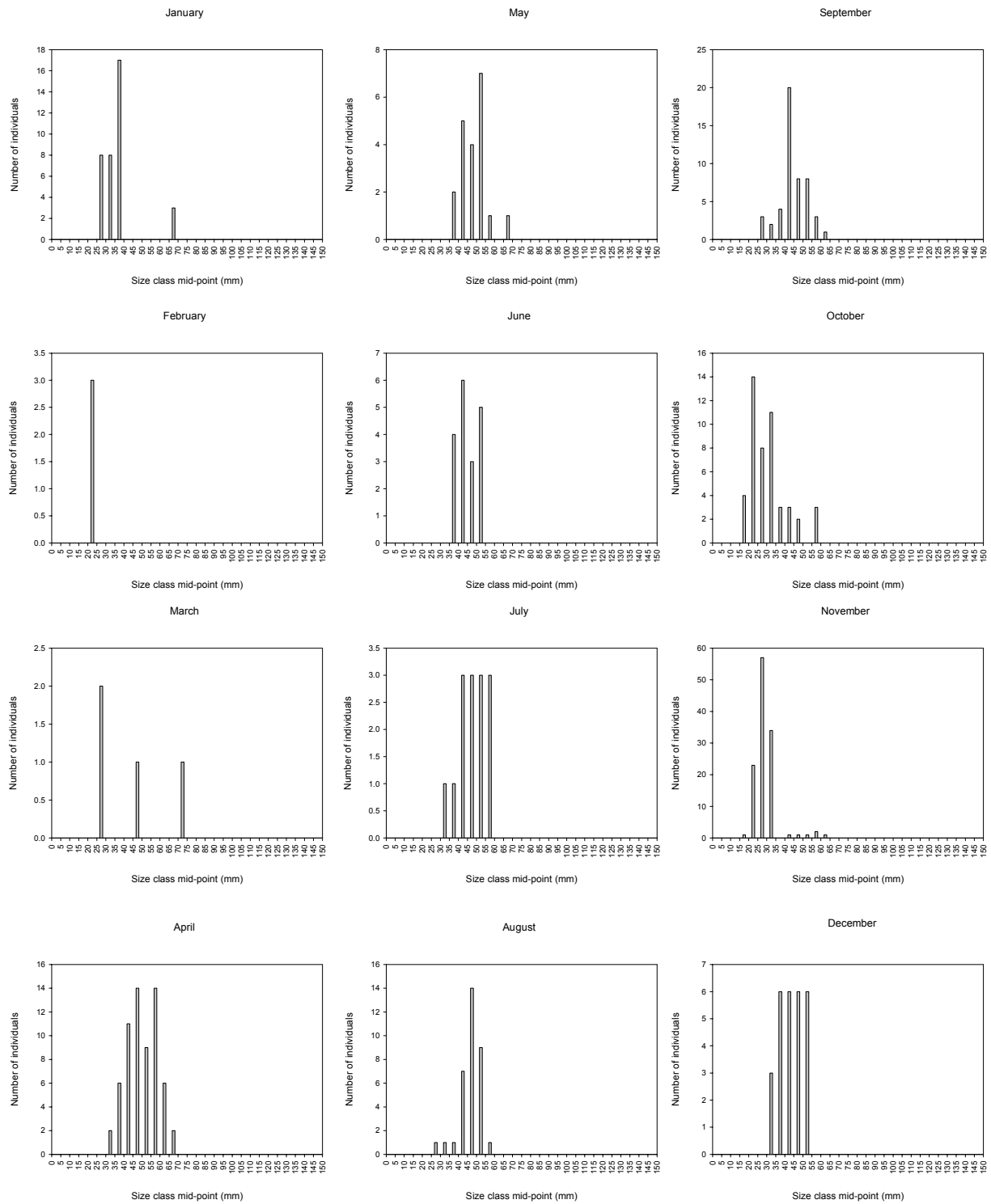


Fig. C16. Monthly length frequencies of Brook silverside collected in seines and trawls.

Syngnathus scovelli (Gulf pipefish)

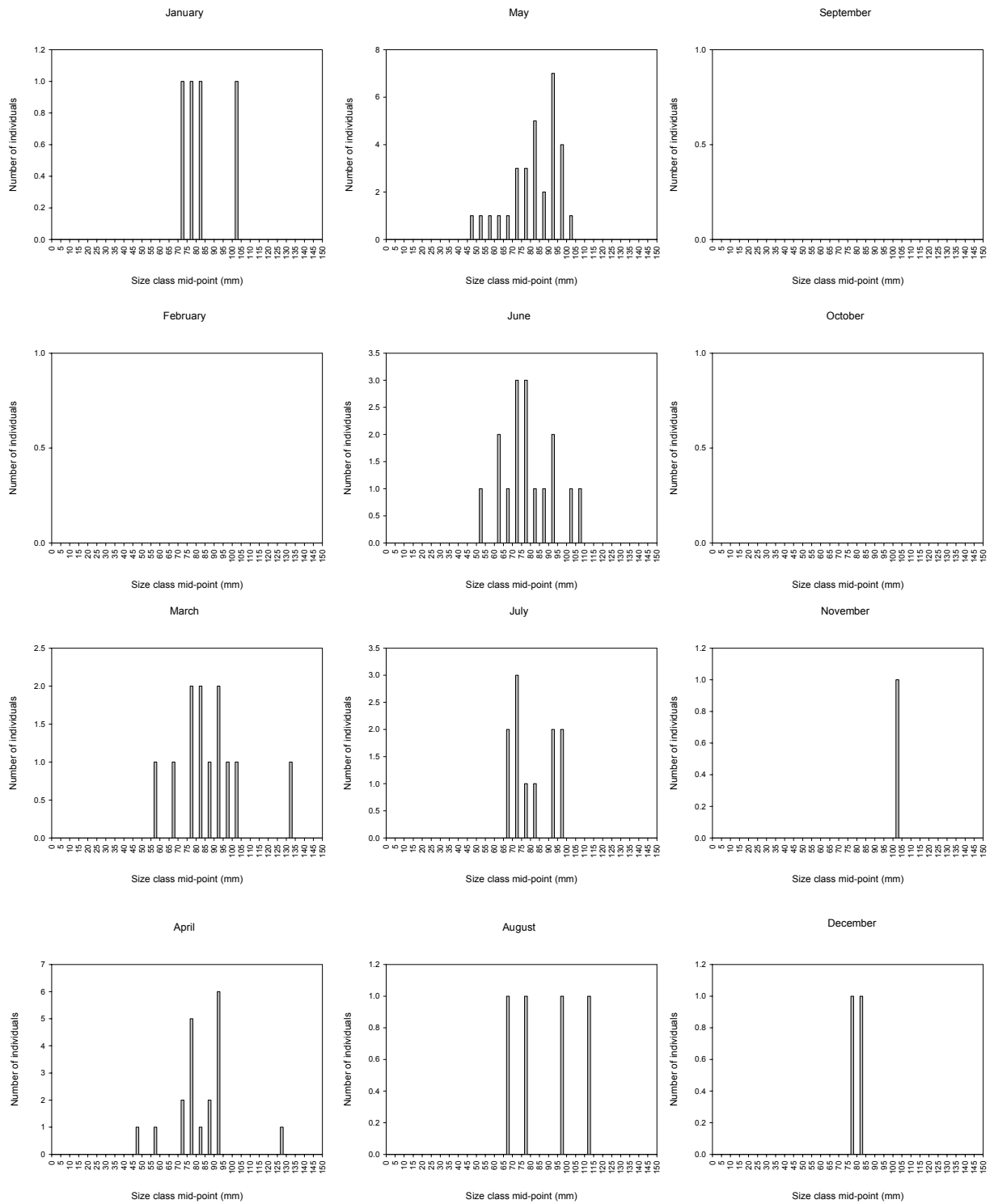


Fig. C17. Monthly length frequencies of Gulf pipefish collected in seines and trawls.

Lepomis macrochirus (Bluegill)

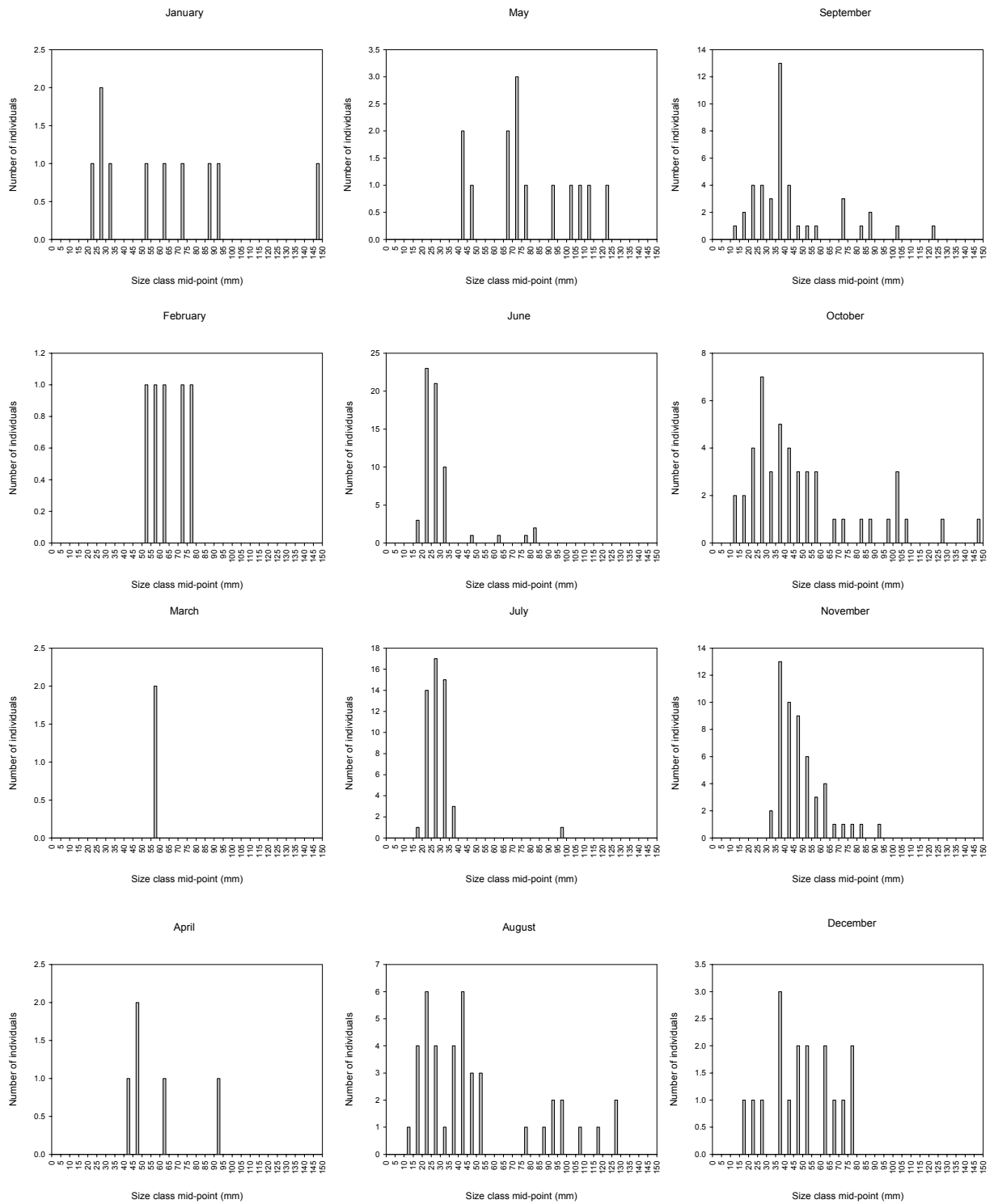


Fig. C18. Monthly length frequencies of Bluegill collected in seines and trawls.

Micropterus salmoides (Largemouth bass)

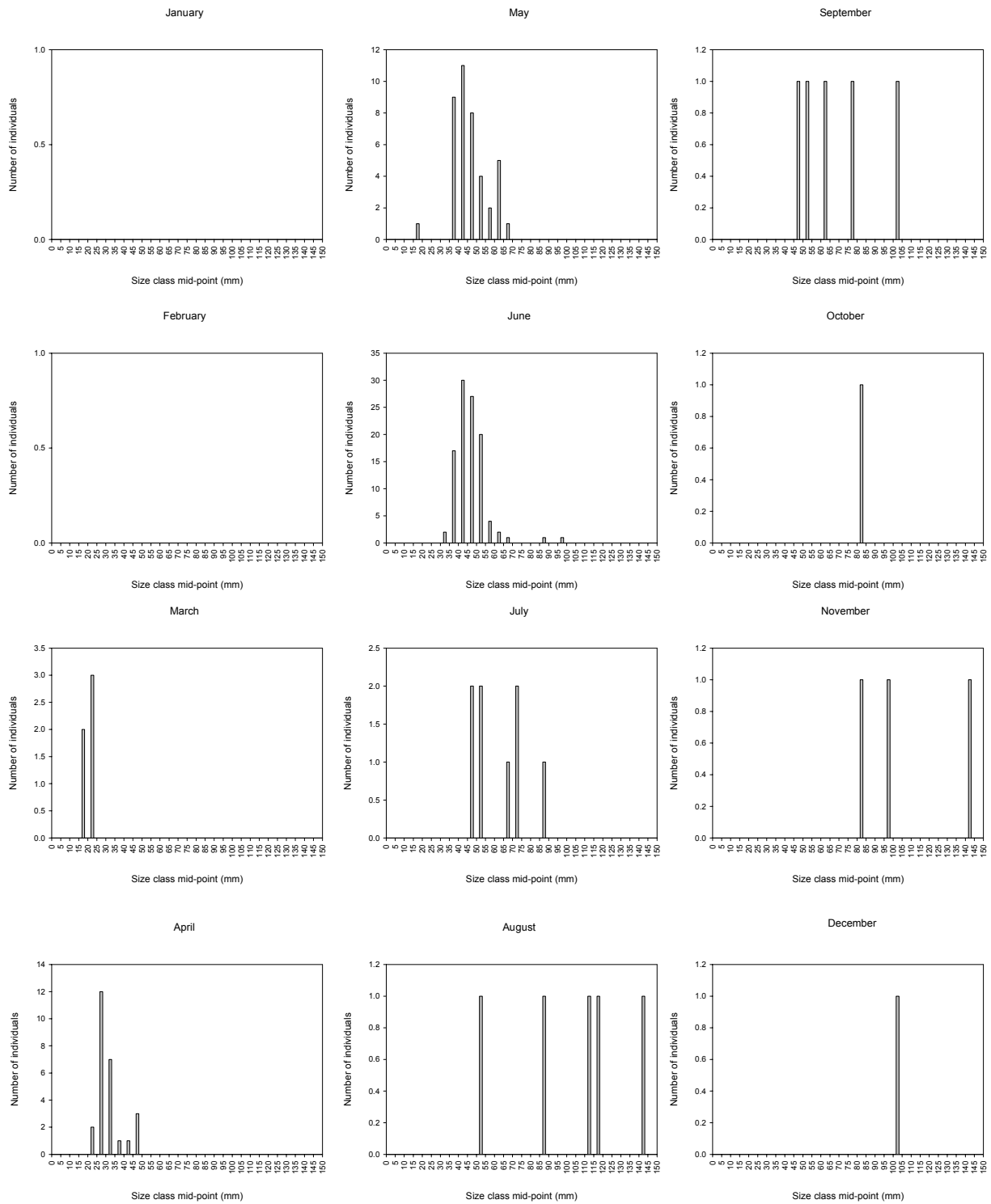


Fig. C19. Monthly length frequencies of Largemouth bass collected in seines and trawls.

Oligoplites saurus (Leatherjacket)

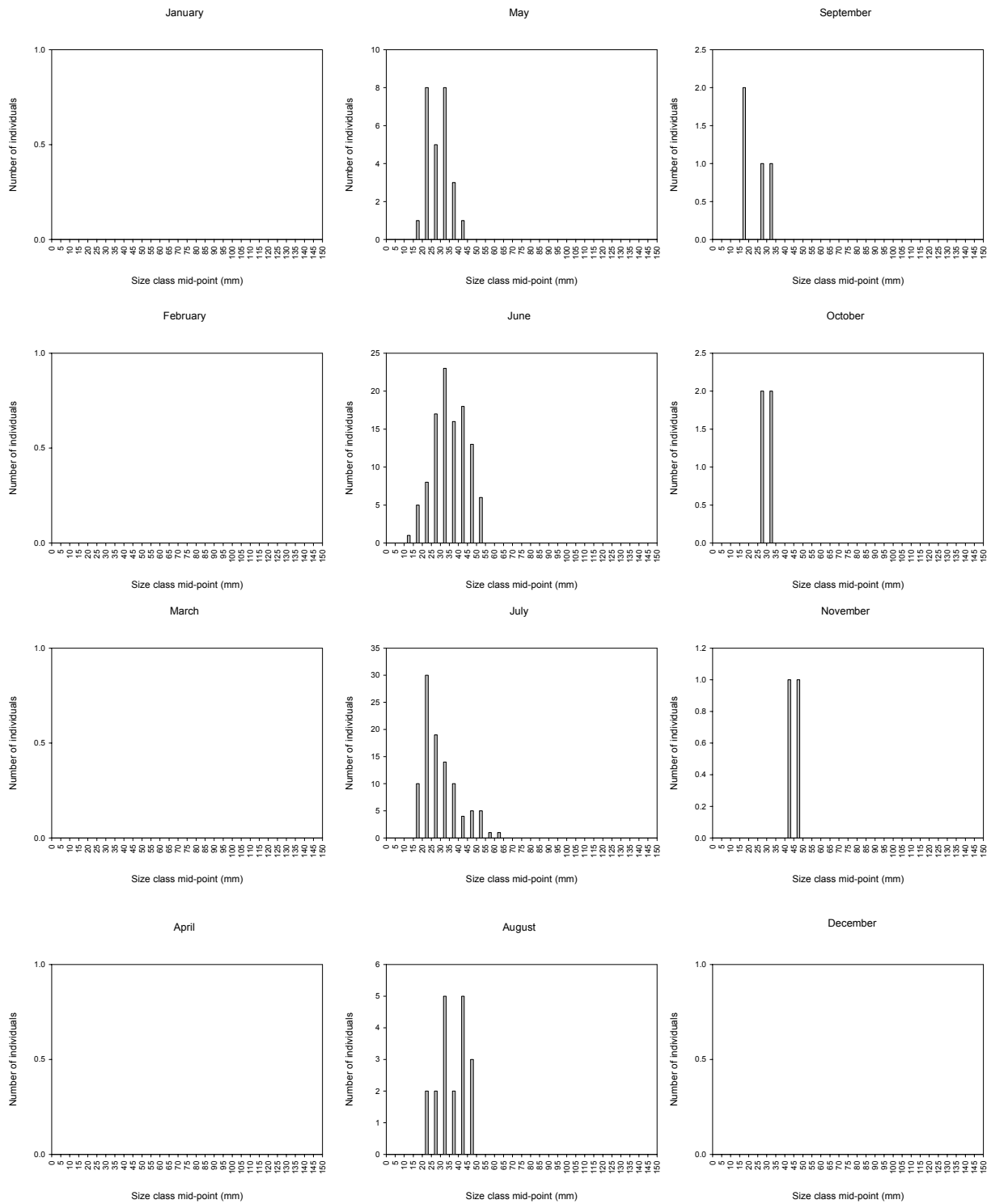


Fig. C20. Monthly length frequencies of Leatherjacket collected in seines and trawls.

Eucinostomus spp. (*Eucinostomus* mojarras)

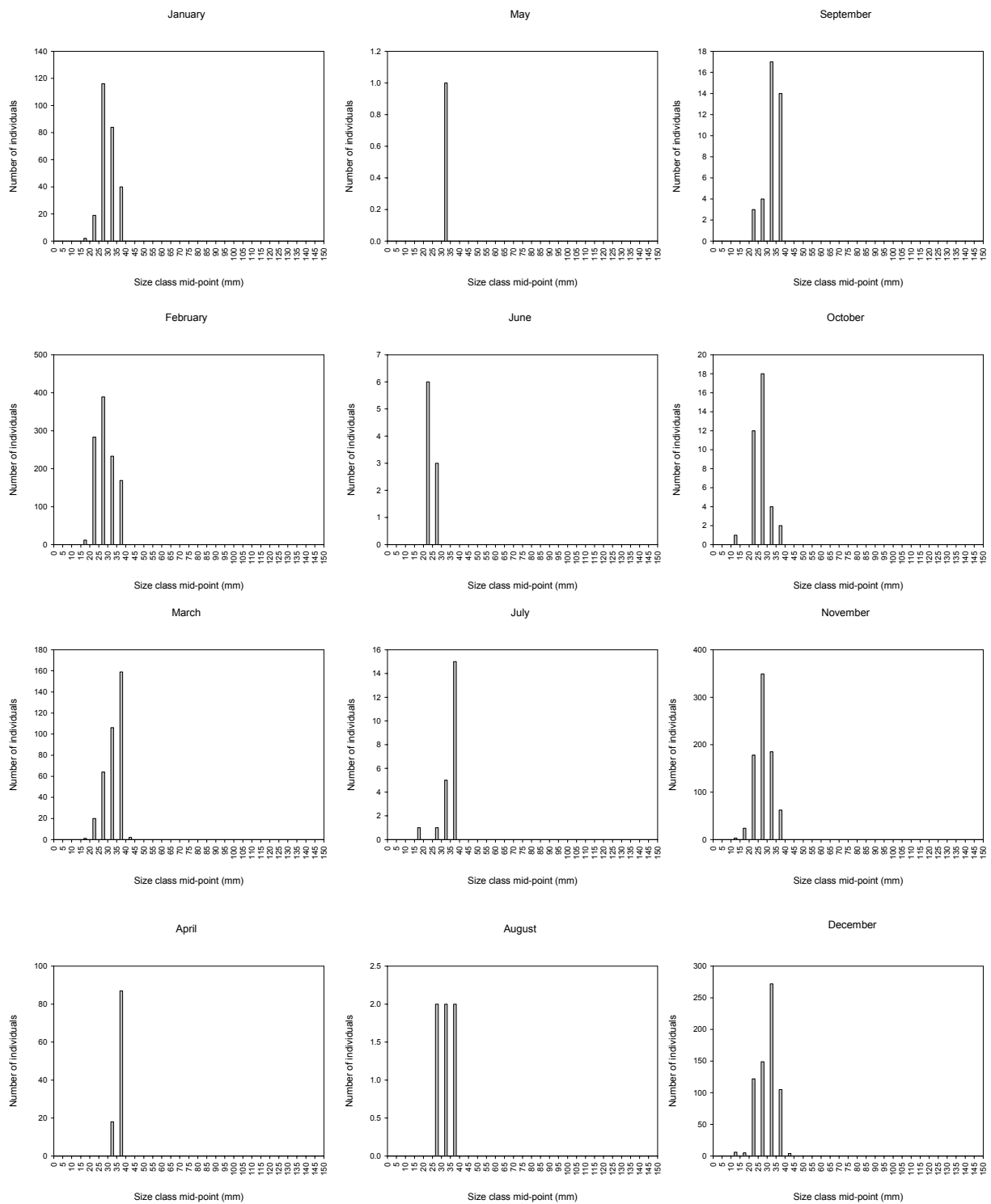


Fig. C21. Monthly length frequencies of *Eucinostomus mojarras* collected in seines and trawls.

Eucinostomus gula (Silver jenny)

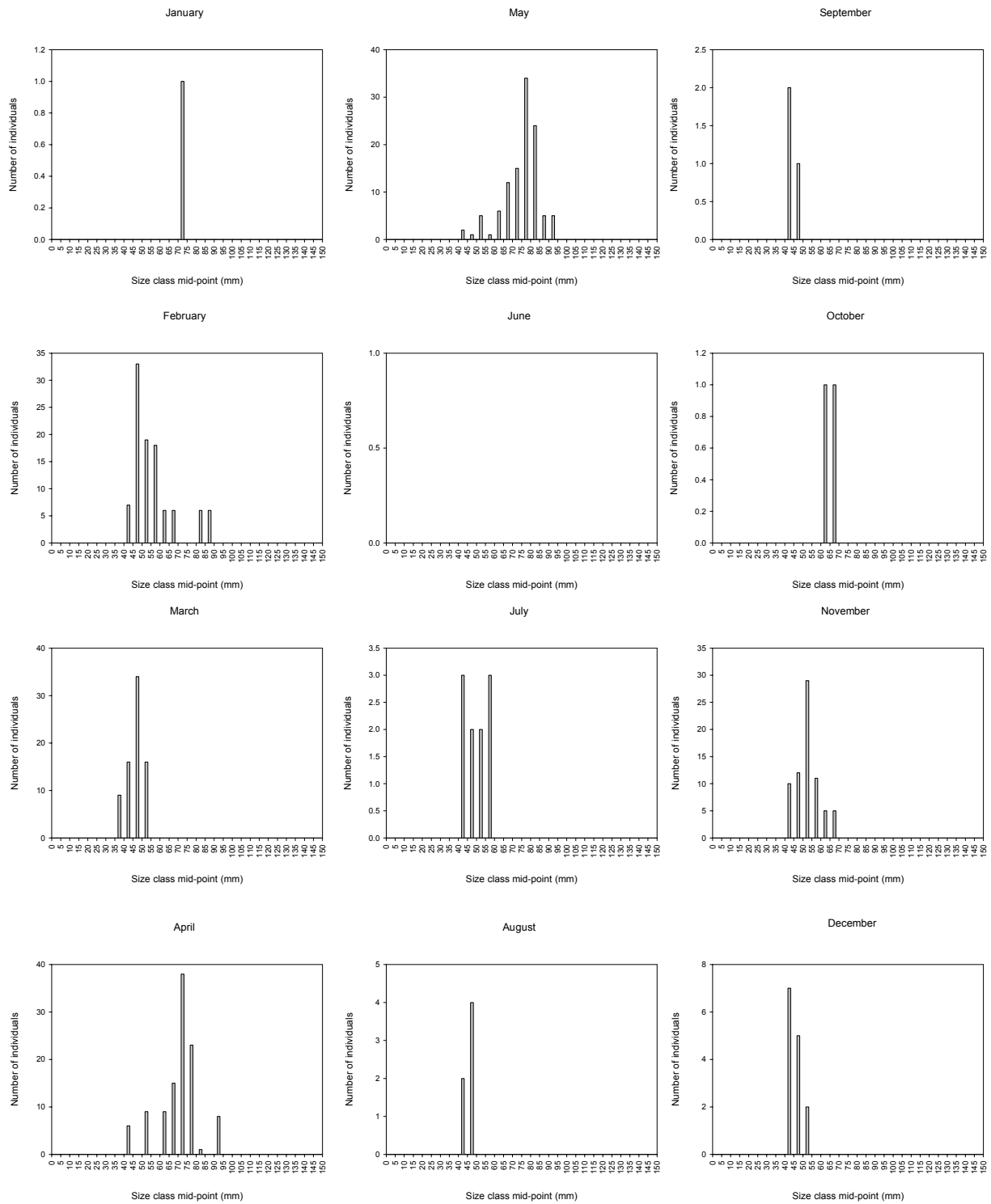


Fig. C22. Monthly length frequencies of Silver jenny collected in seines and trawls.

Eucinostomus harengulus (Tidewater mojarra)

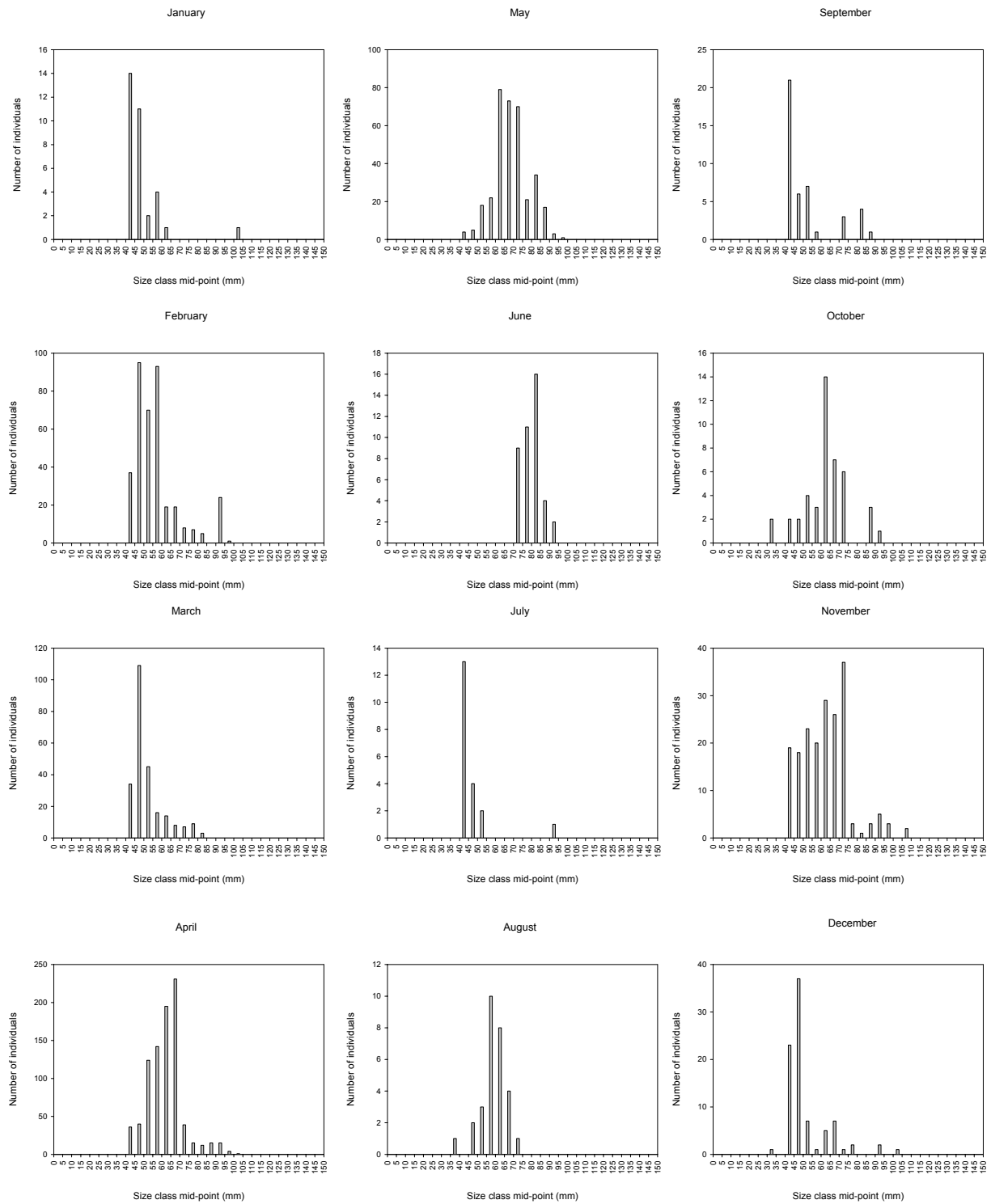


Fig. C23. Monthly length frequencies of Tidewater mojarra collected in seines and trawls.

Diapterus plumieri (Striped mojarra)

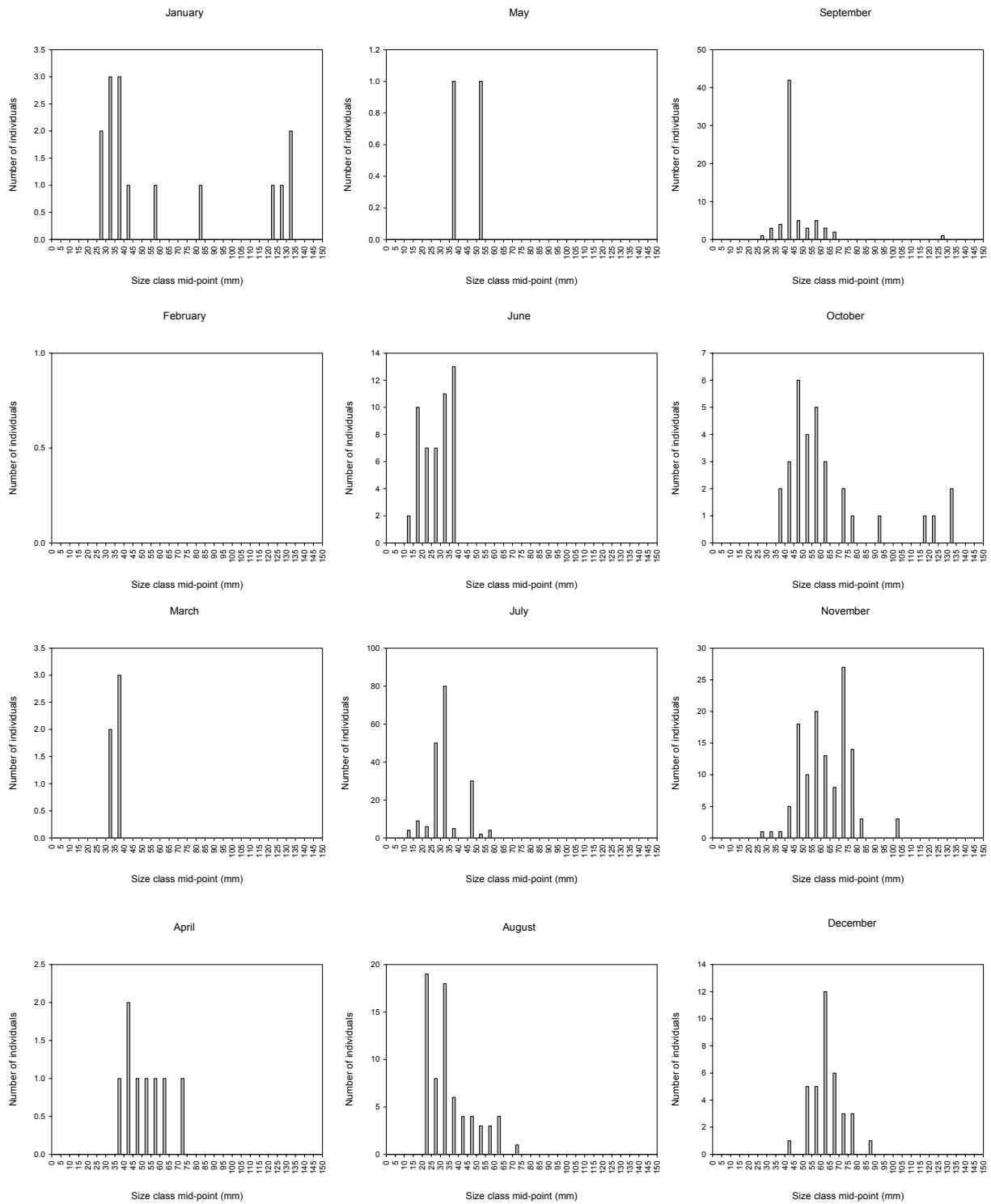


Fig. C24. Monthly length frequencies of Striped mojarra collected in seines and trawls.

Lagodon rhomboides (Pinfish)

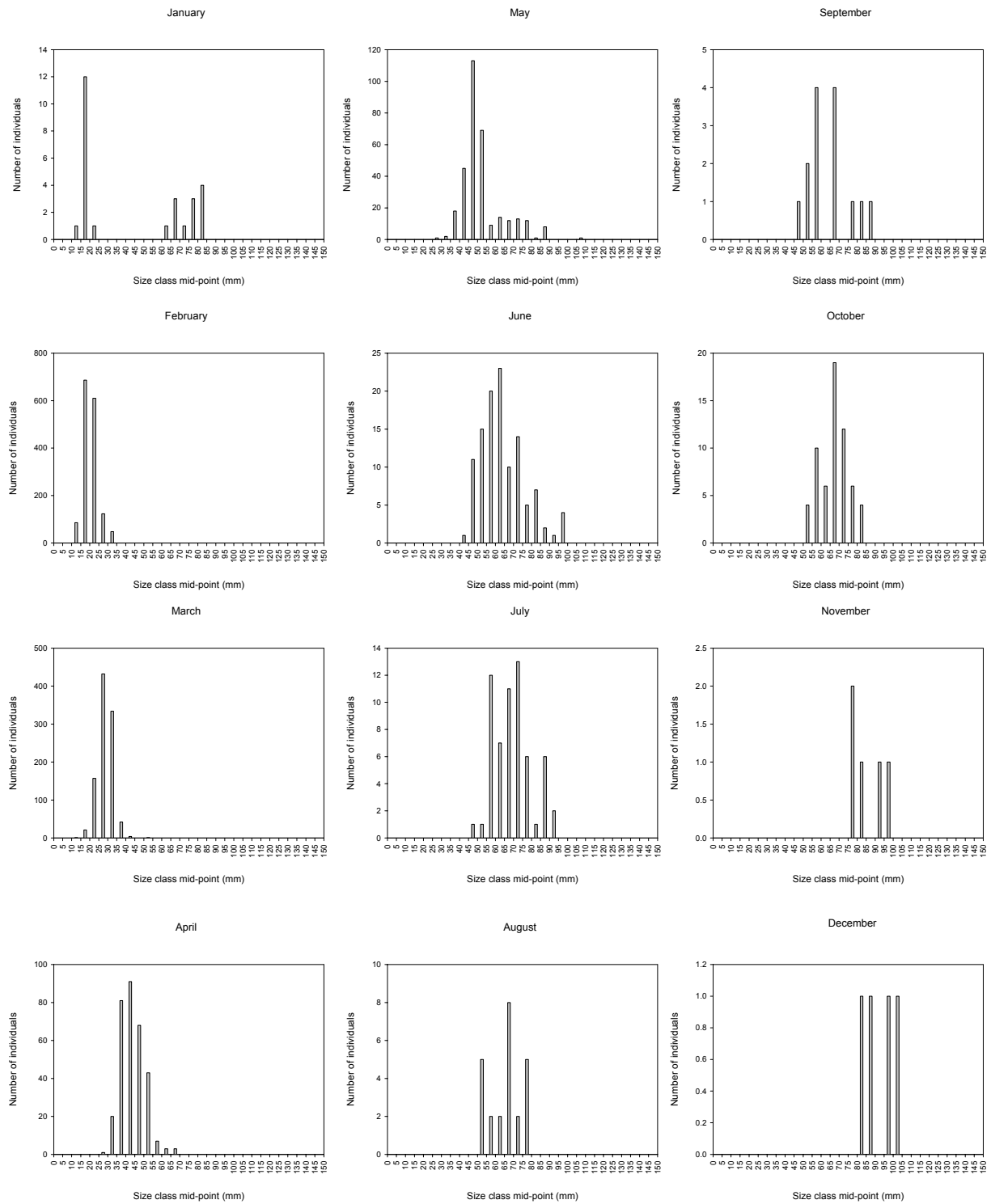


Fig. C25. Monthly length frequencies of Pinfish collected in seines and trawls.

Archosargus probatocephalus (Sheepshead)

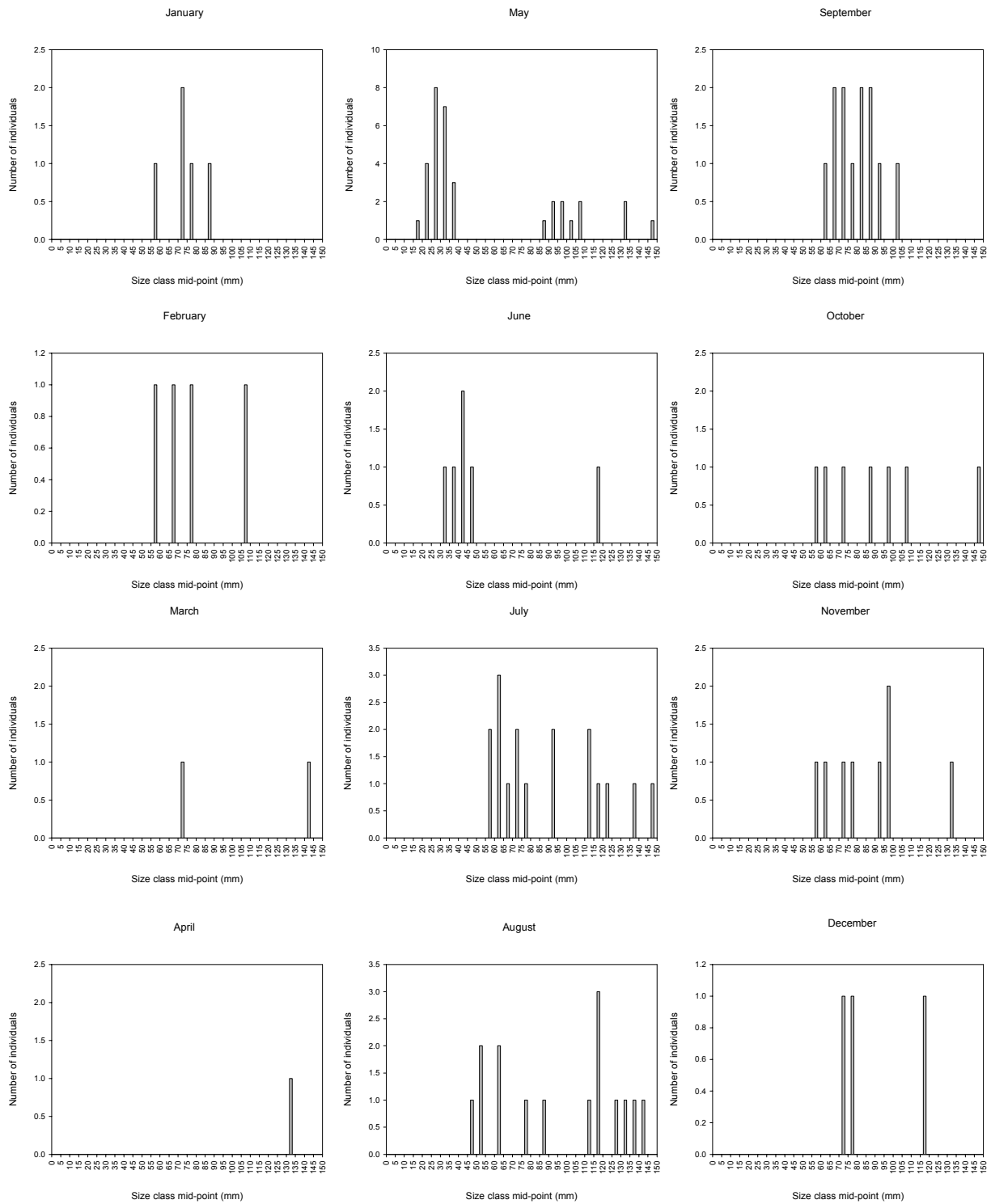


Fig. C26. Monthly length frequencies of Sheepshead collected in seines and trawls.

Cynoscion arenarius (Sand seatrout)

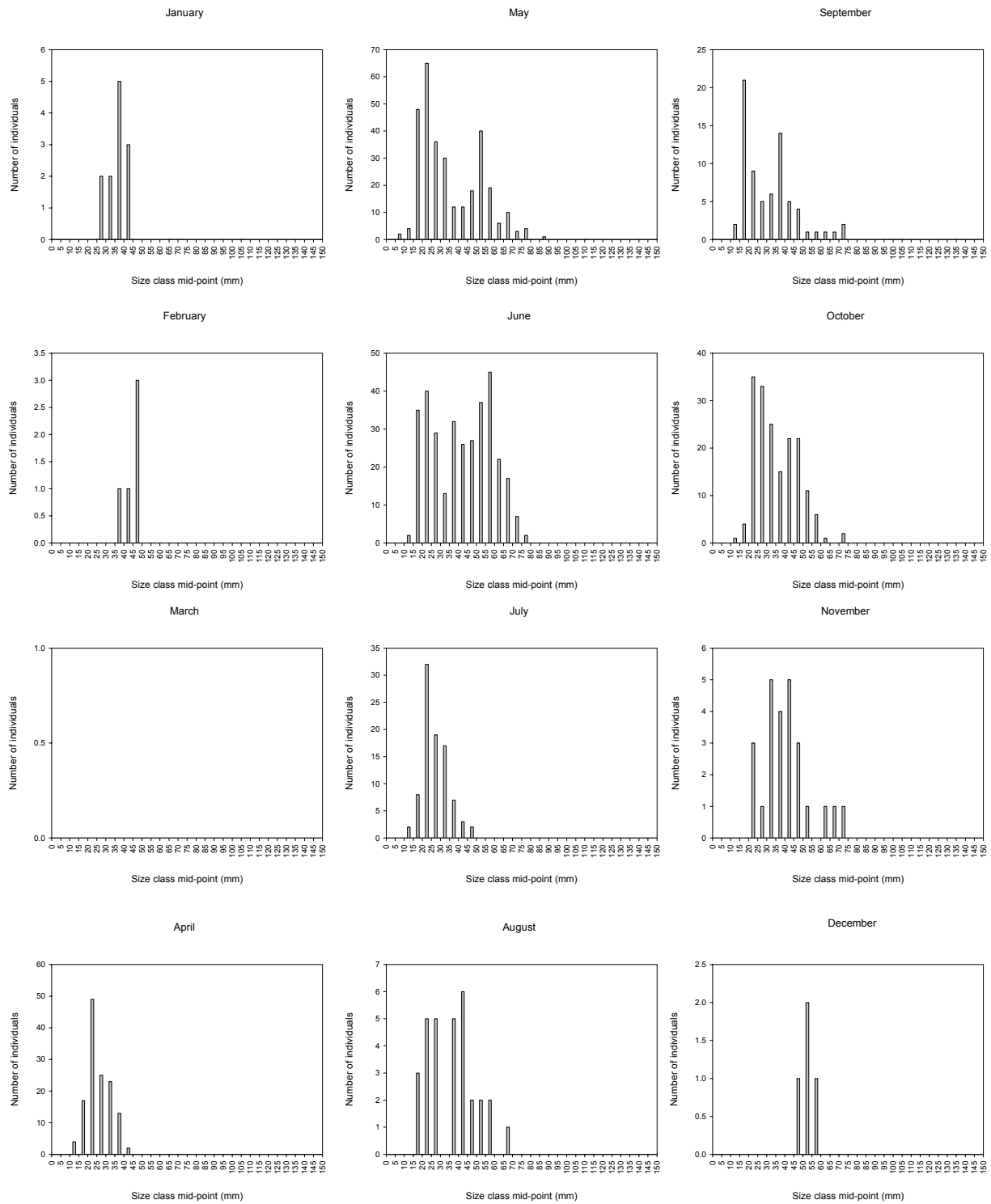


Fig. C27. Monthly length frequencies of Sand seatrout collected in seines and trawls.

Bairdiella chrysoura (Silver perch)

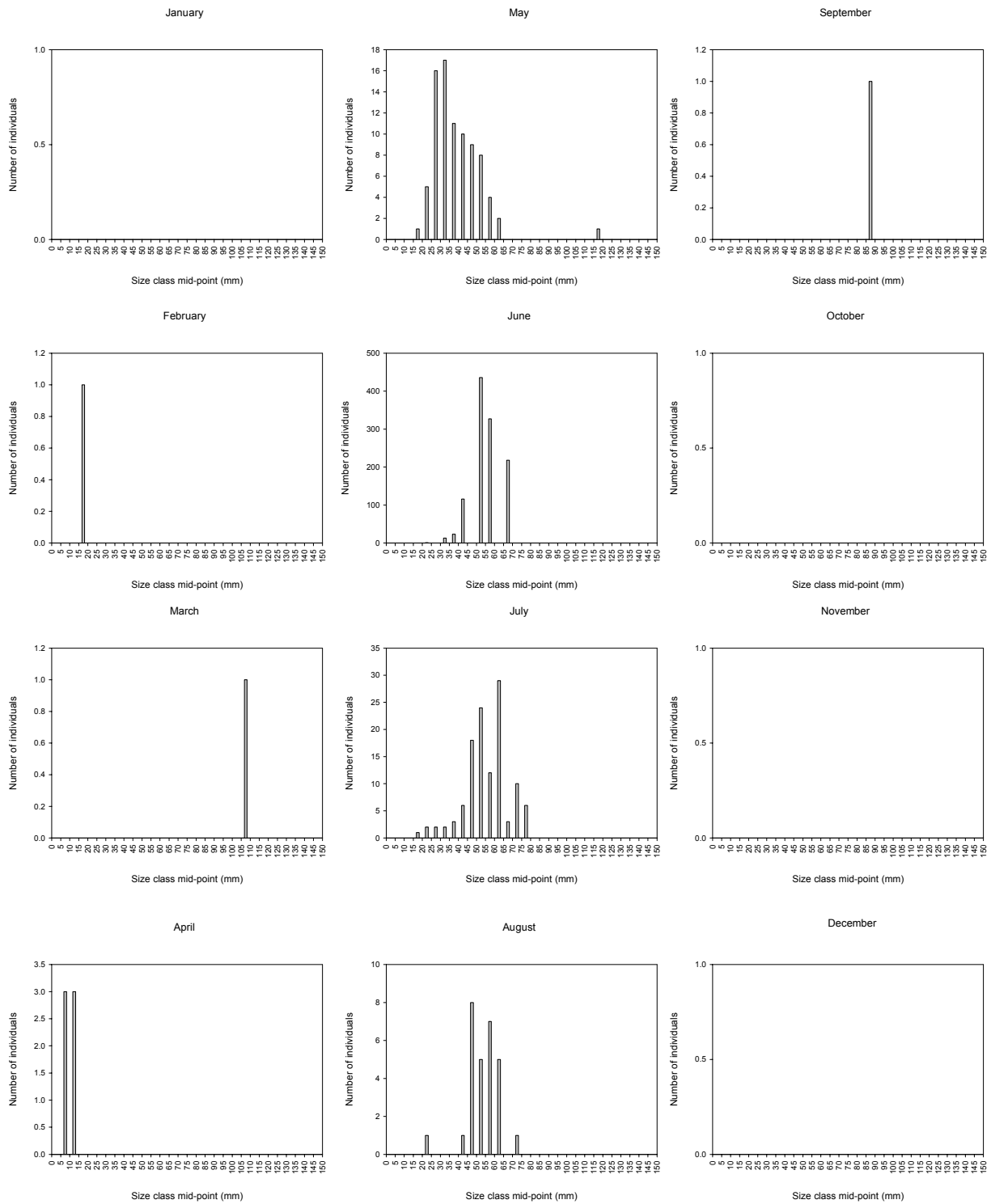


Fig. C28. Monthly length frequencies of Silver perch collected in seines and trawls.

Leiostomus xanthurus (Spot)

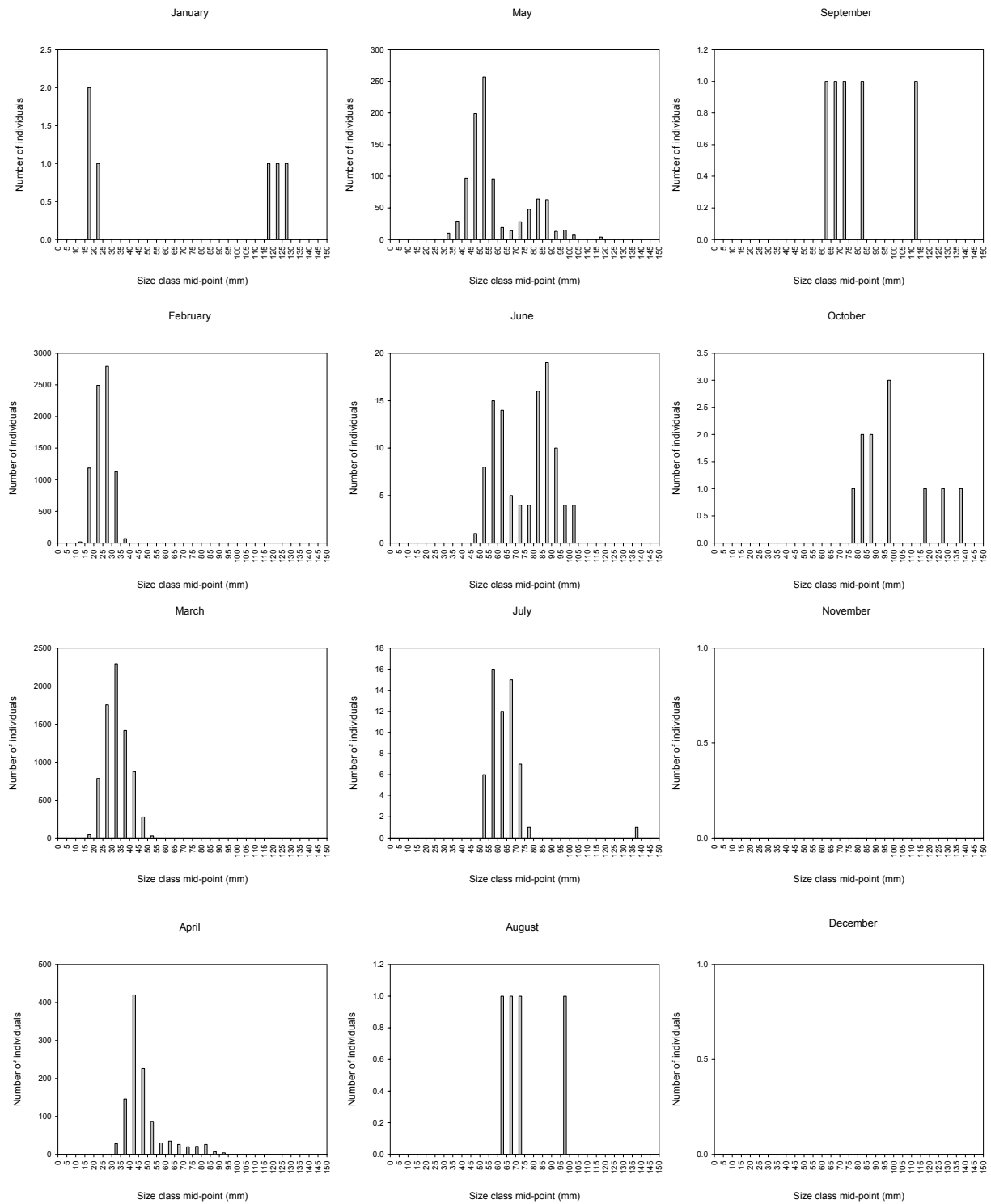


Fig. C29. Monthly length frequencies of Spot collected in seines and trawls.

Menticirrhus americanus (Southern kingfish)

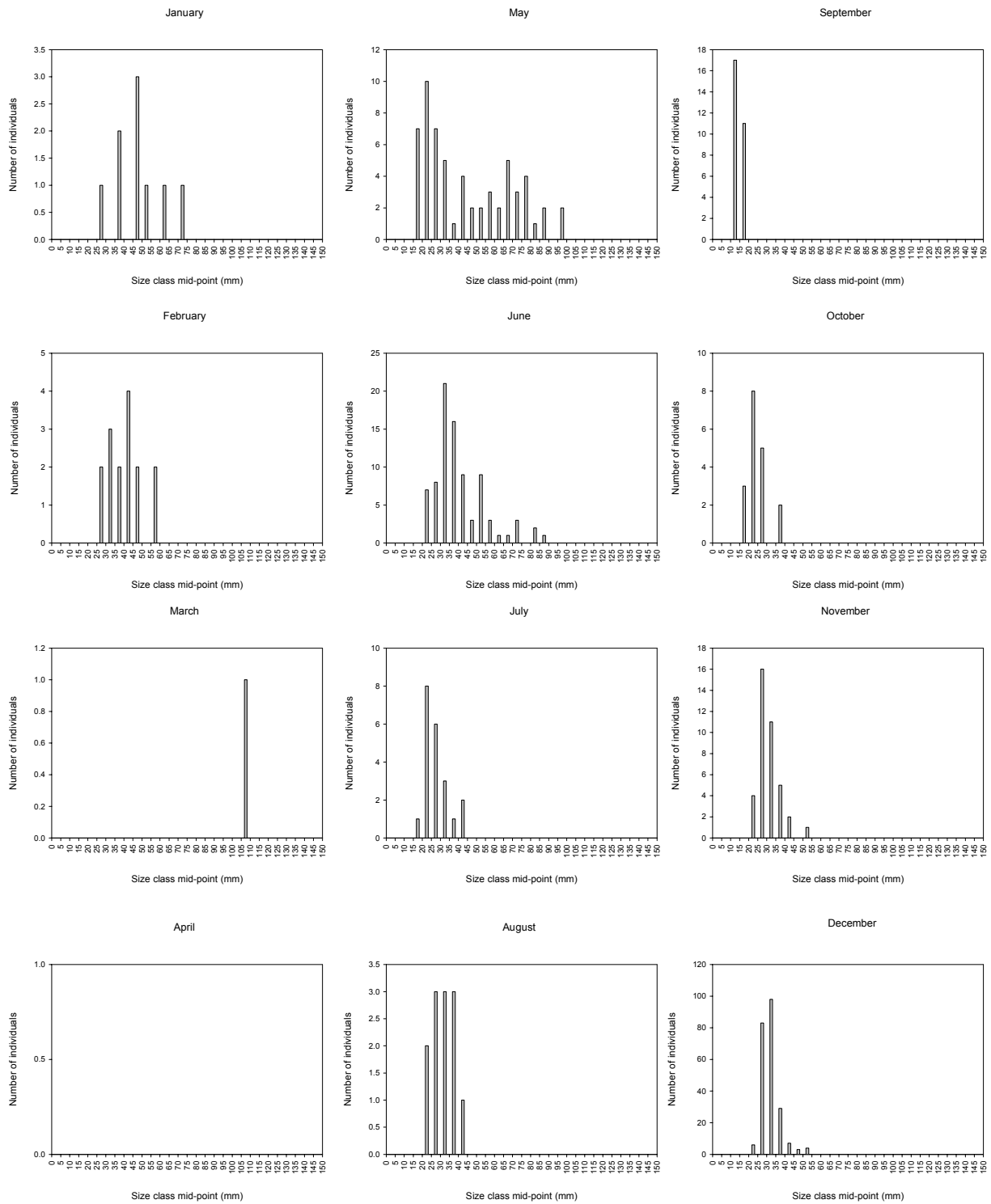


Fig. C30. Monthly length frequencies of Southern kingfish collected in seines and trawls.

Sciaenops ocellatus (Red drum)

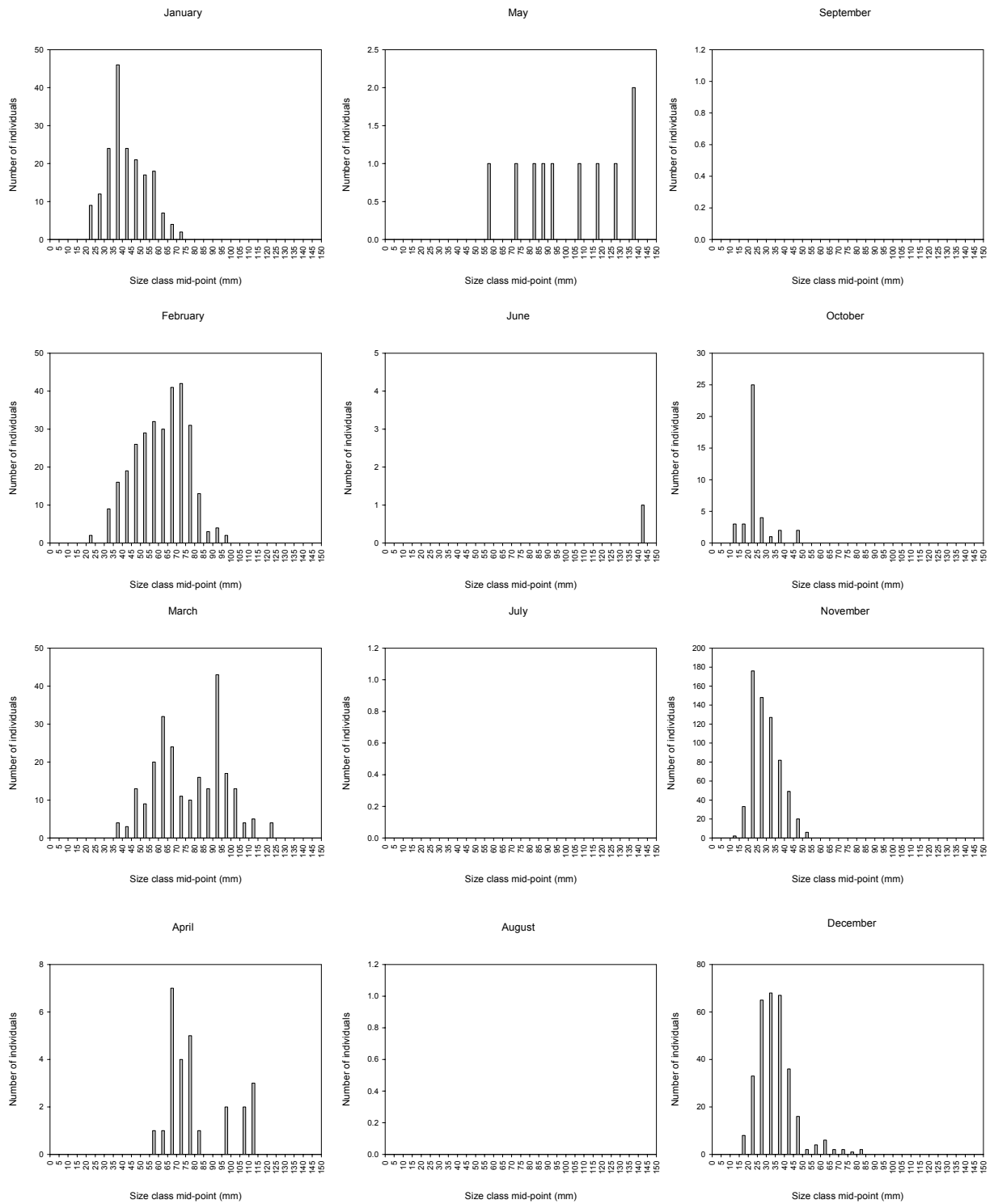


Fig. C31. Monthly length frequencies of Red drum collected in seines and trawls.

Tilapia spp. (Tilapias)

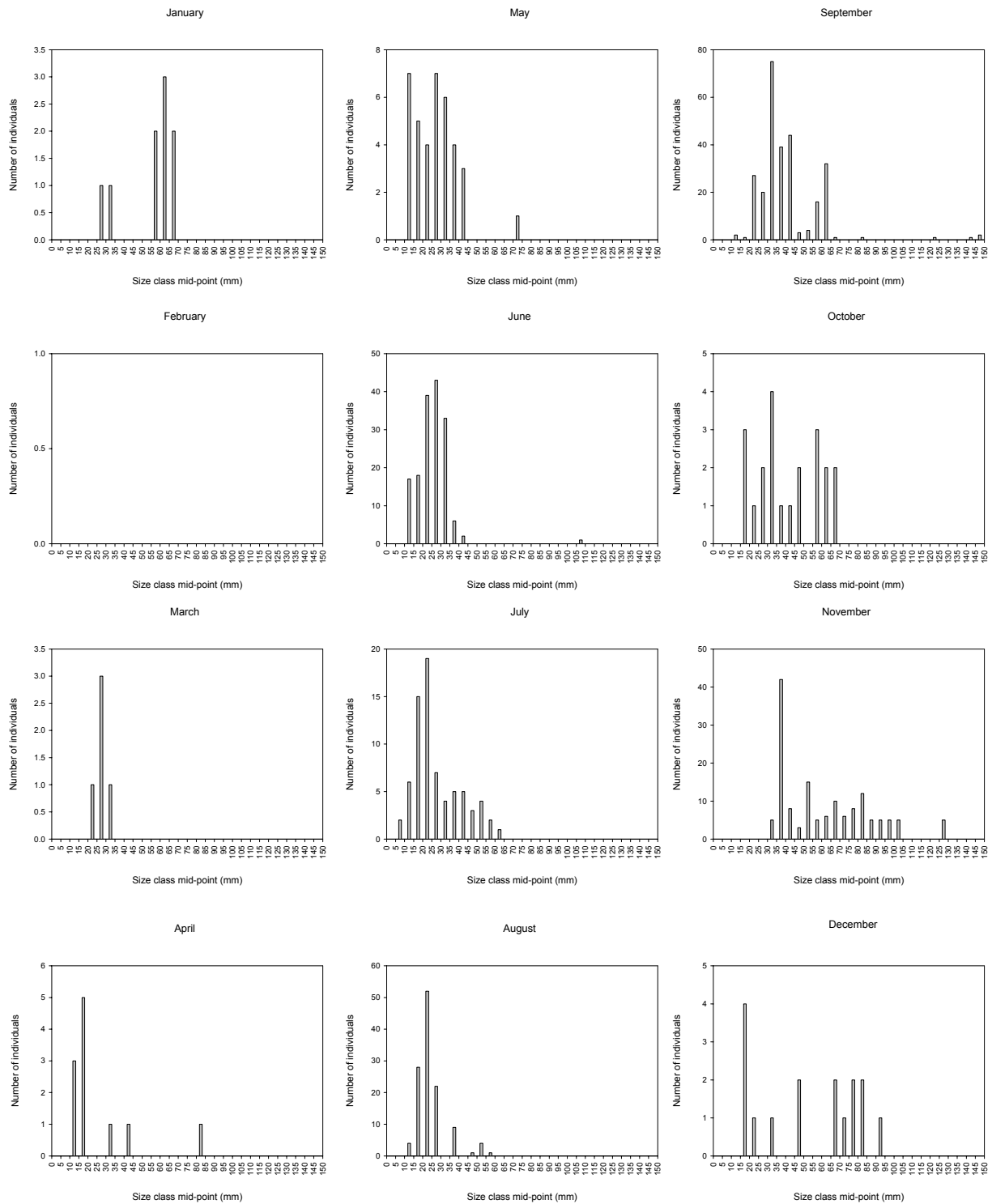


Fig. C32. Monthly length frequencies of Tilapias collected in seines and trawls.

Mugil cephalus (Striped mullet)

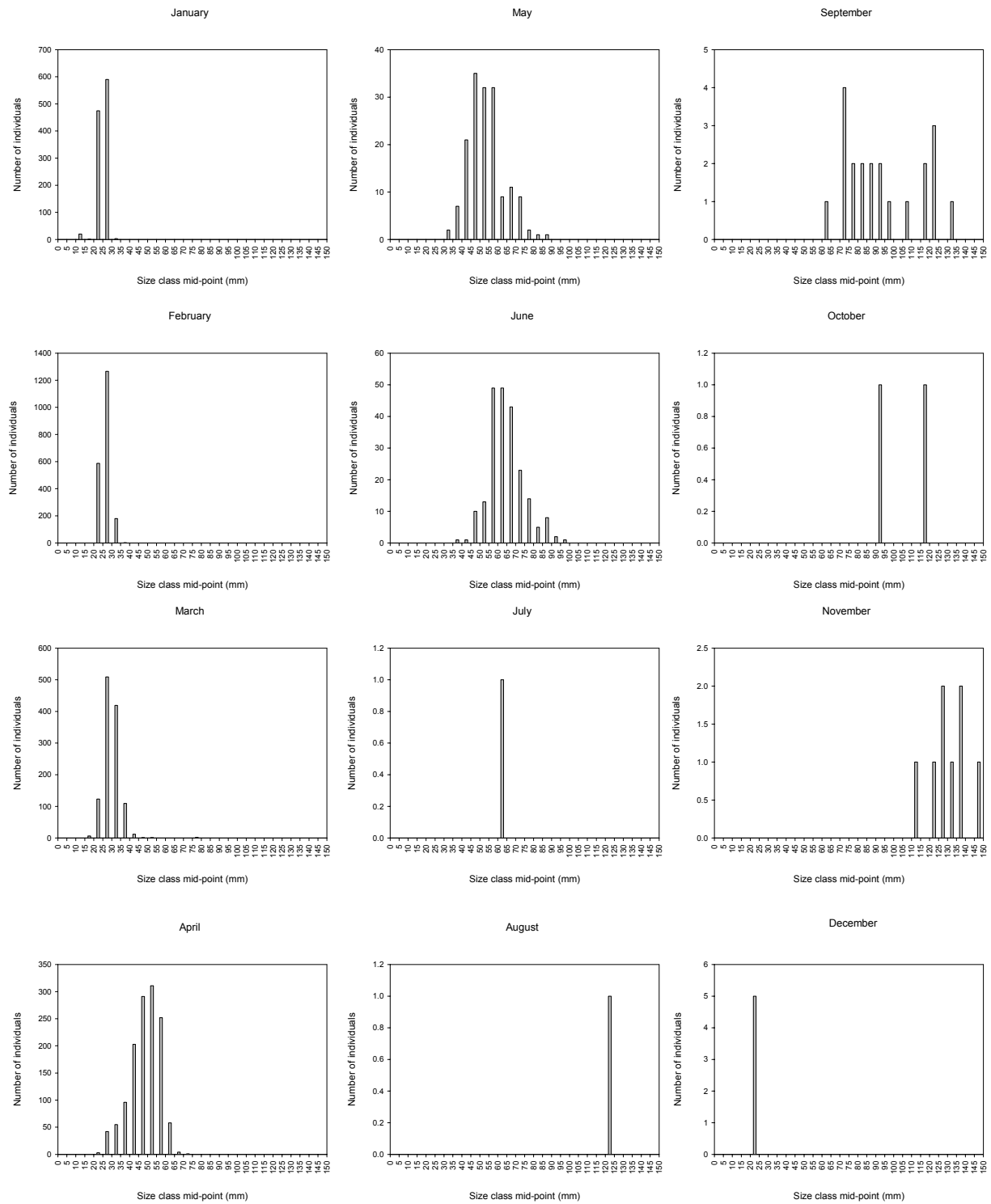


Fig. C33. Monthly length frequencies of Striped mullet collected in seines and trawls.

Gobiosoma spp. (Gobiosoma gobies)

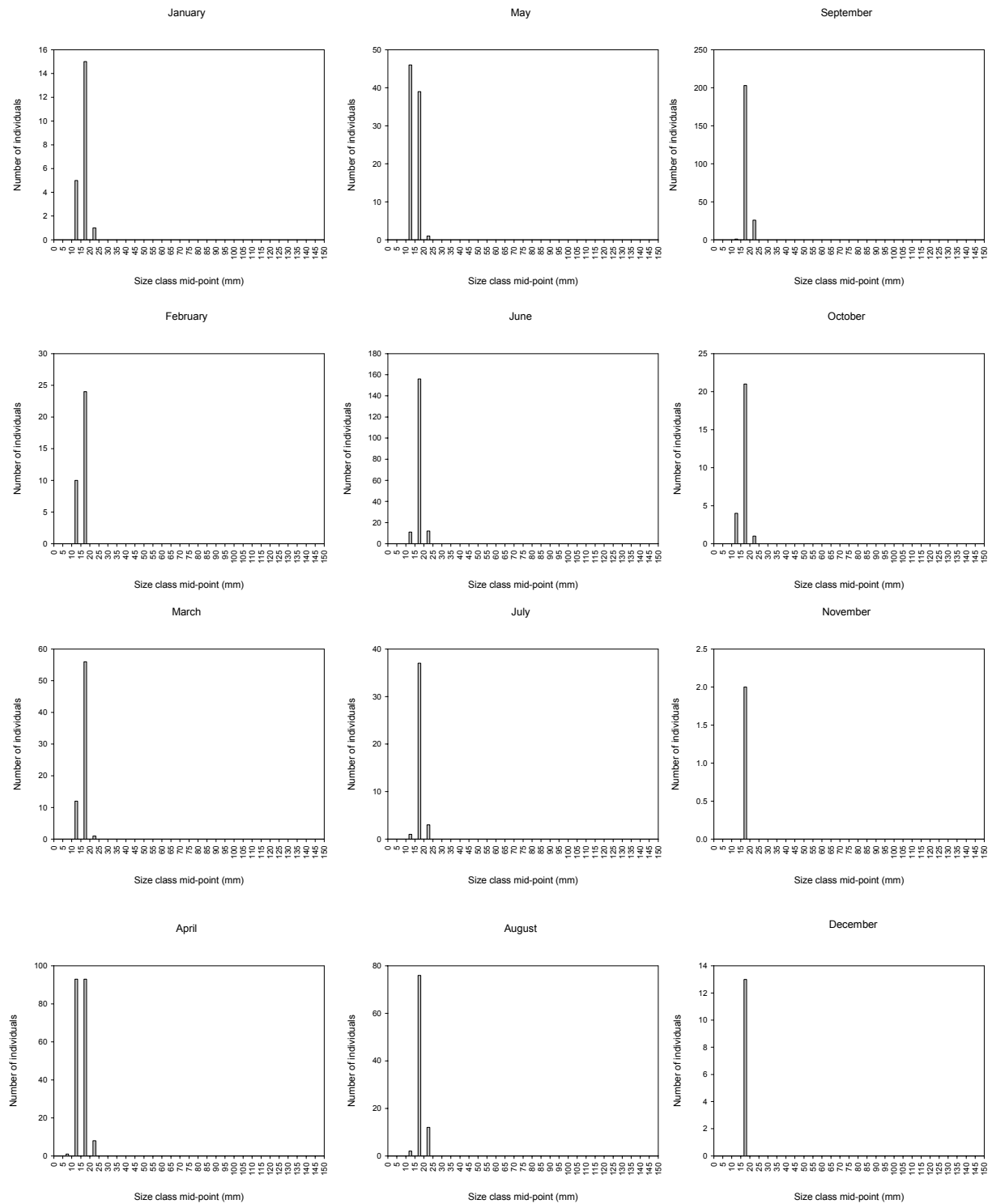


Fig. C34. Monthly length frequencies of Gobiosoma gobies collected in seines and trawls.

Gobiosoma bosc (Naked goby)

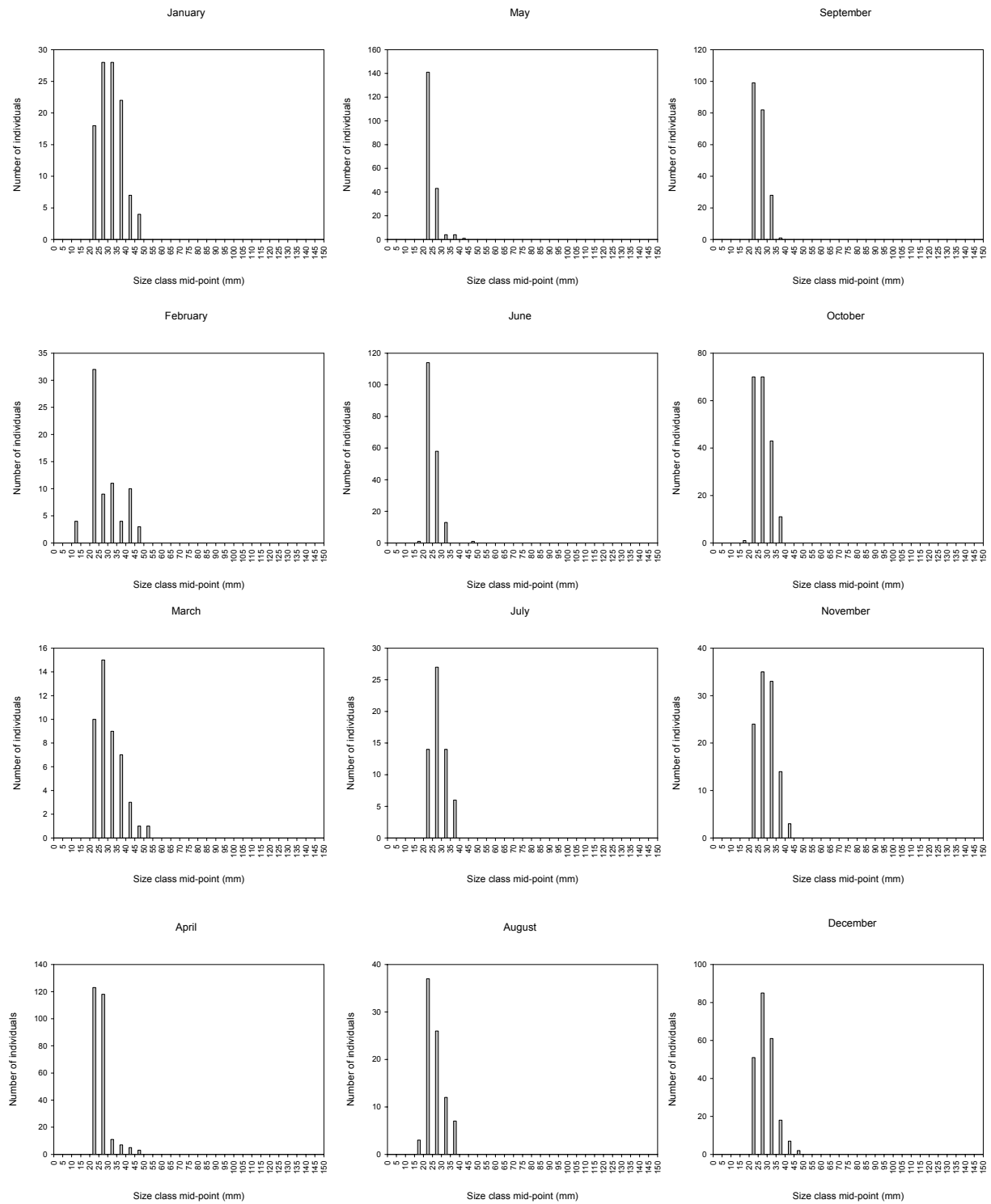


Fig. C35. Monthly length frequencies of Naked goby collected in seines and trawls.

Microgobius gulosus (Clown goby)

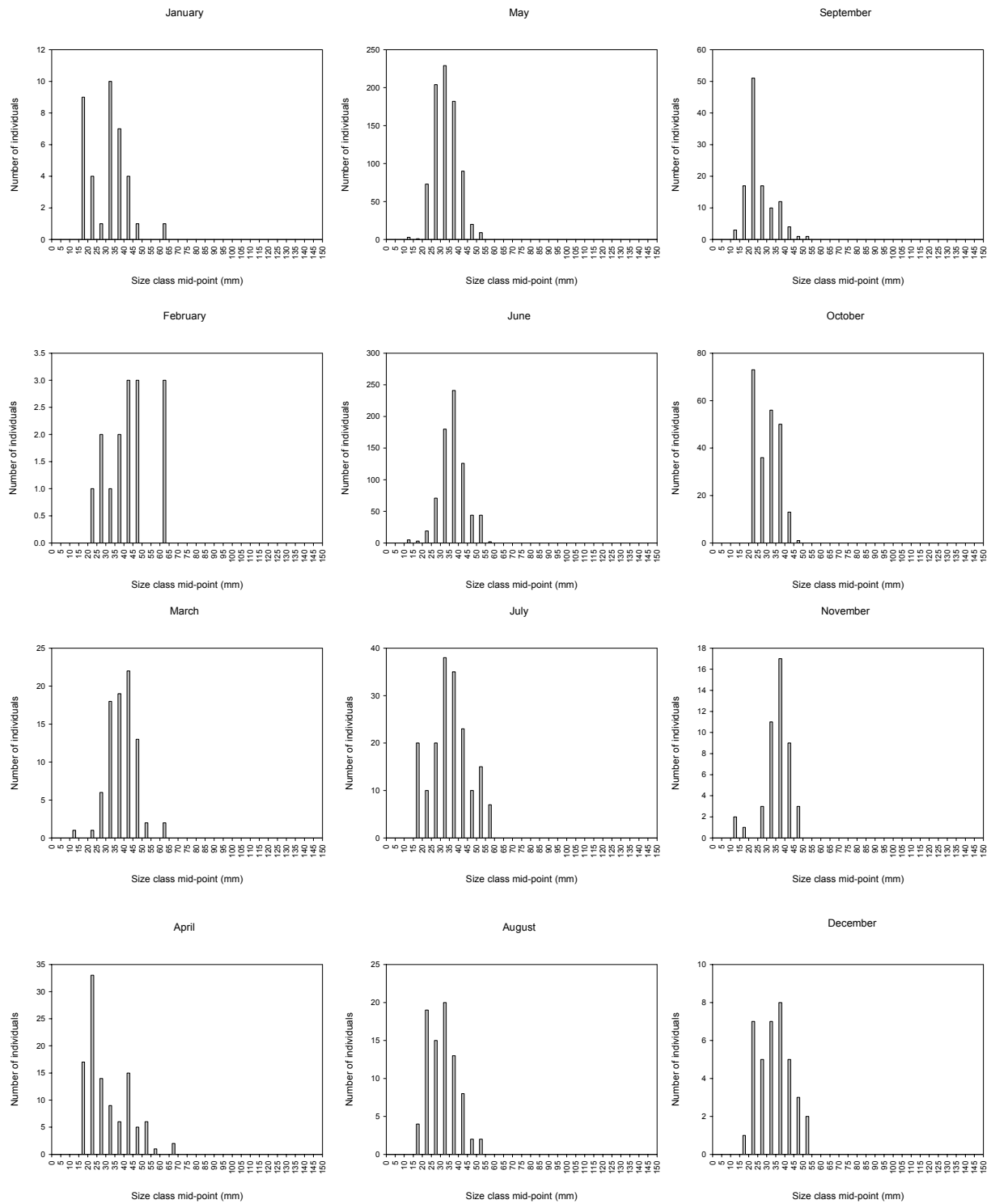


Fig. C36. Monthly length frequencies of Clown goby collected in seines and trawls.

Trinectes maculatus (Hogchoker)

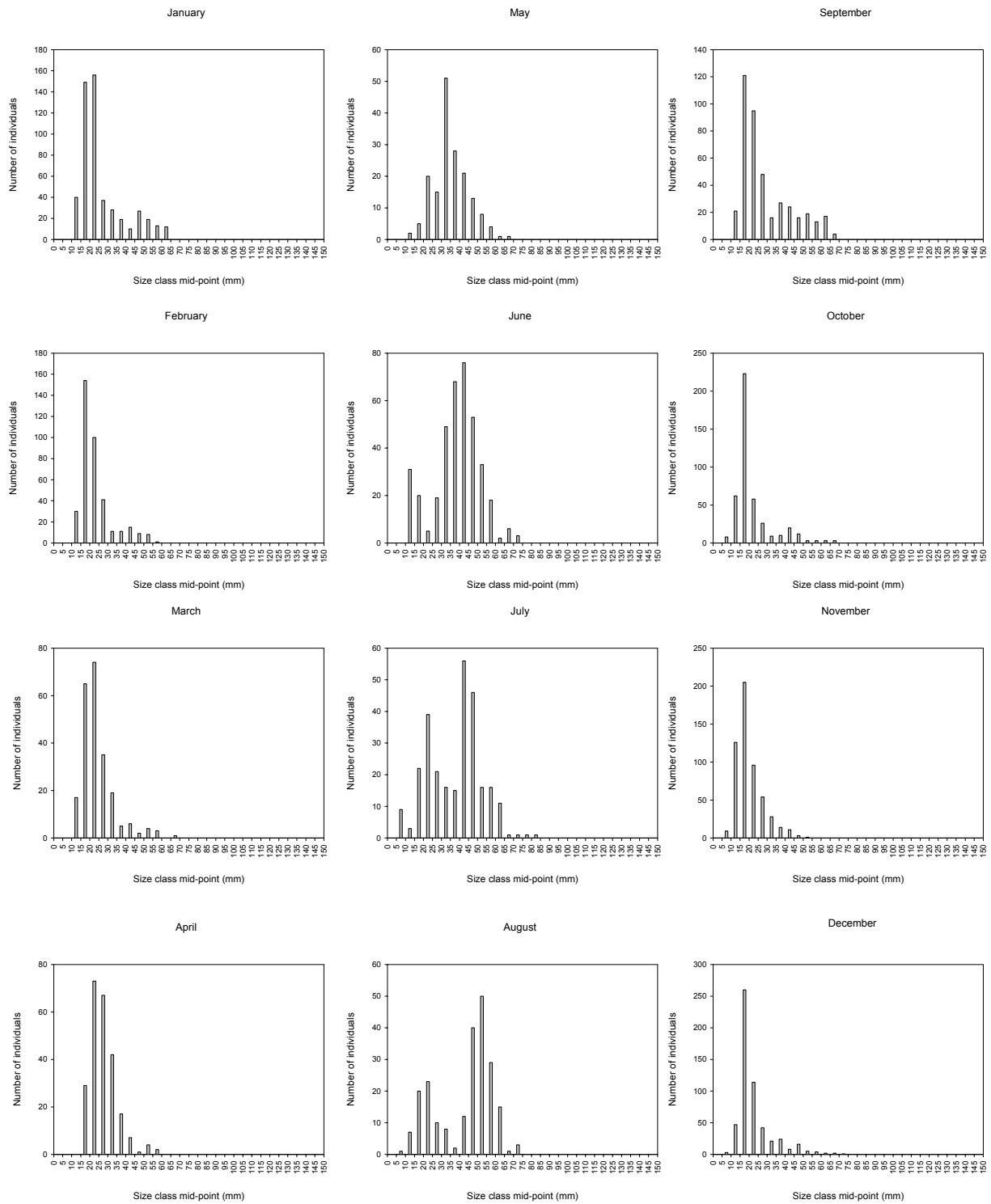


Fig. C37. Monthly length frequencies of Hogchoker collected in seines and trawls.

Appendix D:
Seine catch overview plots

Farfantepenaeus duorarum (Pink shrimp), Seines

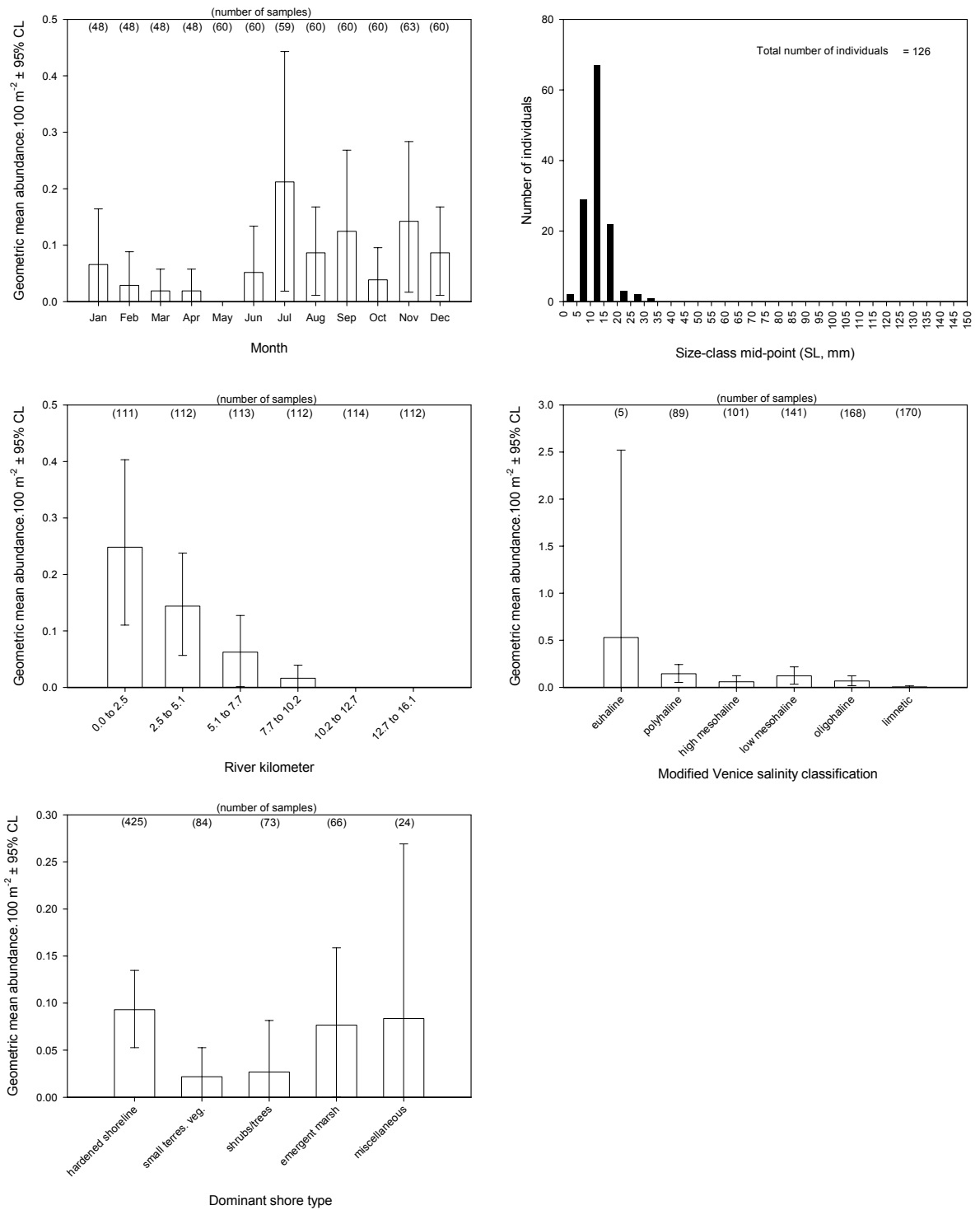


Fig. D1. Abundance of Pink shrimp in nearshore habitats.

Palaemonetes pugio (Daggerblade grass shrimp), Seines

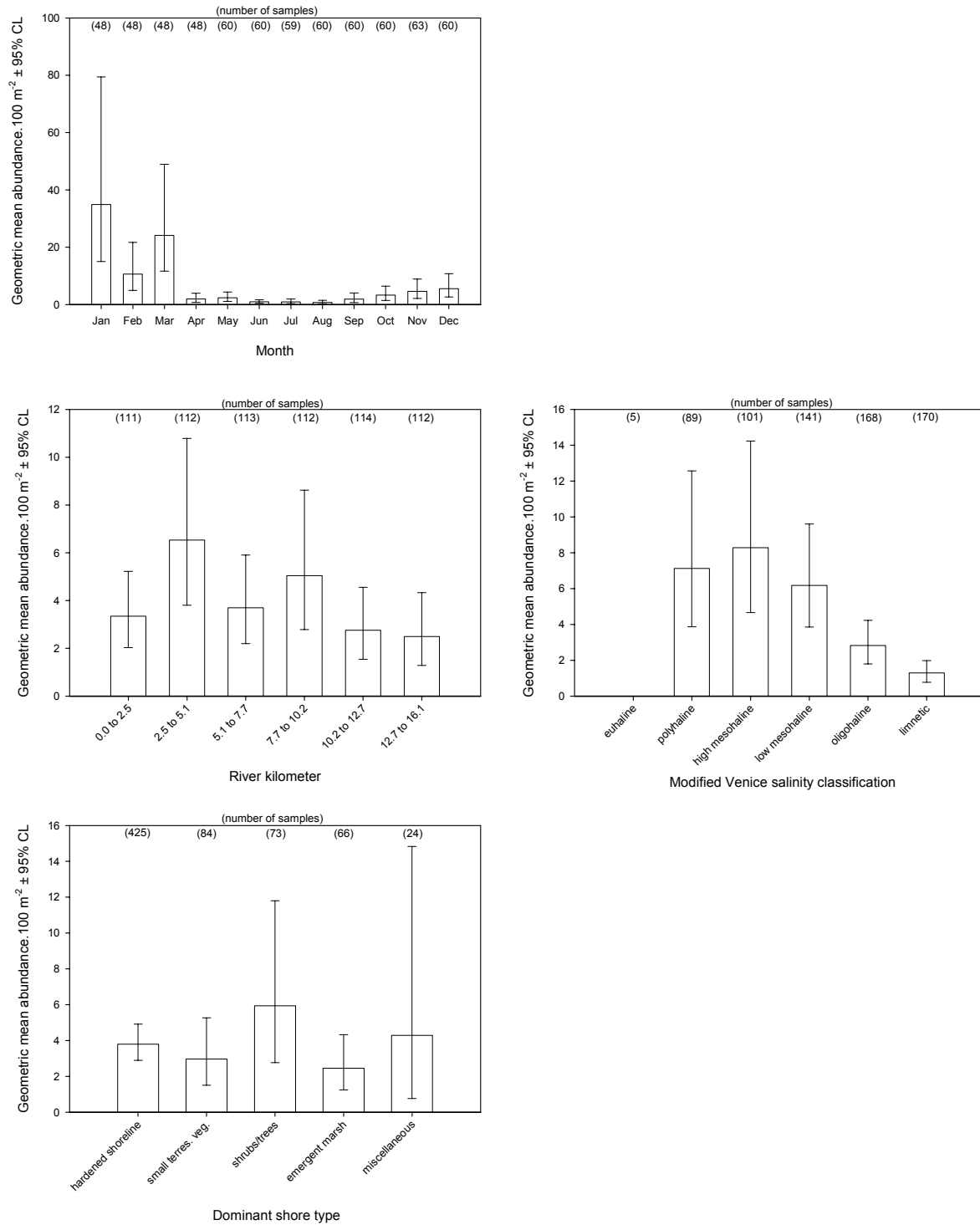


Fig. D2. Abundance of Daggerblade grass shrimp in nearshore habitats.

Callinectes sapidus (Blue crab), Seines

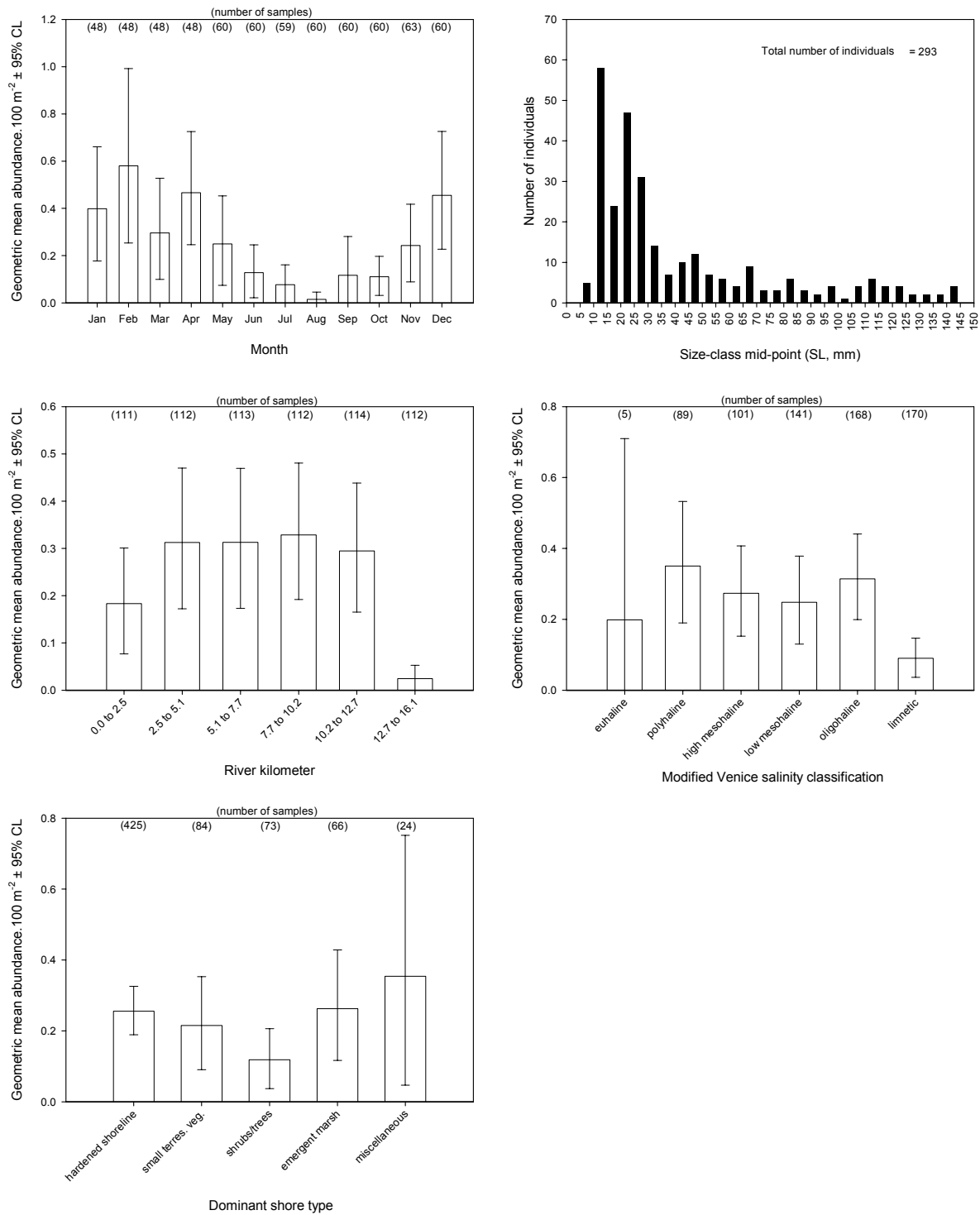


Fig. D3. Abundance of Blue crab in nearshore habitats.

Elops saurus (Ladyfish), Seines

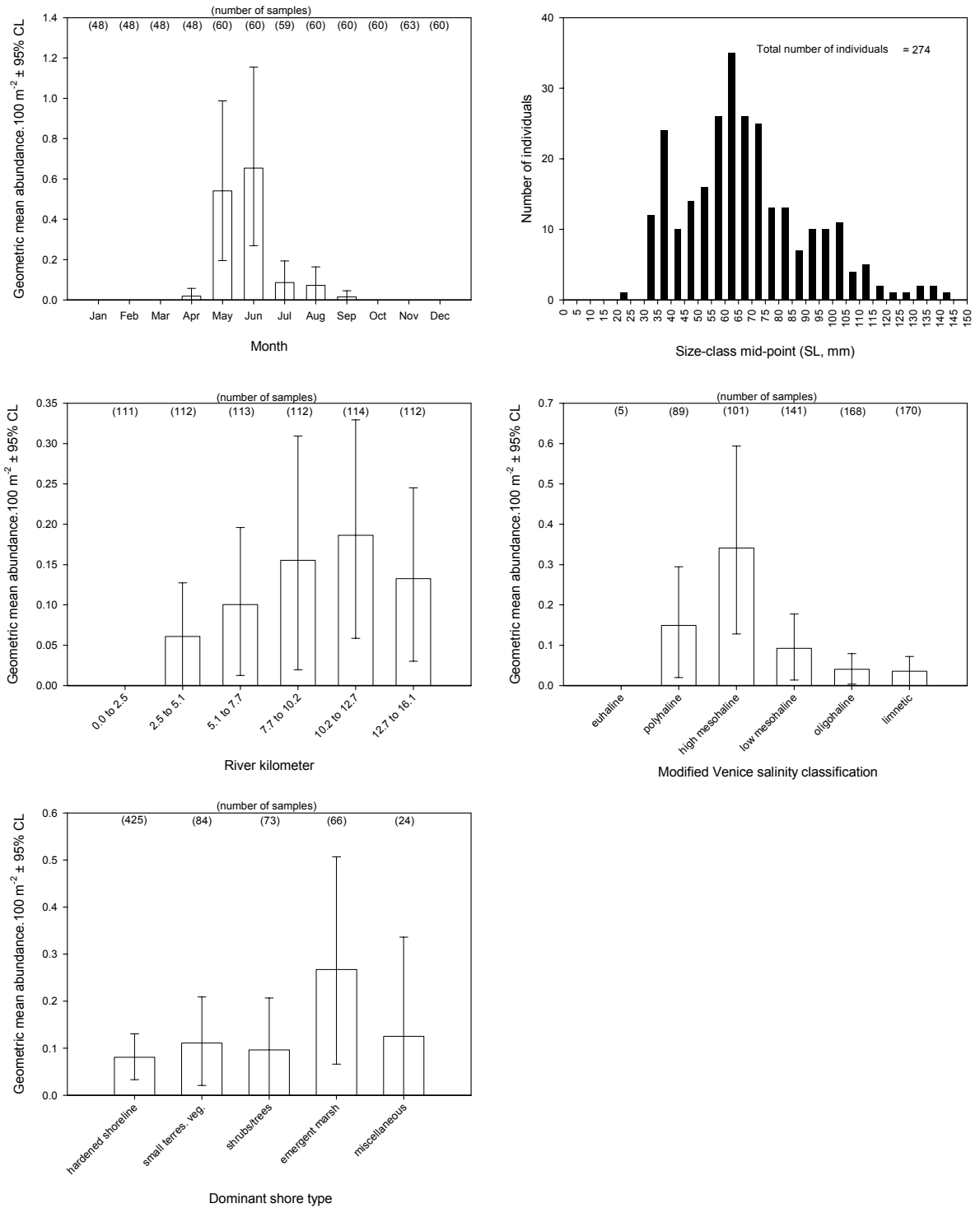


Fig. D4. Abundance of Ladyfish in nearshore habitats.

Brevoortia spp. (Menhadens), Seines

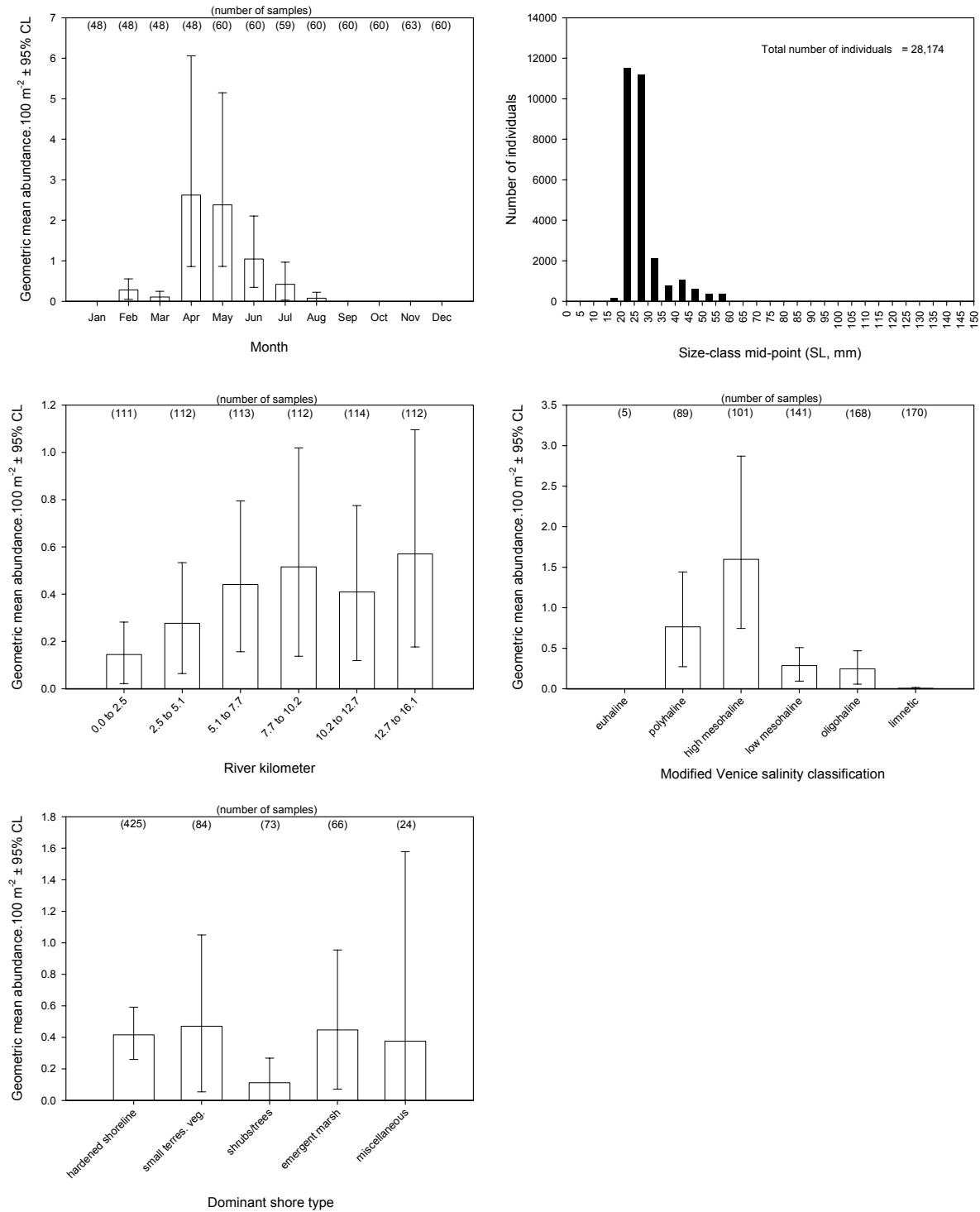


Fig. D5. Abundance of Menhadens in nearshore habitats.

Anchoa hepsetus (Striped anchovy), Seines

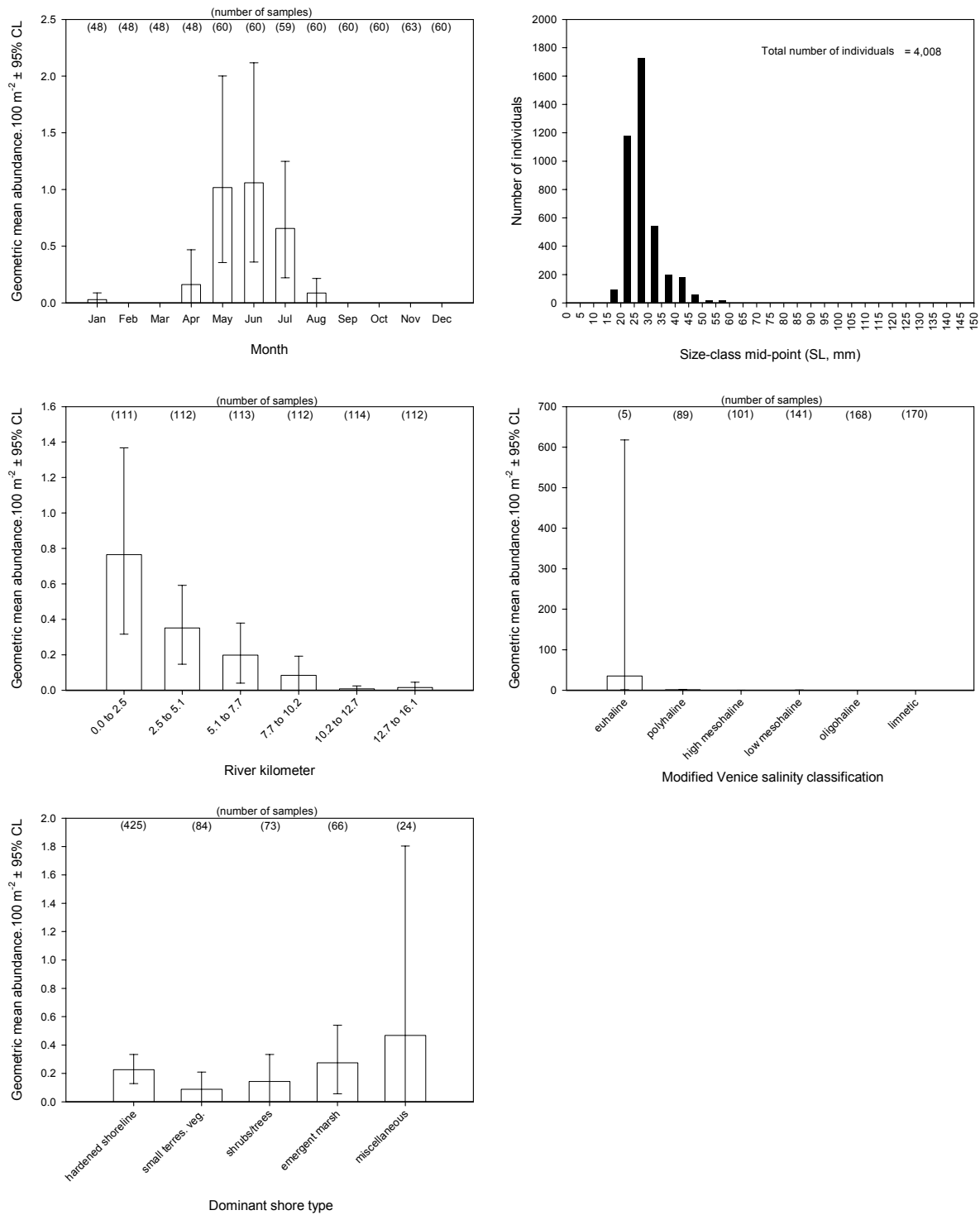


Fig. D6. Abundance of Striped anchovy in nearshore habitats.

Anchoa mitchilli (Bay anchovy), Seines

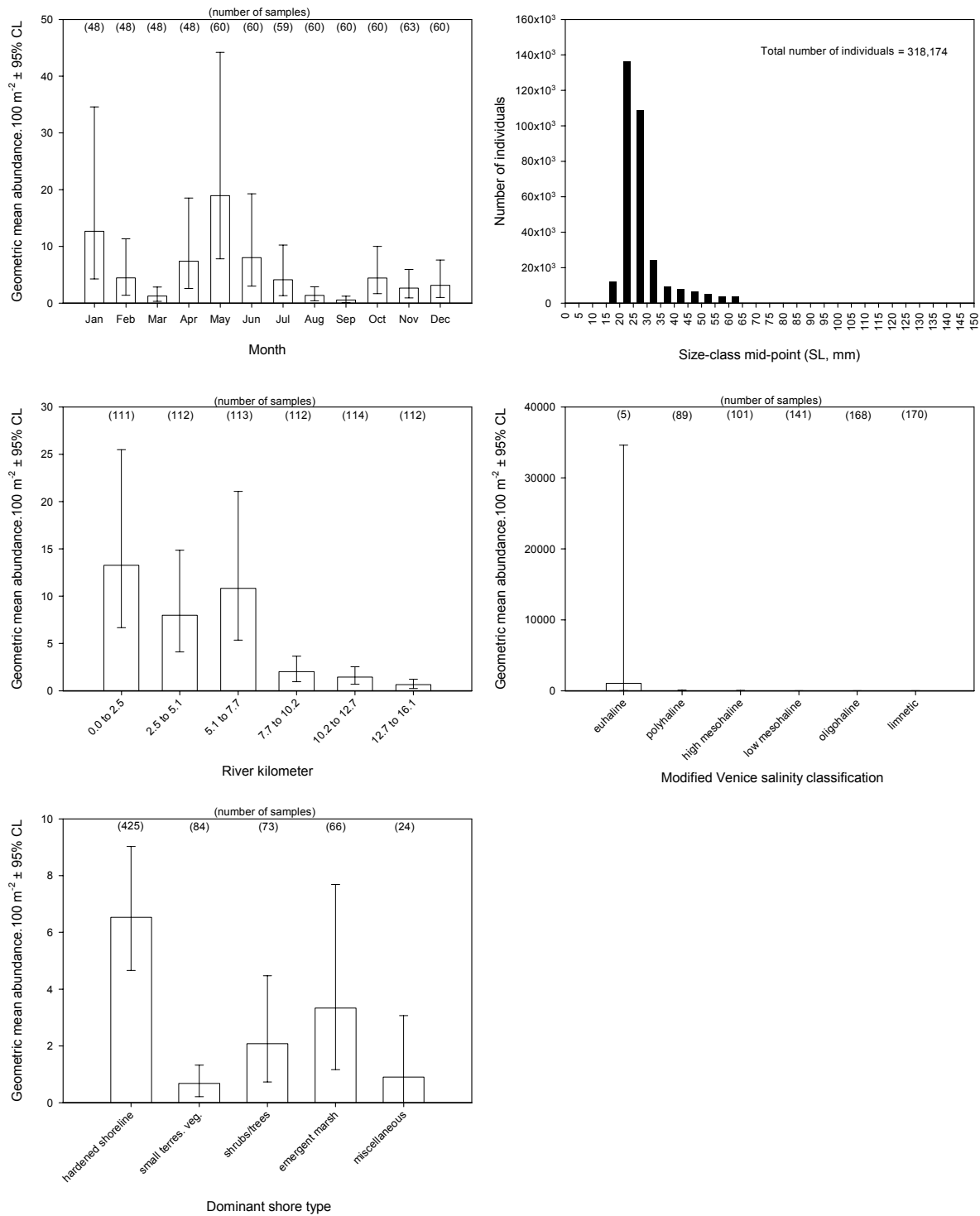


Fig. D7. Abundance of Bay anchovy in nearshore habitats.

Cyprinodon variegatus (Sheepshead minnow), Seines

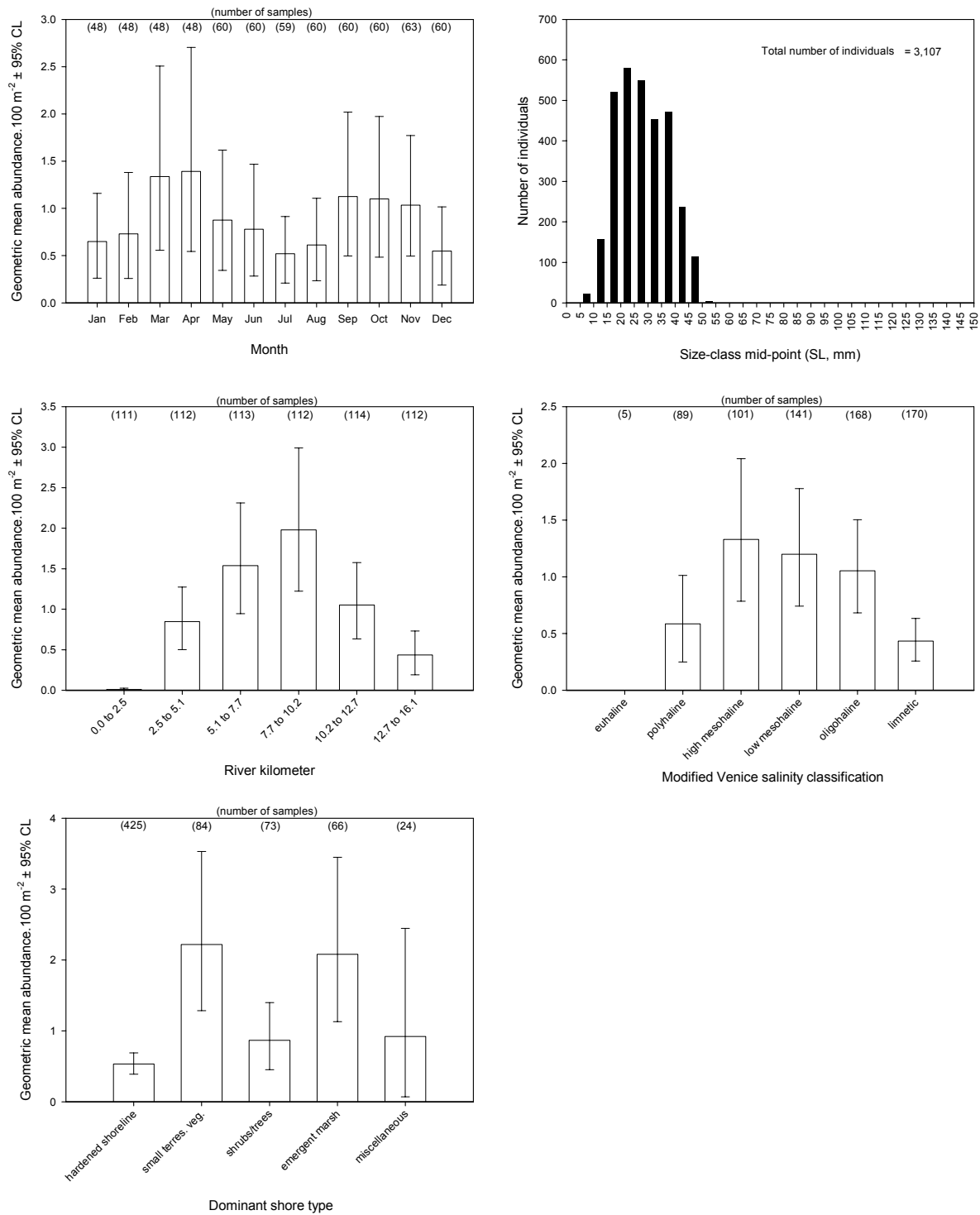


Fig. D8. Abundance of Sheepshead minnow in nearshore habitats.

Fundulus majalis (Striped killifish), Seines

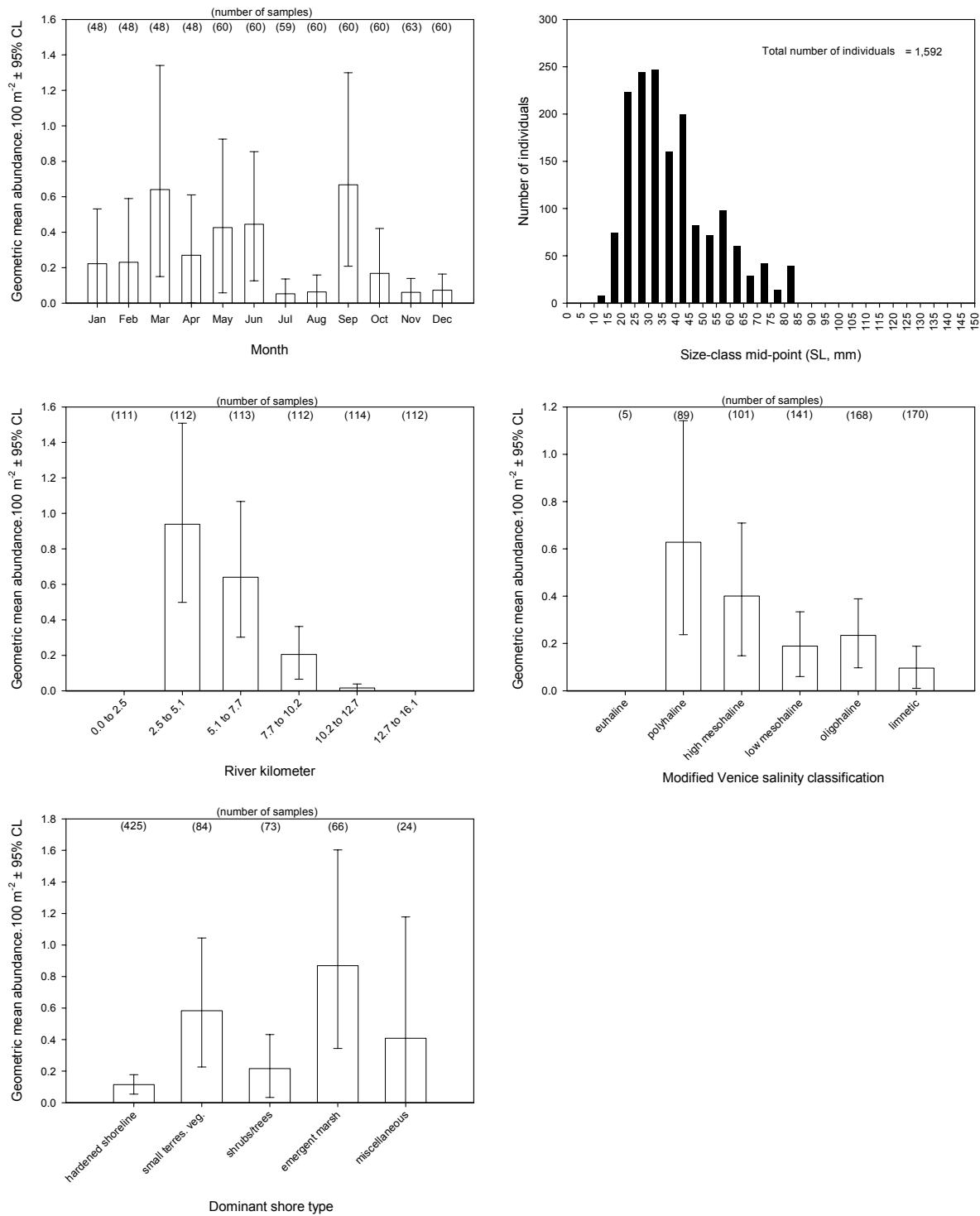


Fig. D9. Abundance of Striped killifish in nearshore habitats.

Fundulus grandis (Gulf killifish), Seines

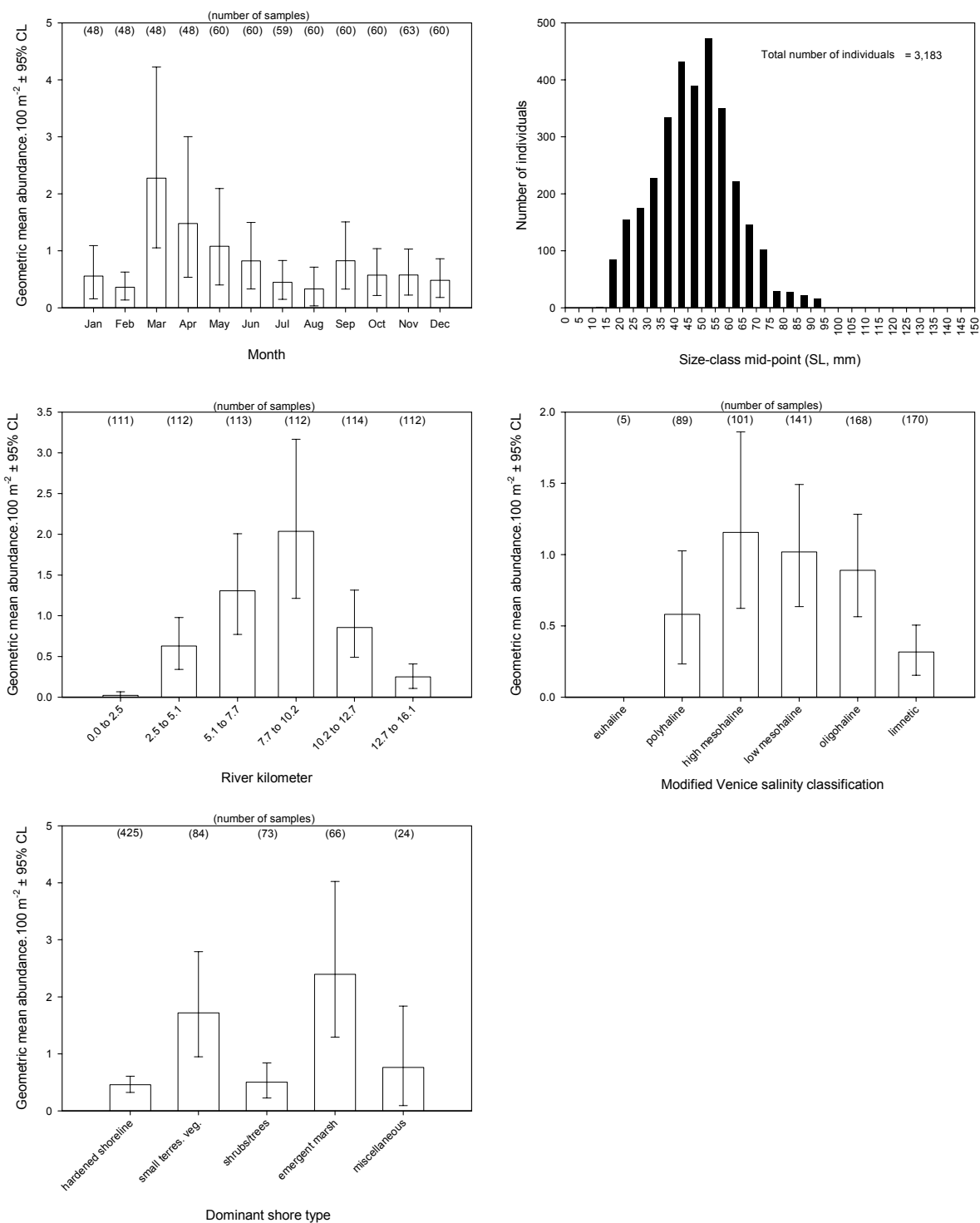


Fig. D10. Abundance of Gulf killifish in nearshore habitats.

Fundulus seminolis (Seminole killifish), Seines

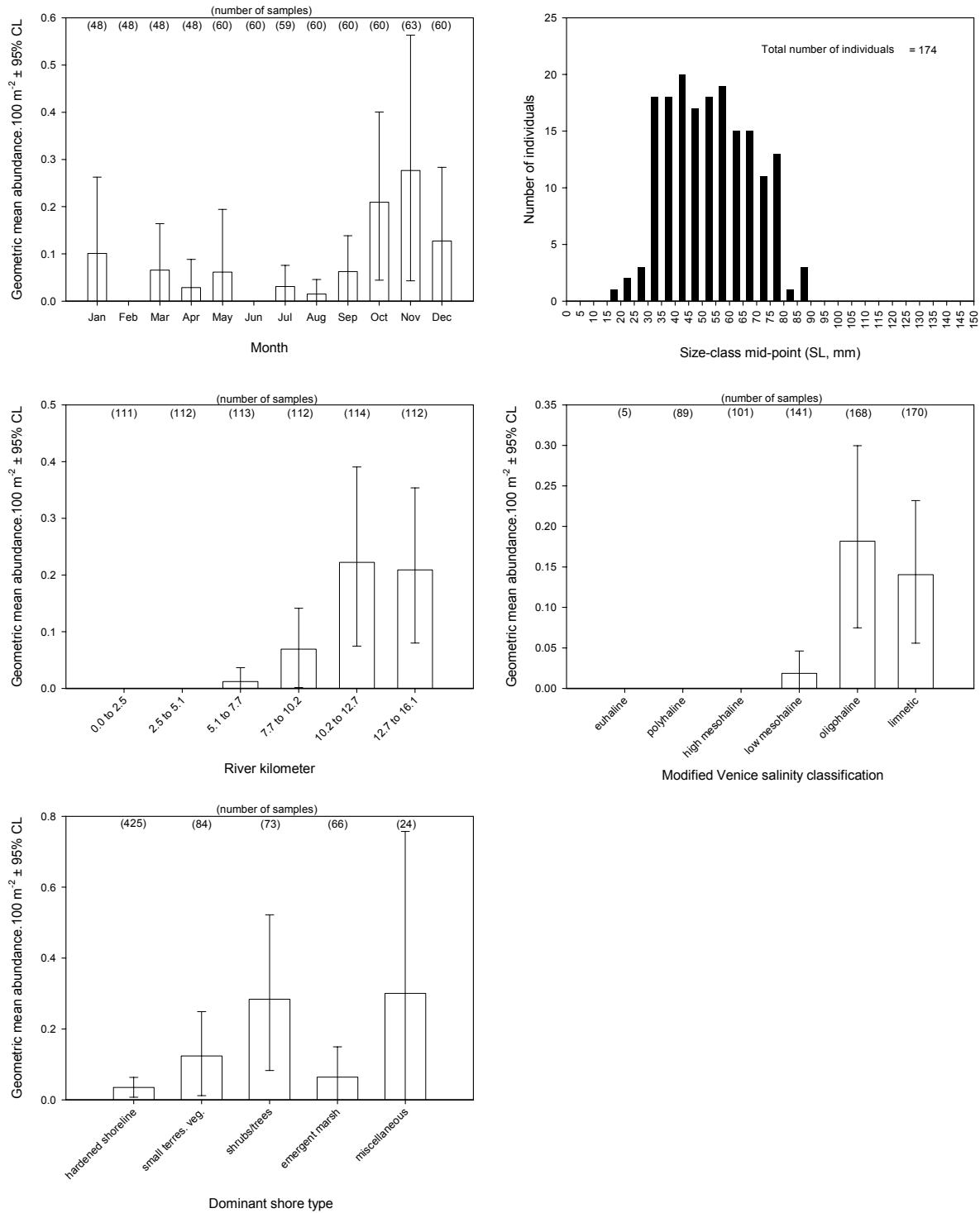


Fig. D11. Abundance of Seminole killifish in nearshore habitats.

Lucania parva (Rainwater killifish), Seines

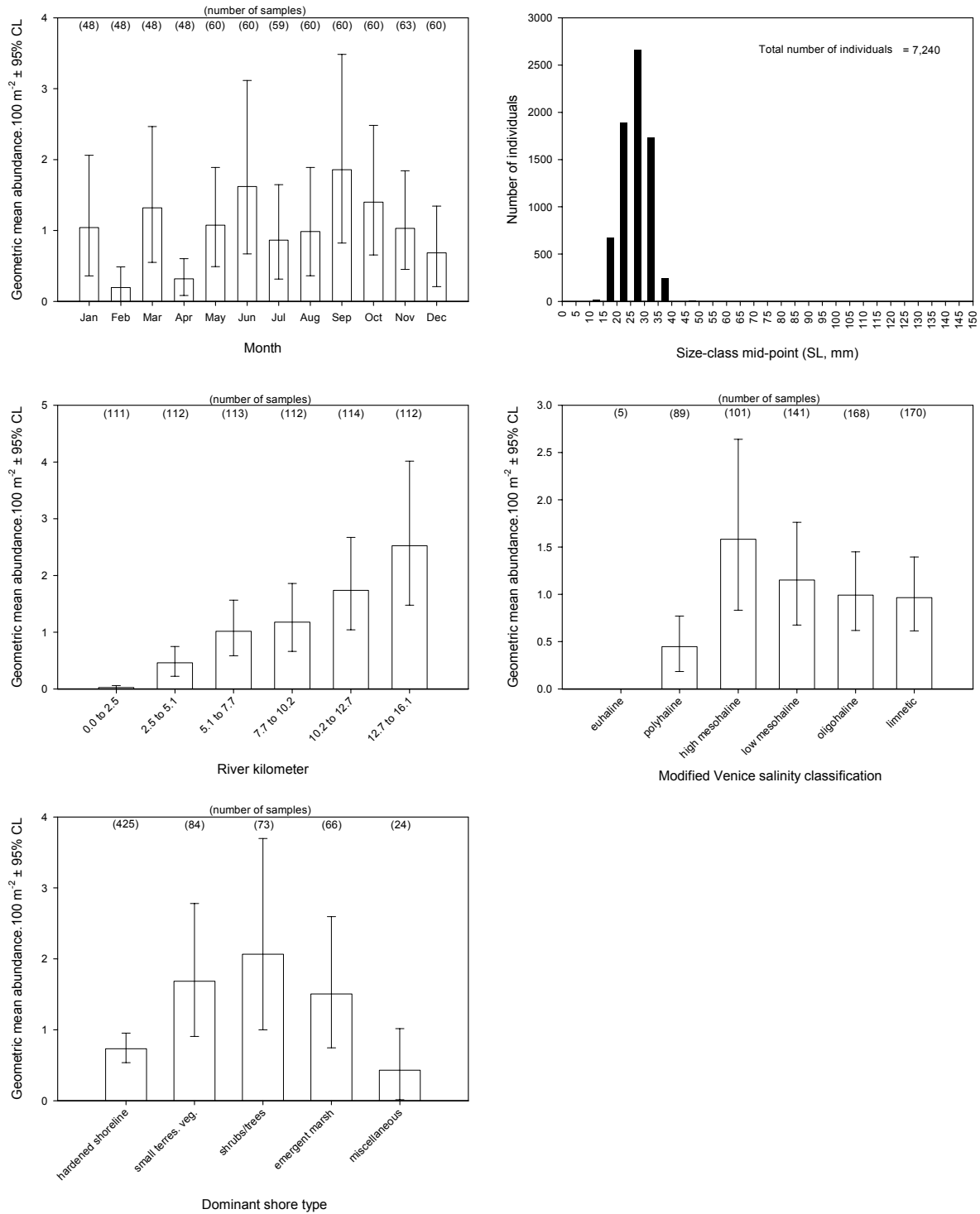


Fig. D12. Abundance of Rainwater killifish in nearshore habitats.

Gambusia holbrooki (Eastern mosquito fish), Seines

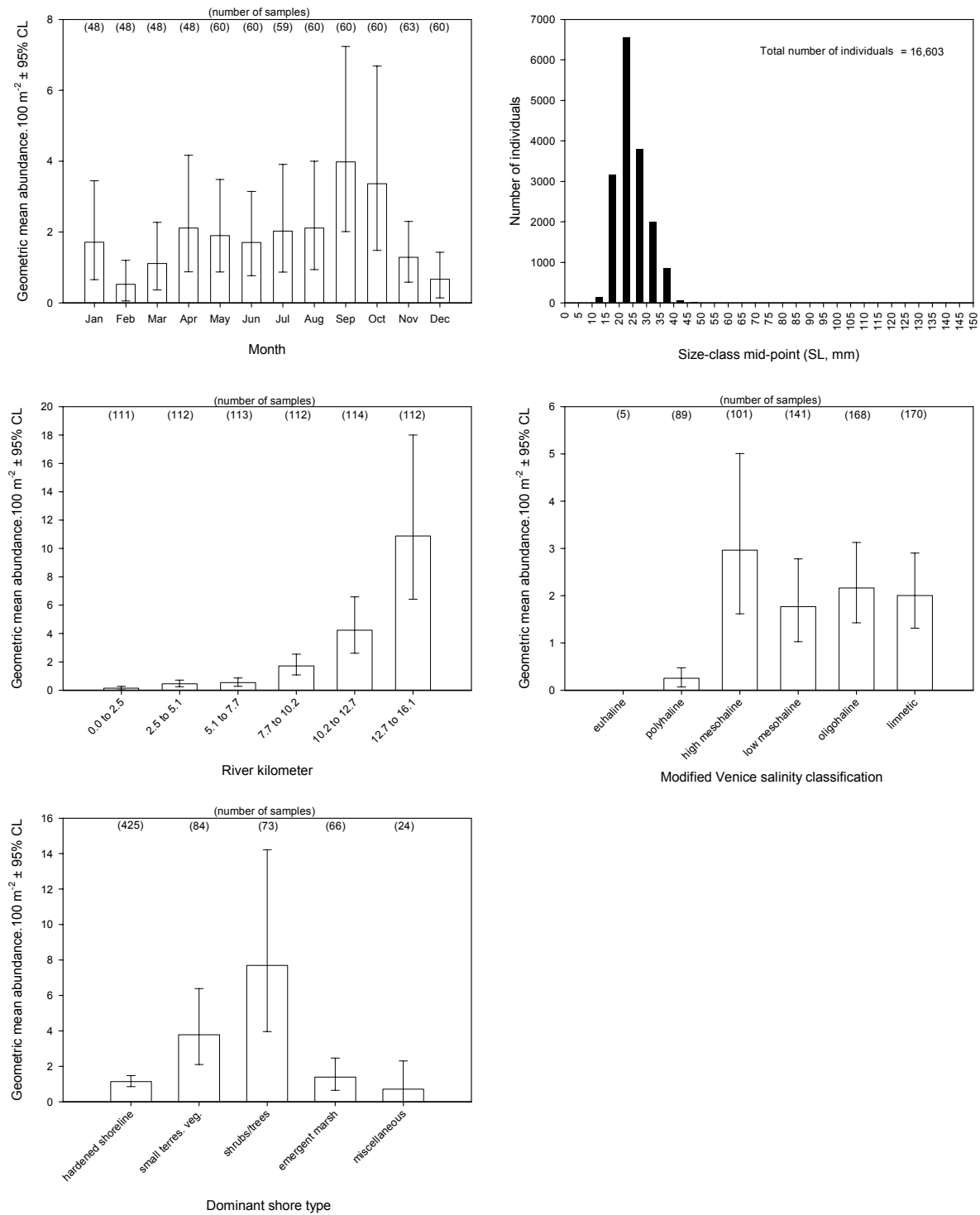


Fig. D13. Abundance of Eastern mosquito fish in nearshore habitats.

Poecilia latipinna (Sailfin molly), Seines

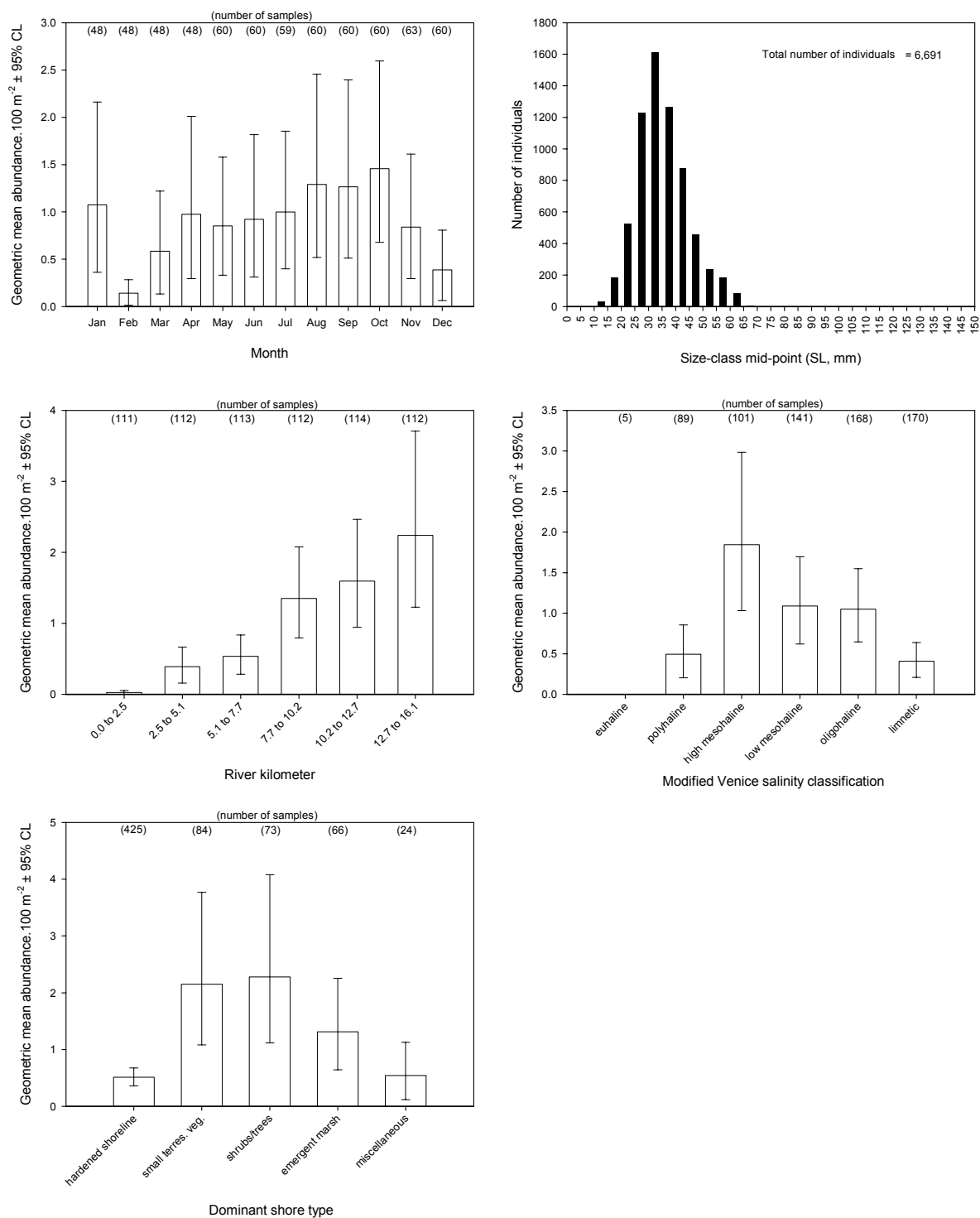


Fig. D14. Abundance of Sailfin molly in nearshore habitats.

***Menidia* spp. (Silversides), Seines**

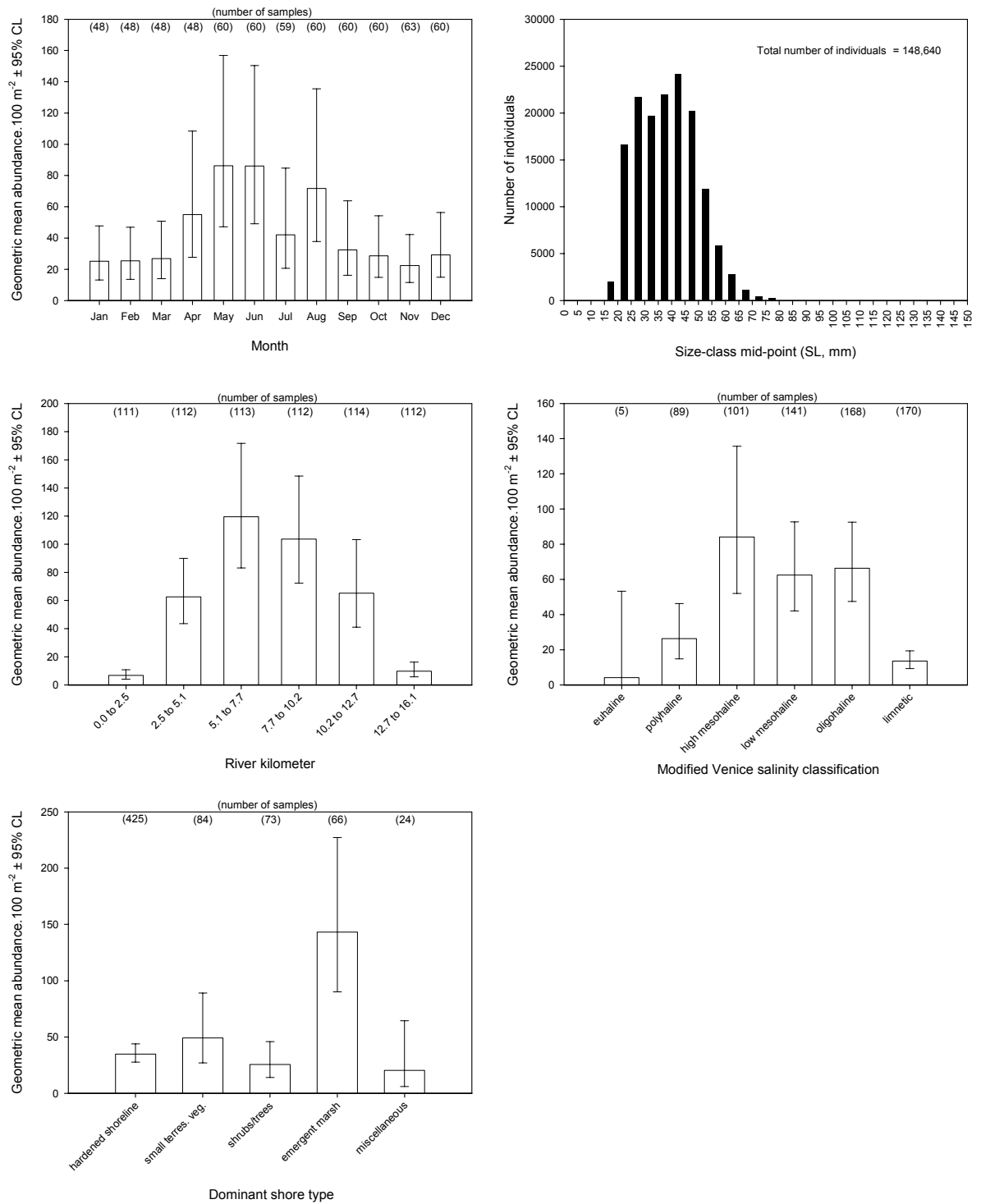


Fig. D15. Abundance of Silversides in nearshore habitats.

Labidesthes sicculus (Brook silverside), Seines

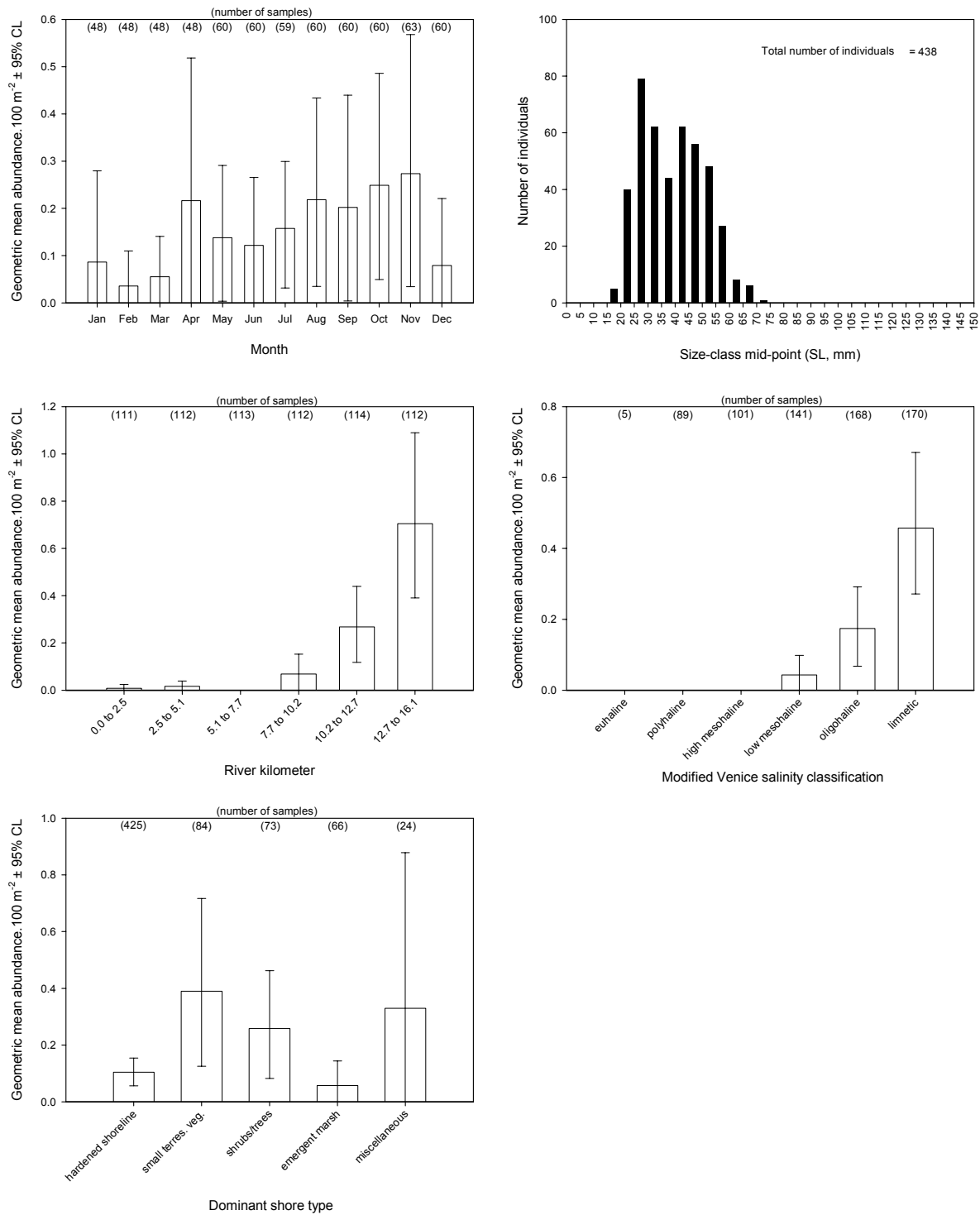


Fig. D16. Abundance of Brook silverside in nearshore habitats.

Syngnathus scovelli (Gulf pipefish), Seines

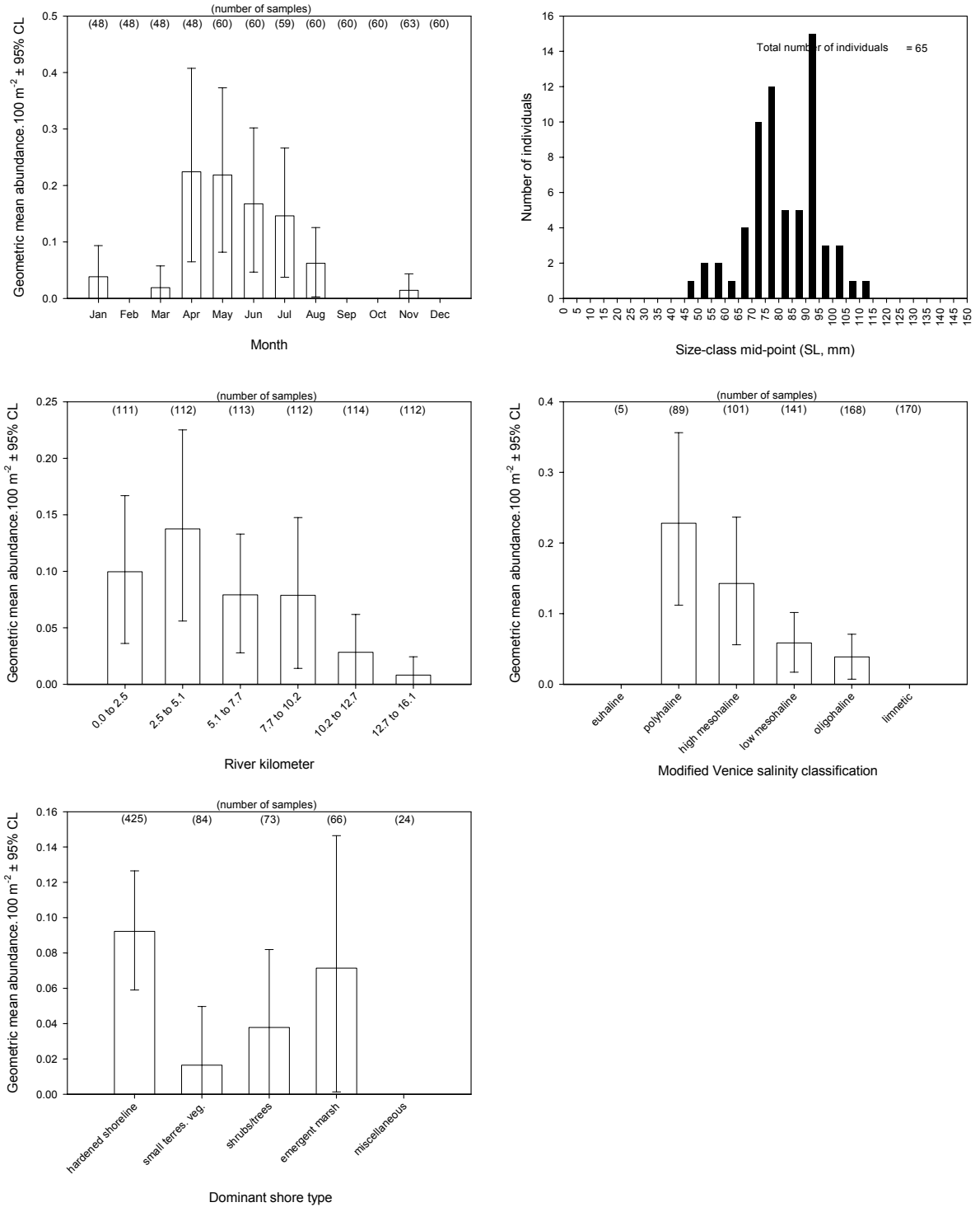


Fig. D17. Abundance of Gulf pipefish in nearshore habitats.

Lepomis macrochirus (Bluegill), Seines

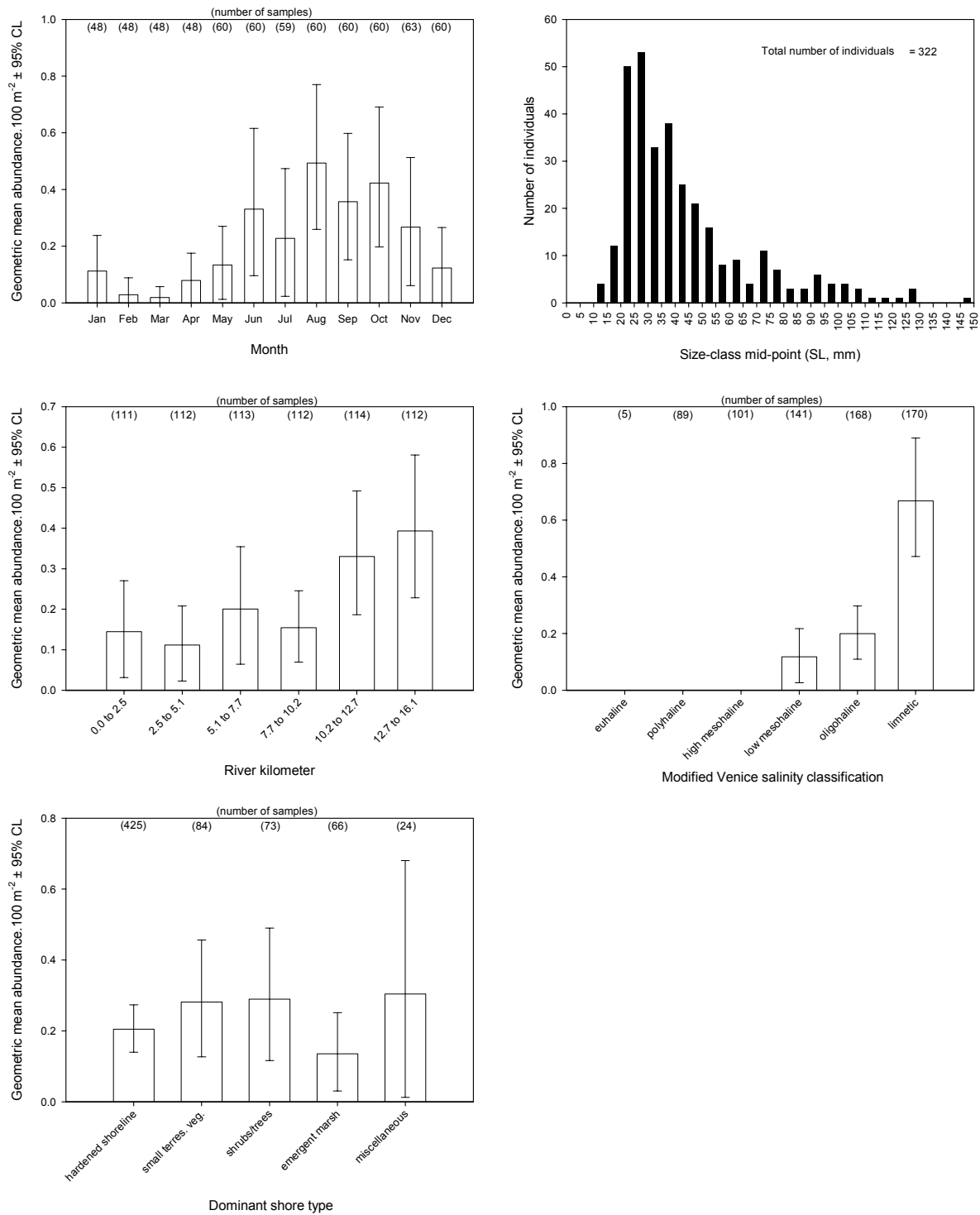


Fig. D18. Abundance of Bluegill in nearshore habitats.

Micropterus salmoides (Largemouth bass), Seines

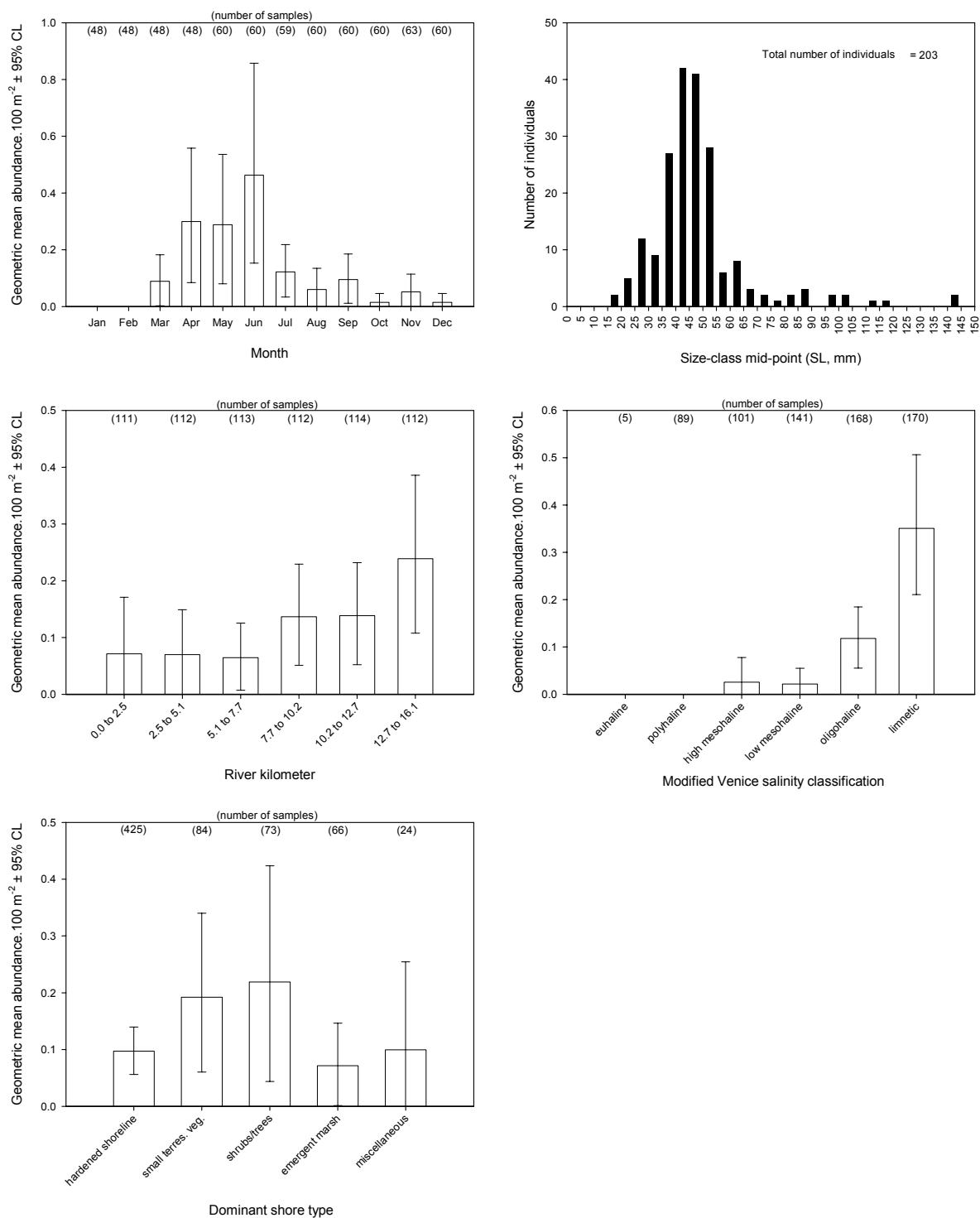


Fig. D19. Abundance of Largemouth bass in nearshore habitats.

Oligoplites saurus (Leatherjacket), Seines

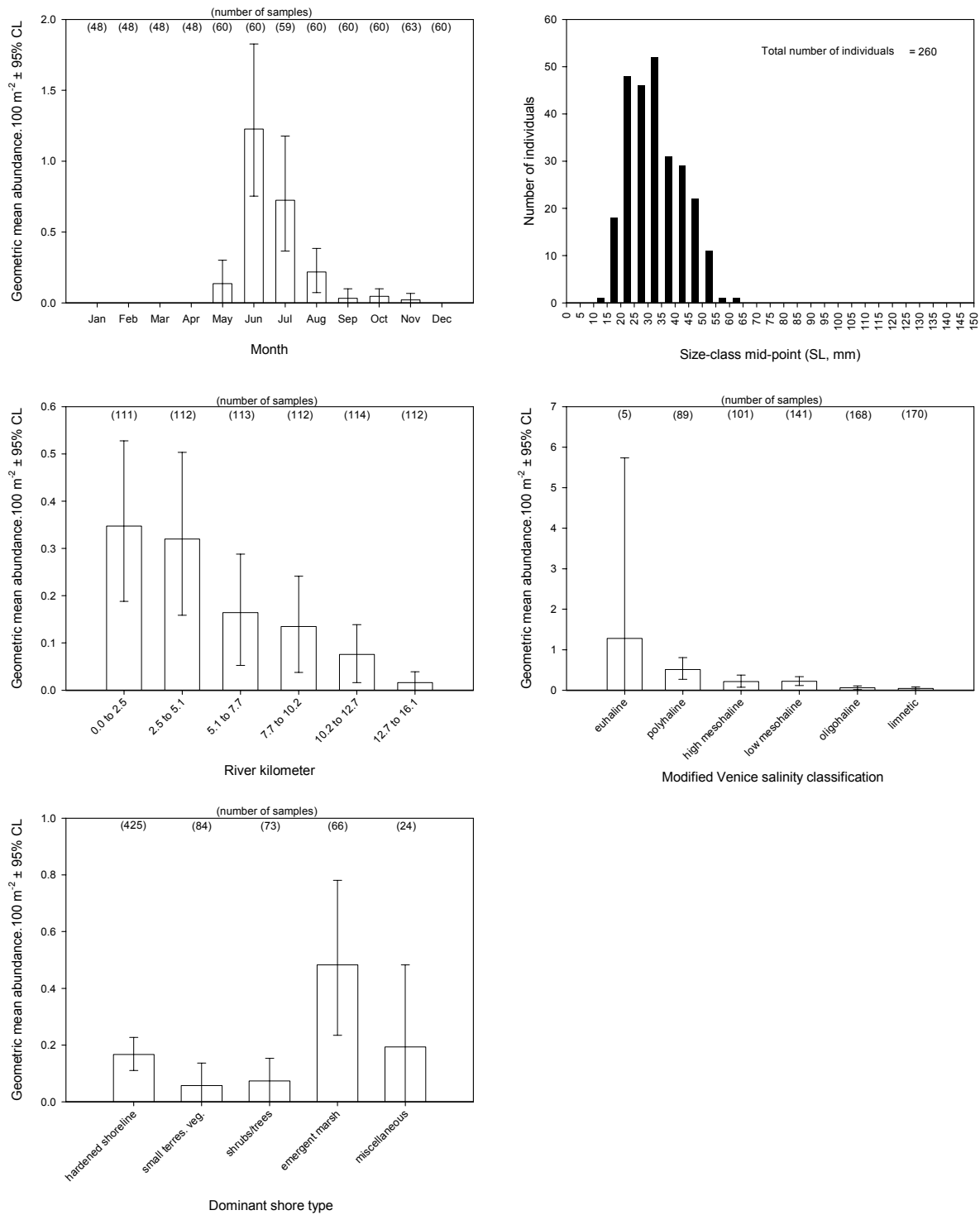


Fig. D20. Abundance of Leatherjacket in nearshore habitats.

Eucinostomus spp. (*Eucinostomus* mojarras), Seines

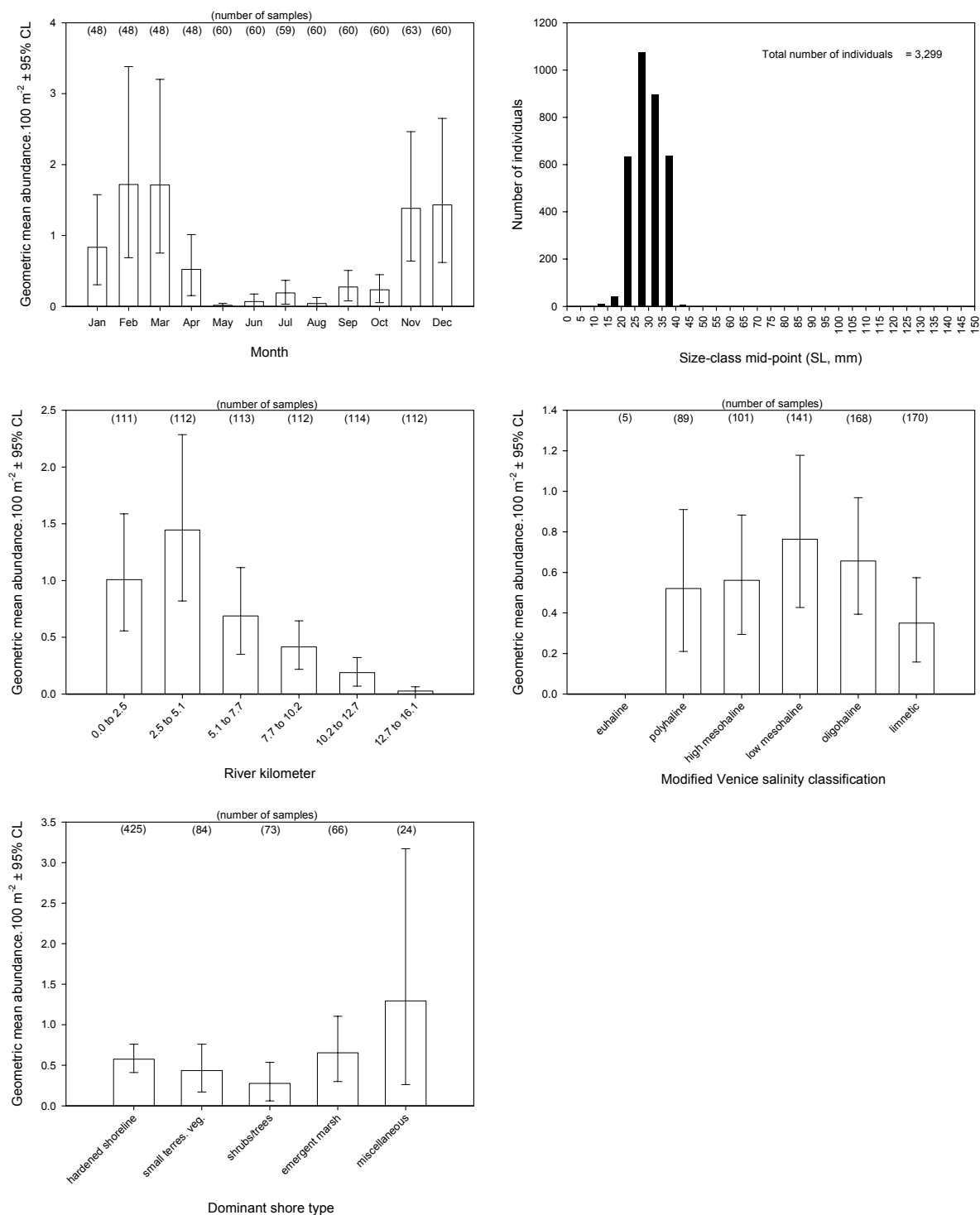


Fig. D21. Abundance of *Eucinostomus mojarras* in nearshore habitats.

Eucinostomus gula (Silver jenny), Seines

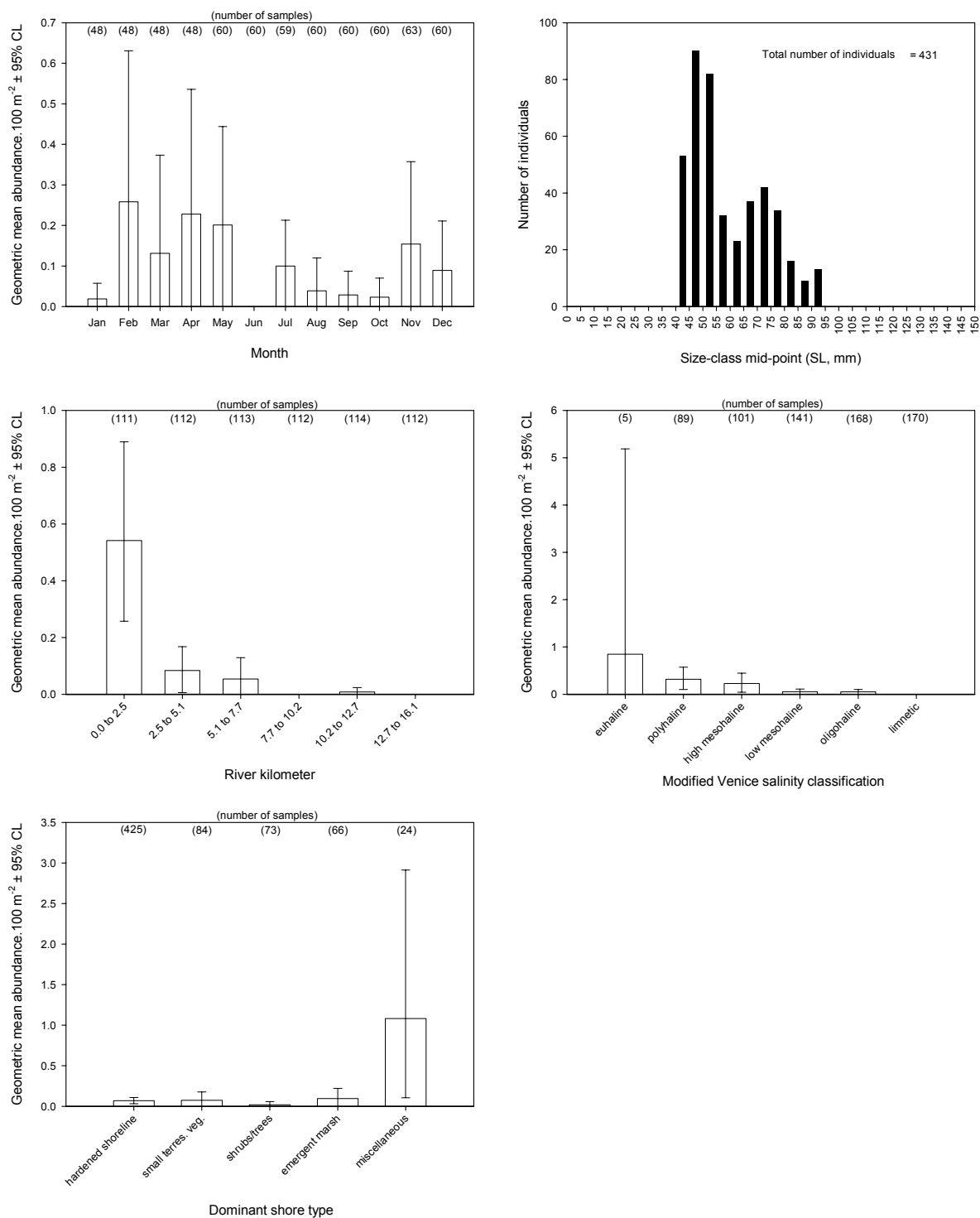


Fig. D22. Abundance of Silver jenny in nearshore habitats.

Eucinostomus harengulus (Tidewater mojarra), Seines

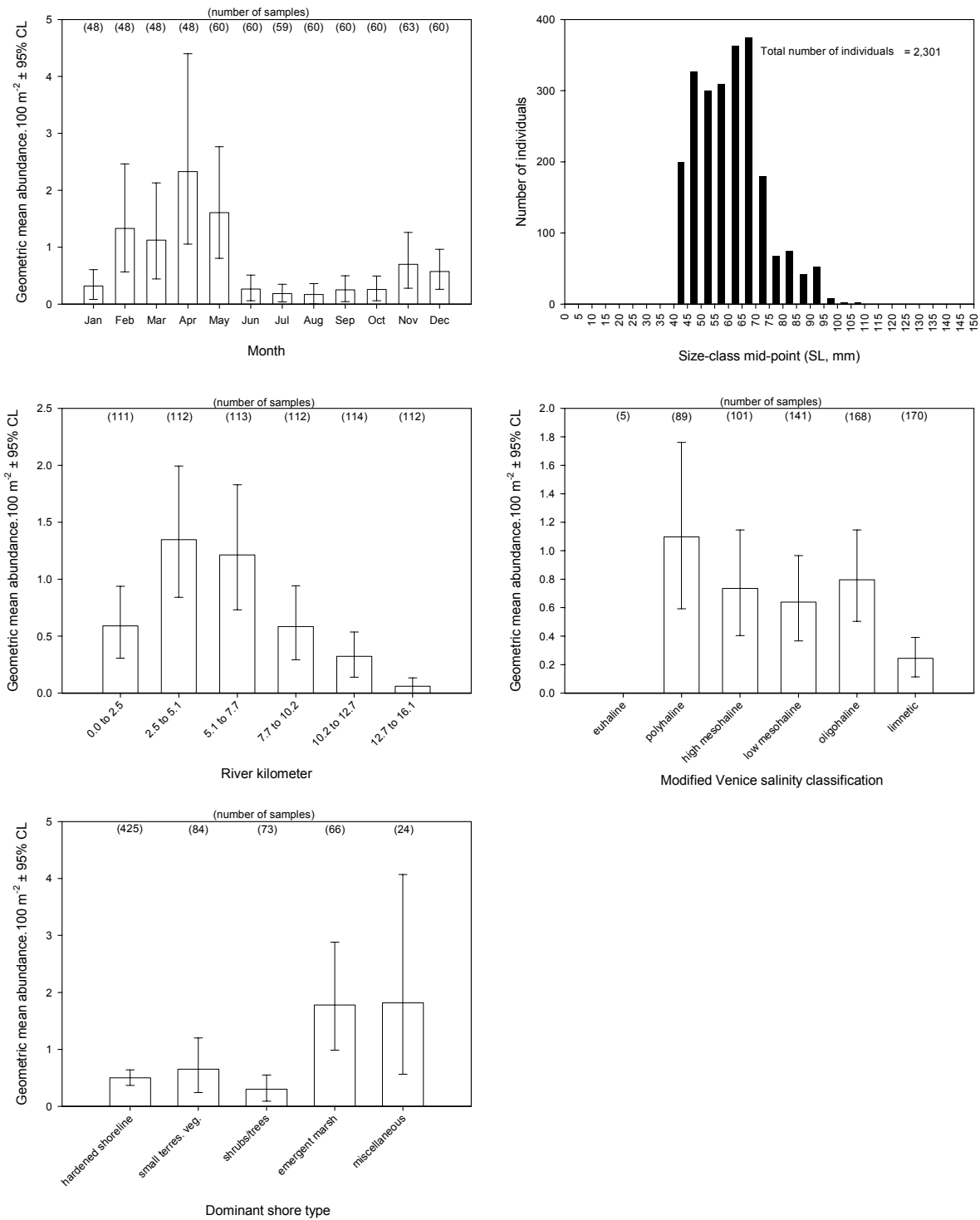


Fig. D23. Abundance of Tidewater mojarra in nearshore habitats.

Diapterus plumieri (Striped mojarra), Seines

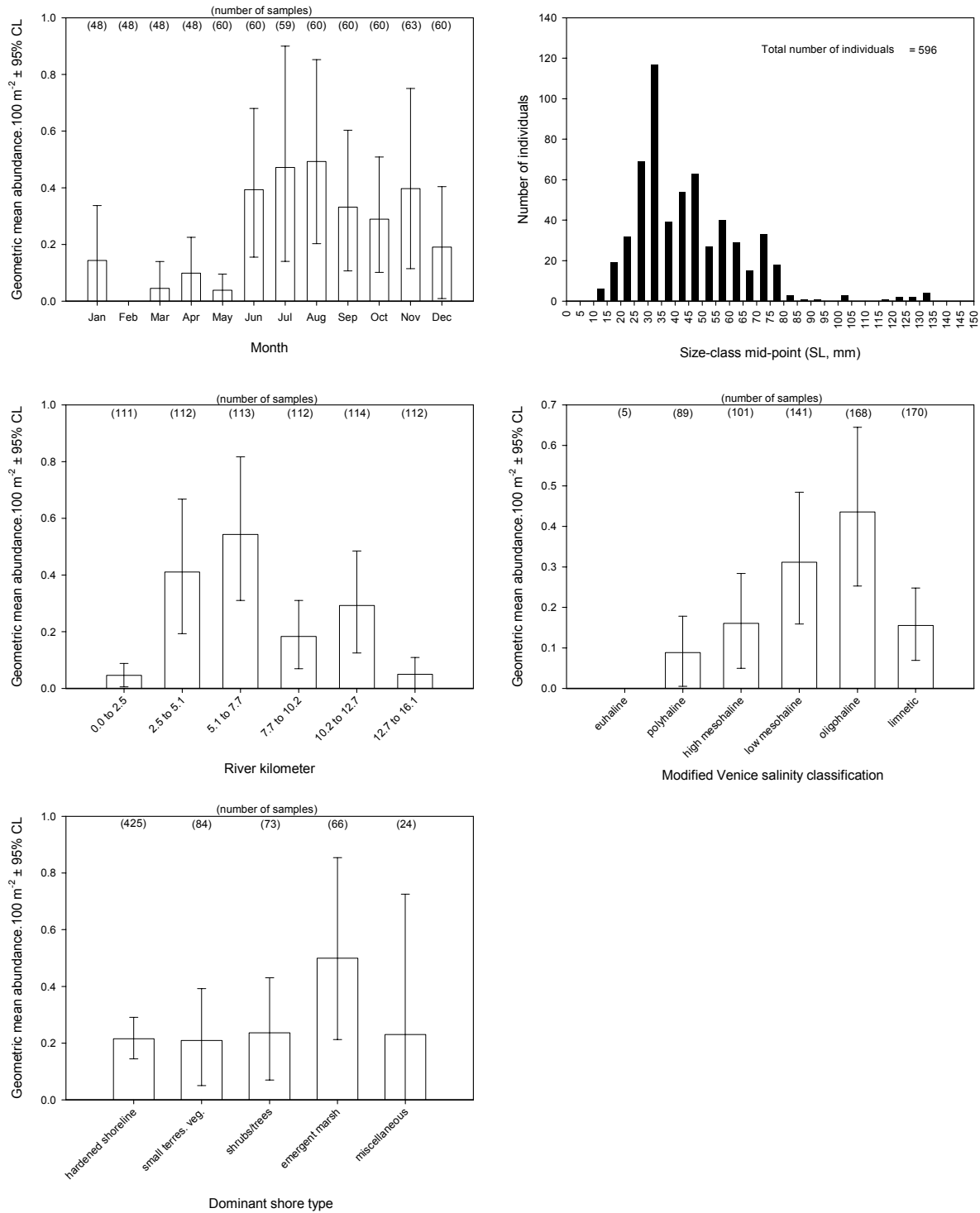


Fig. D24. Abundance of Striped mojarra in nearshore habitats.

Lagodon rhomboides (Pinfish), Seines

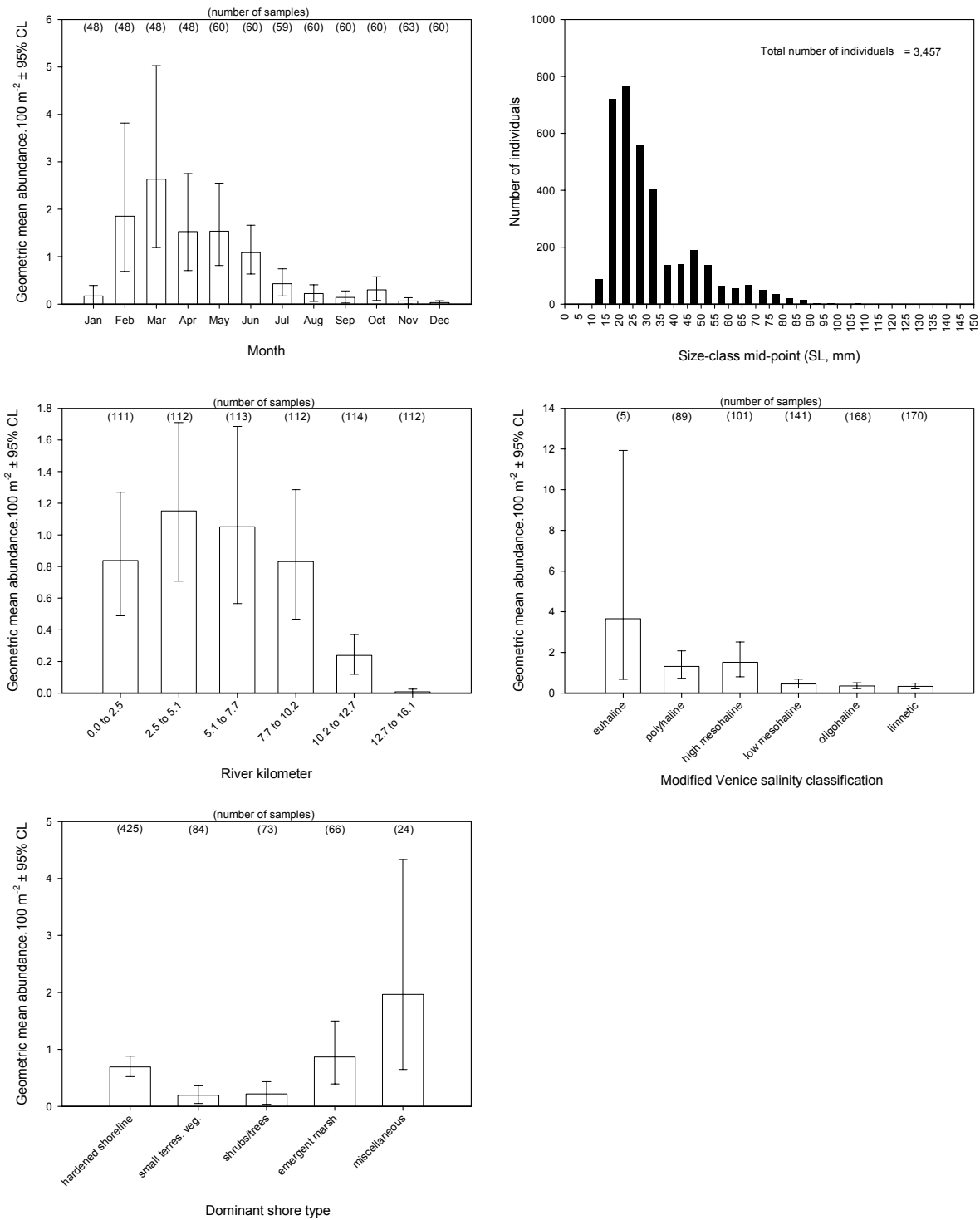


Fig. D25. Abundance of Pinfish in nearshore habitats.

Archosargus probatocephalus (Sheepshead), Seines

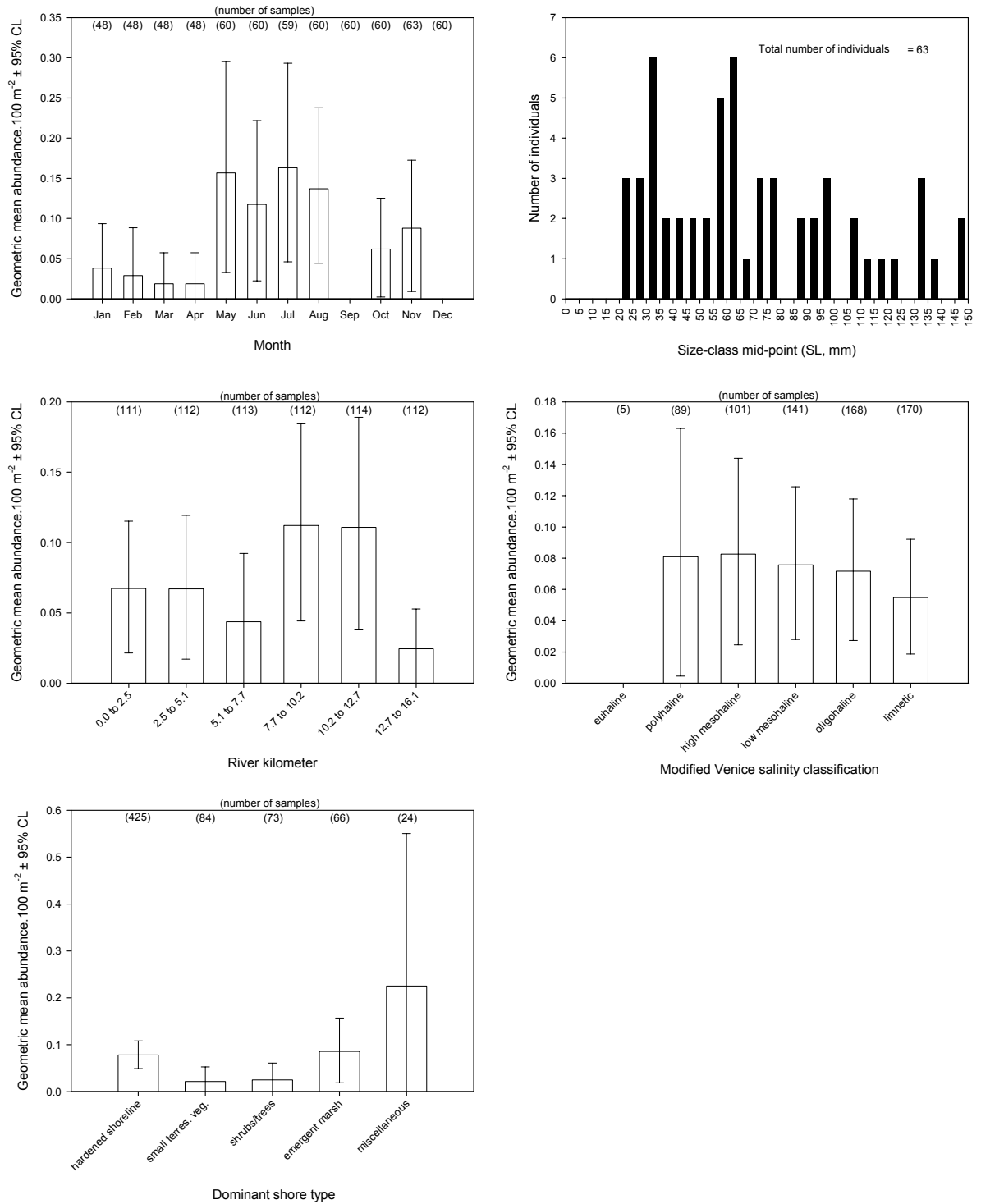


Fig. D26. Abundance of Sheepshead in nearshore habitats.

Cynoscion arenarius (Sand seatrout), Seines

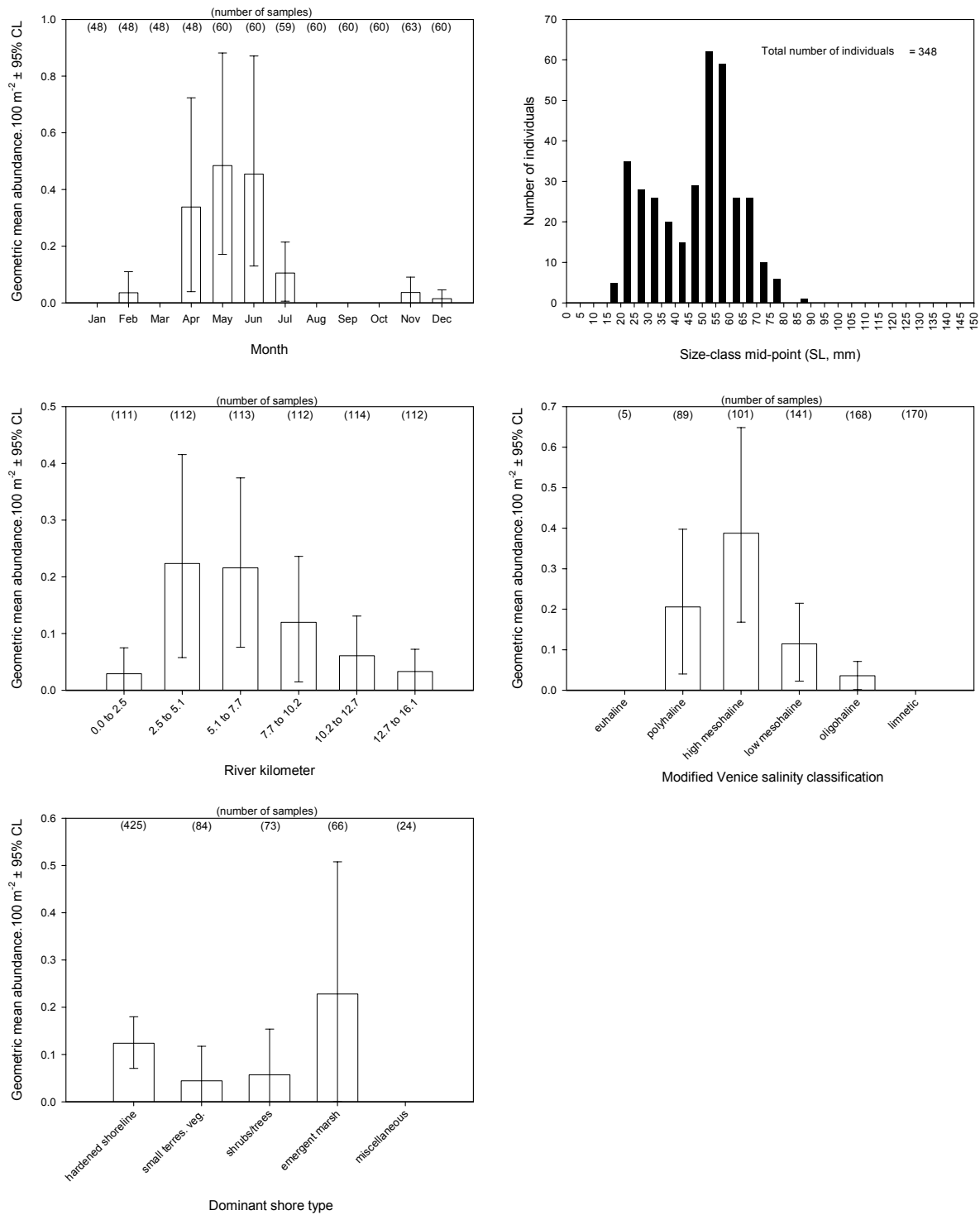


Fig. D27. Abundance of Sand seatrout in nearshore habitats.

Bairdiella chrysoura (Silver perch), Seines

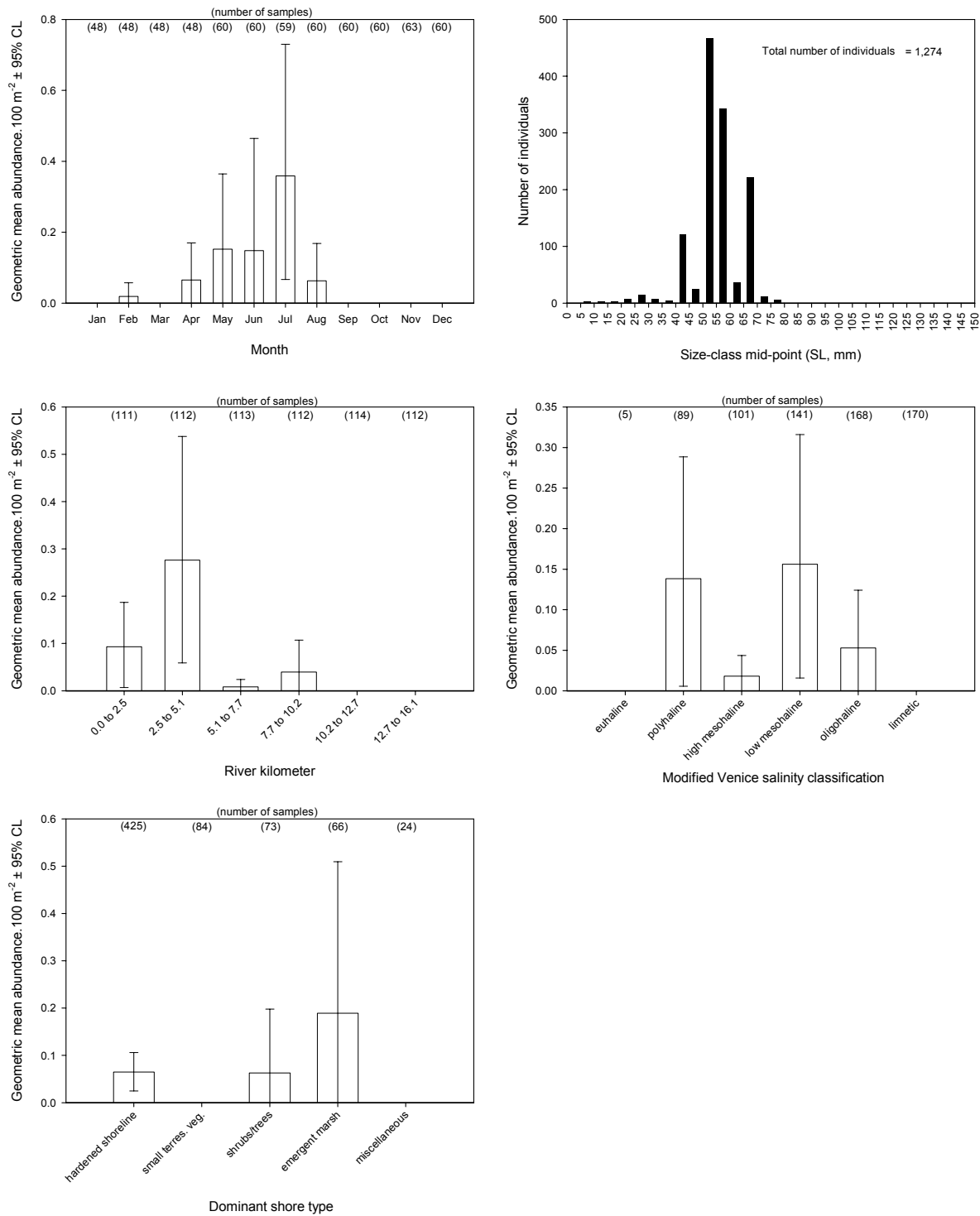


Fig. D28. Abundance of Silver perch in nearshore habitats.

Leiostomus xanthurus (Spot), Seines

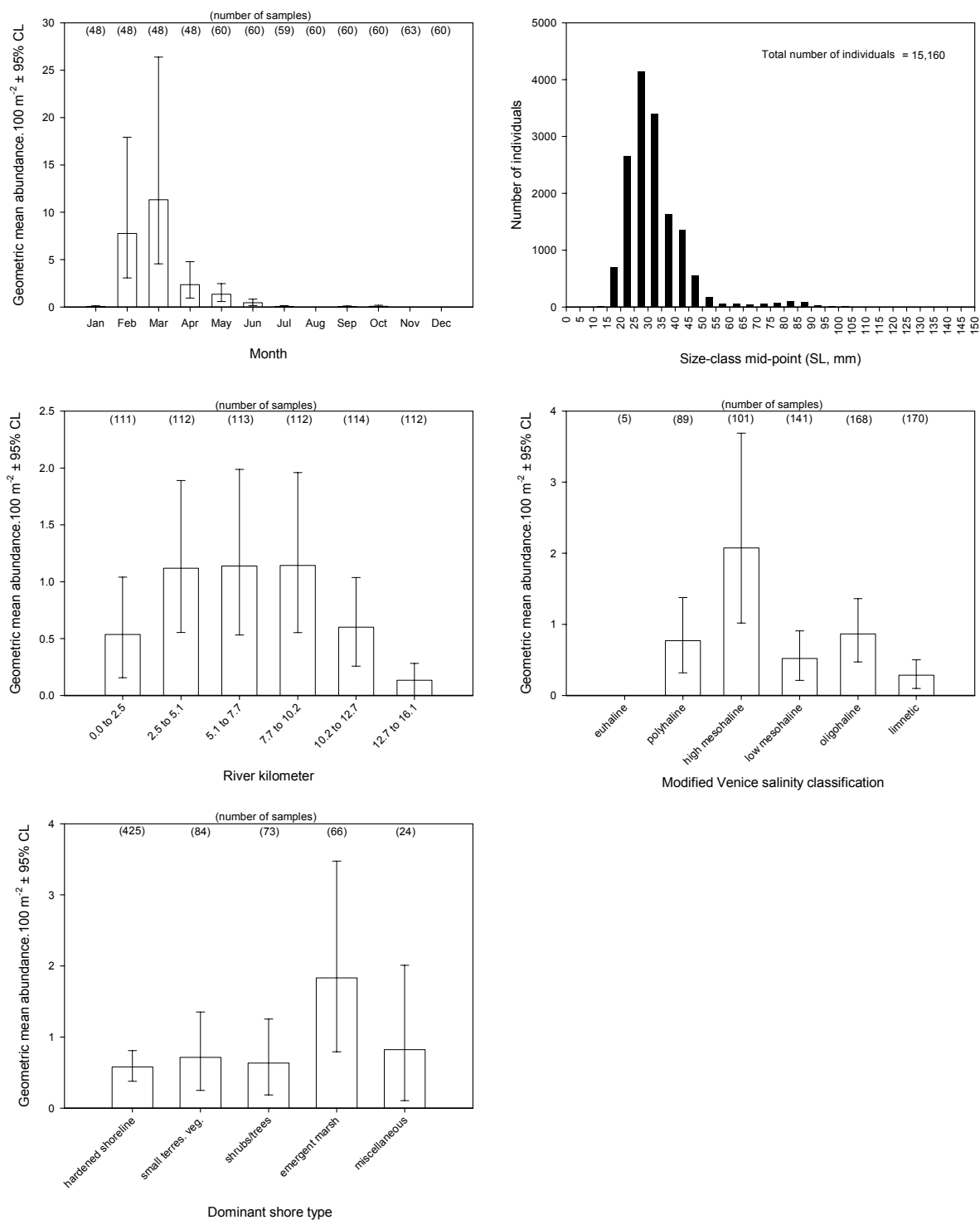


Fig. D29. Abundance of Spot in nearshore habitats.

Menticirrhus americanus (Southern kingfish), Seines

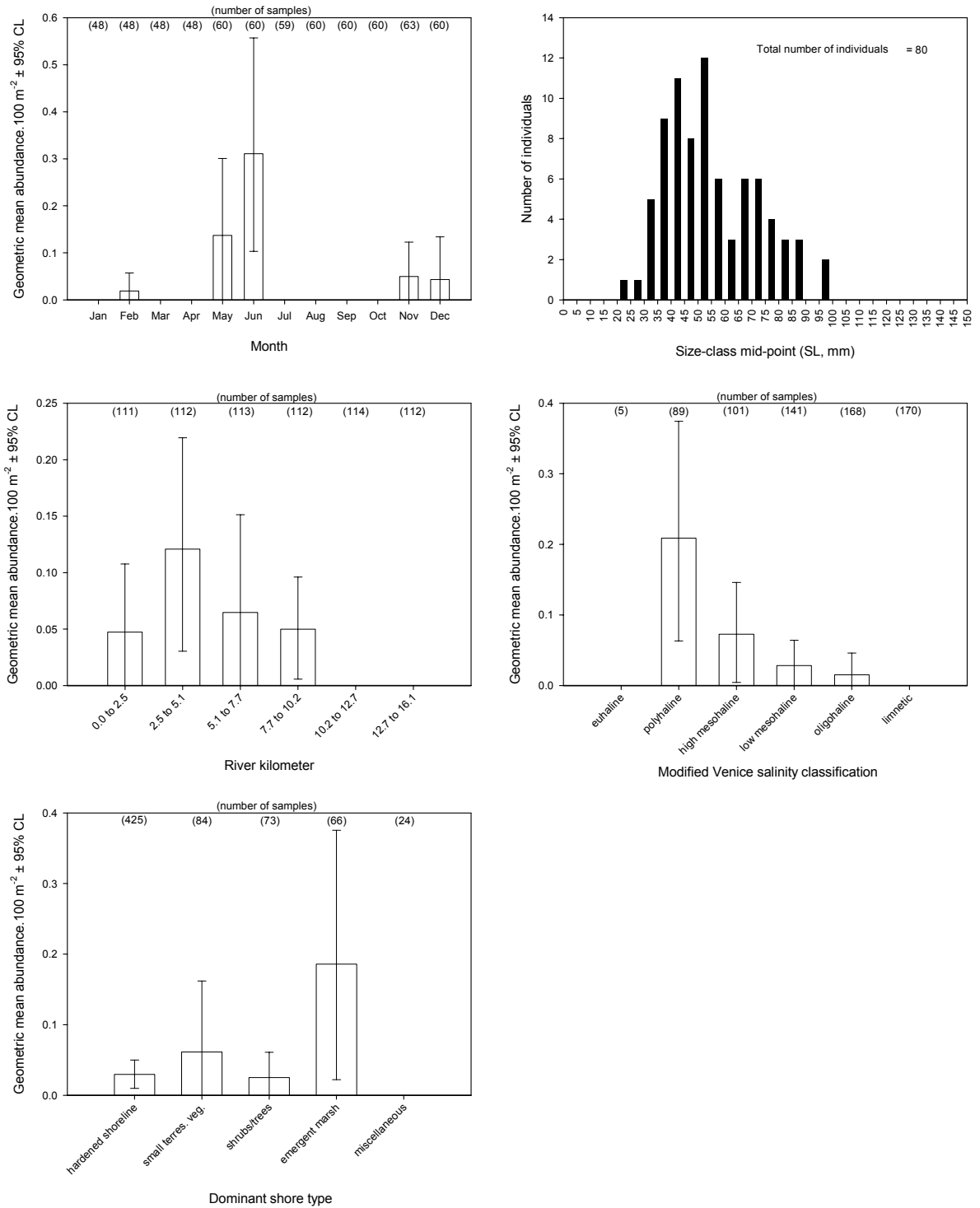


Fig. D30. Abundance of Southern kingfish in nearshore habitats.

Sciaenops ocellatus (Red drum), Seines

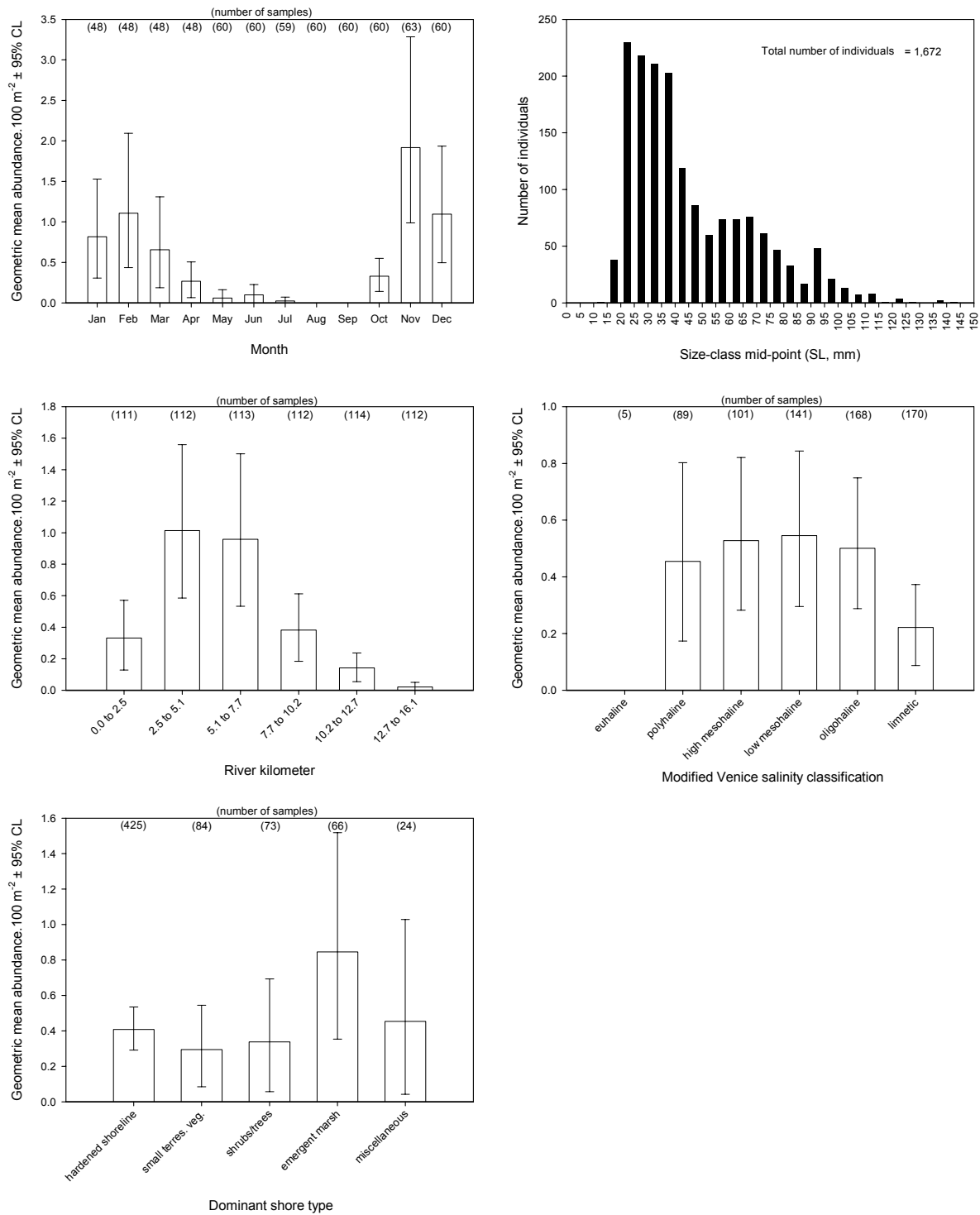


Fig. D31. Abundance of Red drum in nearshore habitats.

Tilapia spp. (Tilapias), Seines

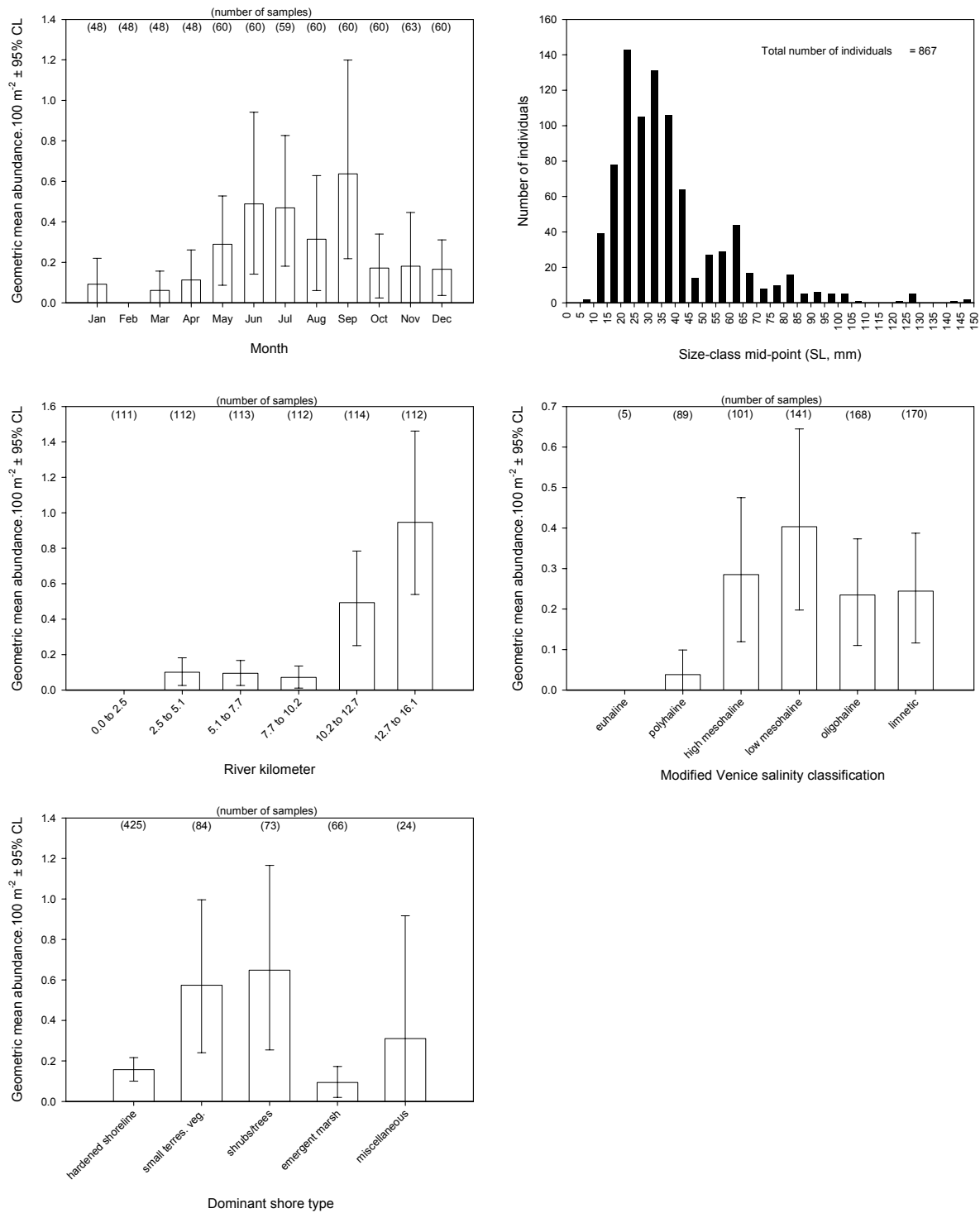


Fig. D32. Abundance of Tilapias in nearshore habitats.

Mugil cephalus (Striped mullet), Seines

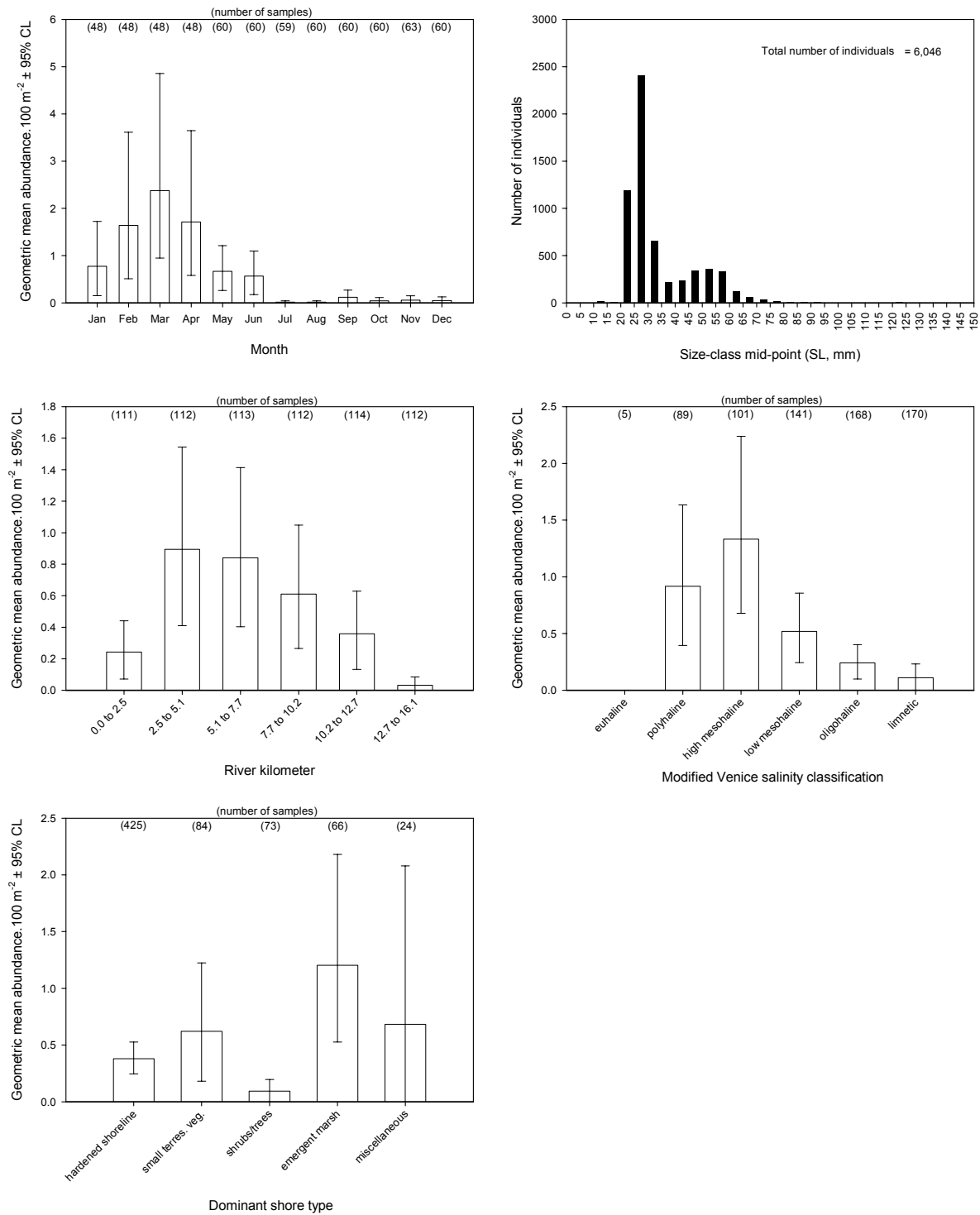


Fig. D33. Abundance of Striped mullet in nearshore habitats.

***Gobiosoma* spp. (*Gobiosoma* gobies), Seines**

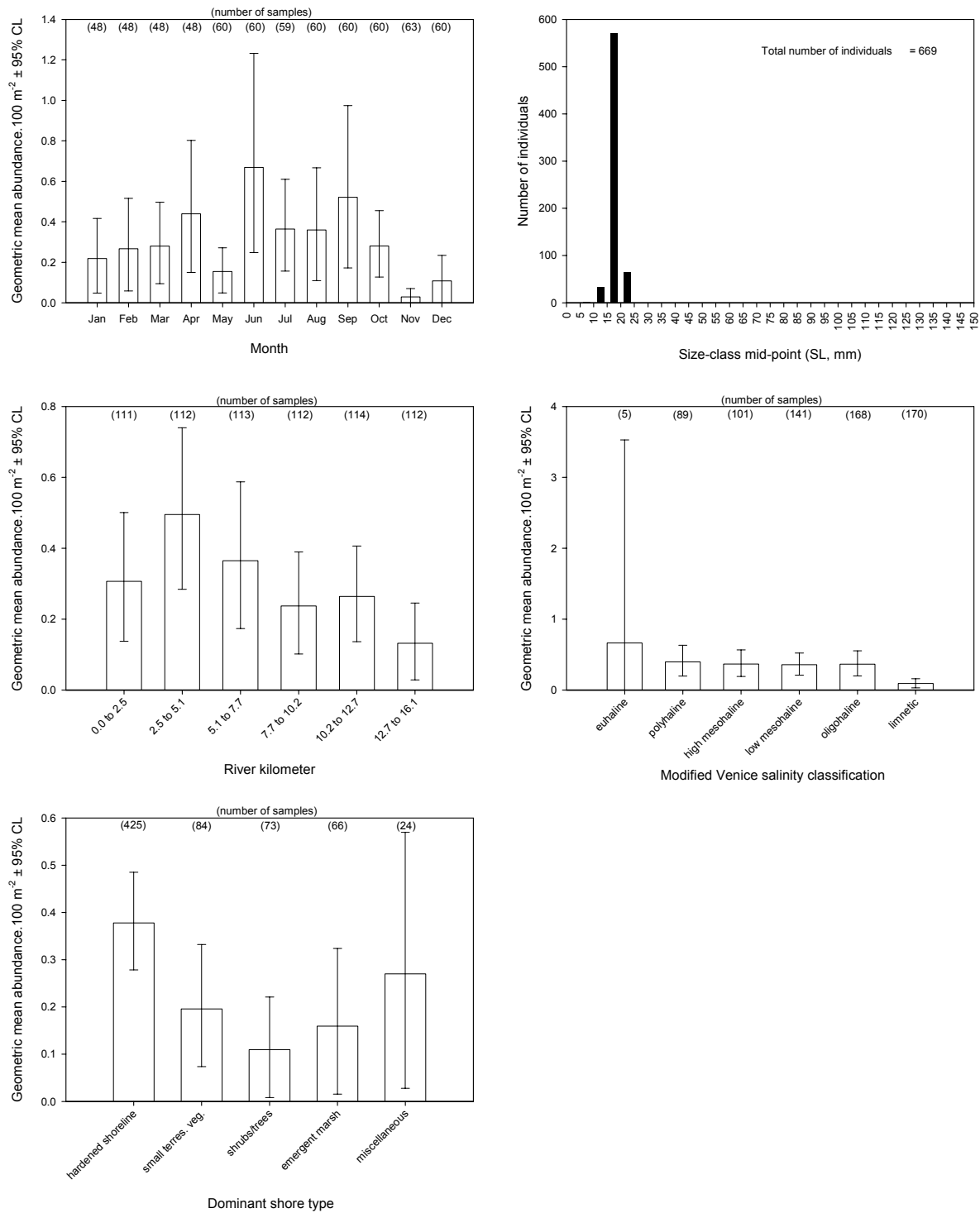


Fig. D34. Abundance of *Gobiosoma* gobies in nearshore habitats.

Gobiosoma bosc (Naked goby), Seines

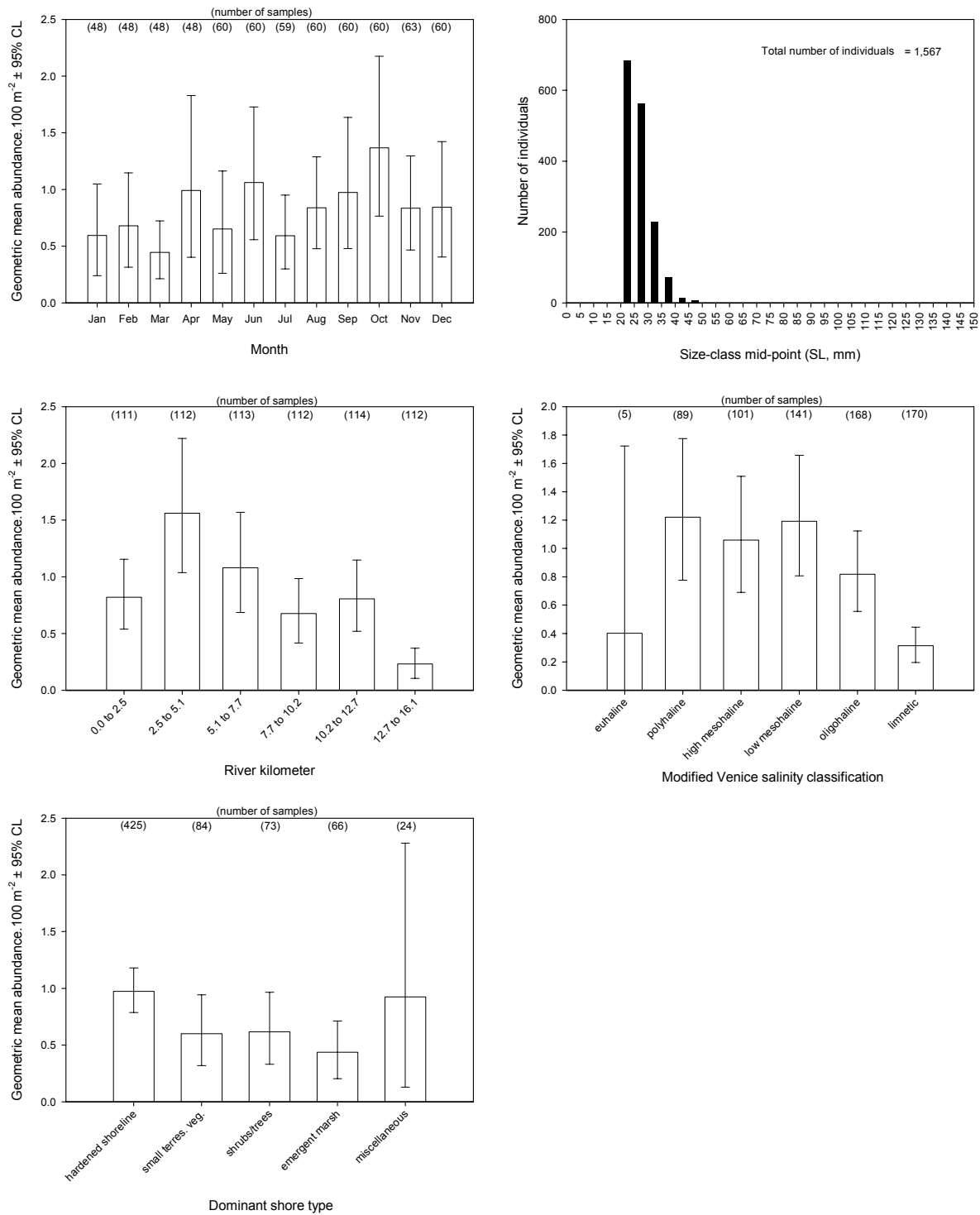


Fig. D35. Abundance of Naked goby in nearshore habitats.

Microgobius gulosus (Clown goby), Seines

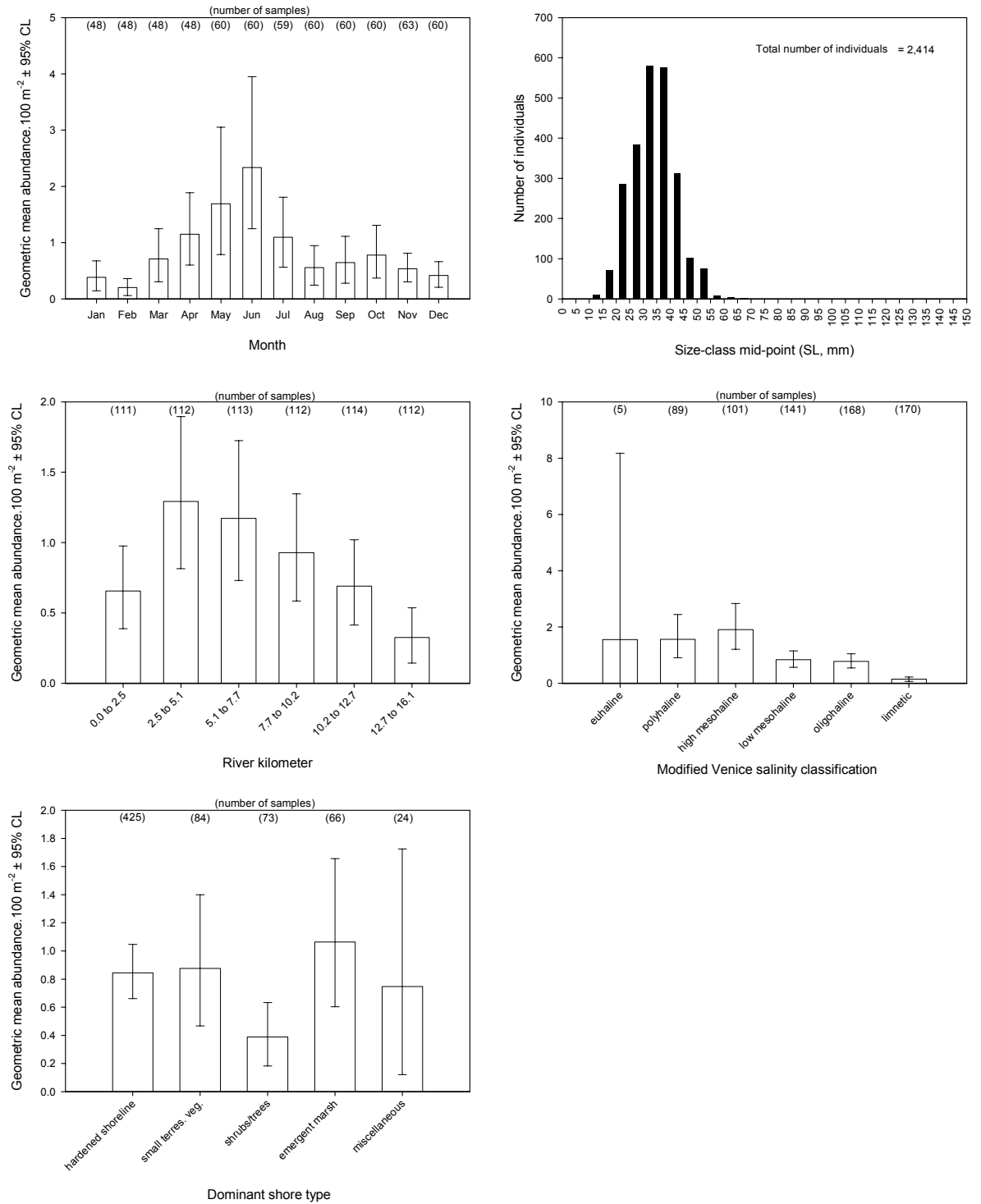


Fig. D36. Abundance of Clown goby in nearshore habitats.

Trinectes maculatus (Hogchoker), Seines

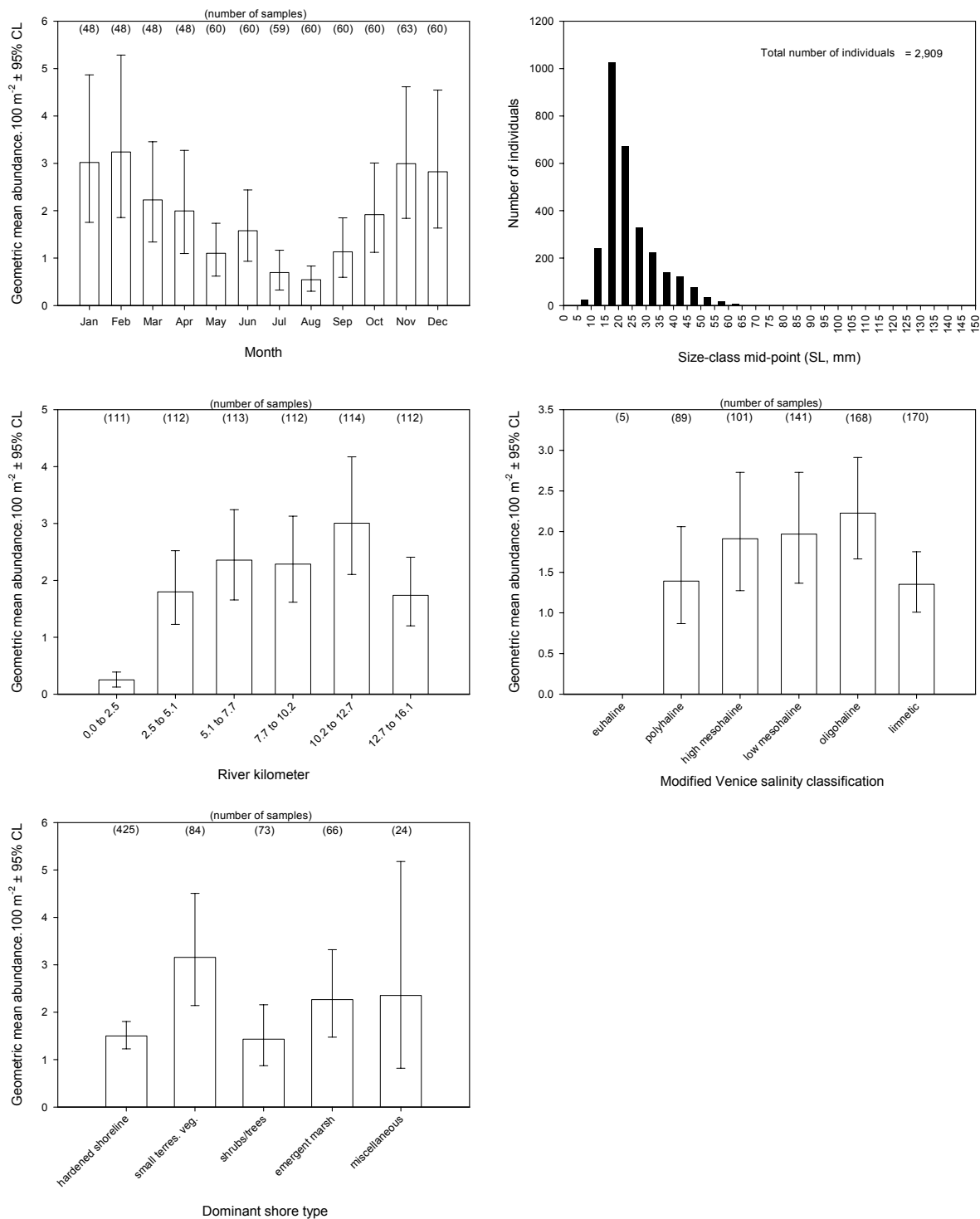


Fig. D37. Abundance of Hogchoker in nearshore habitats.

Appendix E:
Trawl catch overview plots

Farfantepenaeus duorarum (Pink shrimp), Trawls

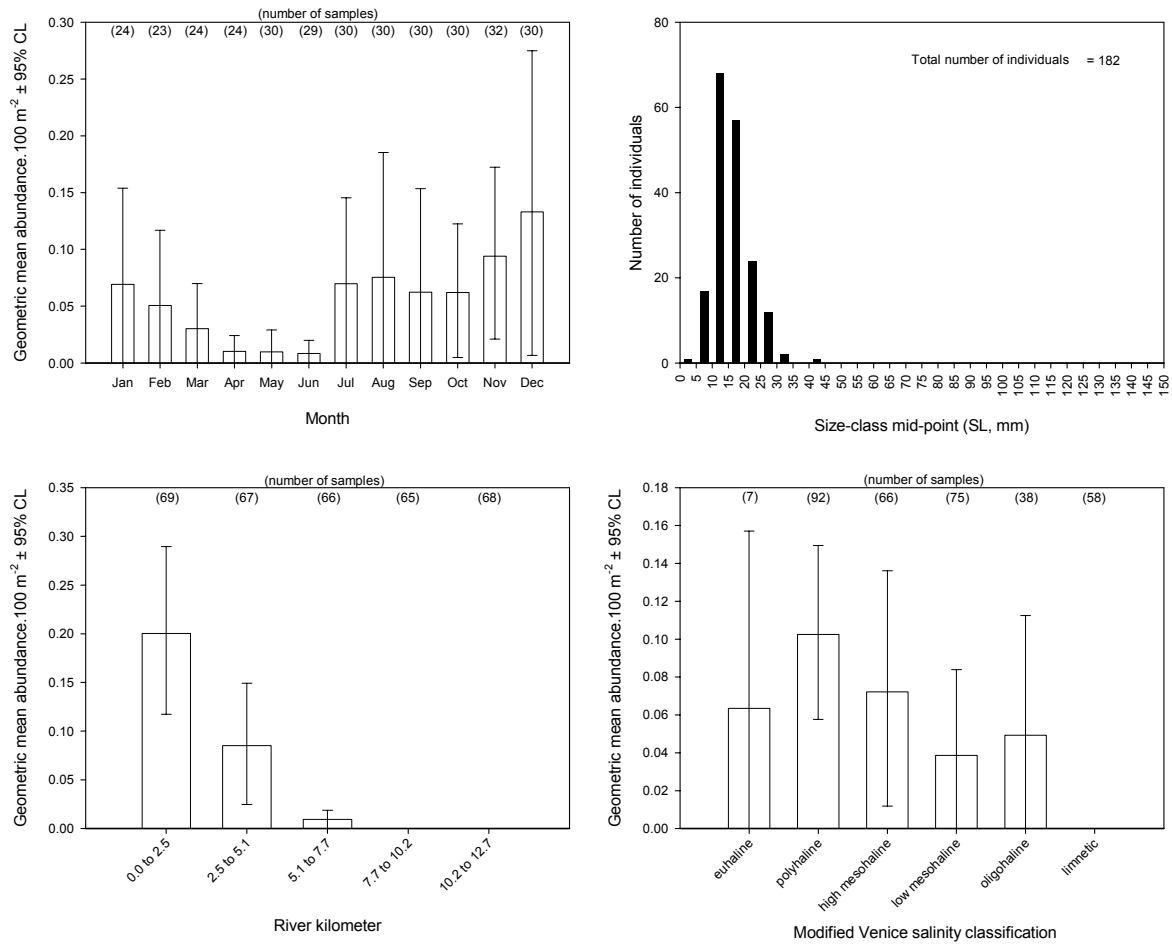


Fig. E1. Abundance of Pink shrimp in channel habitats.

Palaemonetes pugio (Daggerblade grass shrimp), Trawls

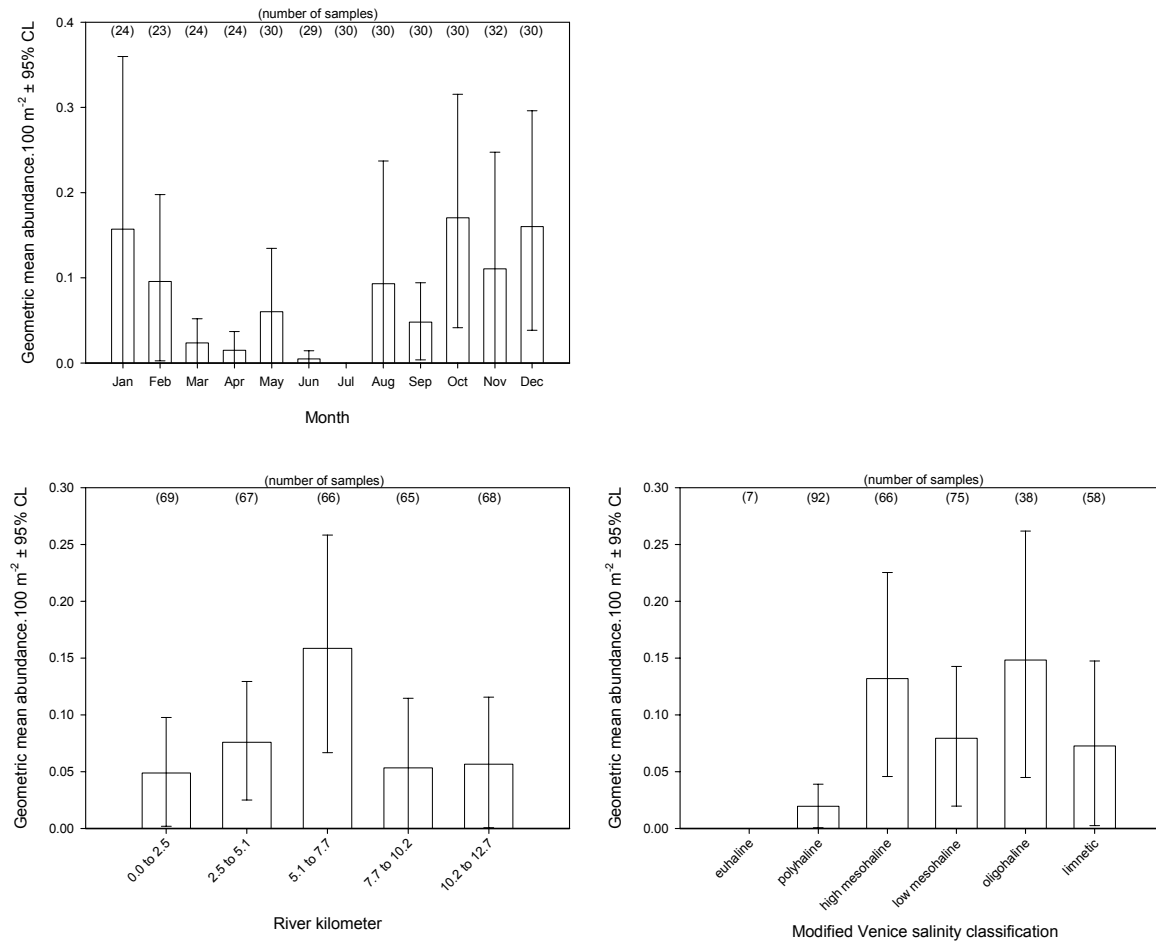


Fig. E2. Abundance of Daggerblade grass shrimp in channel habitats.

Callinectes sapidus (Blue crab), Trawls

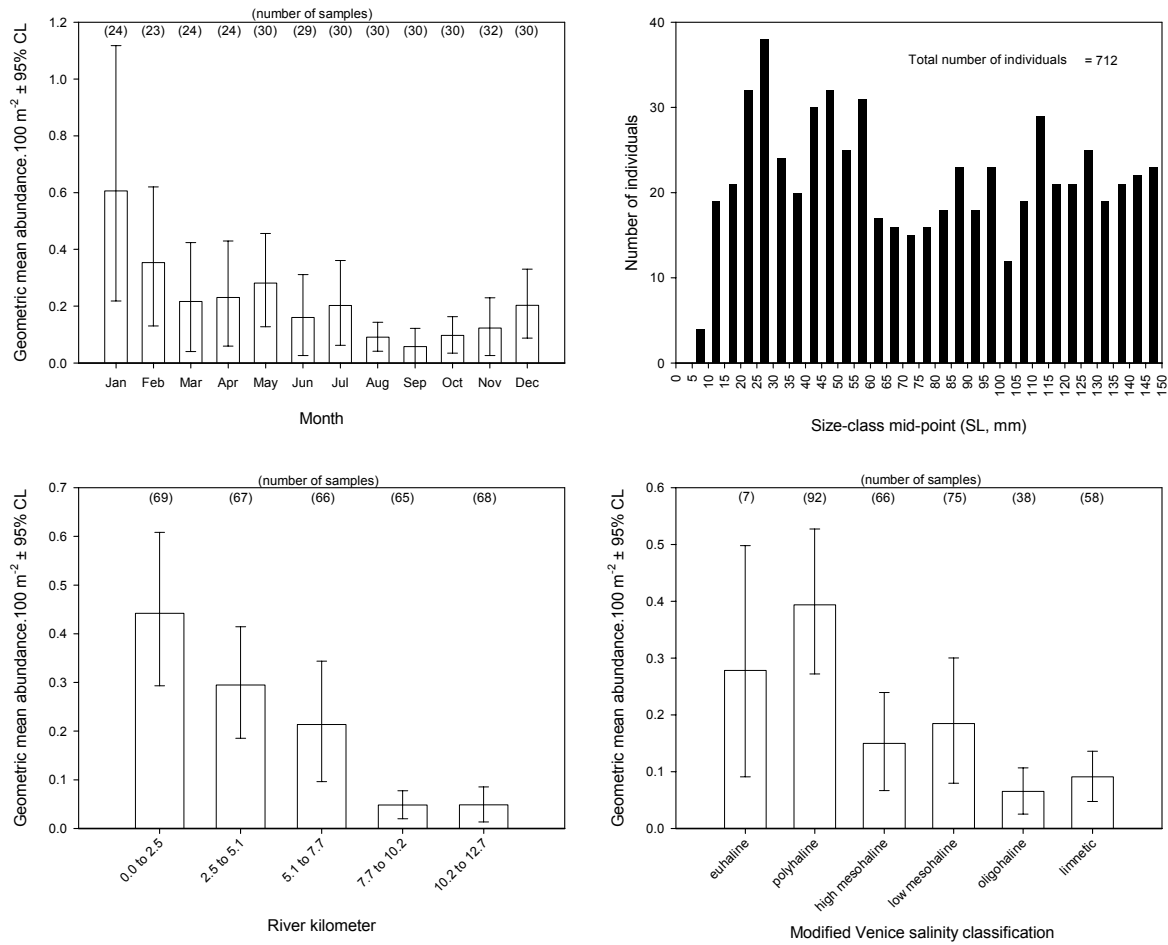


Fig. E3. Abundance of Blue crab in channel habitats.

Anchoa hepsetus (Striped anchovy), Trawls

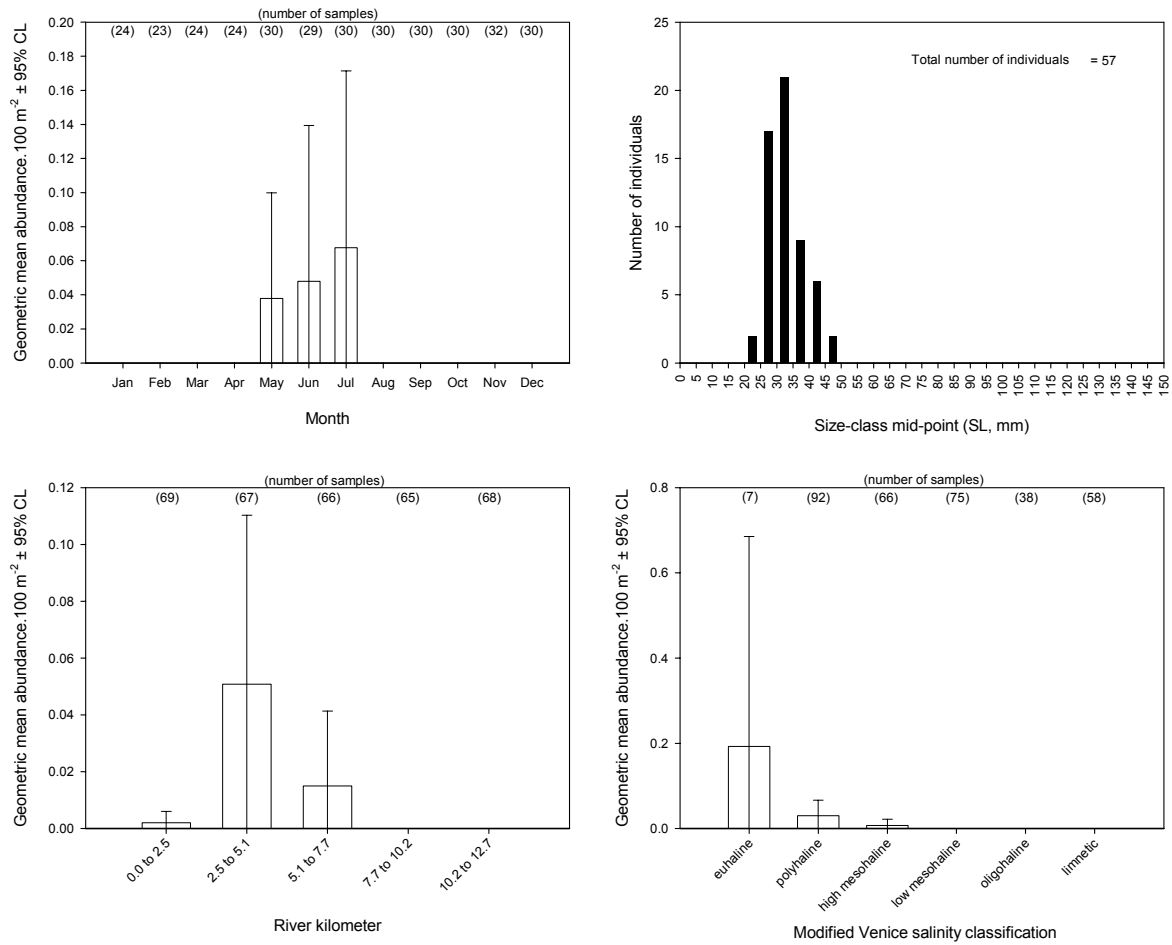


Fig. E4. Abundance of Striped anchovy in channel habitats.

Anchoa mitchilli (Bay anchovy), Trawls

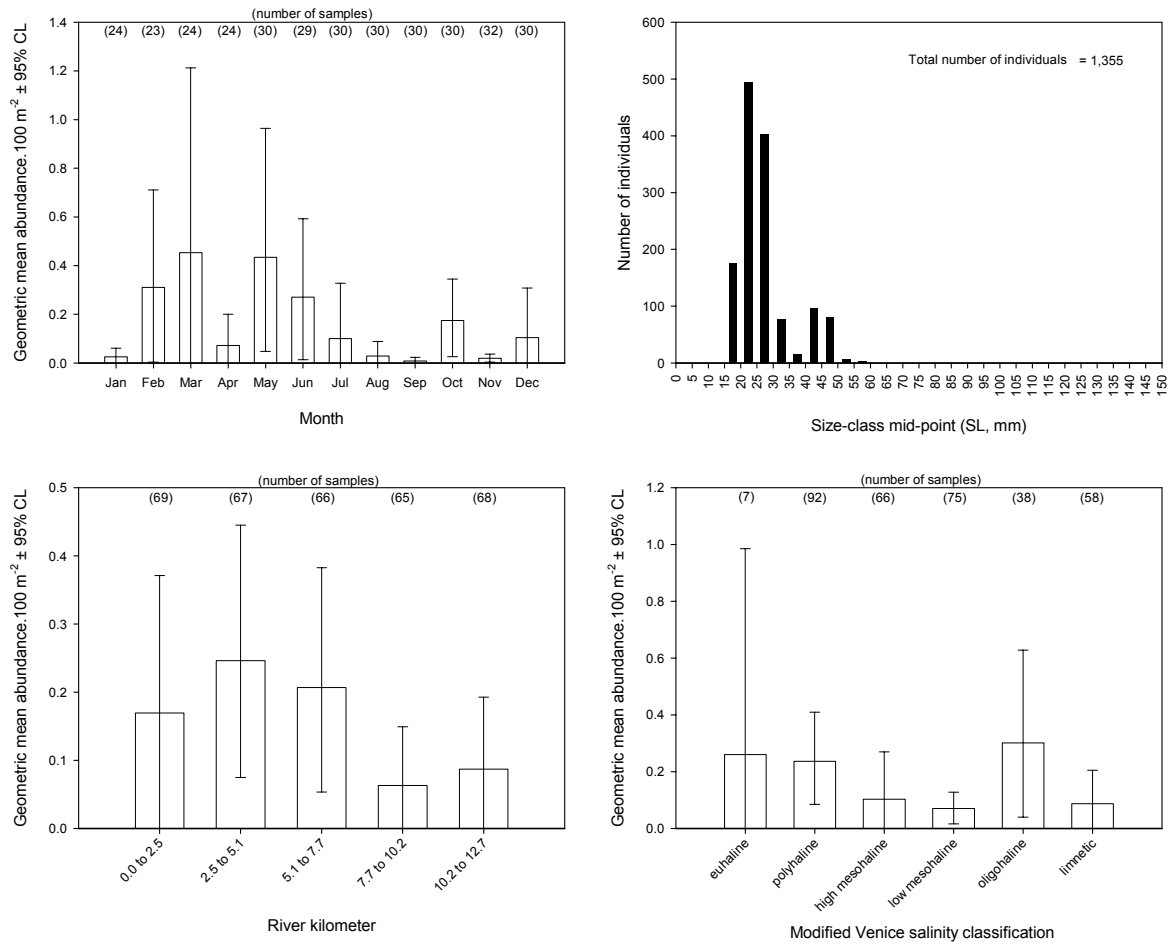


Fig. E5. Abundance of Bay anchovy in channel habitats.

Opsanus beta (Gulf toadfish), Trawls

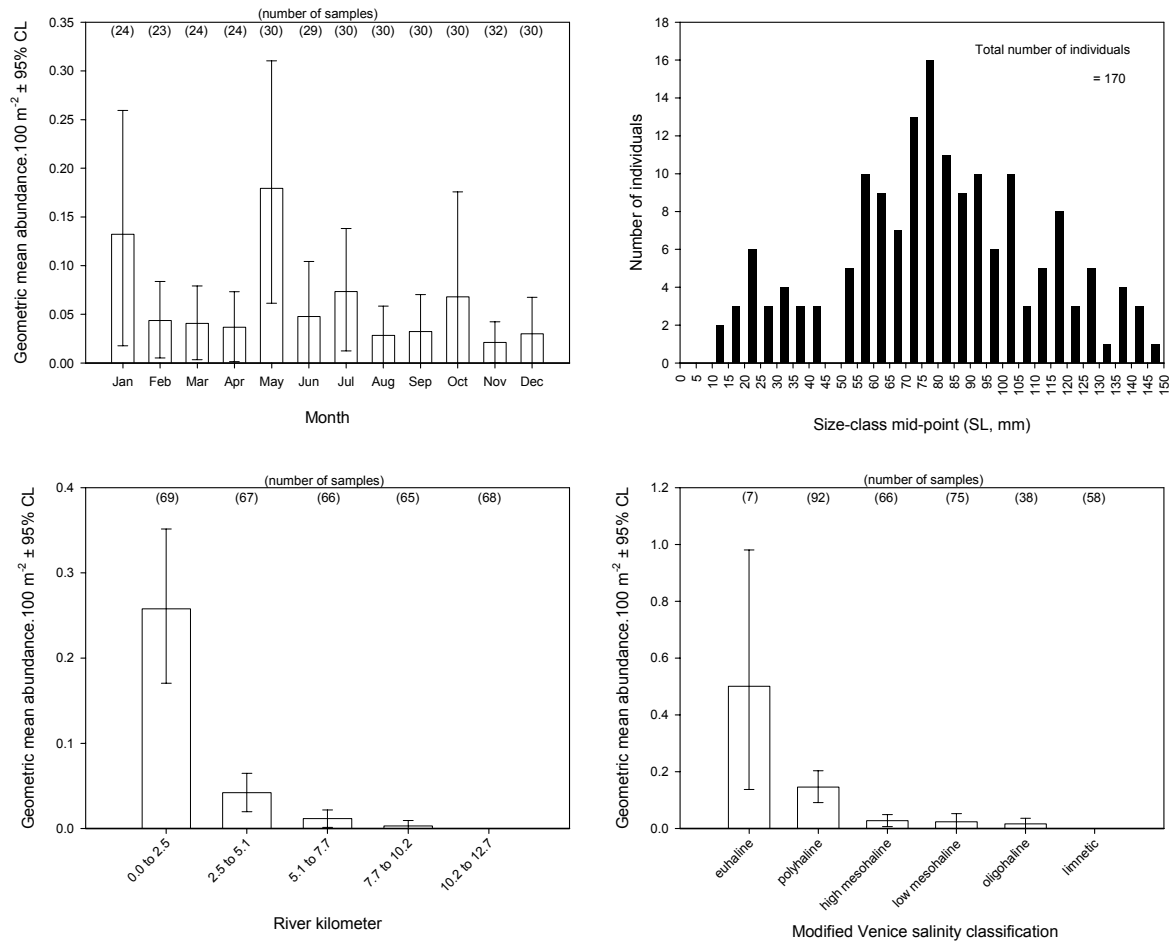


Fig. E6. Abundance of Gulf toadfish in channel habitats.

Lucania parva (Rainwater killifish), Trawls

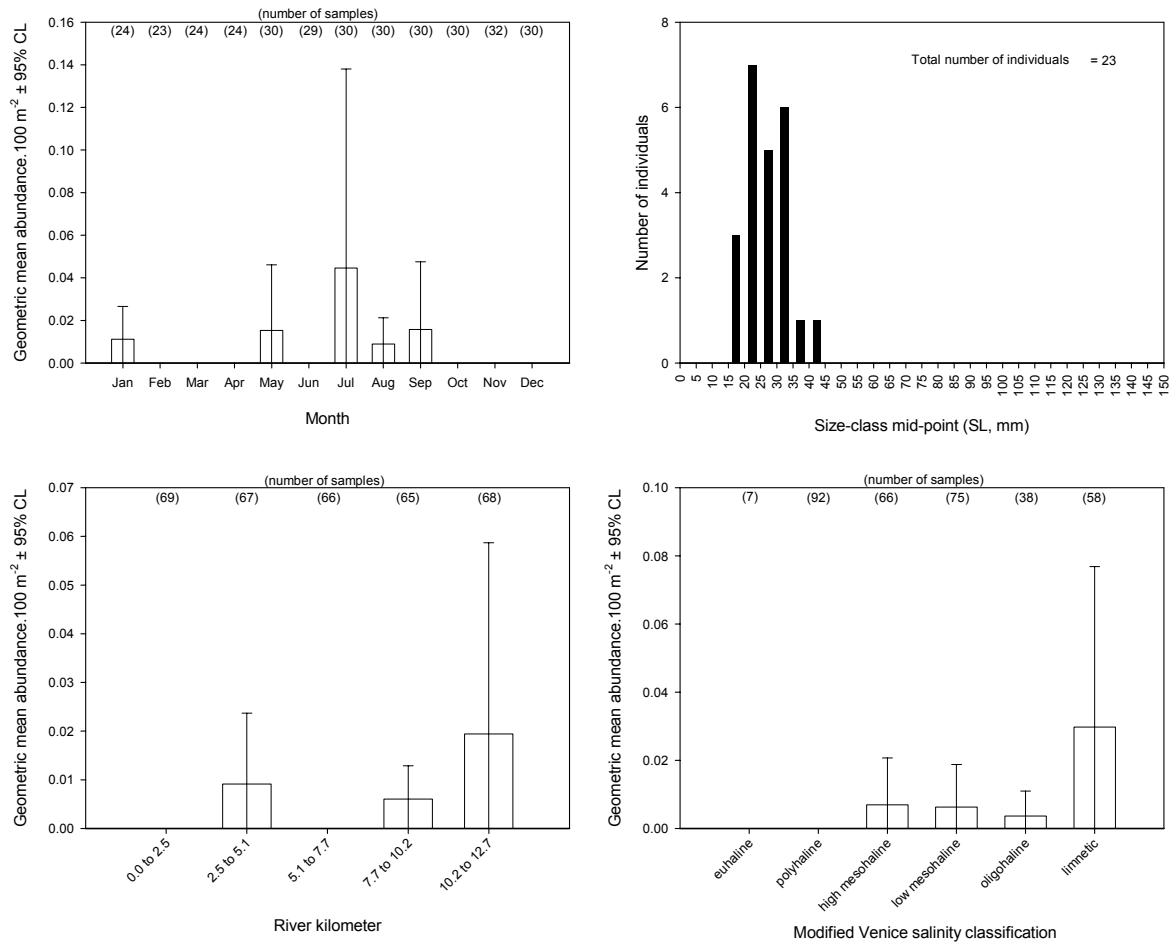


Fig. E7. Abundance of Rainwater killifish in channel habitats.

Syngnathus scovelli (Gulf pipefish), Trawls

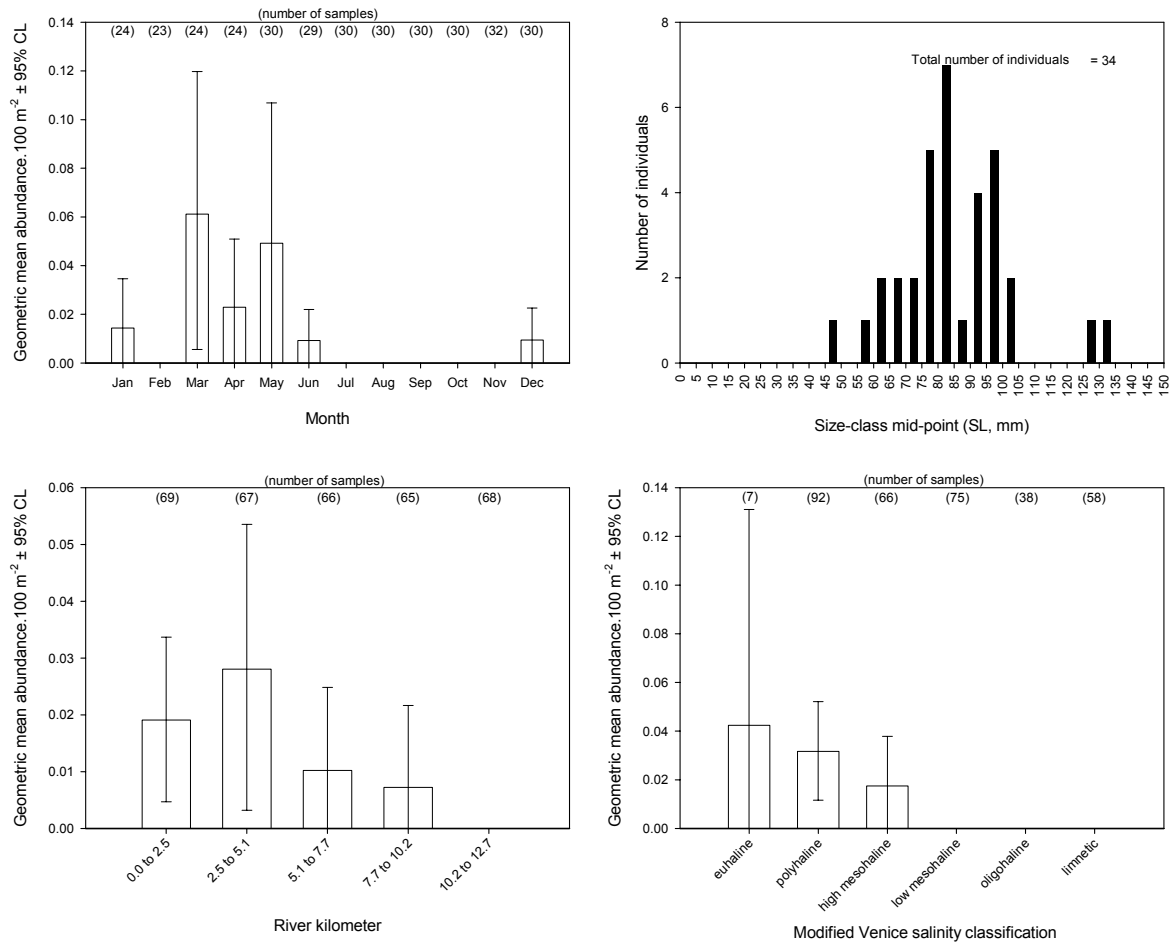


Fig. E8. Abundance of Gulf pipefish in channel habitats.

Lepomis macrochirus (Bluegill), Trawls

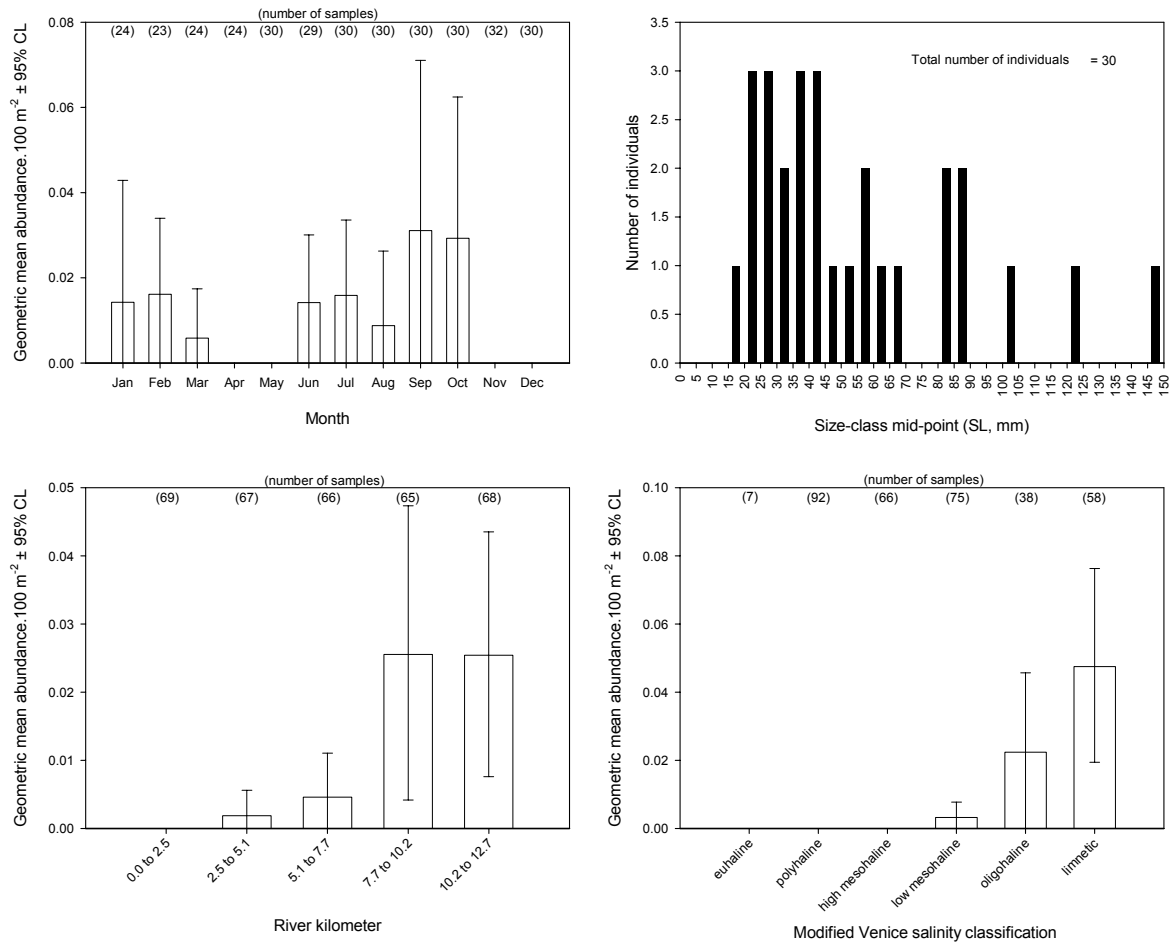


Fig. E9. Abundance of Bluegill in channel habitats.

Eucinostomus spp. (*Eucinostomus* mojarras), Trawls

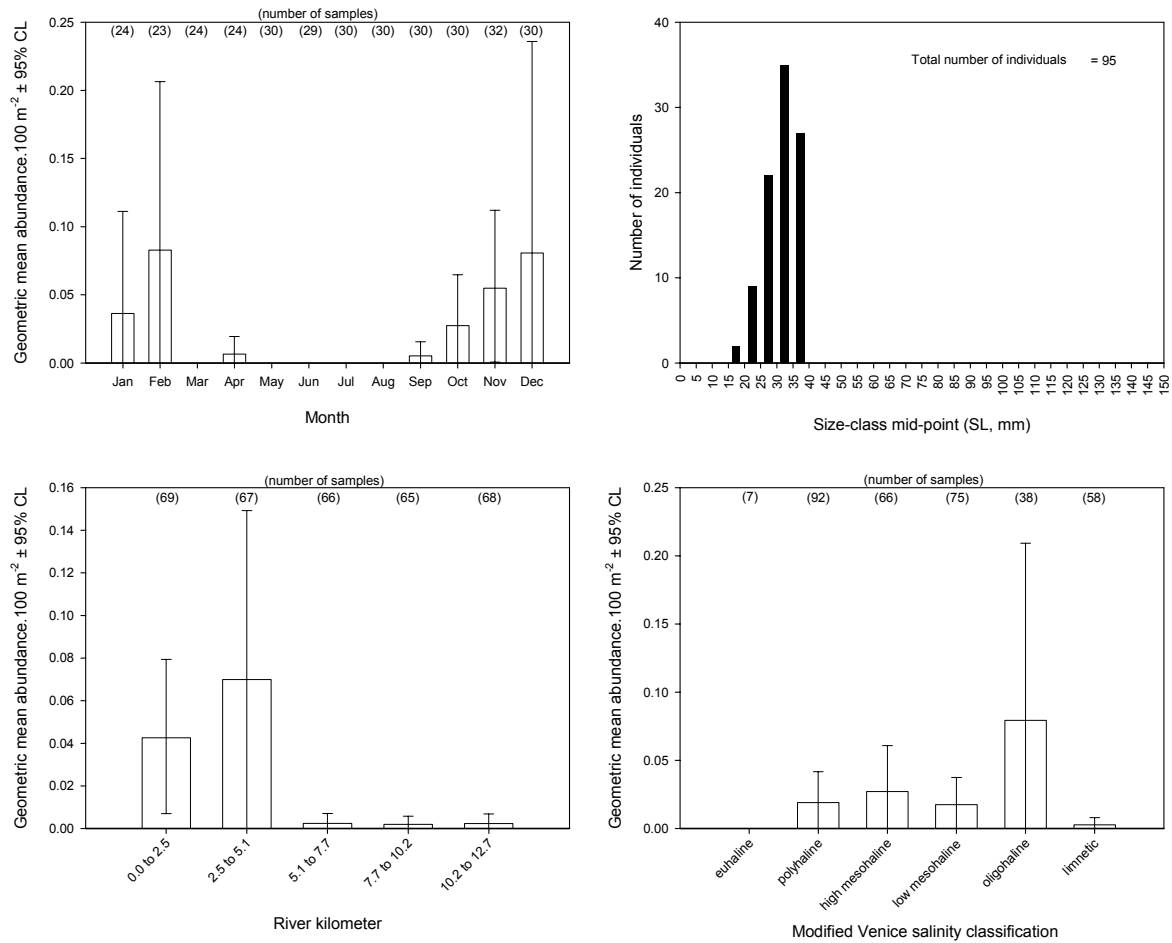


Fig. E10. Abundance of *Eucinostomus* *mojarras* in channel habitats.

Eucinostomus gula (Silver jenny), Trawls

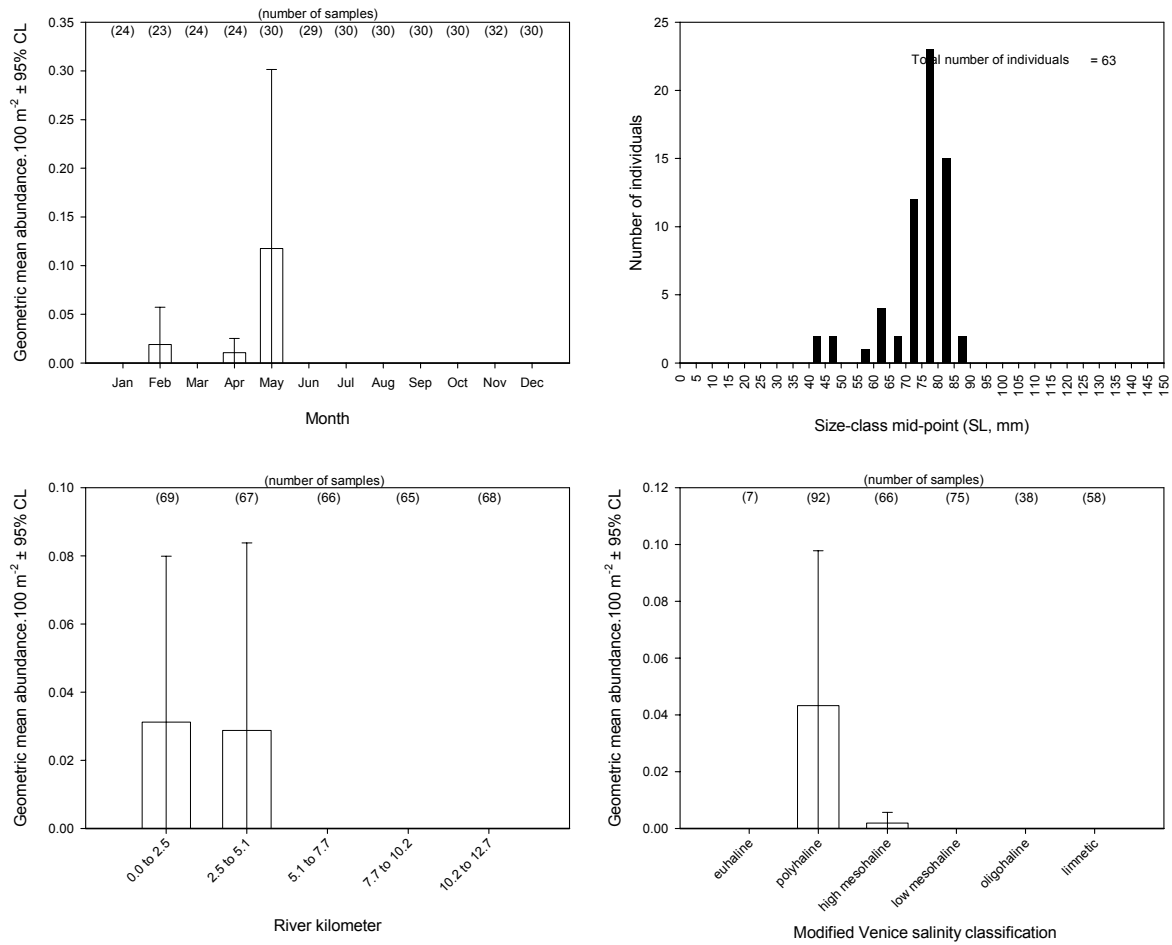


Fig. E11. Abundance of Silver jenny in channel habitats.

Eucinostomus harengulus (Tidewater mojarra), Trawls

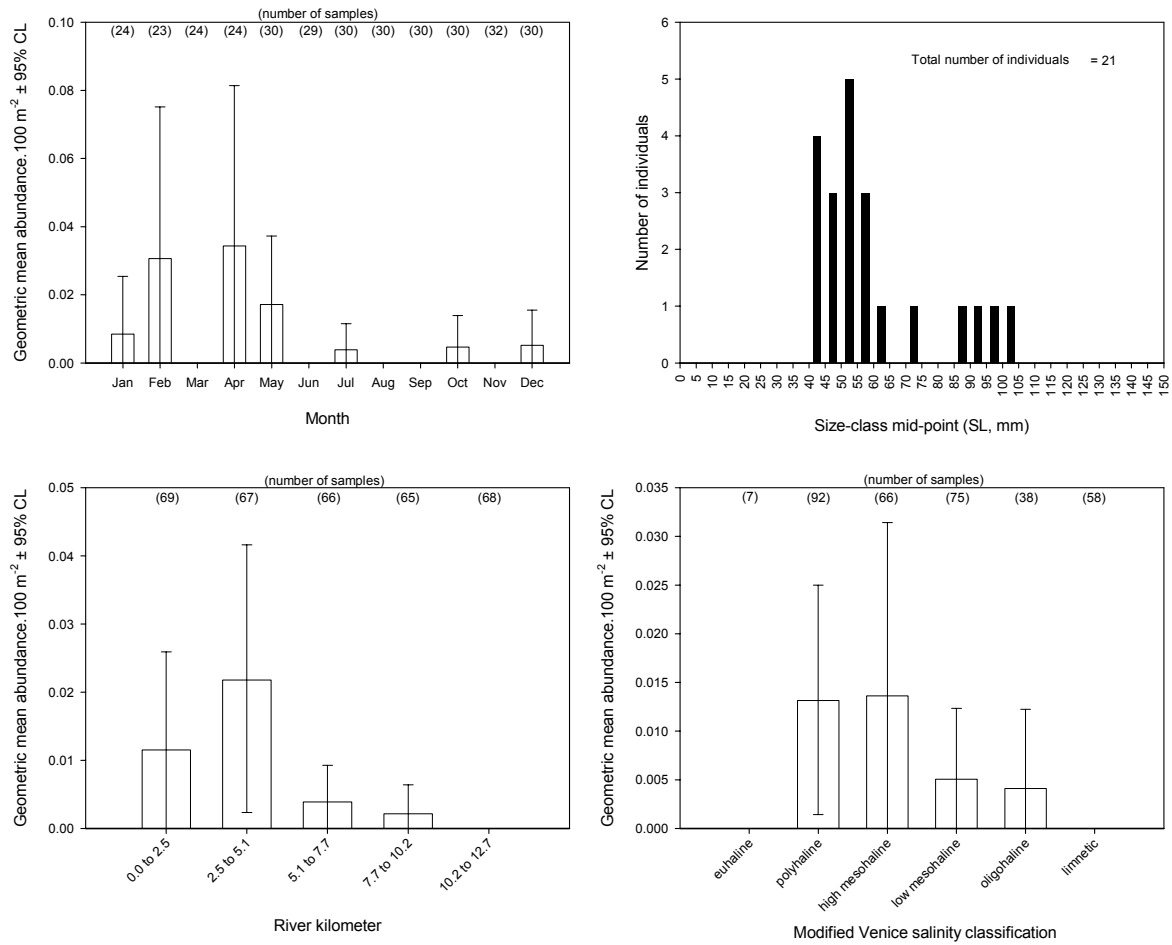


Fig. E12. Abundance of Tidewater mojarra in channel habitats.

Diapterus plumieri (Striped mojarra), Trawls

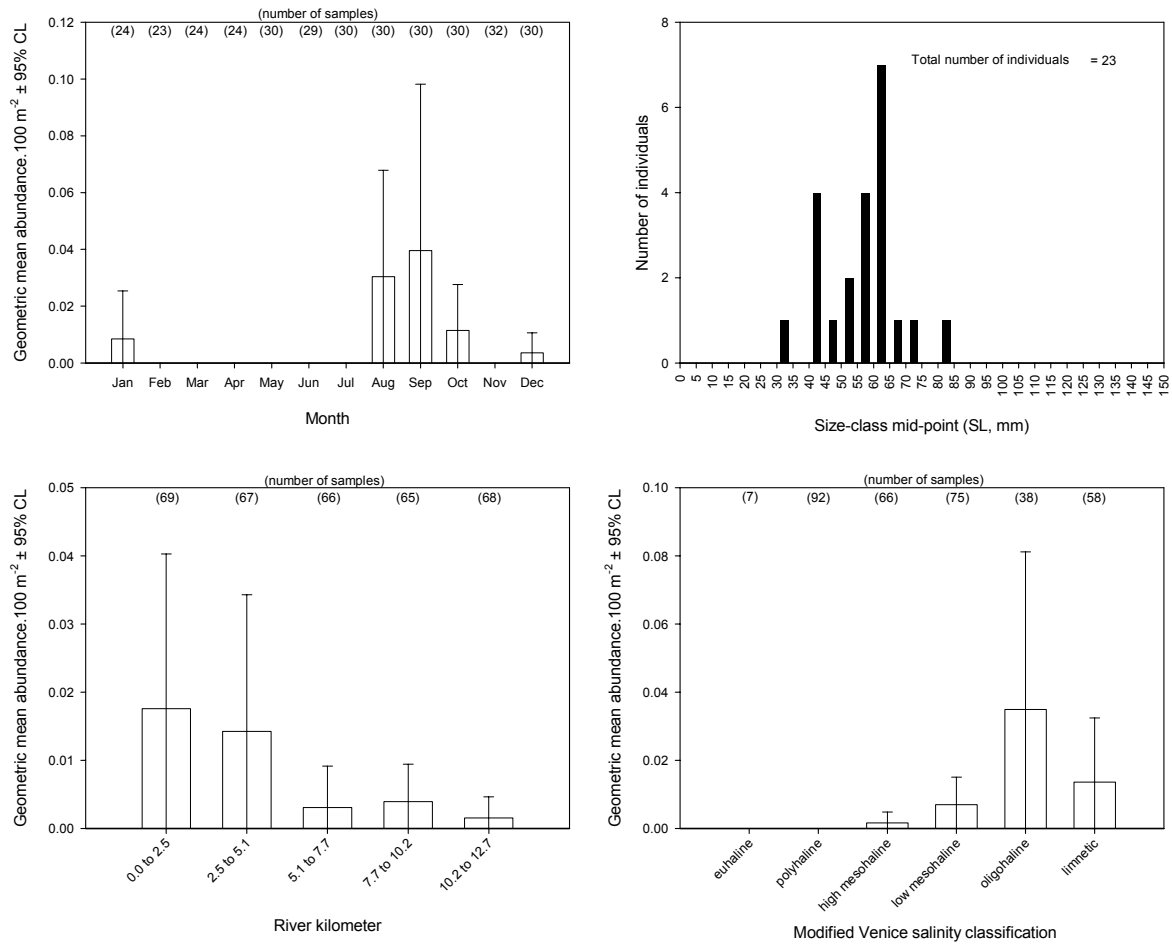


Fig. E13. Abundance of Striped mojarra in channel habitats.

Lagodon rhomboides (Pinfish), Trawls

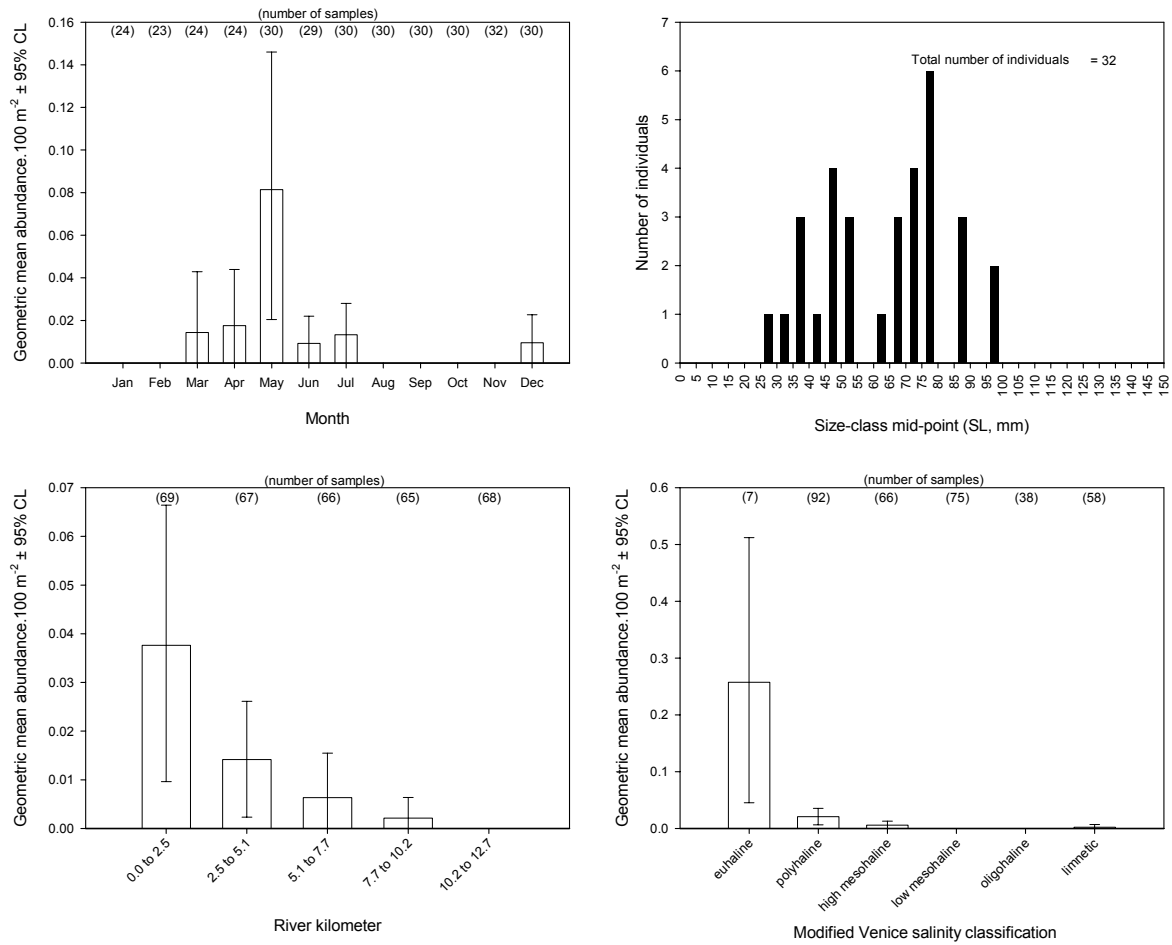


Fig. E14. Abundance of Pinfish in channel habitats.

***Archosargus probatocephalus* (Sheepshead), Trawls**

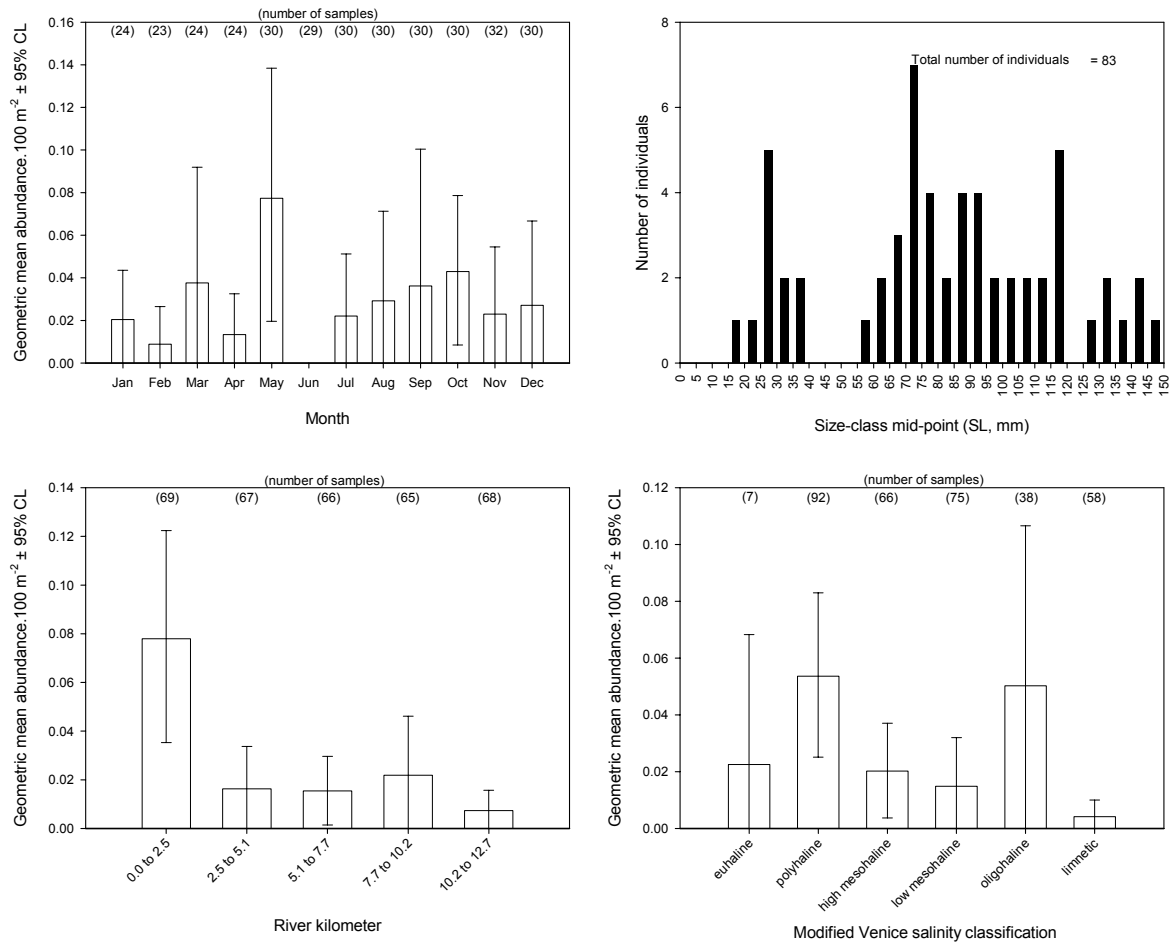


Fig. E15. Abundance of Sheepshead in channel habitats.

Cynoscion arenarius (Sand seatrout), Trawls

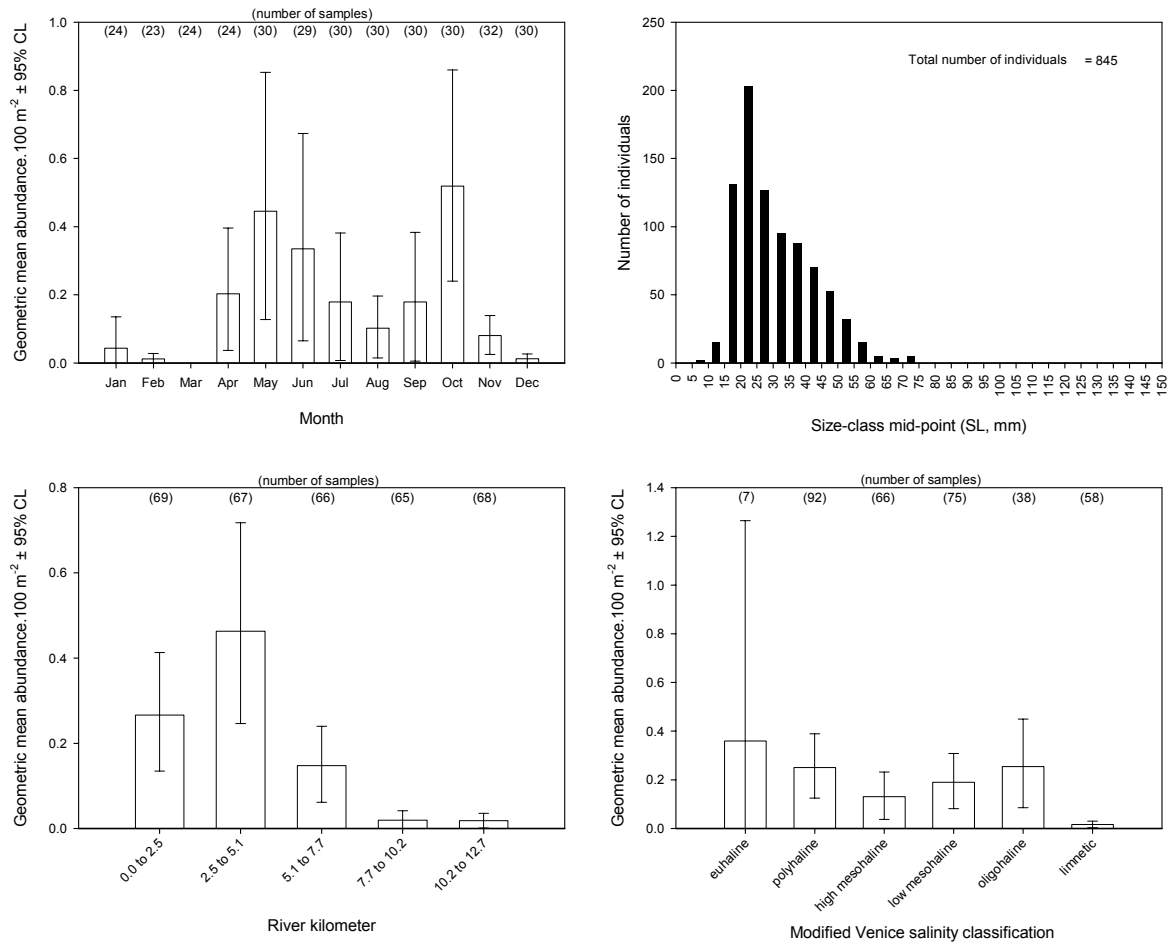


Fig. E16. Abundance of Sand seatrout in channel habitats.

Bairdiella chrysoura (Silver perch), Trawls

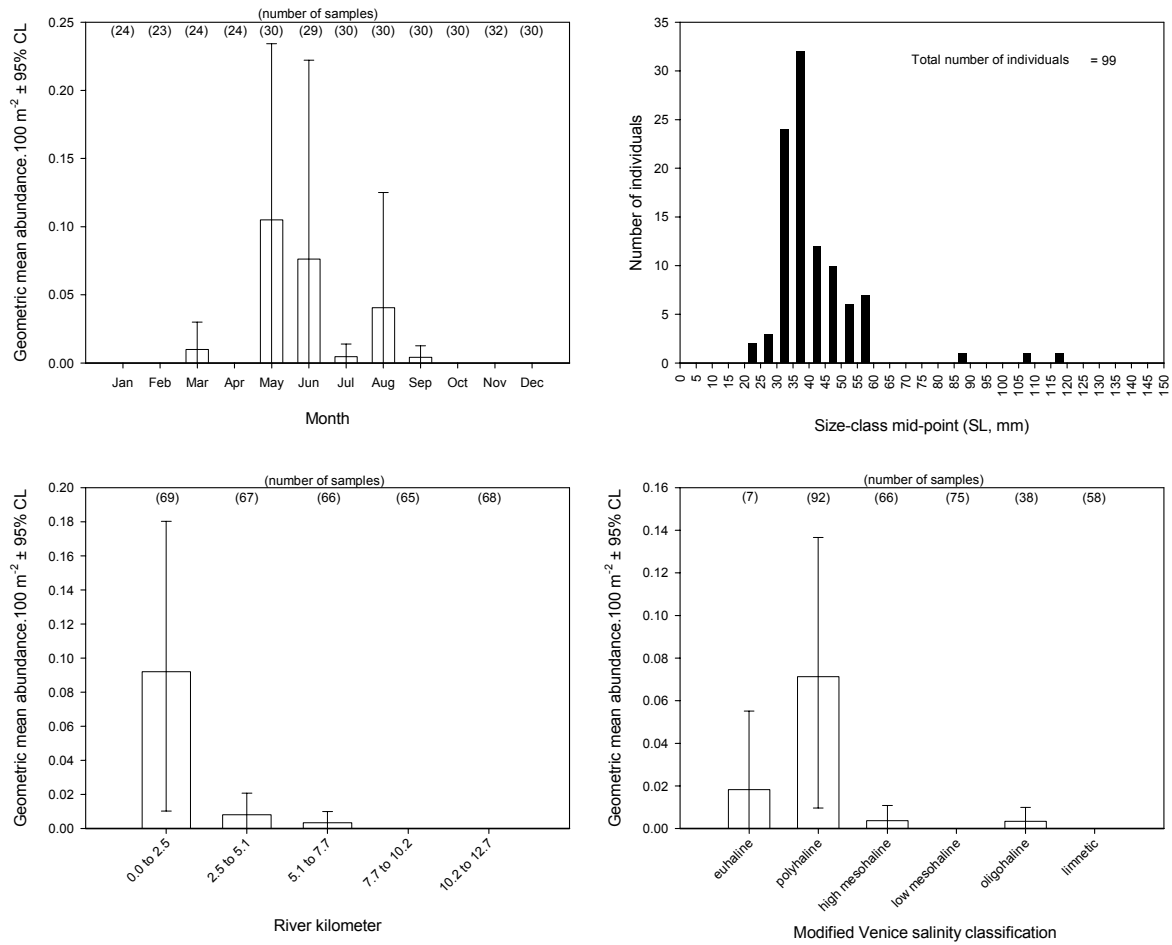


Fig. E17. Abundance of Silver perch in channel habitats.

Leiostomus xanthurus (Spot), Trawls

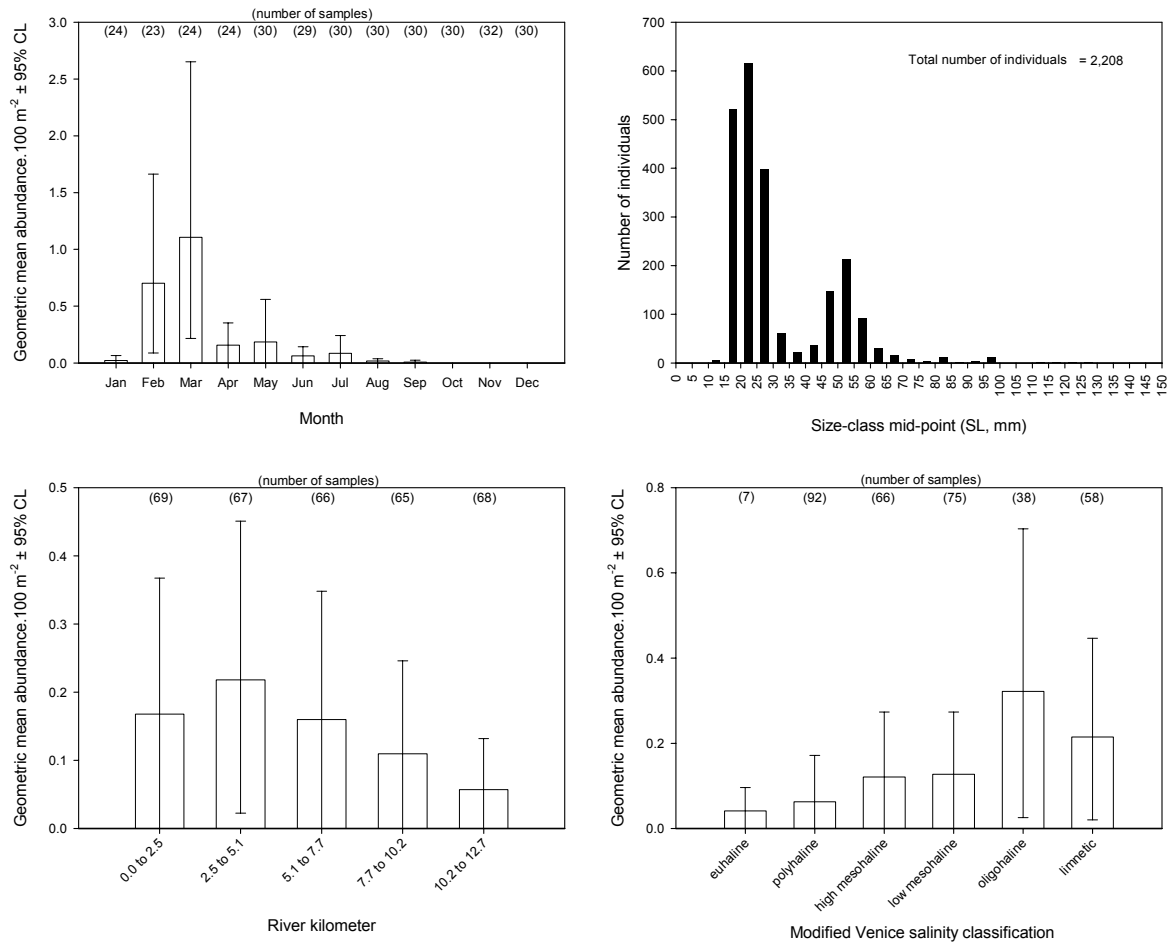


Fig. E18. Abundance of Spot in channel habitats.

Menticirrhus americanus (Southern kingfish), Trawls

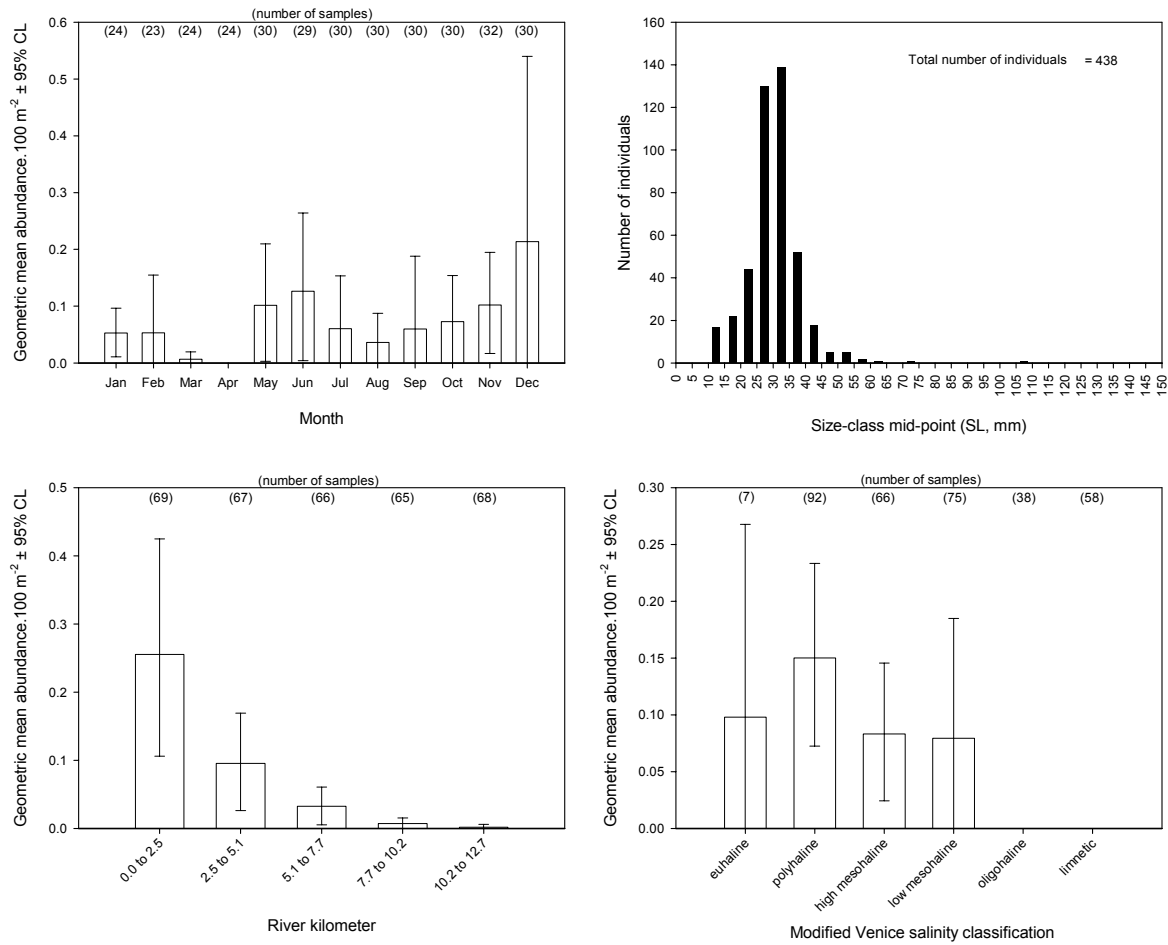


Fig. E19. Abundance of Southern kingfish in channel habitats.

Sciaenops ocellatus (Red drum), Trawls

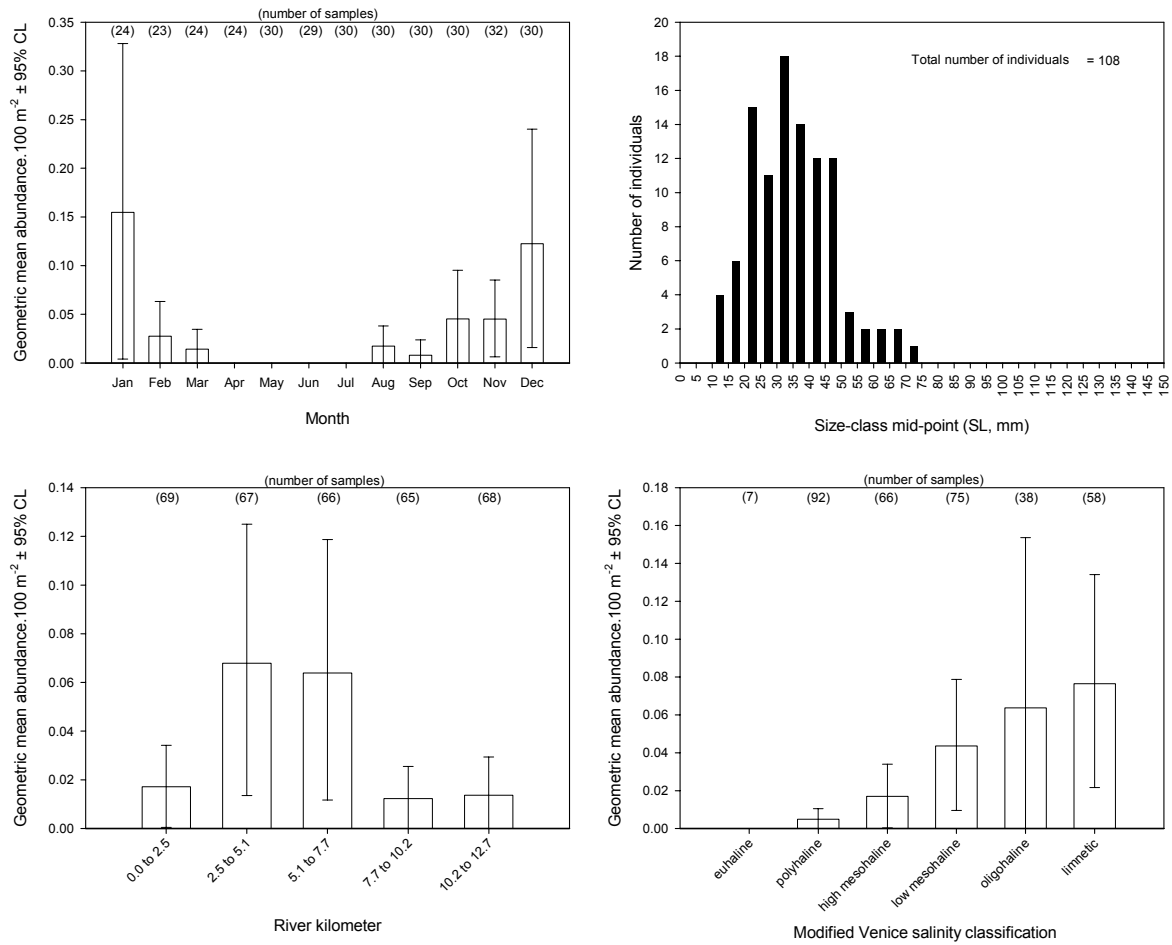


Fig. E20. Abundance of Red drum in channel habitats.

***Gobiosoma* spp. (*Gobiosoma* gobies), Trawls**

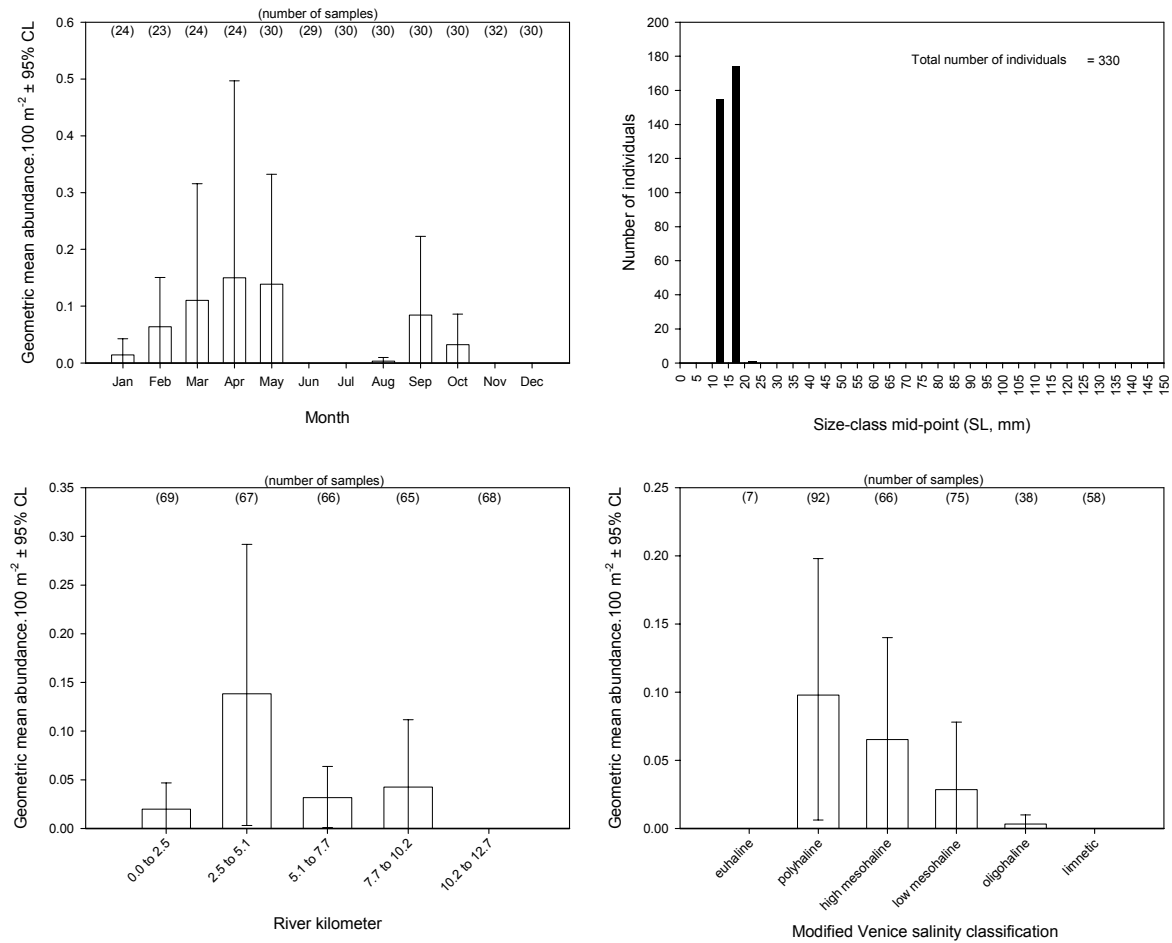


Fig. E21. Abundance of *Gobiosoma* gobies in channel habitats.

Gobiosoma bosc (Naked goby), Trawls

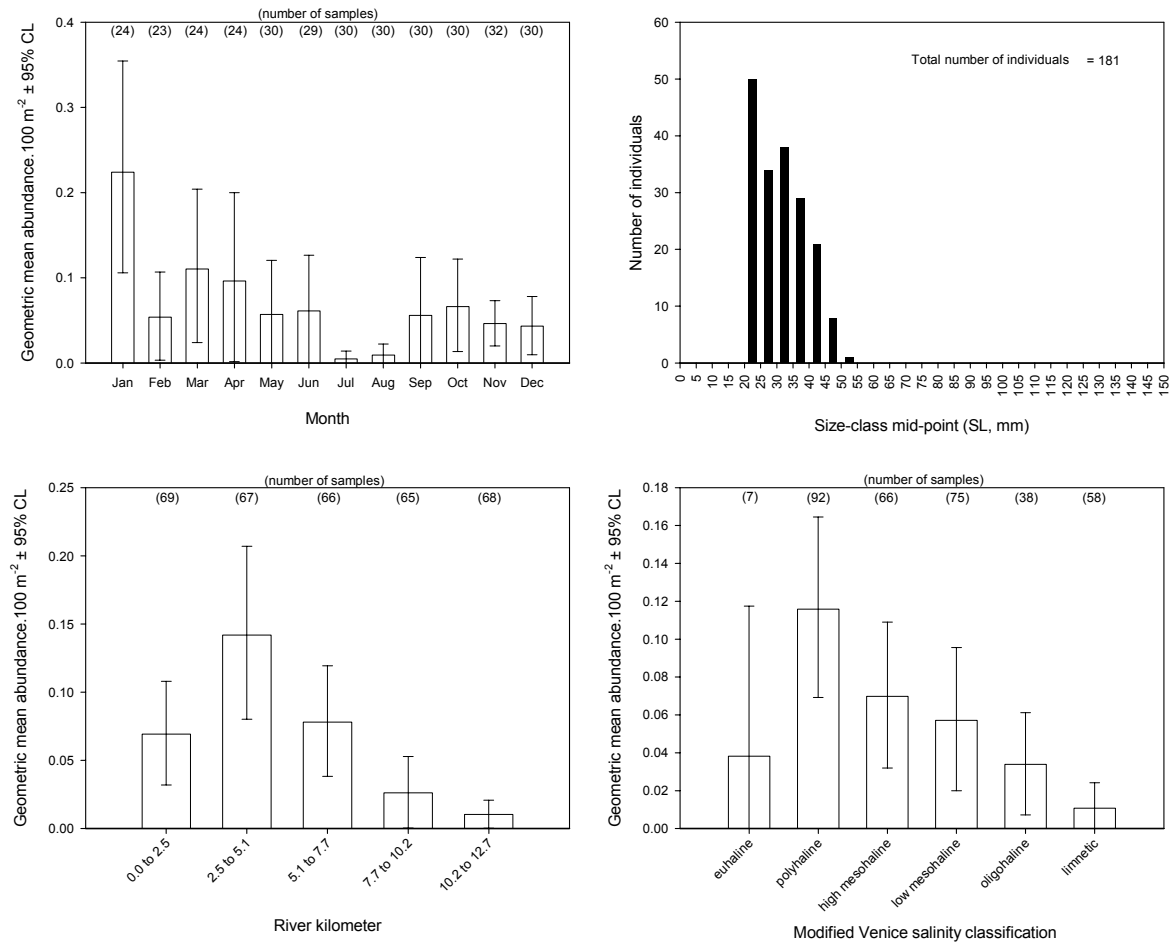


Fig. E22. Abundance of Naked goby in channel habitats.

Microgobius gulosus (Clown goby), Trawls

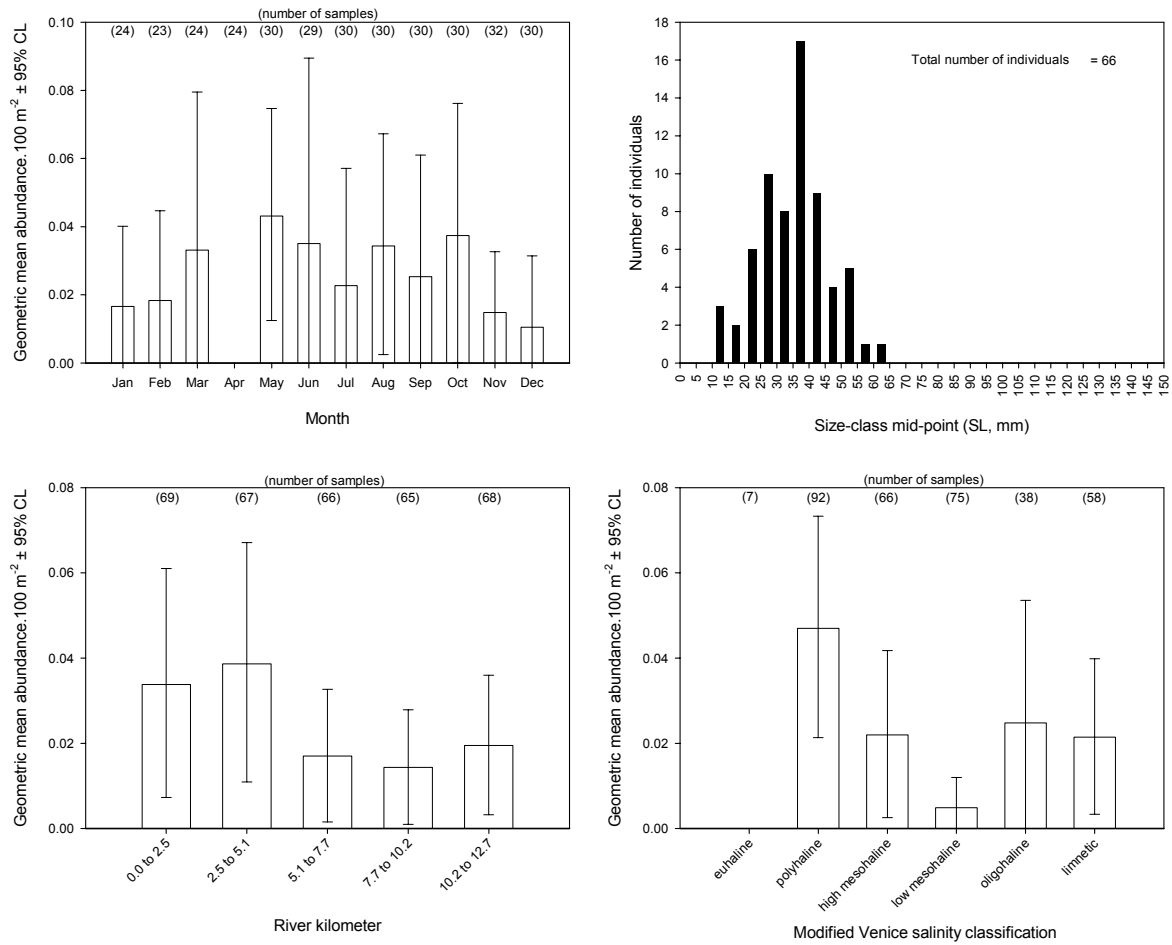


Fig. E23. Abundance of Clown goby in channel habitats.

Trinectes maculatus (Hogchoker), Trawls

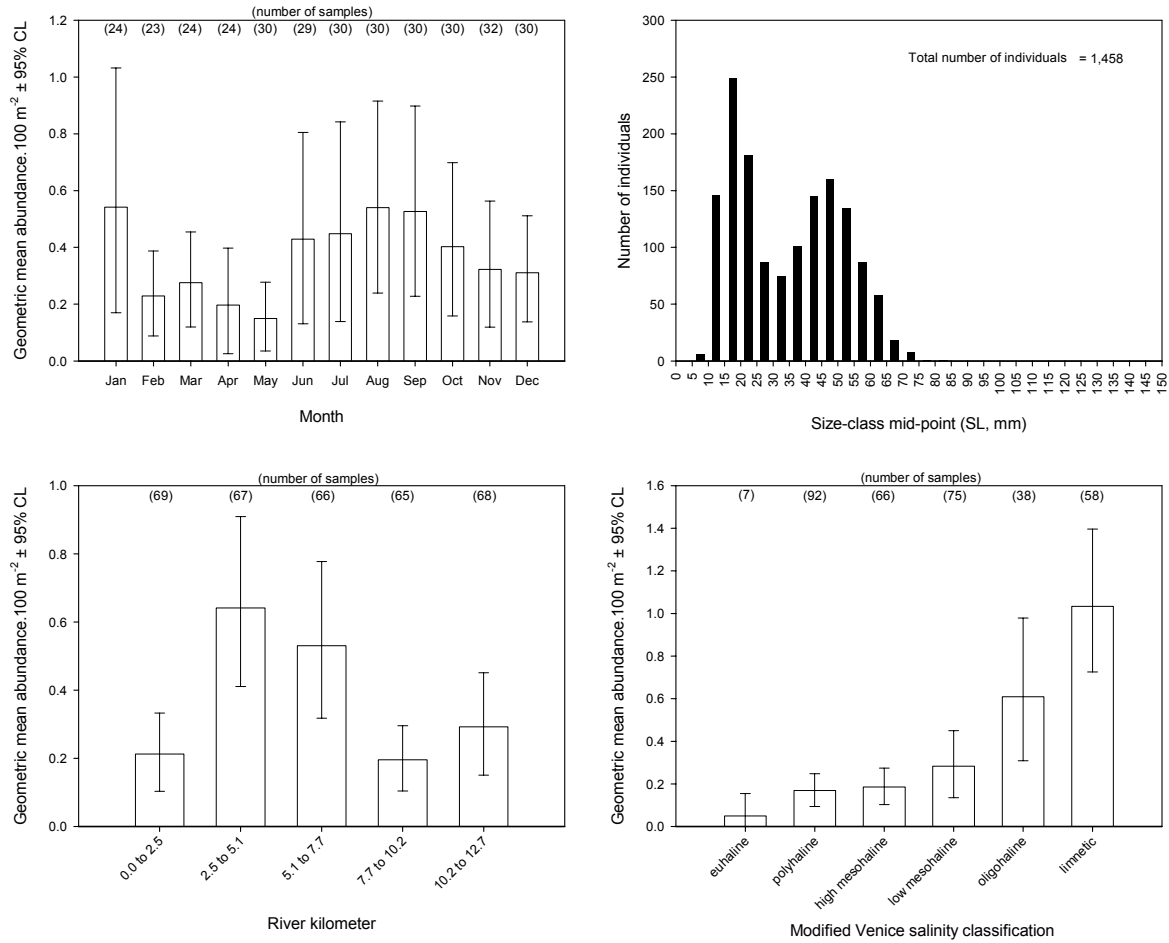
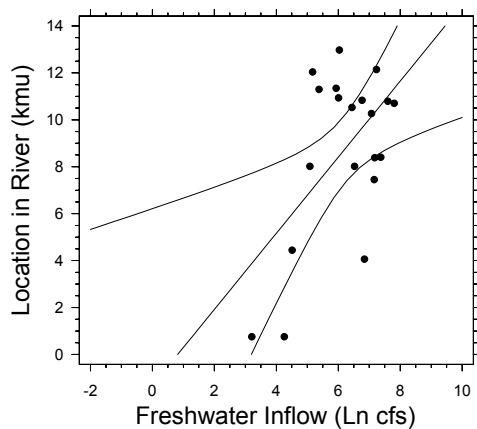


Fig. E24. Abundance of Hogchoker in channel habitats.

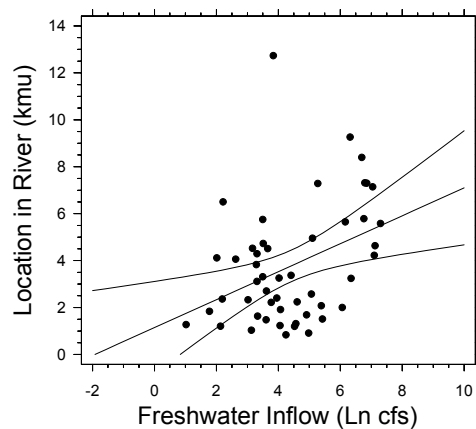
Appendix F:

Plots of the plankton-net distribution responses in Table 3.7.1.1

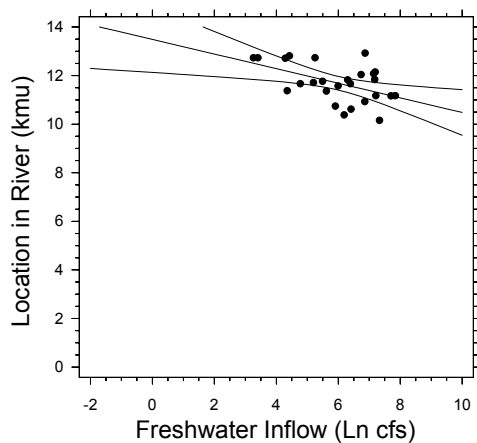
Acari



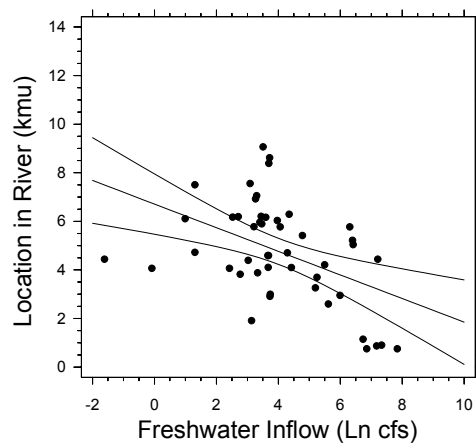
Cumaceans



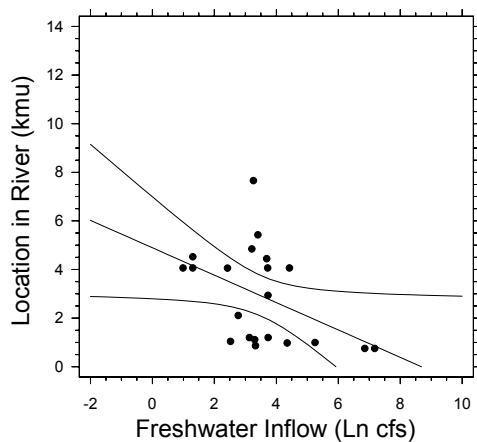
Simocephalus vetulus



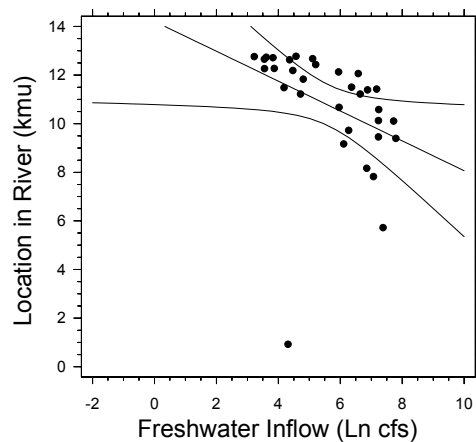
Americamysis juveniles



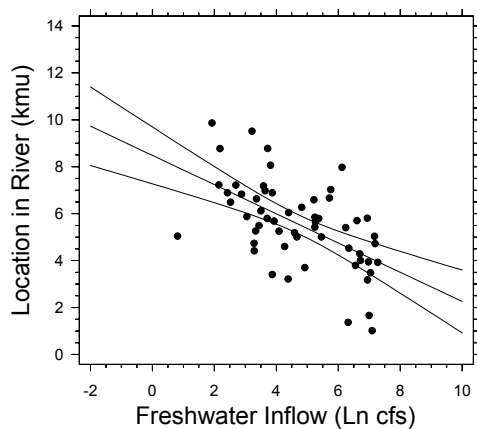
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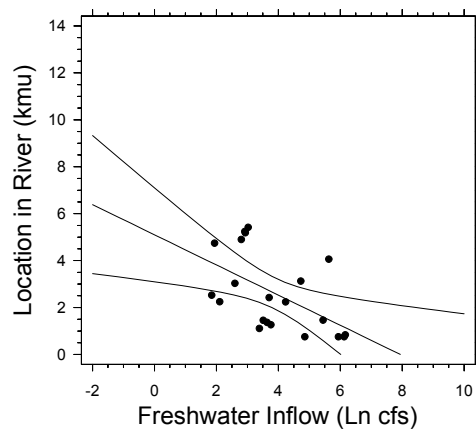
Mesocyclops edax



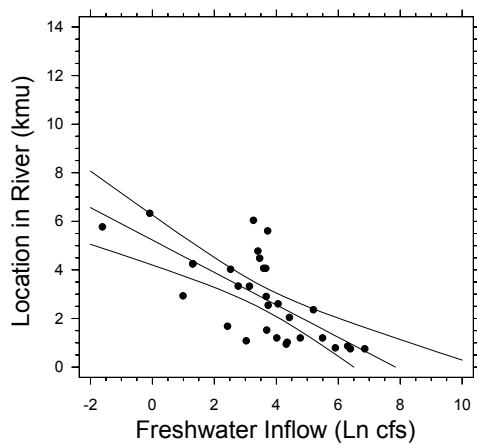
Anchoa mitchilli juveniles



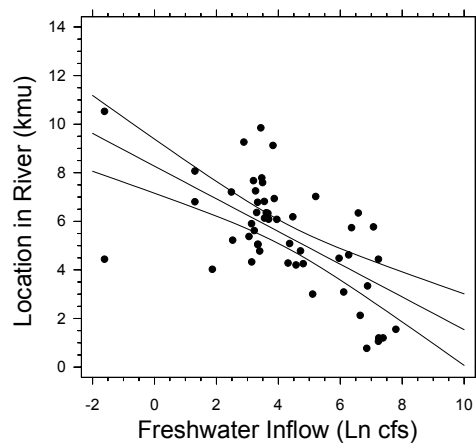
Anchoa spp. flexion larvae



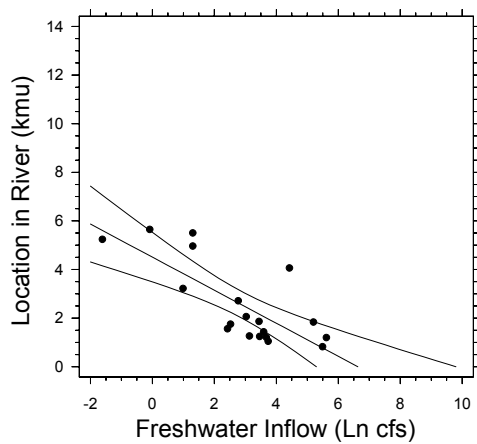
Pinnixa sayana juveniles



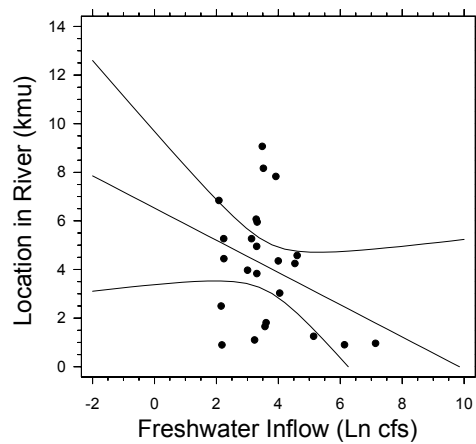
Americamysis almyra



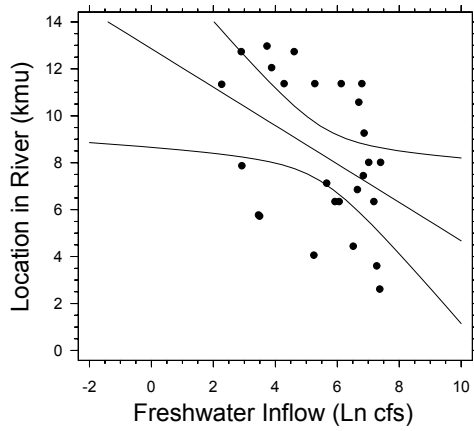
Anchoa spp. preflexion larvae



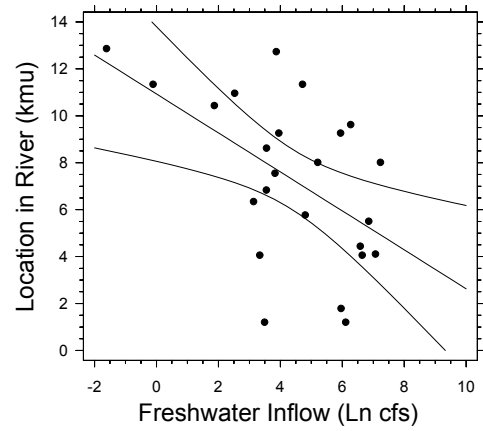
Gobiesox strumosus juveniles



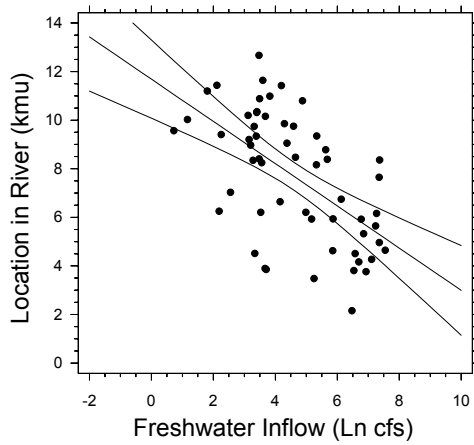
Hirudinoideans



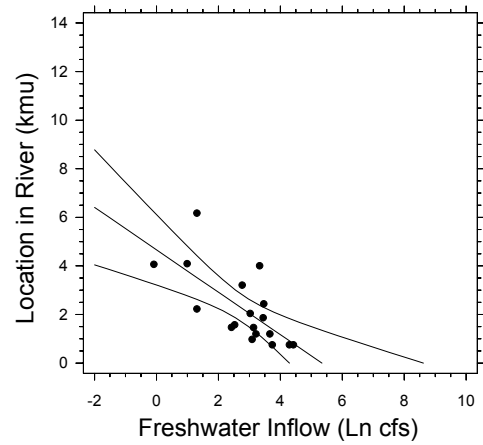
Anopsilana jonesi



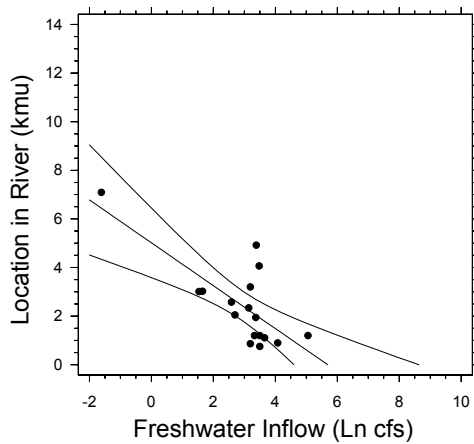
Polychaetes



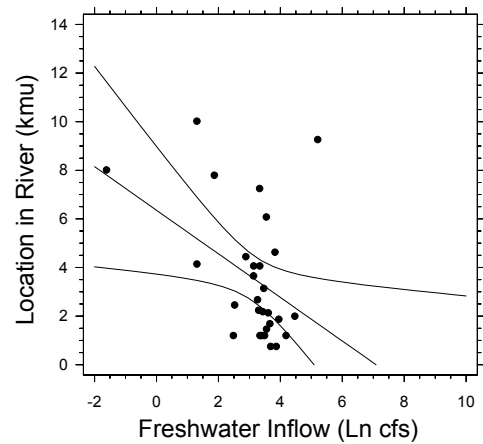
Amphipods, caprellid



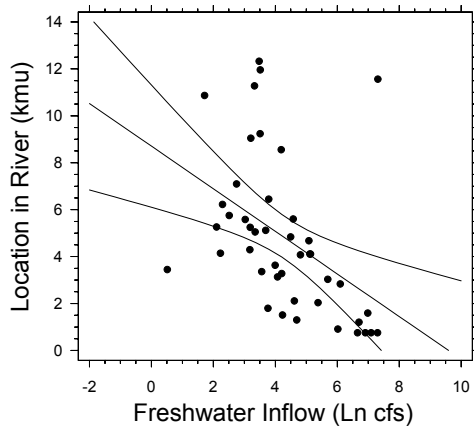
Limulus polyphemus larvae



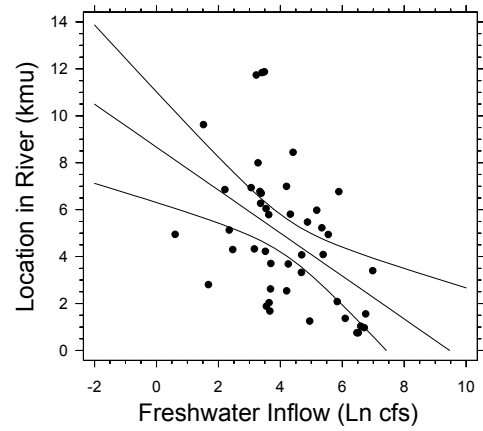
Siphonostomatids



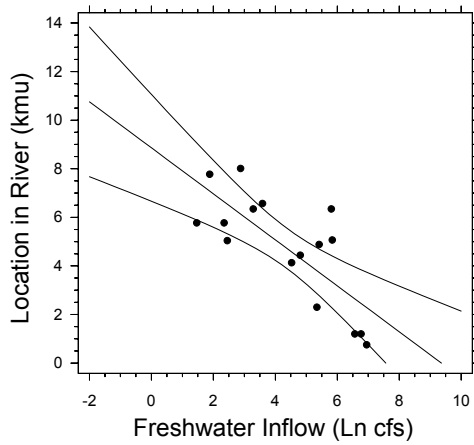
Palaemonetes spp. postlarvae



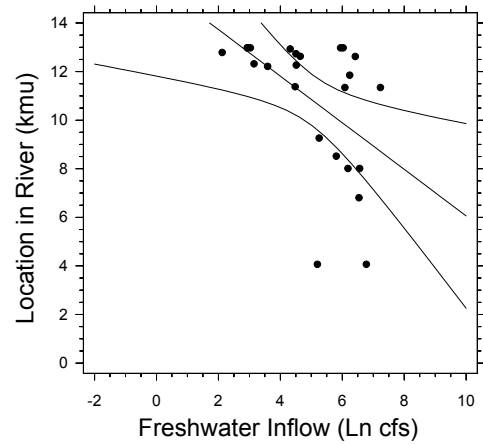
Decapod megalopae



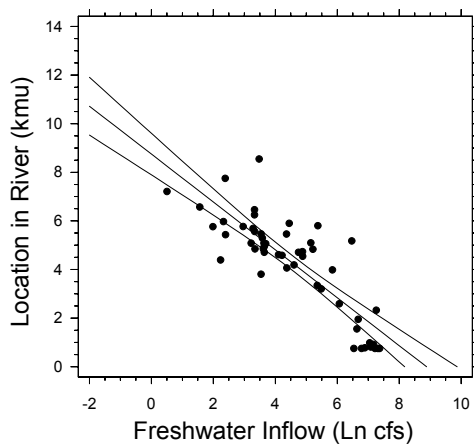
Cynoscion arenarius juveniles



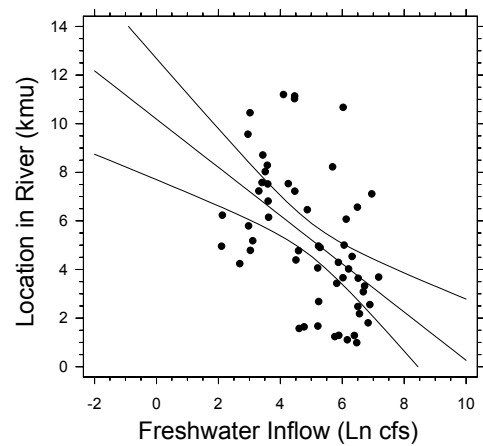
Gambusia holbrooki juveniles



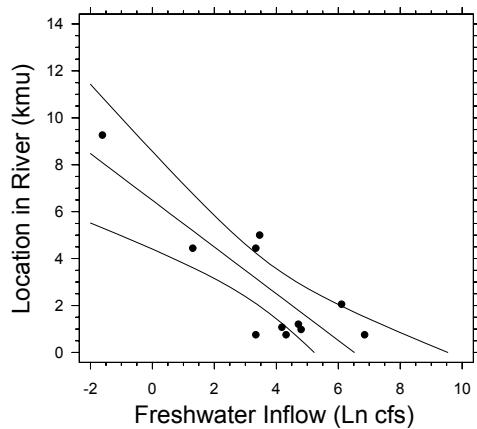
Edotea triloba



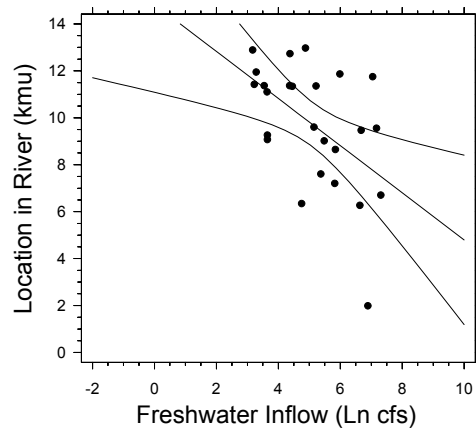
Decapod mysis



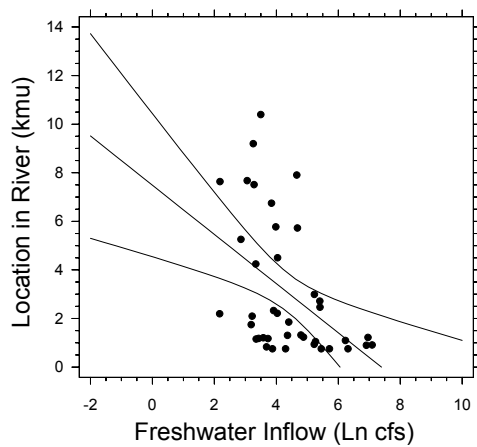
Cynoscion arenarius postflexion larvae



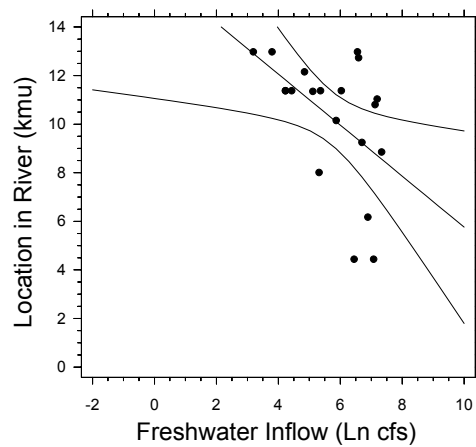
Diaptomus spp.



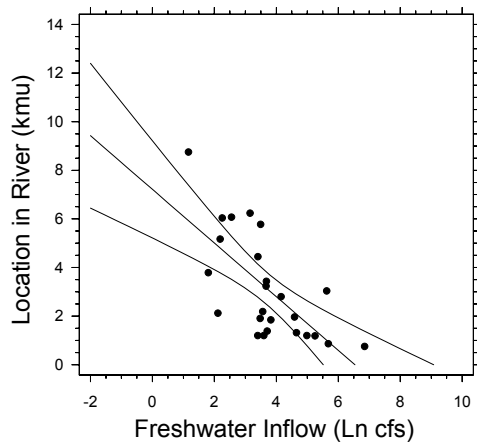
Acartia tonsa



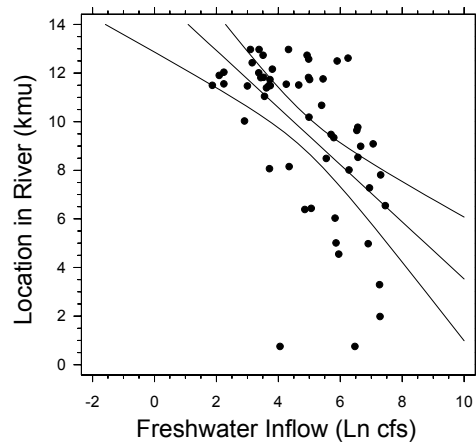
Odonates, zygopteran larvae



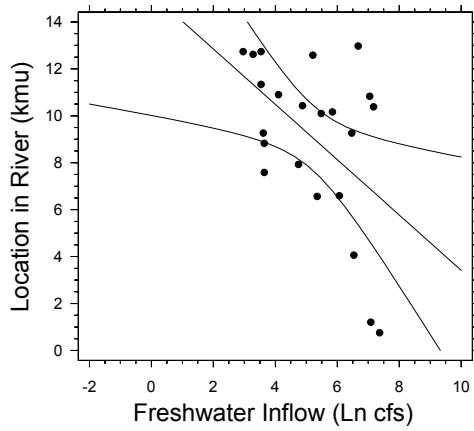
Anchoa mitchilli postflexion larvae



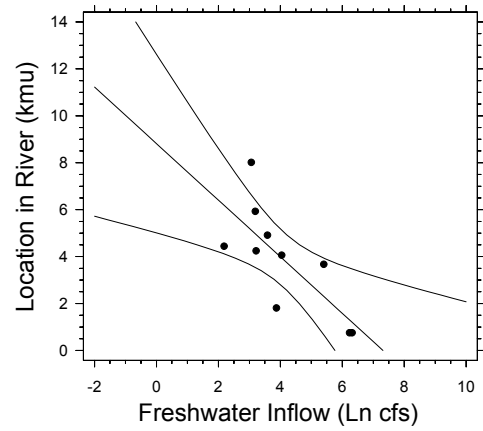
Gastropods, prosobranch



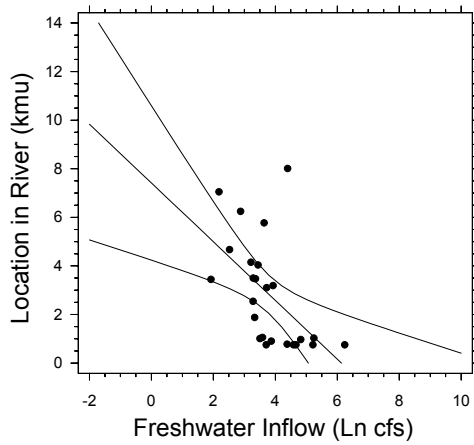
Cyclops spp.



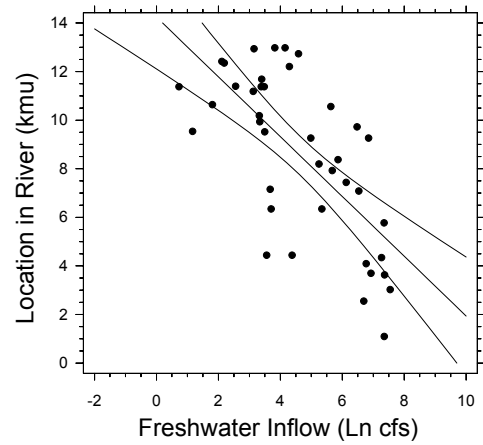
Mnemiopsis mccradyi



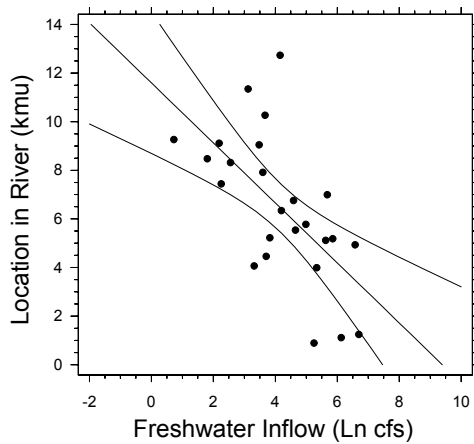
Gobiesox strumosus preflexion larvae



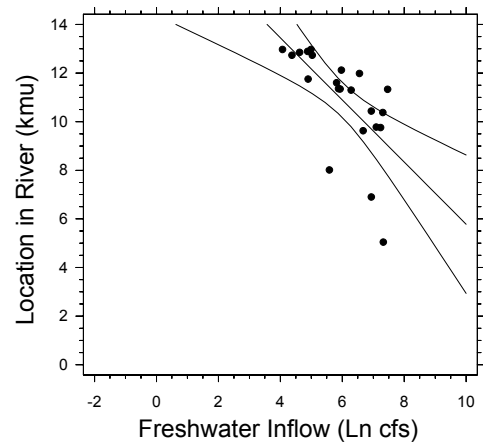
Palaemonetes pugio adults



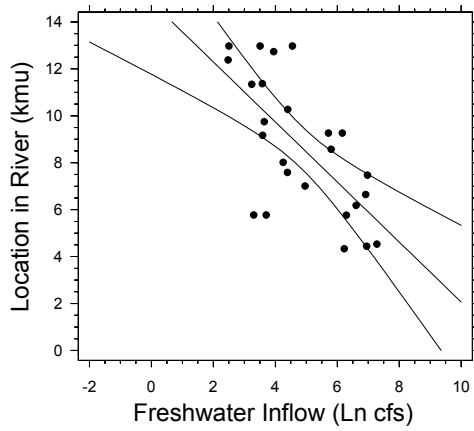
Trinectes maculatus postflexion larvae



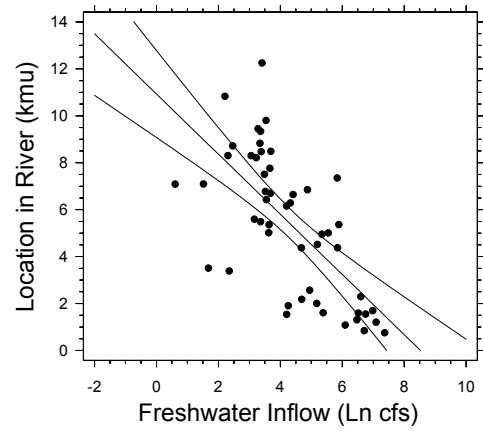
Ephemeropteran larvae



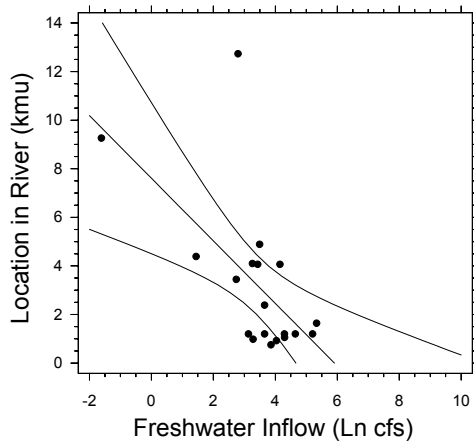
Sphaeroma terebrans



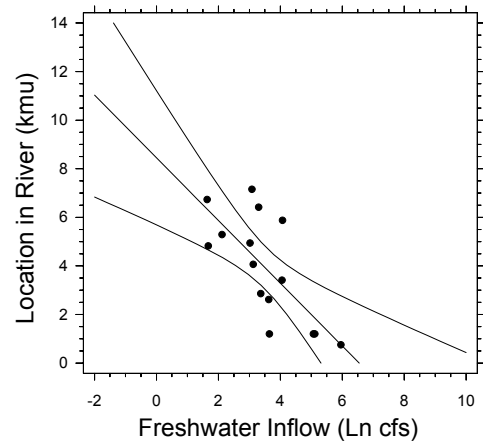
Decapod zoeae



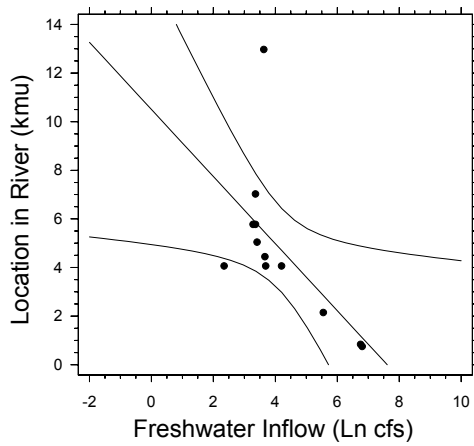
Lolliguncula brevis juveniles



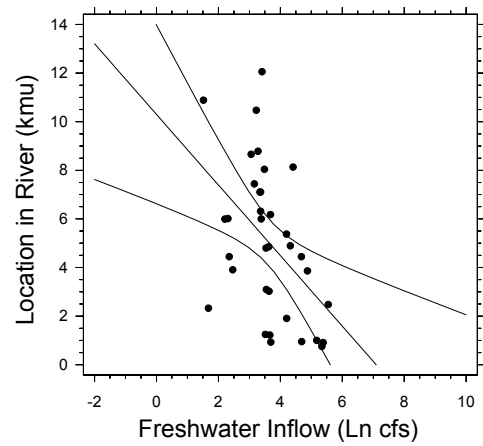
Syngnathus louisianae juveniles



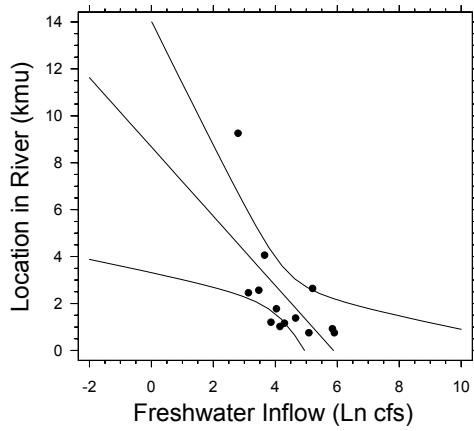
Hargeria rapax



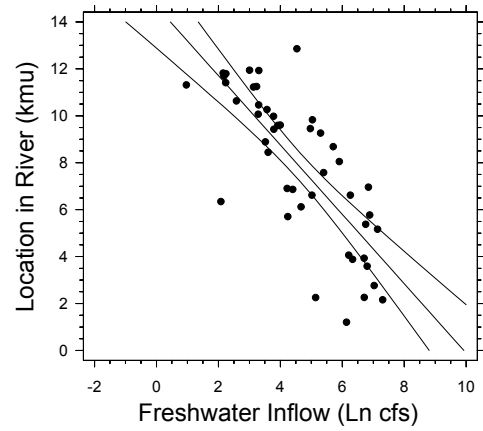
Gobiosoma postflexion larvae



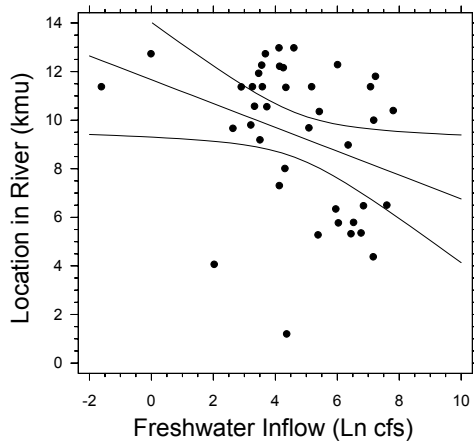
Liriope tetraphylla



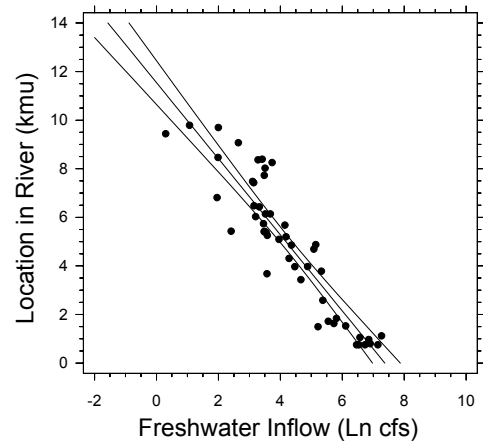
Palaemonetes pugio juveniles



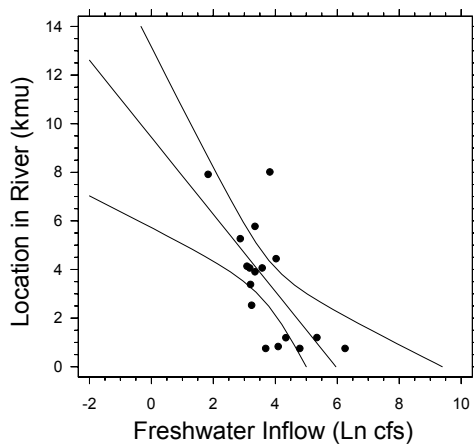
Ostracods, podocopid



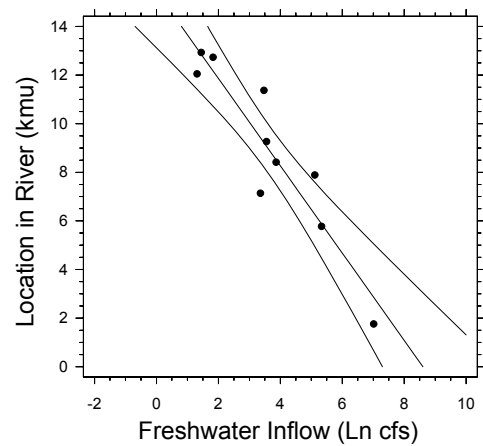
Cymothoid sp. a (*Lironeca*)



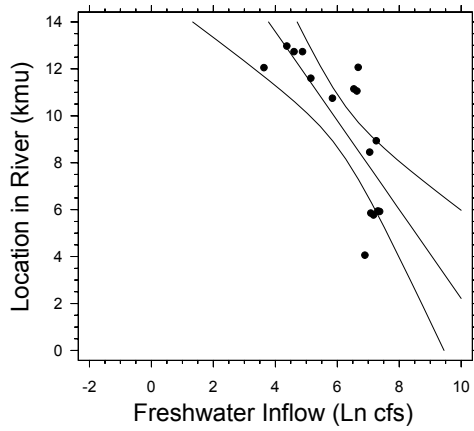
Gobiesox strumosus postflexion larvae



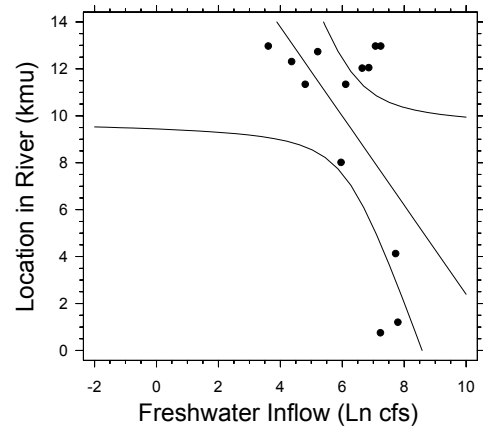
Elops saurus postflexion larvae



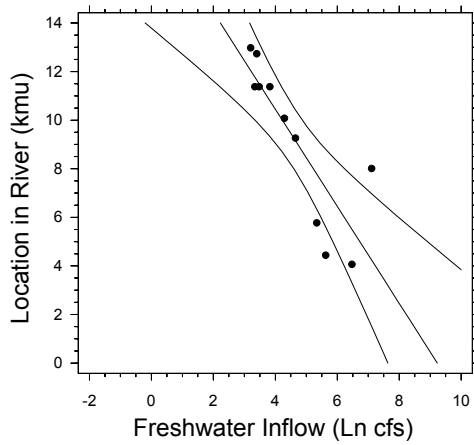
Trichopteran larvae



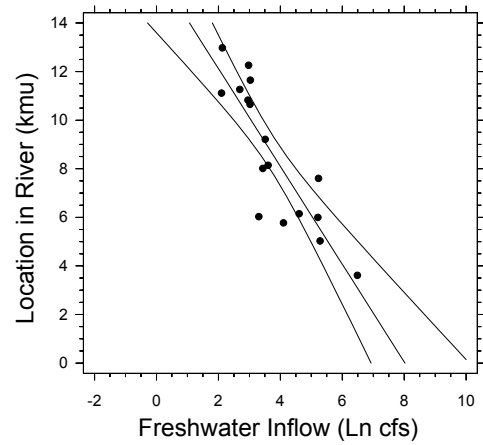
Macrocyclus albidus



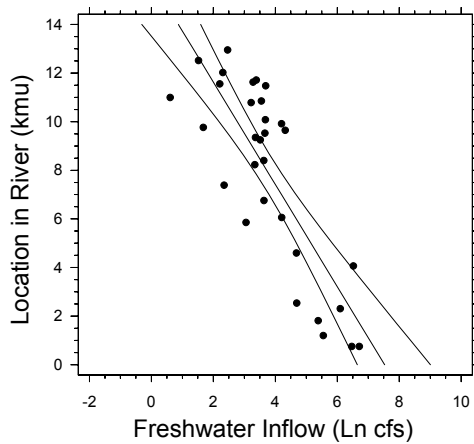
Menidia spp. flexion larvae



Brevoortia spp. metamorphs



Clytia sp.



Appendix G:

Plots of the seine and trawl distribution responses in Table 3.7.2.1

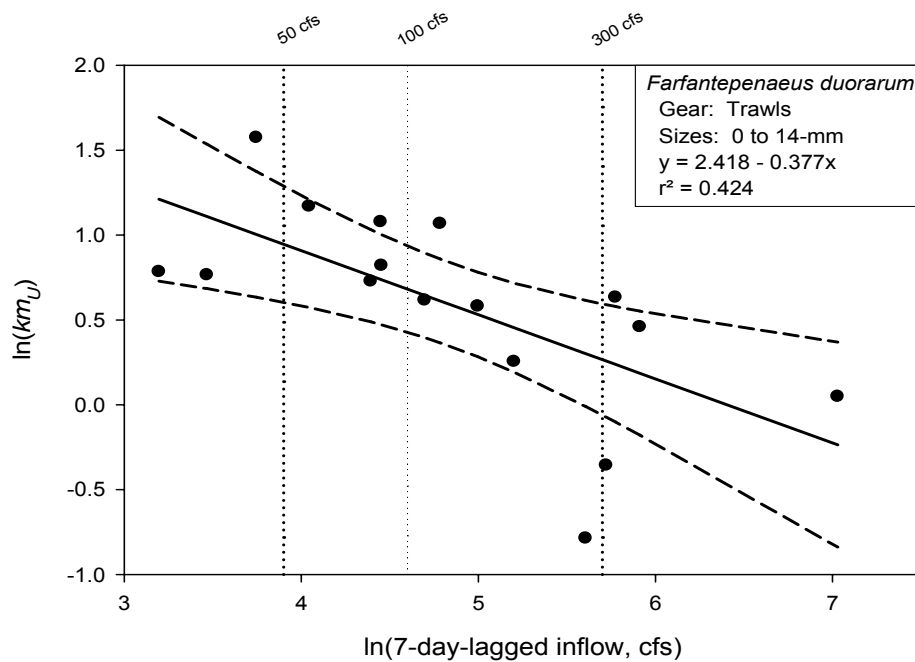


Fig. G1. Distributional response of smaller (<15-mm POHL) *Farfantepenaeus duorarum* collected in the channels of the Hillsborough River estuary to 7-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

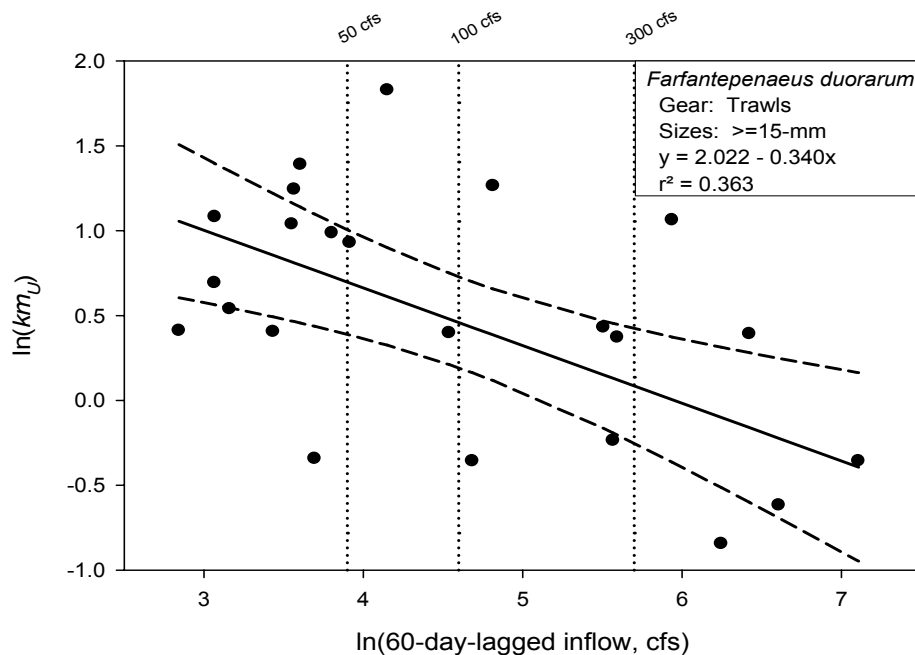


Fig. G2. Distributional response of larger (>=15-mm POHL) *Farfantepenaeus duorarum* in the channels of the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

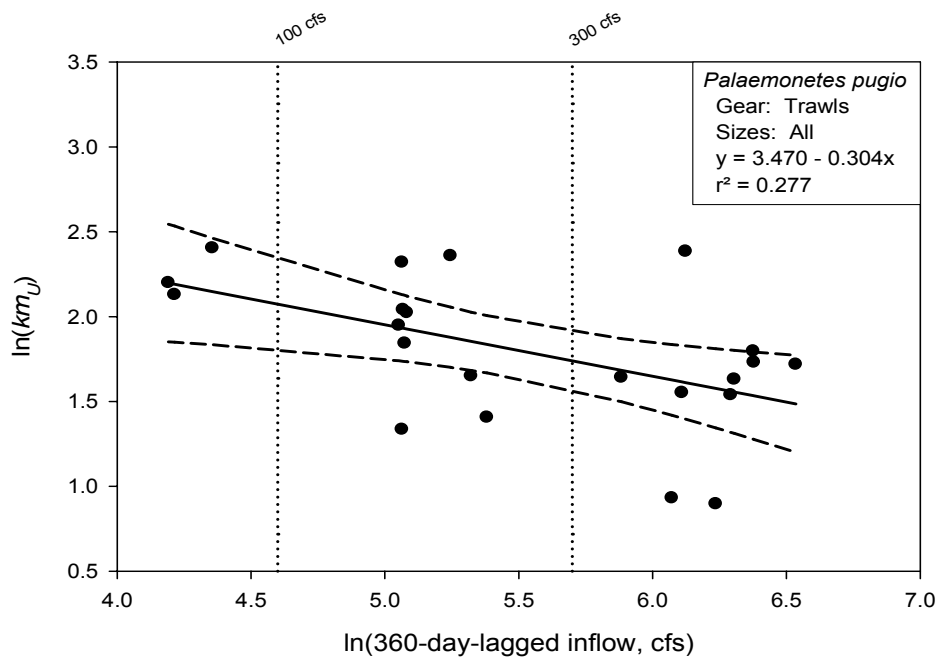


Fig. G3. Distributional response of *Palaemonetes pugio* in the channels of the Hillsborough River estuary to 360-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 100 and 300 cfs.

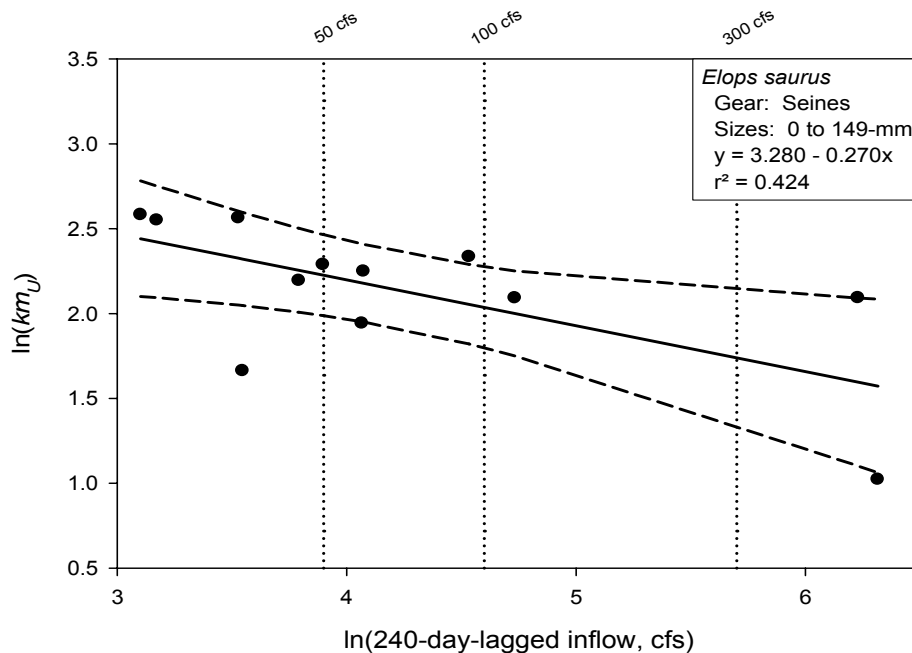


Fig. G4. Distributional response of *Elops saurus* collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

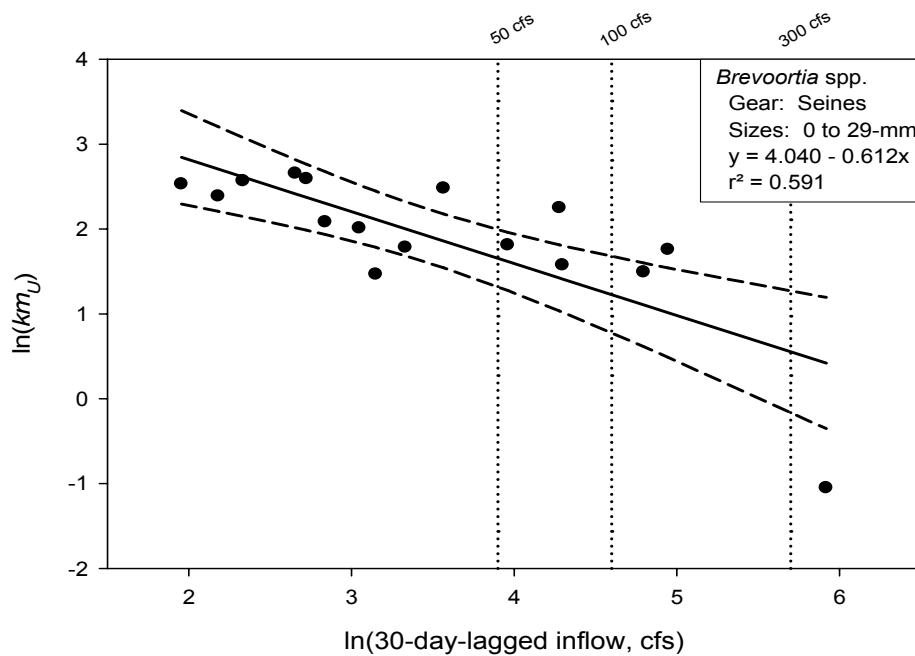


Fig. G5. Distributional response of smaller (<30 -mm SL) *Brevoortia* spp. collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

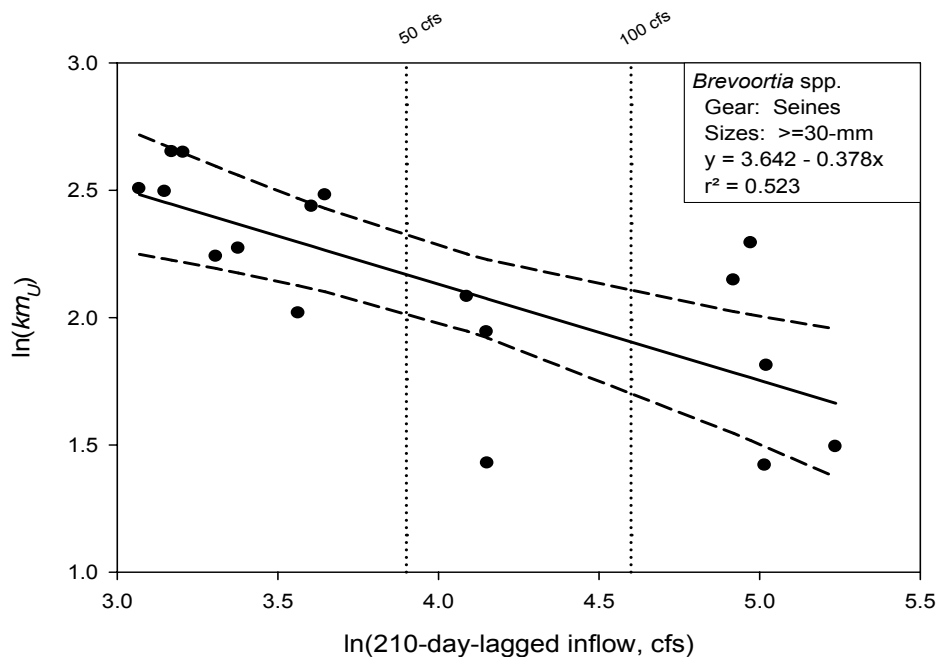


Fig. G6. Distributional response of smaller (≥ 30 -mm SL) *Brevoortia* spp. collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50 and 100 cfs.

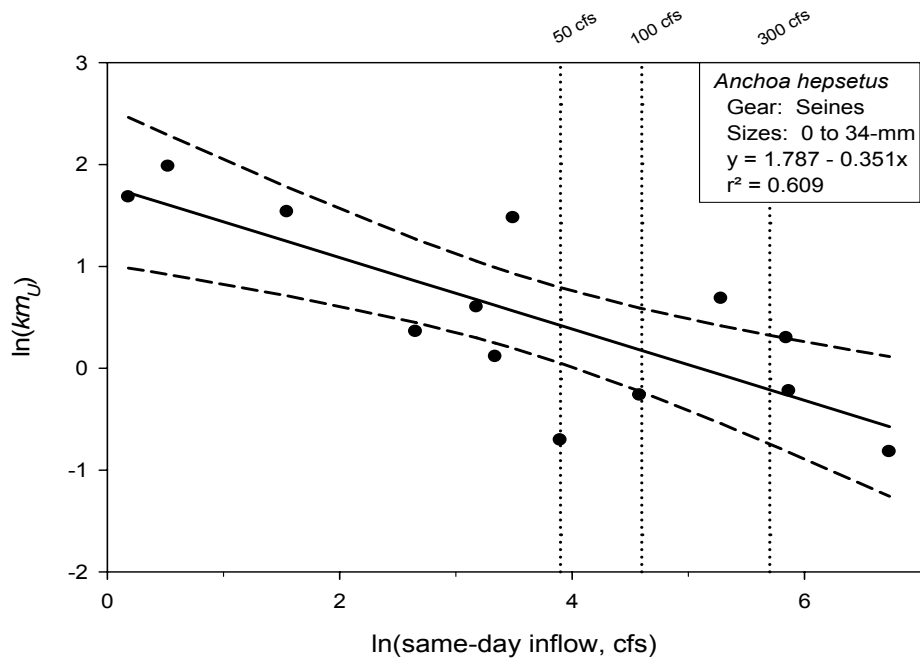


Fig. G7. Distributional response of smaller (<35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

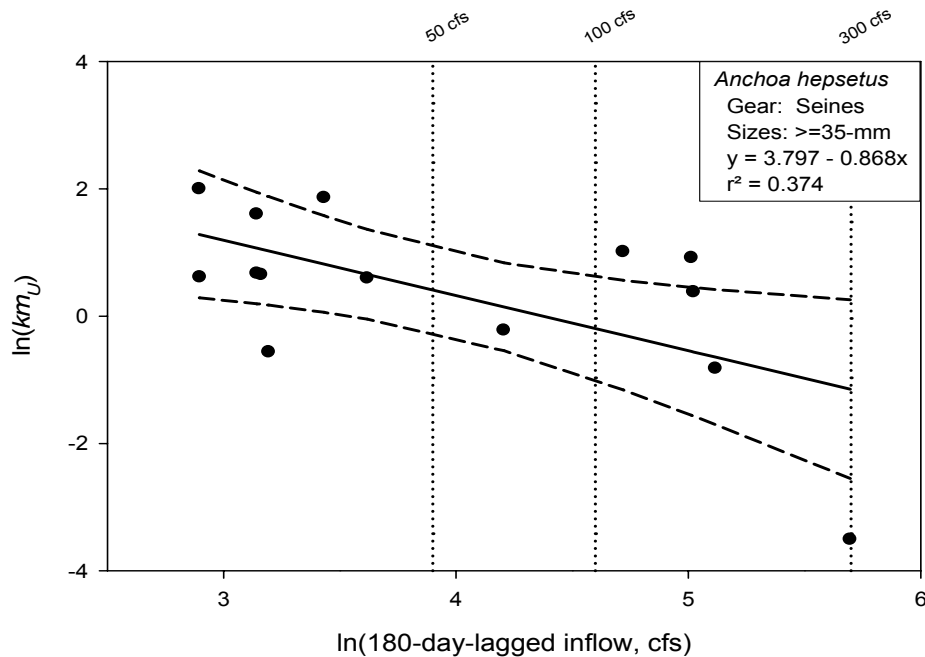


Fig. G8. Distributional response of smaller (≥35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

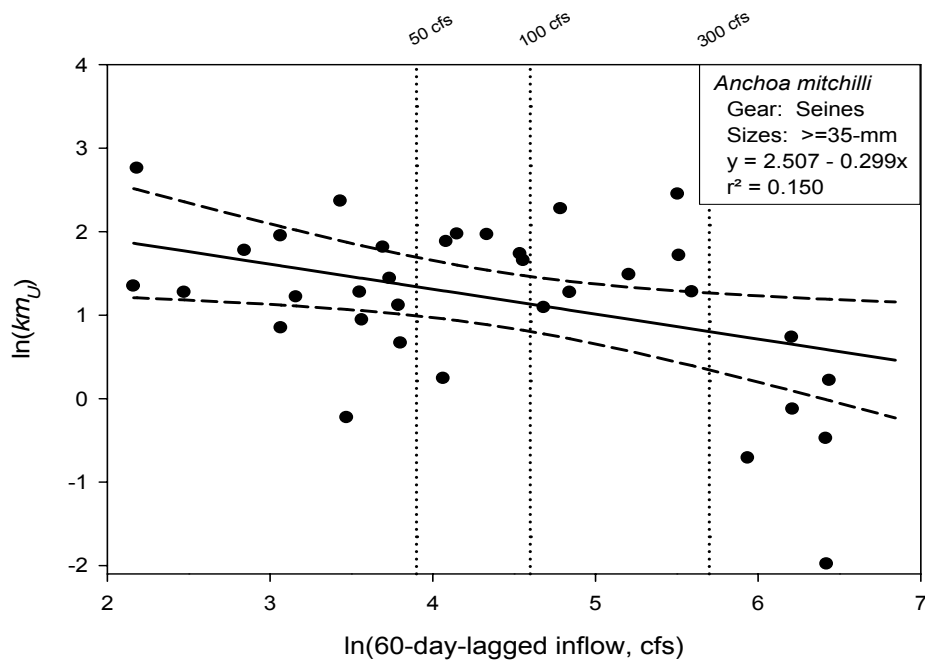


Fig. G9. Distributional response of larger (≥ 35 -mm SL) *Anchoa mitchilli* collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

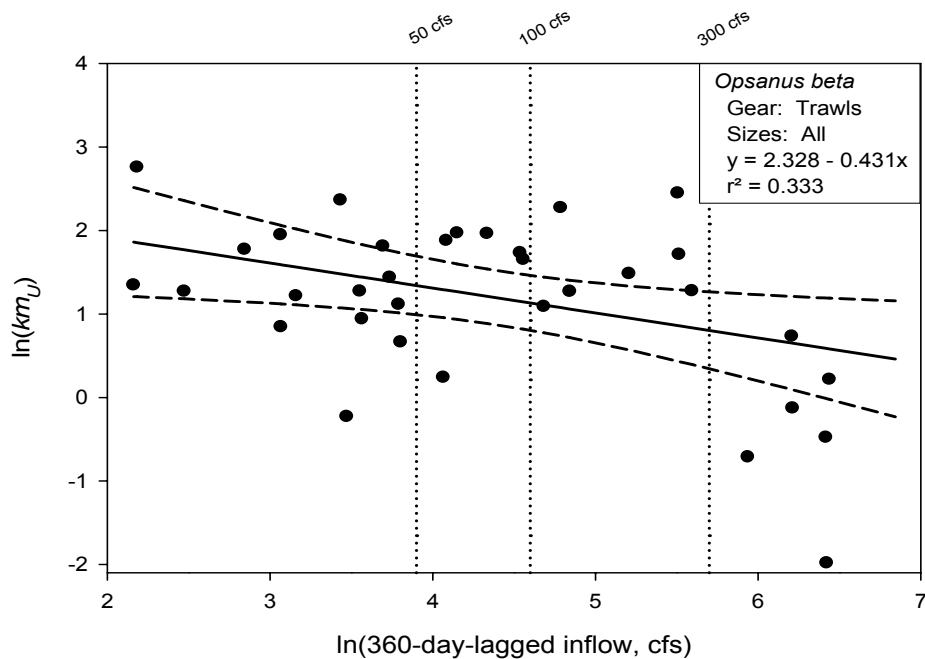


Fig. G10. Distributional response of *Opsanus beta* collected nearshore in the channels of the Hillsborough River estuary to 360-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

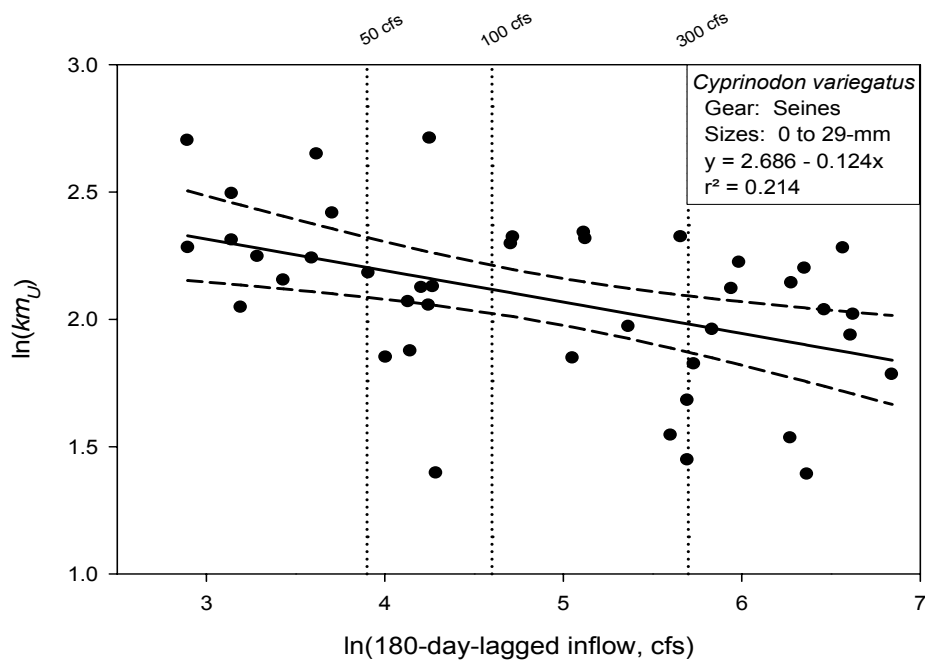


Fig. G11. Distributional response of smaller (<30-mm SL) *Cyprinodon variegatus* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

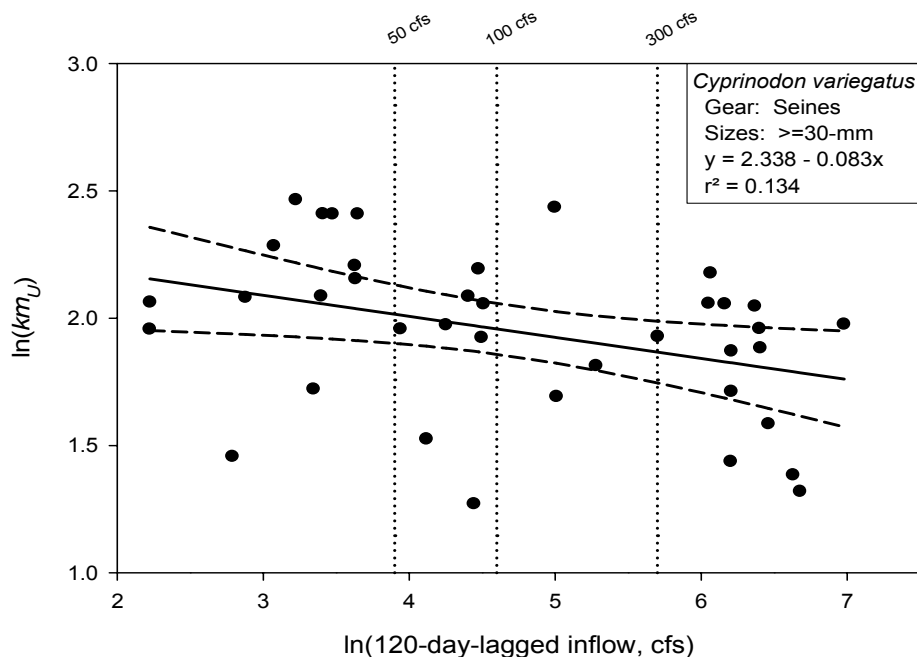


Fig. G12. Distributional response of larger (≥30-mm SL) *Cyprinodon variegatus* collected nearshore in the Hillsborough River estuary to 120-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

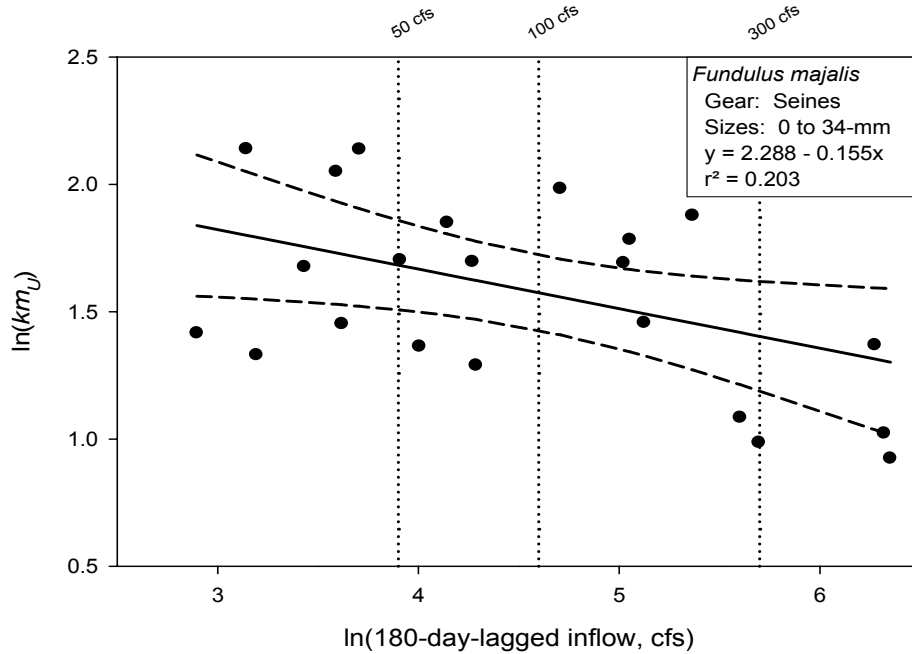


Fig. G13. Distributional response of smaller (<35-mm SL) *Fundulus majalis* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

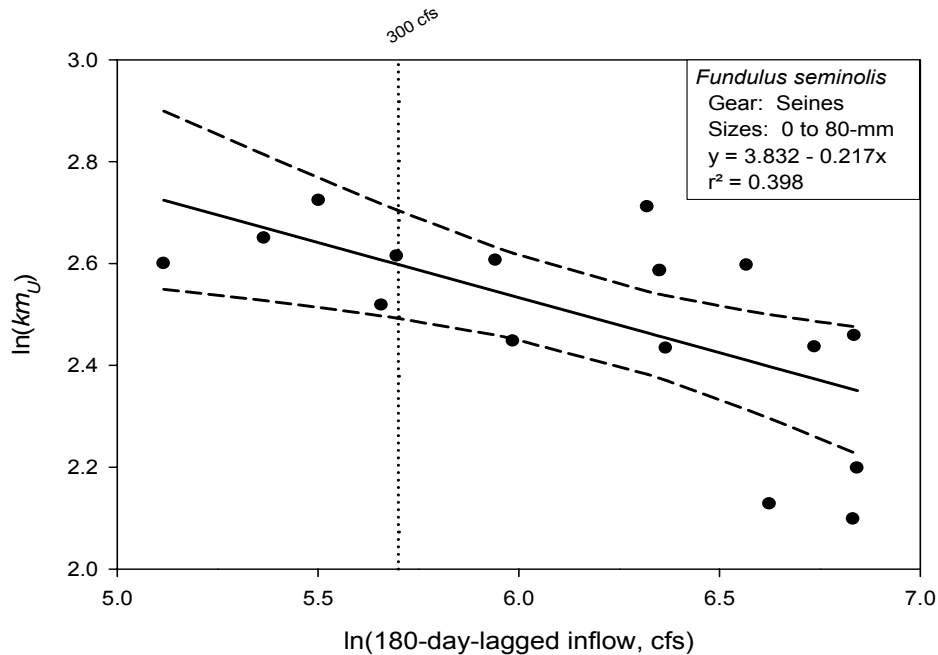


Fig. G14. Distributional response of *Fundulus seminolis* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference line denotes inflows of 300 cfs.

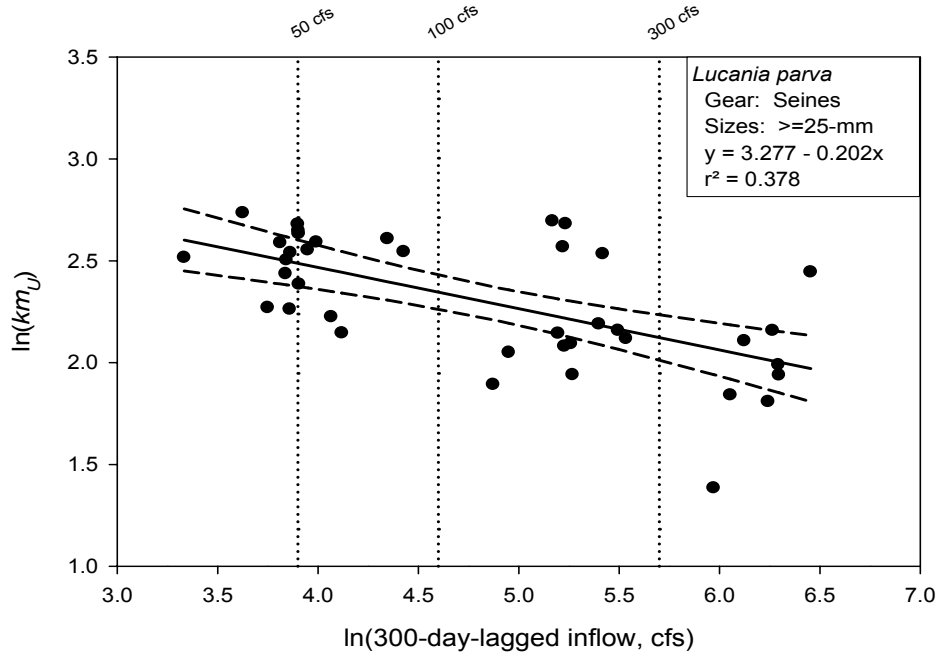


Fig. G15. Distributional response of larger (≥ 25 -mm SL) *Lucania parva* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

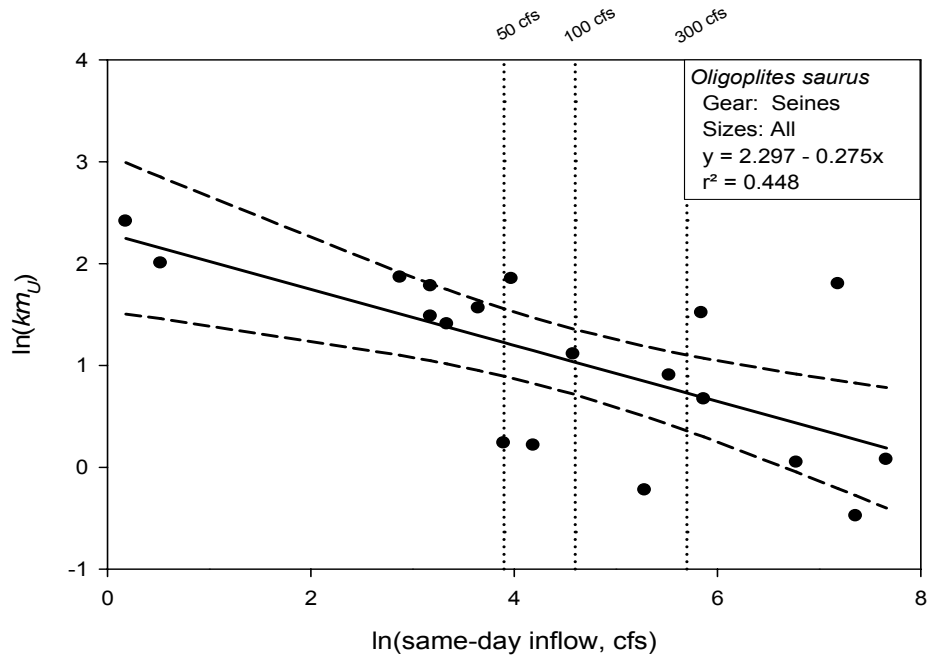


Fig. G16. Distributional response of *Oligoplites saurus* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

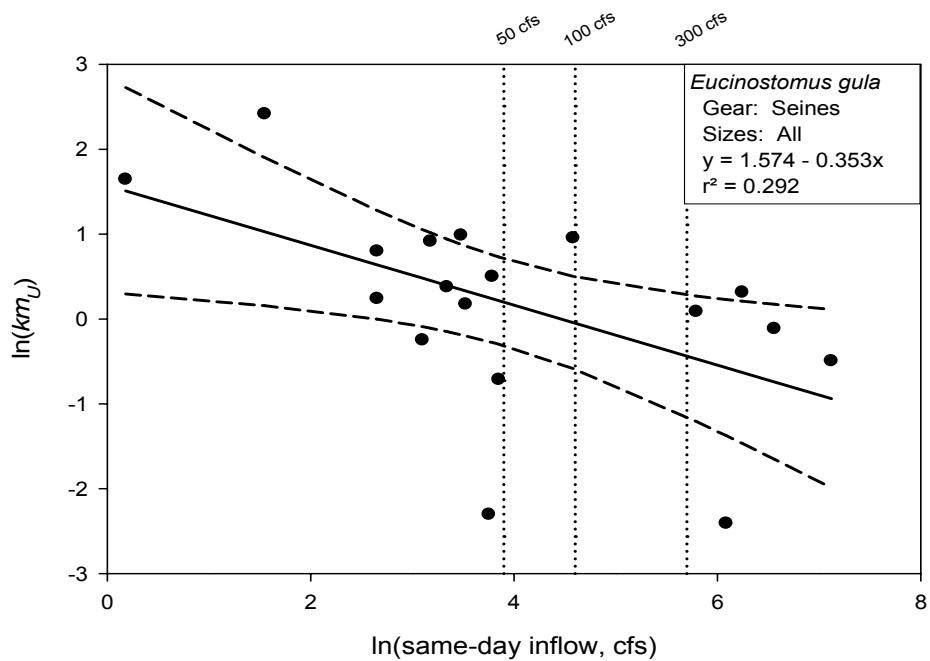


Fig. G17. Distributional response of *Eucinostomus gula* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

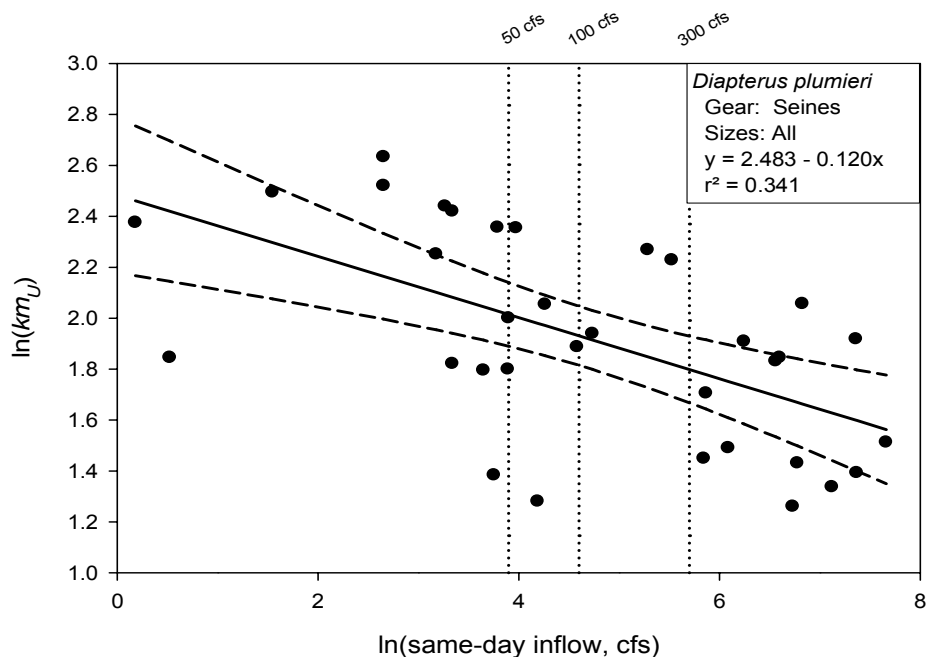


Fig. G18. Distributional response of *Diapterus plumieri* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

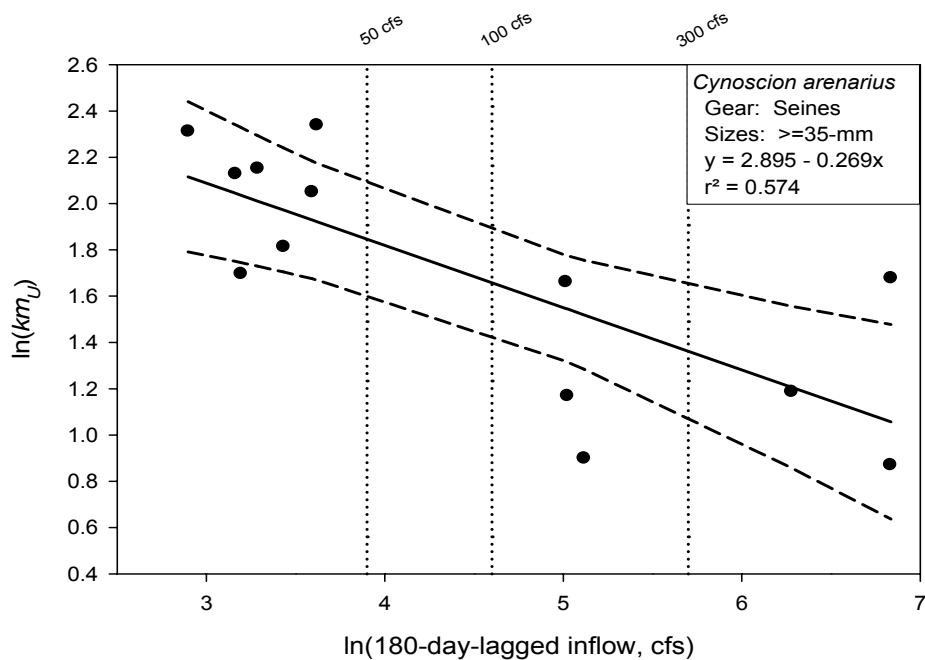


Fig. G19. Distributional response of larger (≥ 35 -mm SL) *Cynoscion arenarius* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

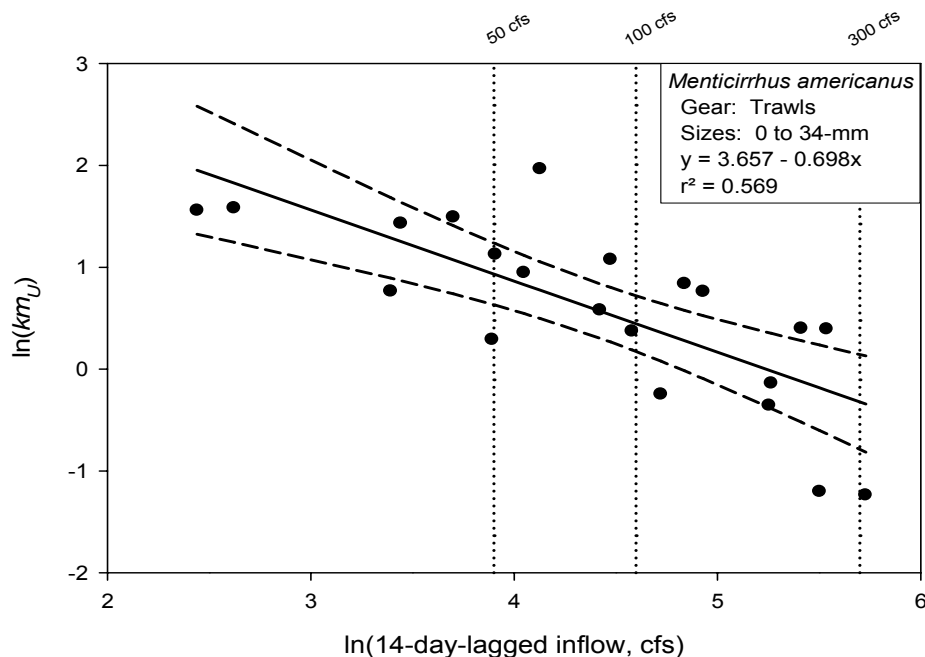


Fig. G20. Distributional response of smaller (< 35 -mm SL) *Menticirrhus americanus* collected nearshore in the Hillsborough River estuary to 14-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

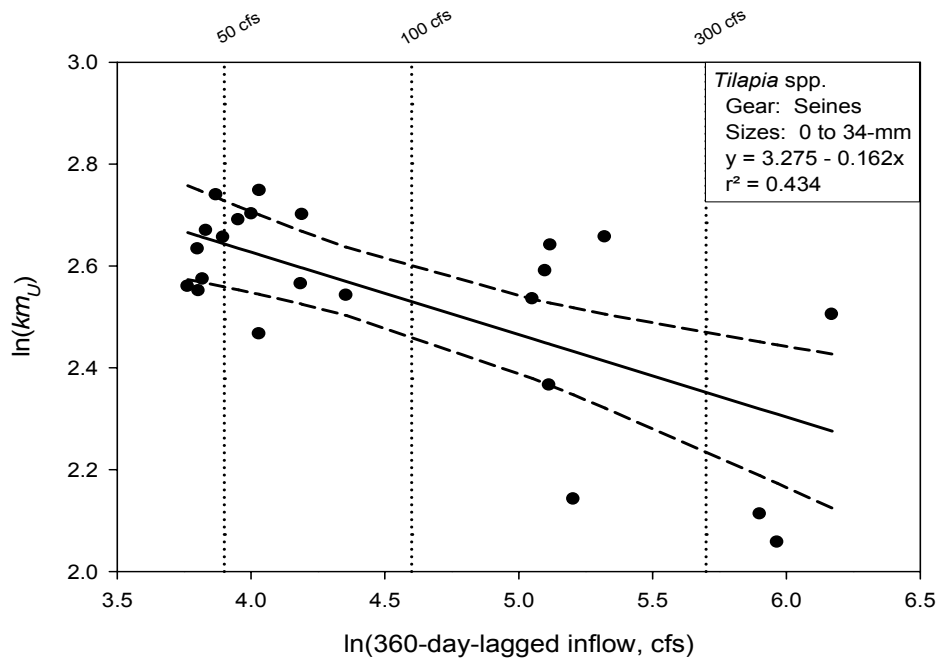


Fig. G21. Distributional response of smaller (<35-mm SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 360-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

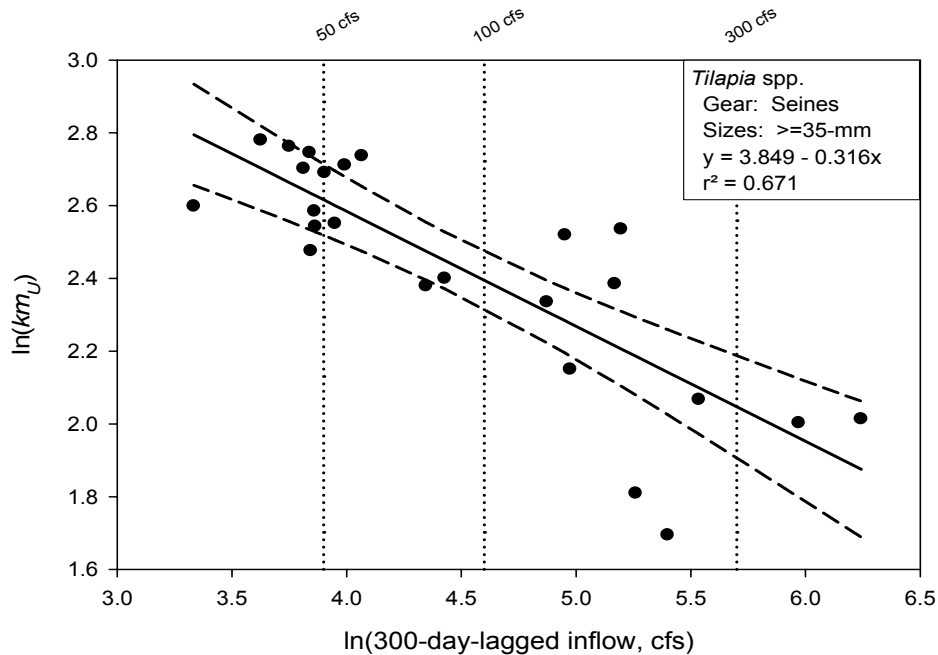
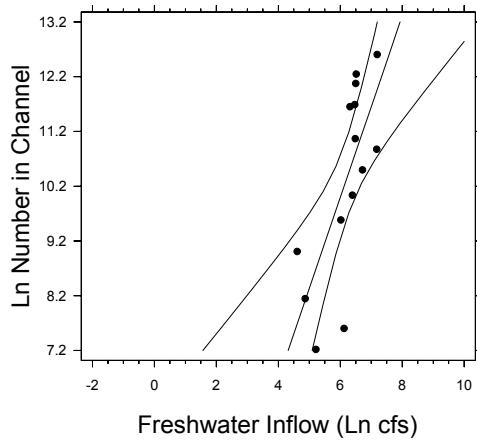


Fig. G22. Distributional response of larger ($\geq 35\text{-mm}$ SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

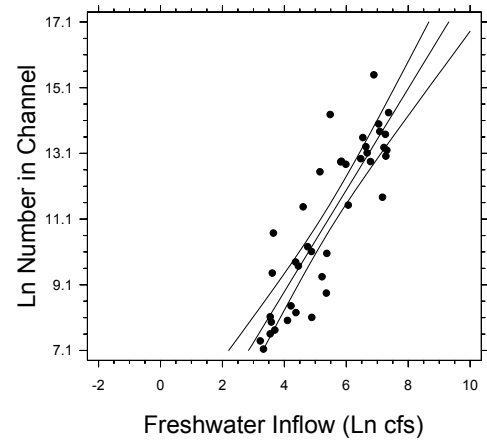
Appendix H:

Plots of the plankton-net abundance responses in Table 3.8.1.1

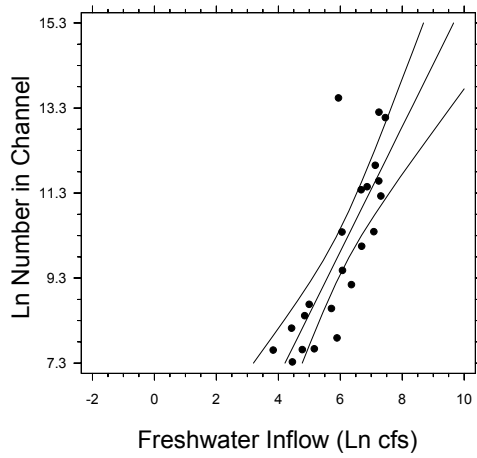
Latona setifera



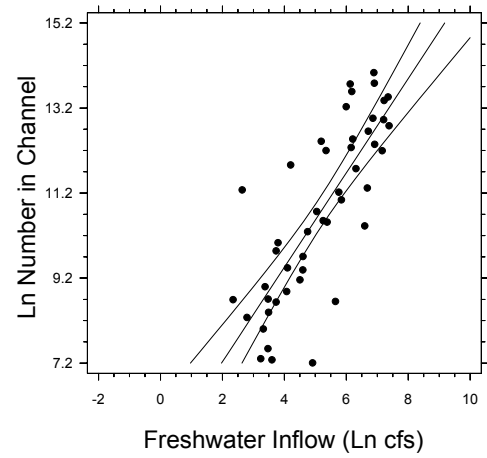
Dipterans, pupae



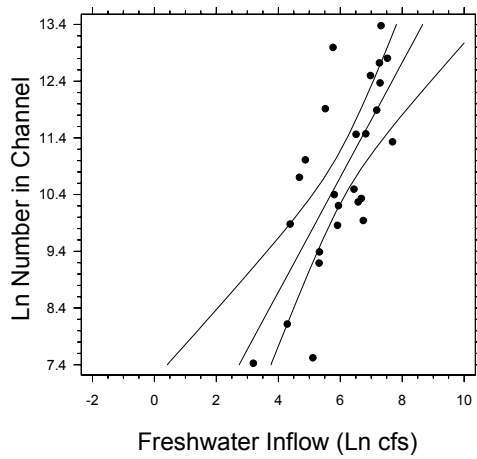
Ephemeropteran larvae



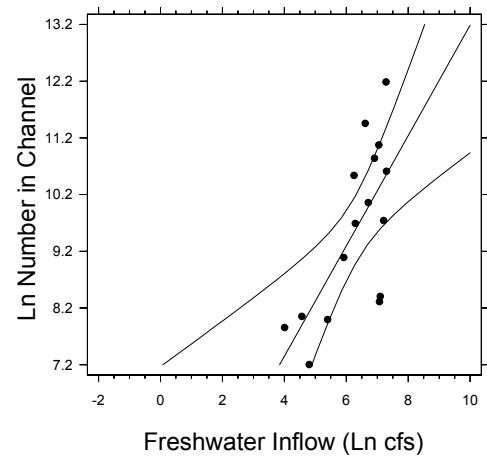
Dipterans, chironomid larvae



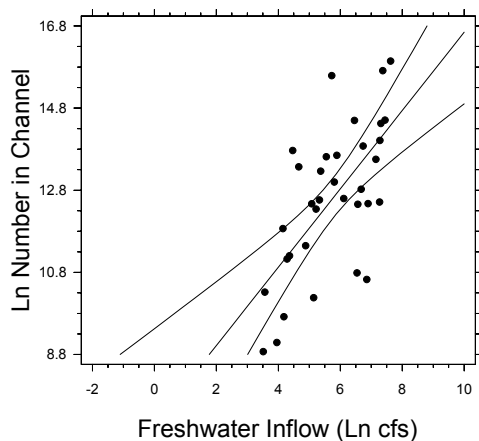
Simocephalus vetulus



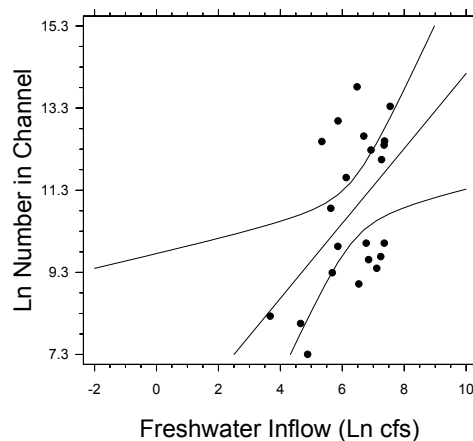
Trichopteran larvae



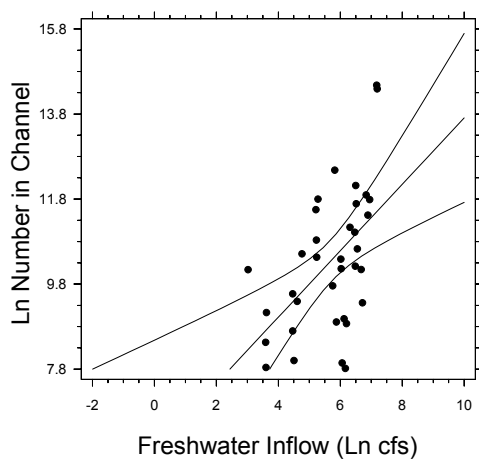
Dipteran, *Chaoborus punctipennis* larvae



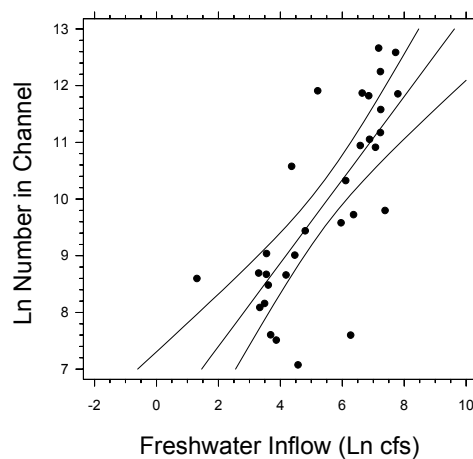
Ilyocryptus sp.



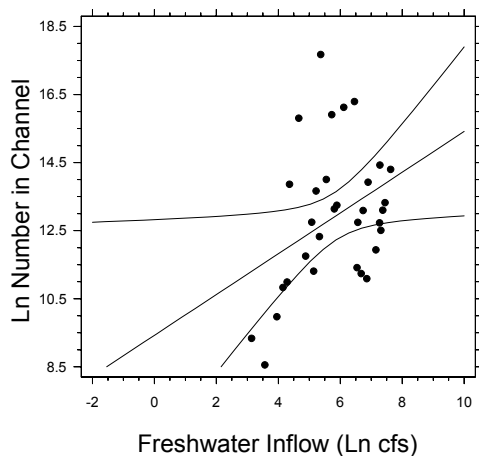
Cassidinidea ovalis



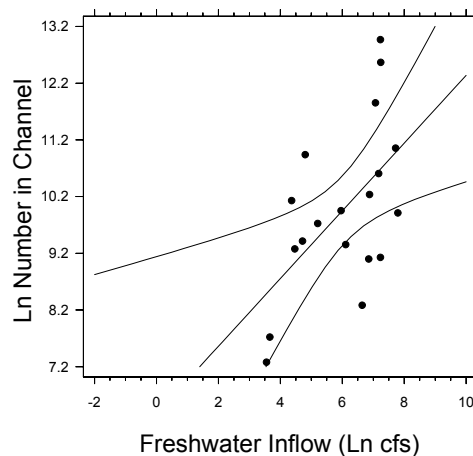
Oligochaetes



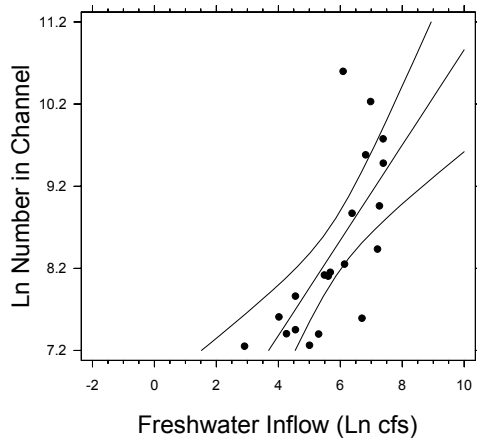
Mesocyclops edax



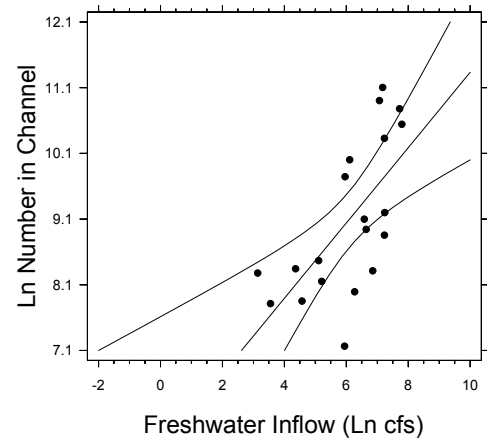
Sida crystallina



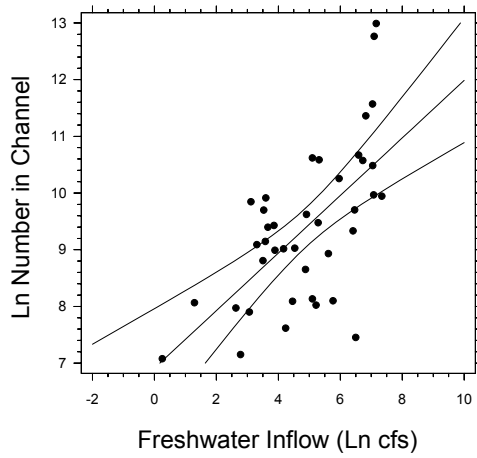
Odonates, zygopteran larvae



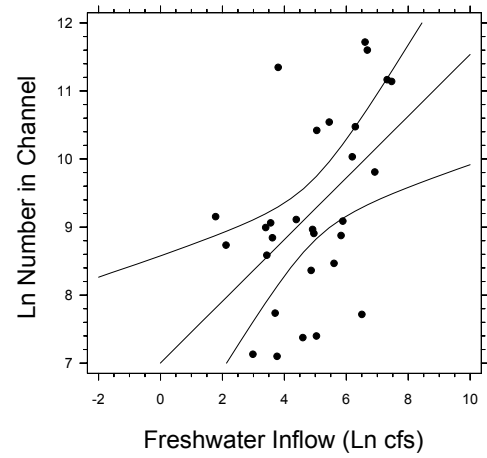
Acari



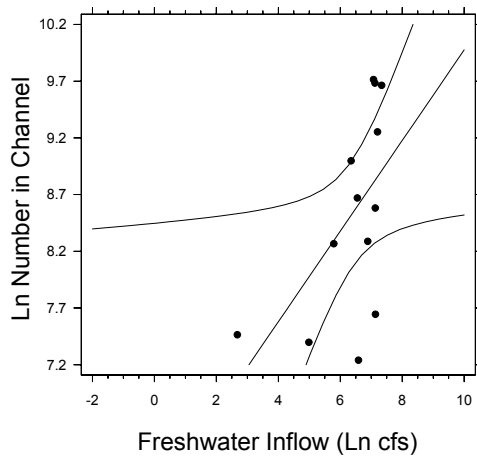
Ostracods, podocypid



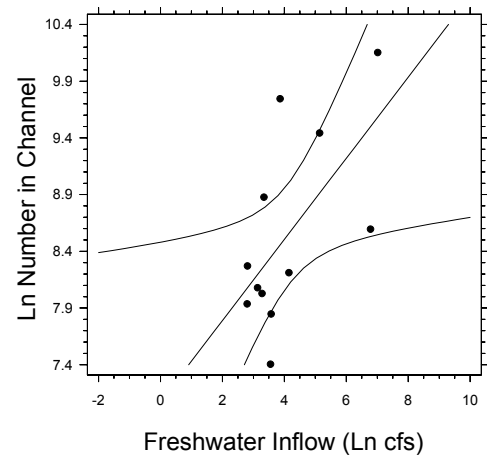
Trinectes maculatus juveniles



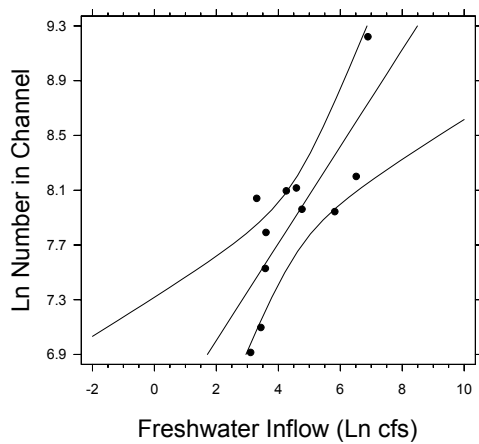
Dipterans, ceratopogonid



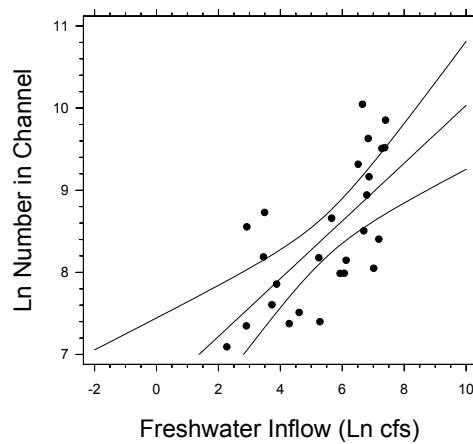
Hargeria rapax



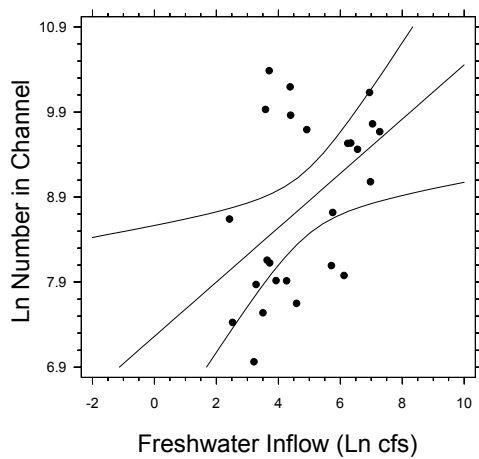
Menidia spp. flexion larvae



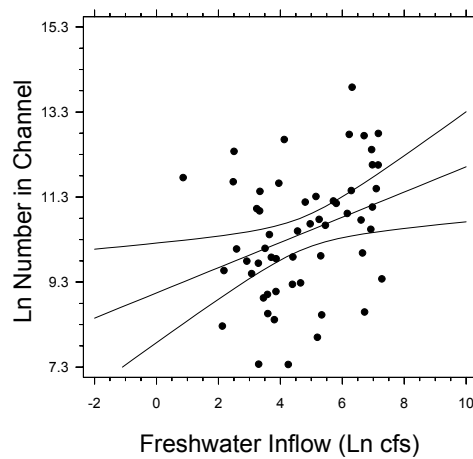
Hirudinoideans



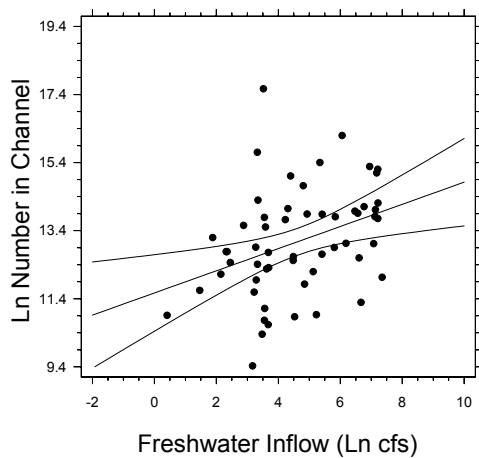
Sphaeroma terebrans



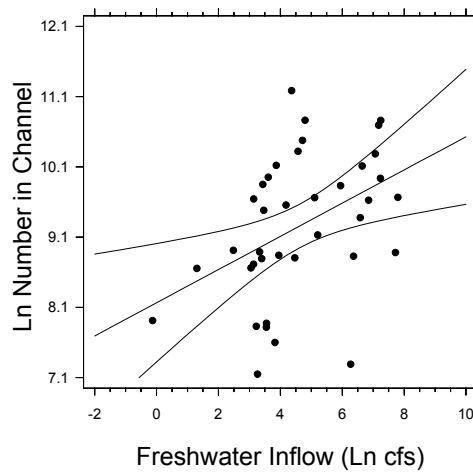
Gastropods, prosobranch



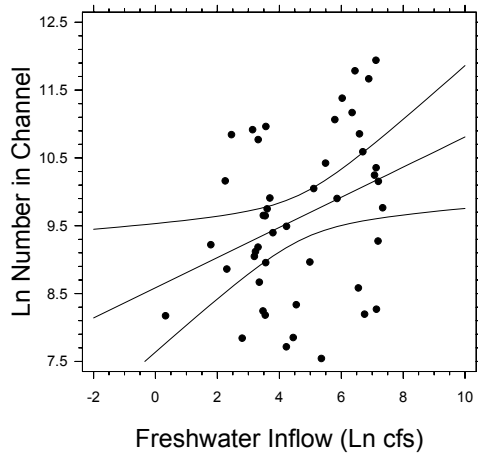
Polychaetes



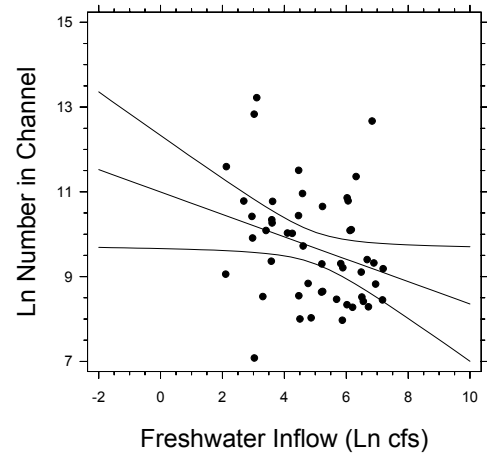
Menidia spp. preflexion larvae



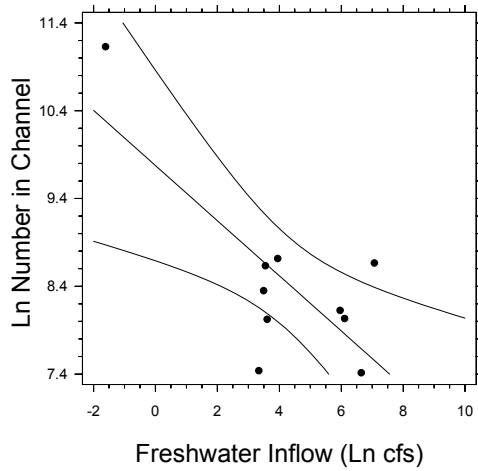
Anchoa mitchilli adults



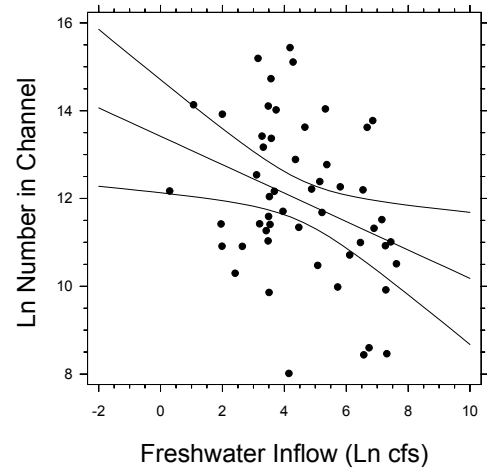
Pelecypods



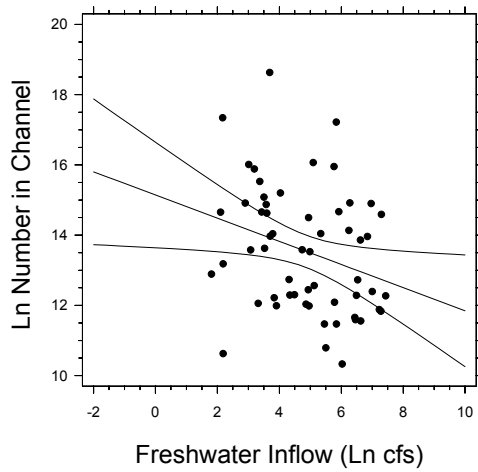
Coleopterans, curculionid adults



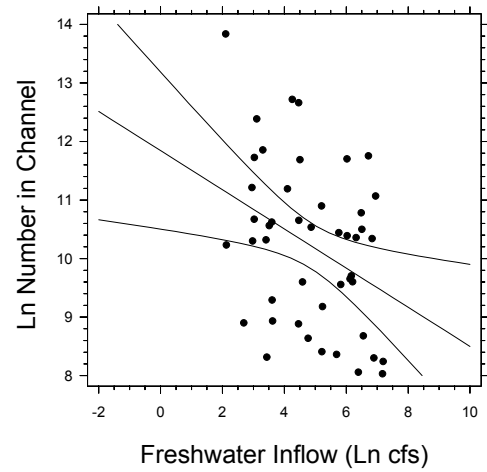
Edotea triloba



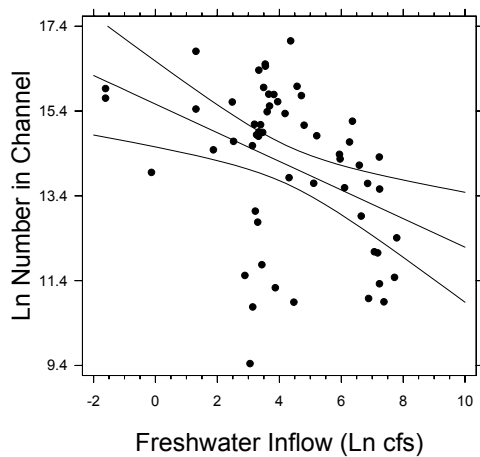
Amphipods, gammaridean



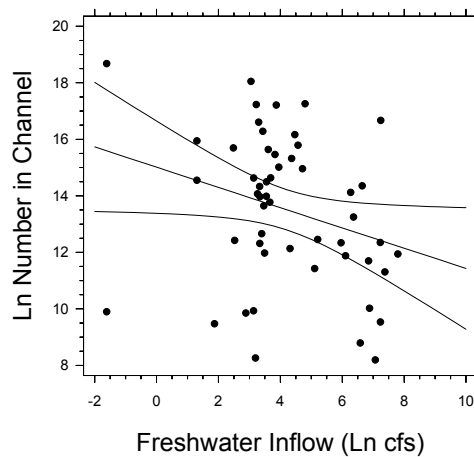
Palaemonetes pugio juveniles



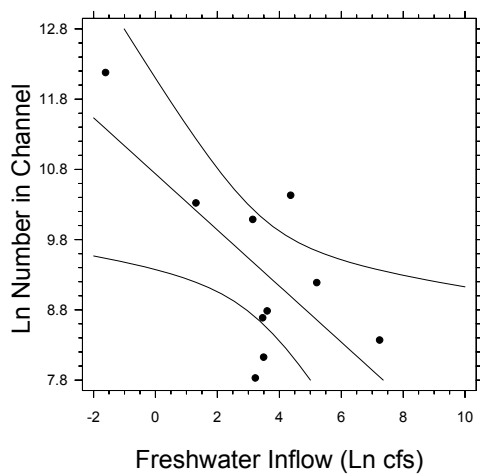
Anchoa mitchilli juveniles



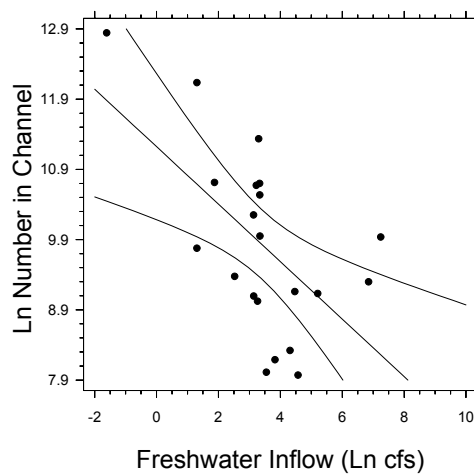
Americamysis almyra



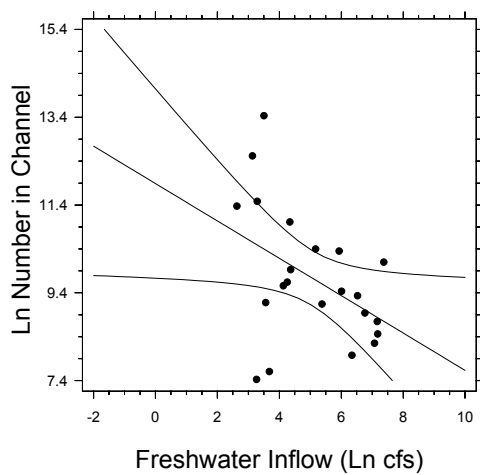
Brevoortia spp. postflexion larvae



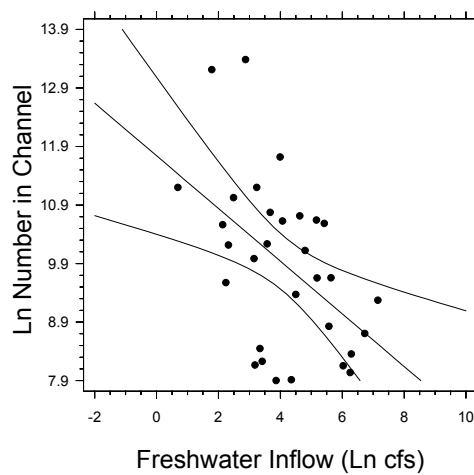
Parasterope pollex



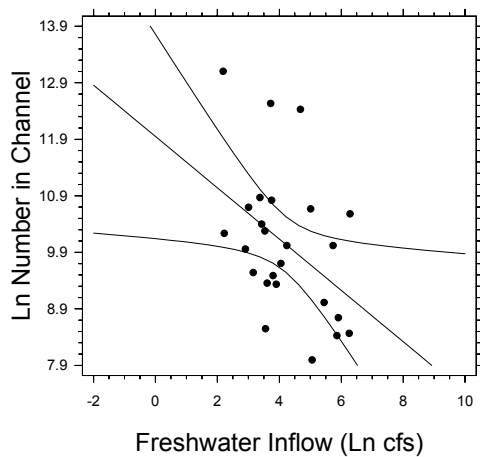
Cyclops spp.



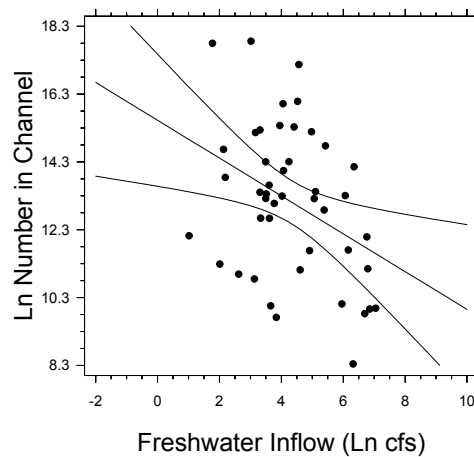
Microgobius spp. flexion larvae



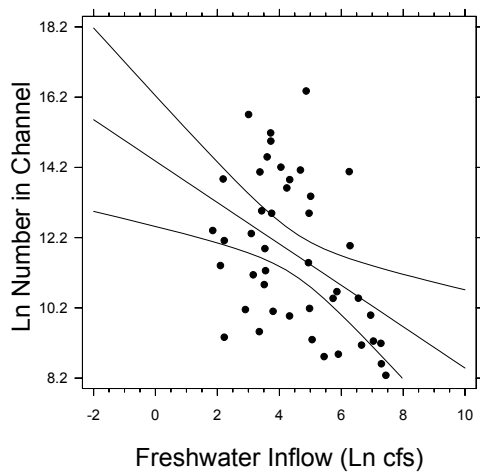
Gobiesox strumosus preflexion larvae



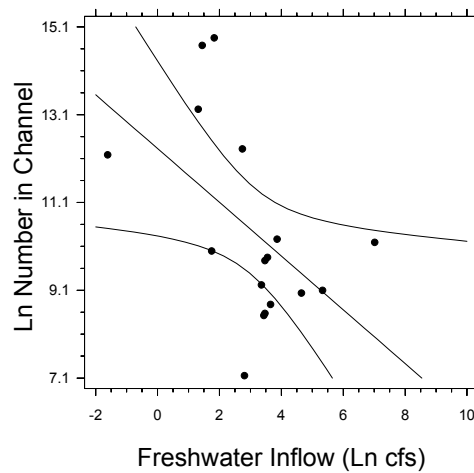
Decapod megalopae



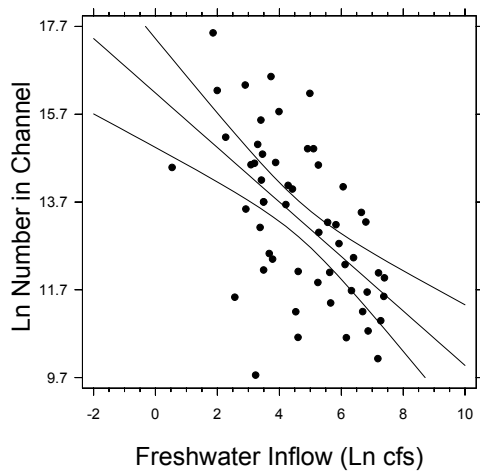
Palaemonetes spp. postlarvae



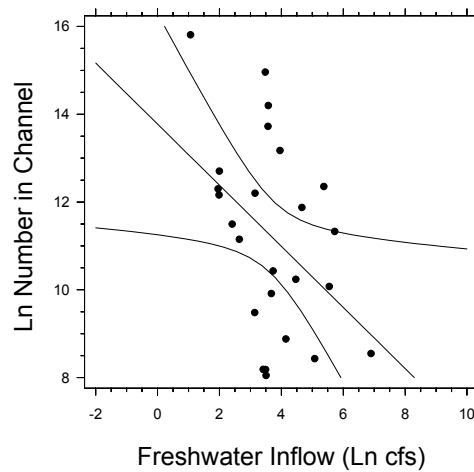
Brevoortia spp. metamorphs



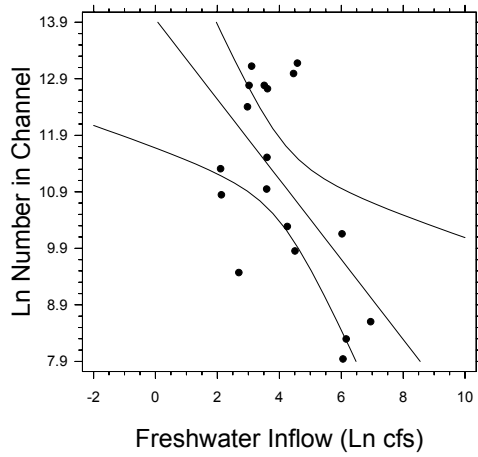
Decapod mysis



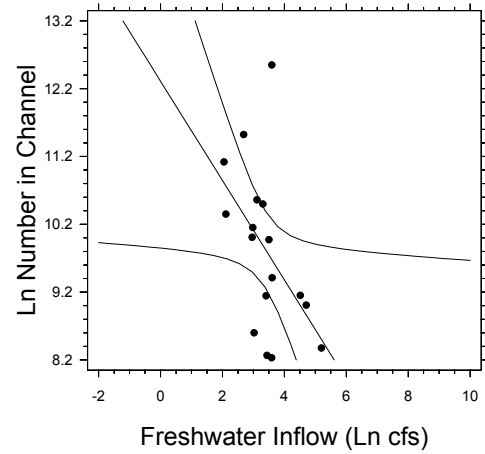
Anchoa mitchilli postflexion larvae



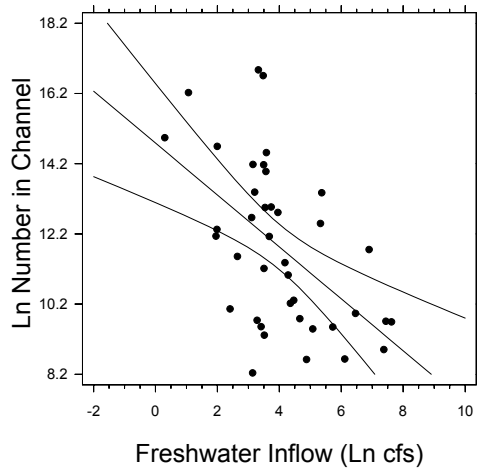
Petrolisthes armatus juveniles



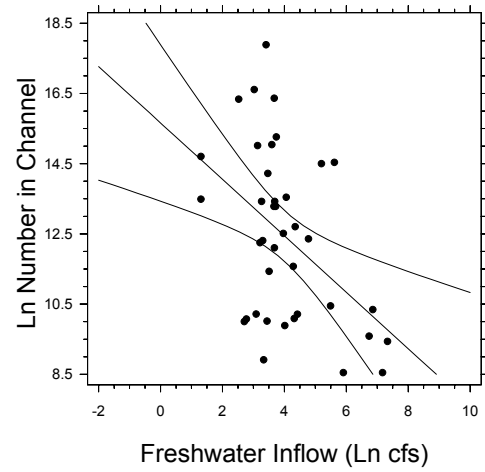
Limulus polyphemus larvae



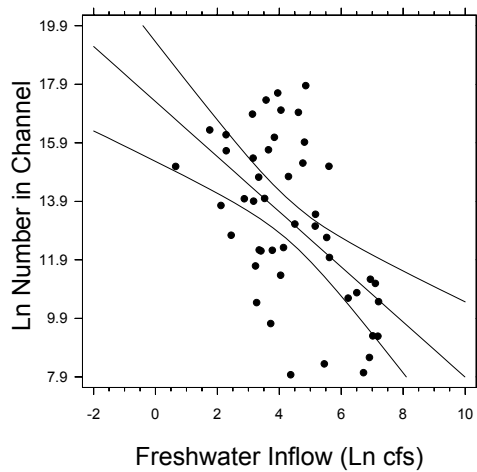
Gobiid preflexion larvae



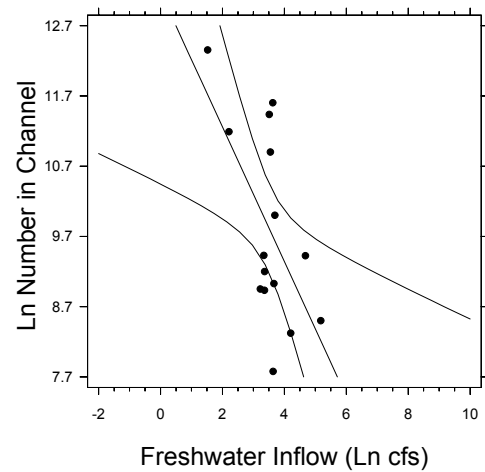
Labidocera aestiva



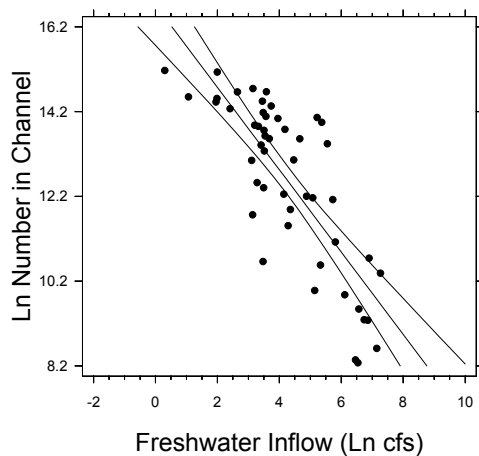
Chaetognaths, sagittid



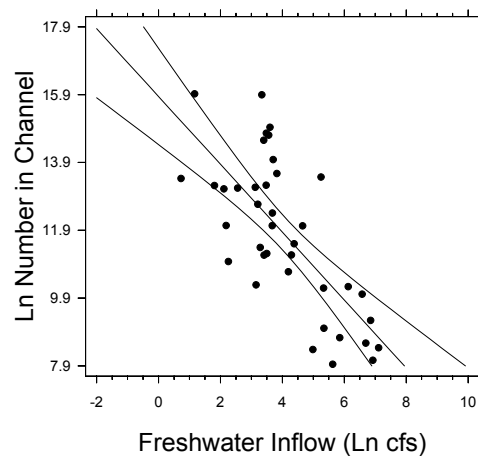
Squilla empusa larvae



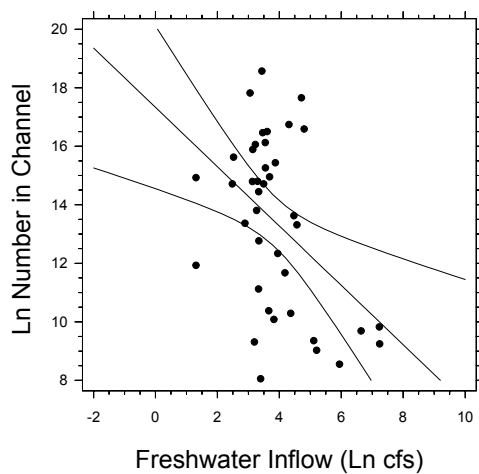
Cymothoid sp. a (Lironeca)



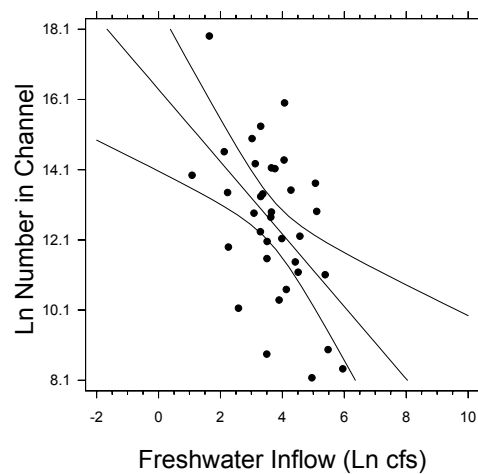
Gobiid flexion larvae



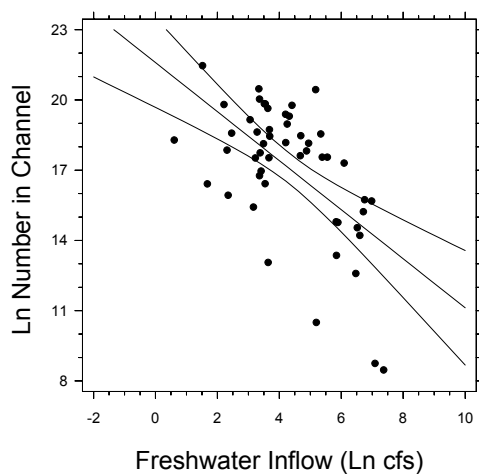
Acartia tonsa



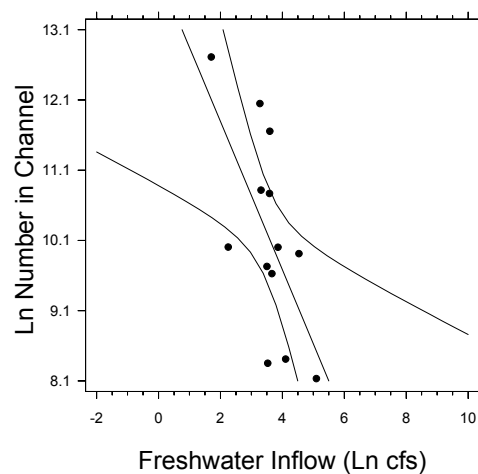
Gobiosoma spp. postflexion larvae

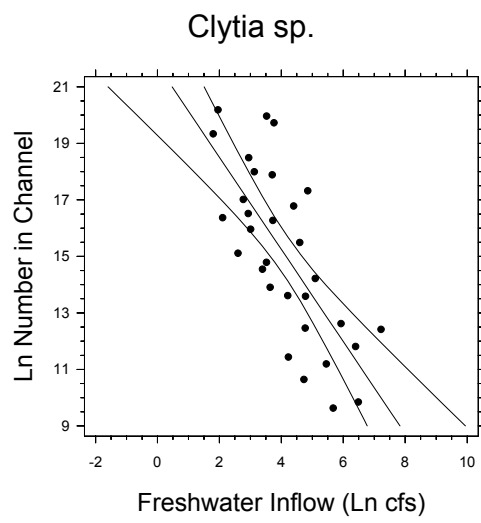


Decapod zoeae



Cirriped nauplius stage





Appendix I:

Plots of the seine and trawl abundance responses in Table 3.8.2.1

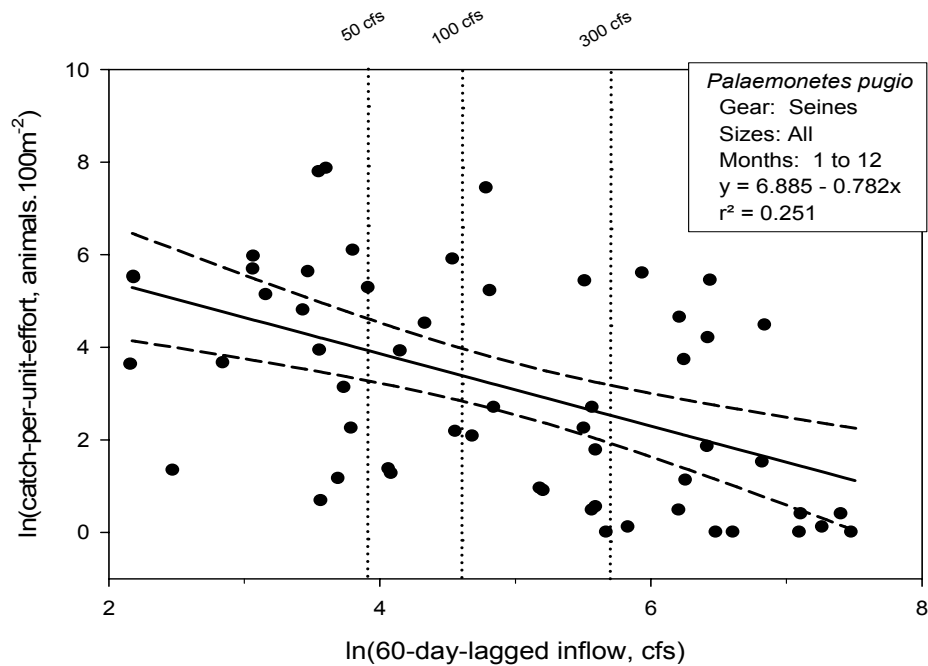


Fig. I1. Abundance ($\bar{N}$) response of *Palaemonetes pugio* collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

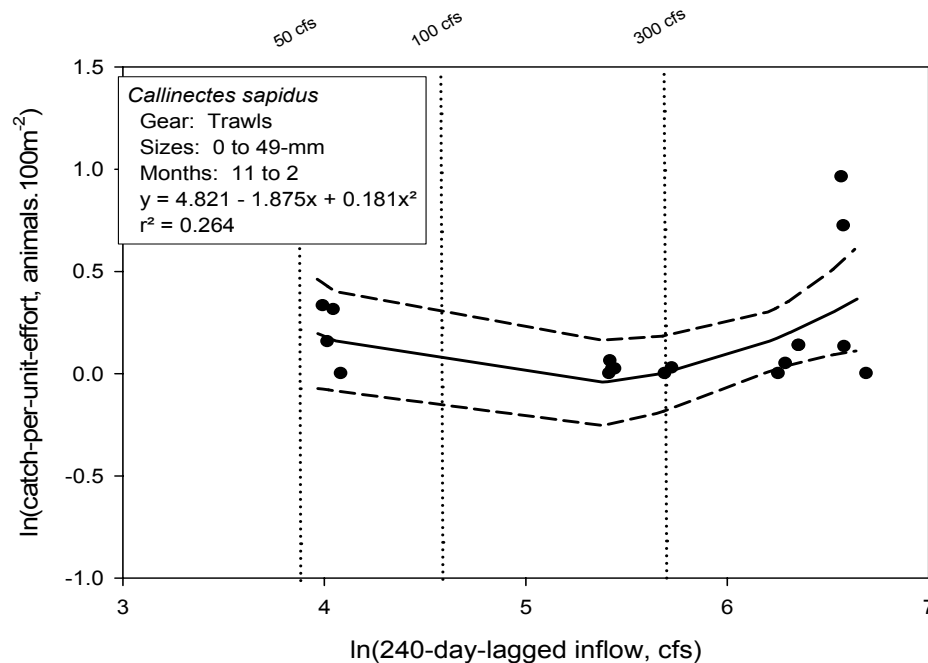


Fig. I2. Abundance ($\bar{N}$) response of smaller (<50-mm CW) *Callinectes sapidus* collected in the channel of the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

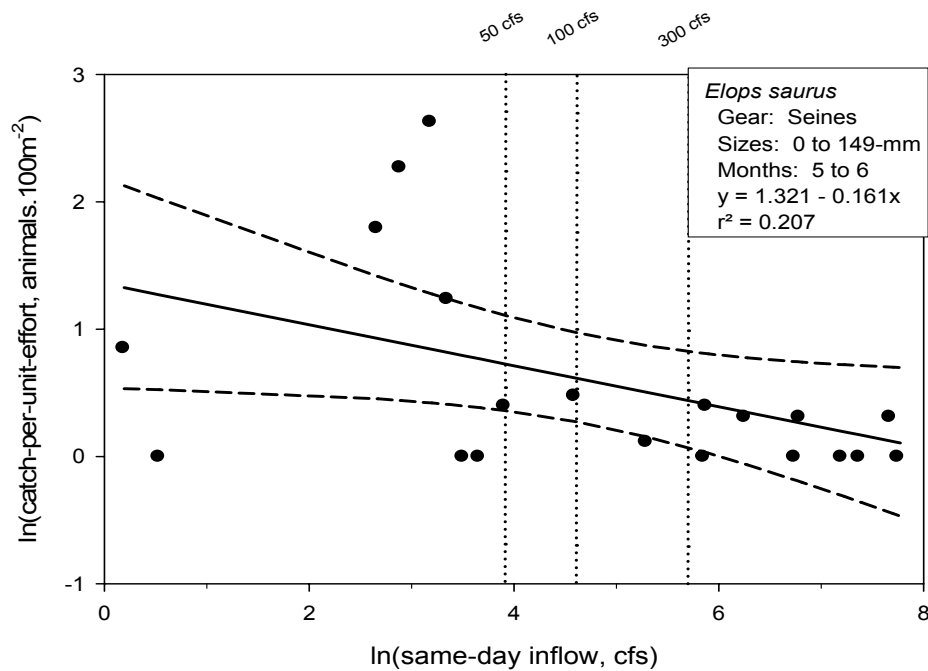


Fig. I3. Abundance ($\bar{N}$) response of *Elops saurus* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

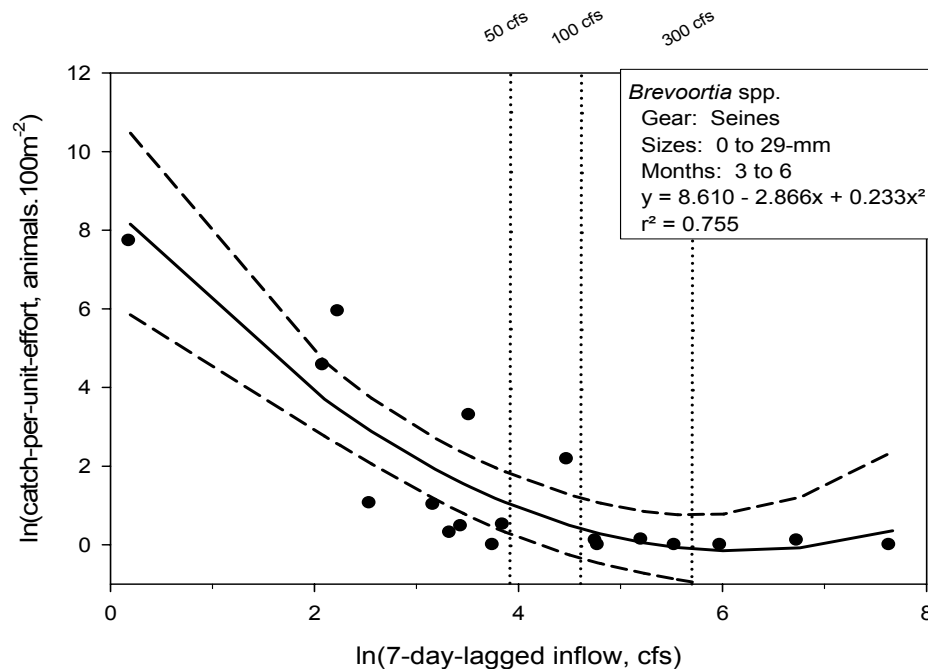


Fig. I4. Abundance ($\bar{N}$) response of smaller (<30-mm SL) *Brevoortia* spp. collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

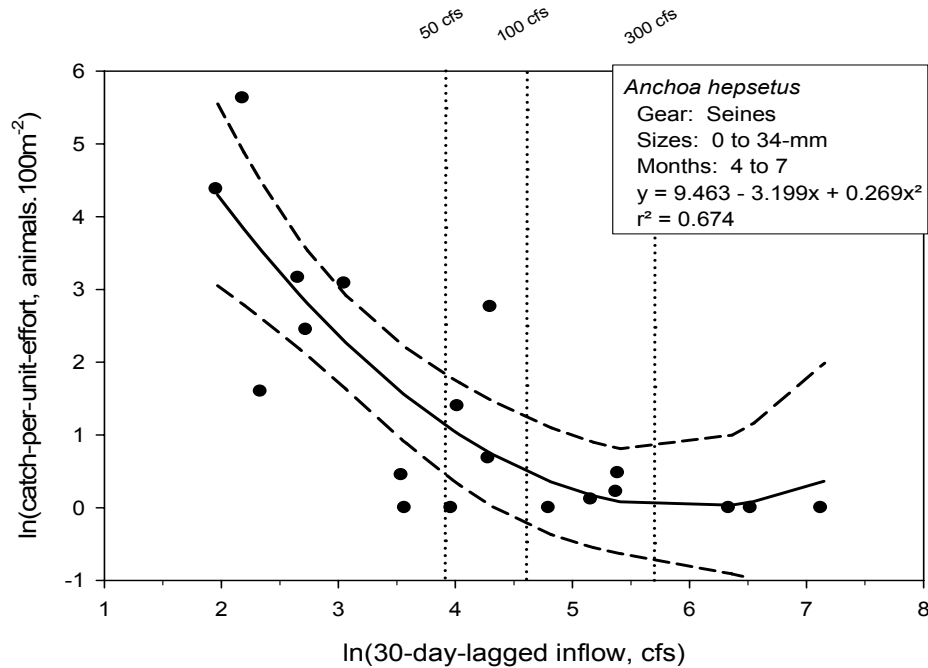


Fig. I5. Abundance ($\bar{N}$) response of smaller (<35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

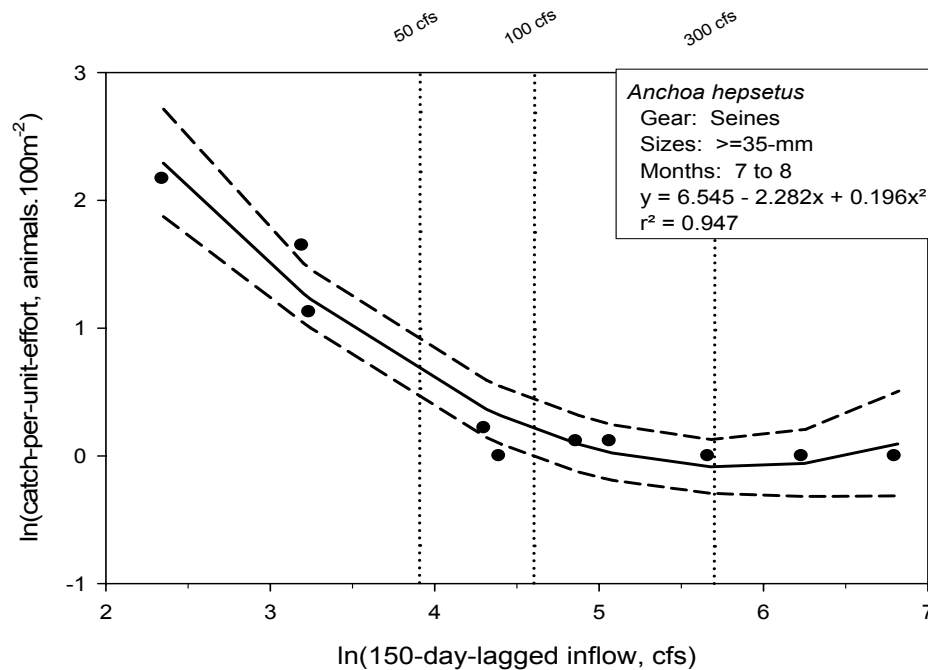


Fig. I6. Abundance ($\bar{N}$) response of larger (≥35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to 150-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

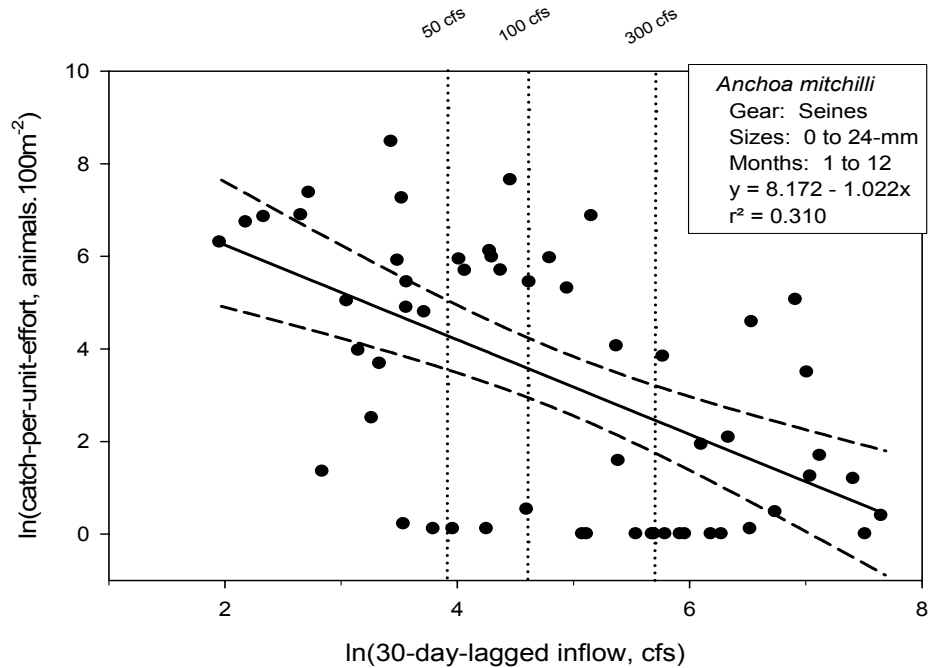


Fig. 17. Abundance ($\bar{N}$) response of smaller (<25-mm SL) *Anchoa mitchilli* collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

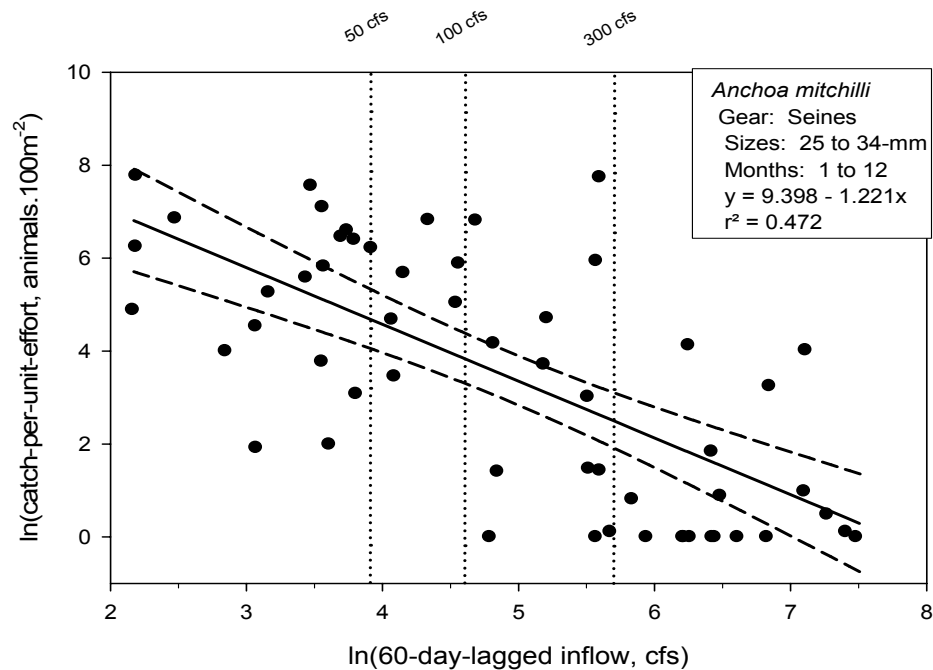


Fig. 18. Abundance ($\bar{N}$) response of mid-sized (25 to 34-mm SL) *Anchoa mitchilli* collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

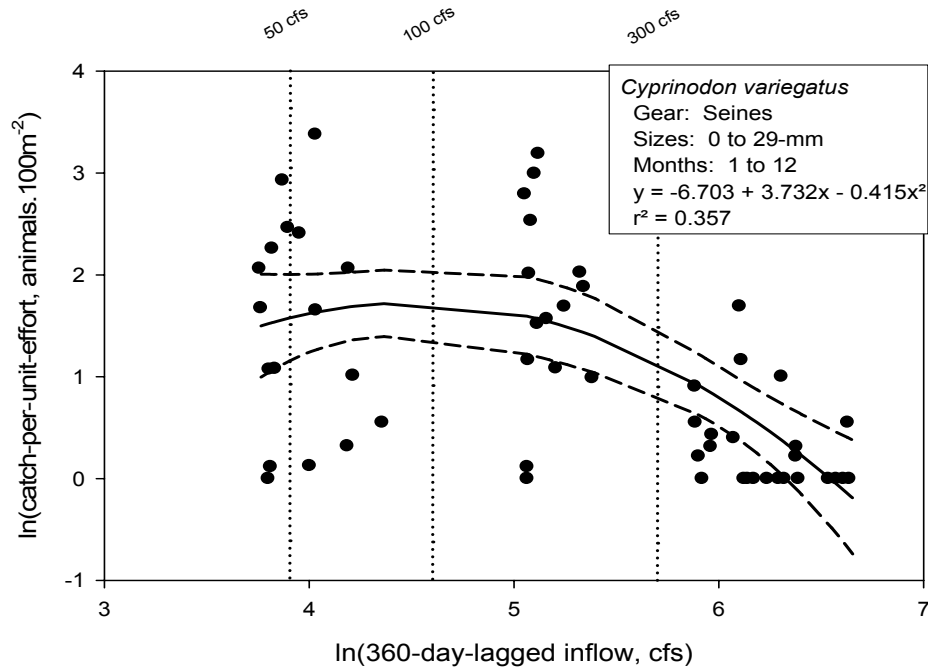


Fig. I9. Abundance ($\bar{N}$) response of smaller (<30-mm SL) *Cyprinodon variegatus* collected nearshore in the Hillsborough River estuary to 360-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

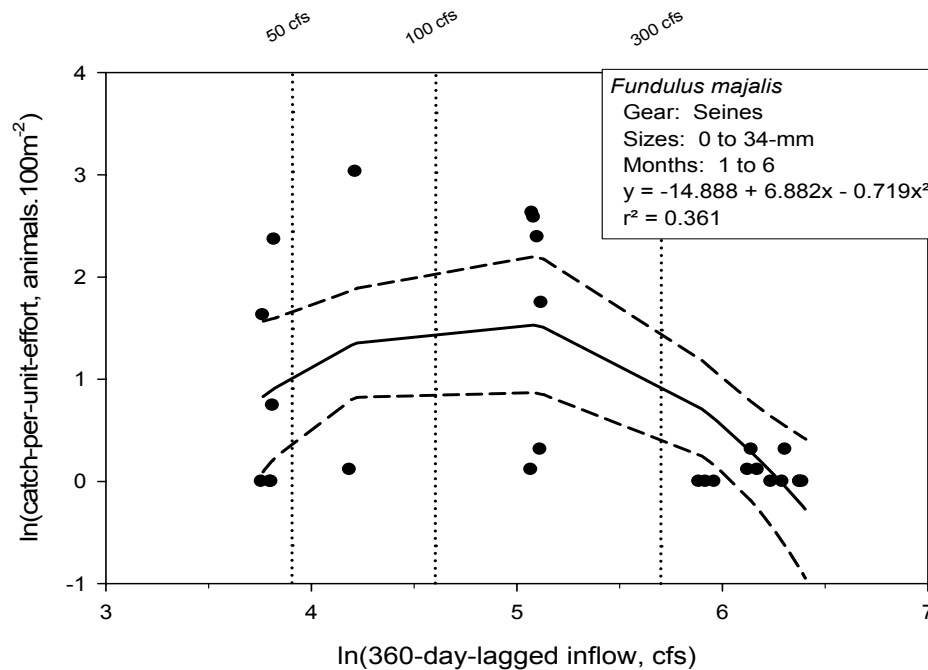


Fig. I10. Abundance ($\bar{N}$) response of smaller (<35-mm SL) *Fundulus majalis* collected nearshore in the Hillsborough River estuary to 360-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

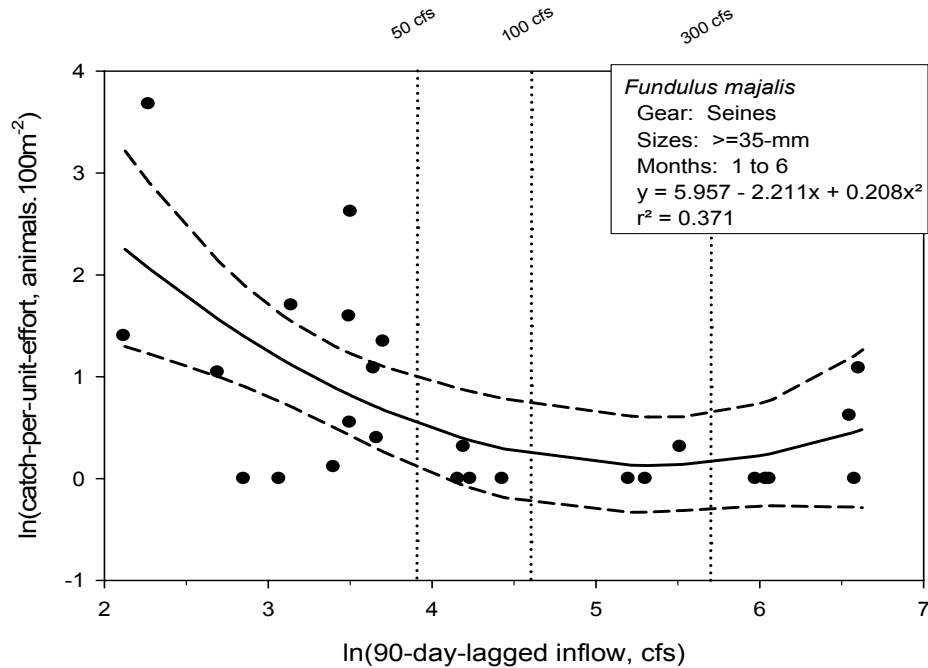


Fig. I11. Abundance ($\bar{N}$) response of larger (≥ 35 -mm SL) *Fundulus majalis* collected nearshore in the Hillsborough River estuary to 90-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

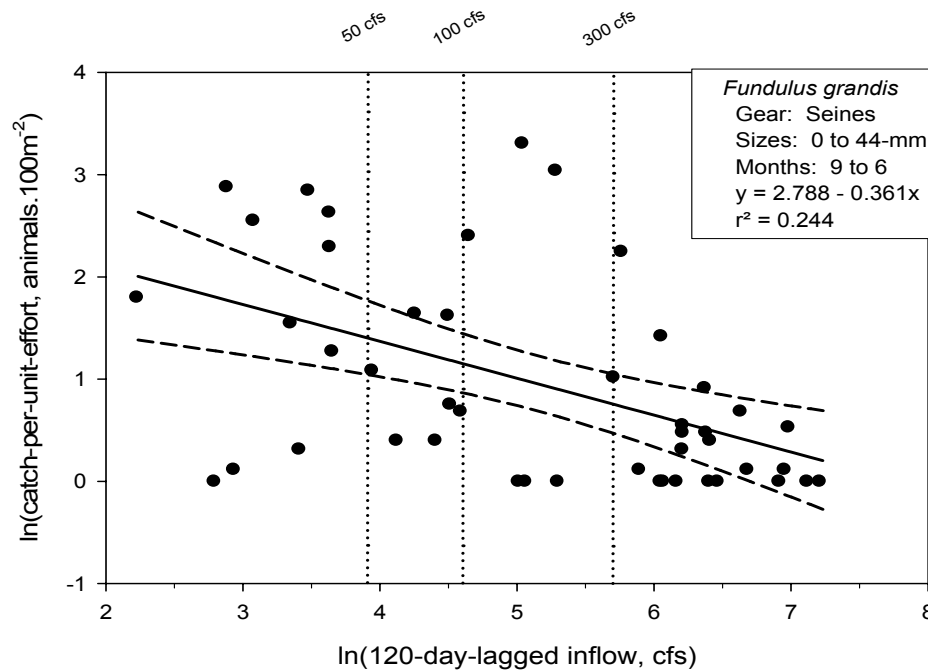


Fig. I12. Abundance ($\bar{N}$) response of smaller (< 45 -mm SL) *Fundulus grandis* collected nearshore in the Hillsborough River estuary to 120-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

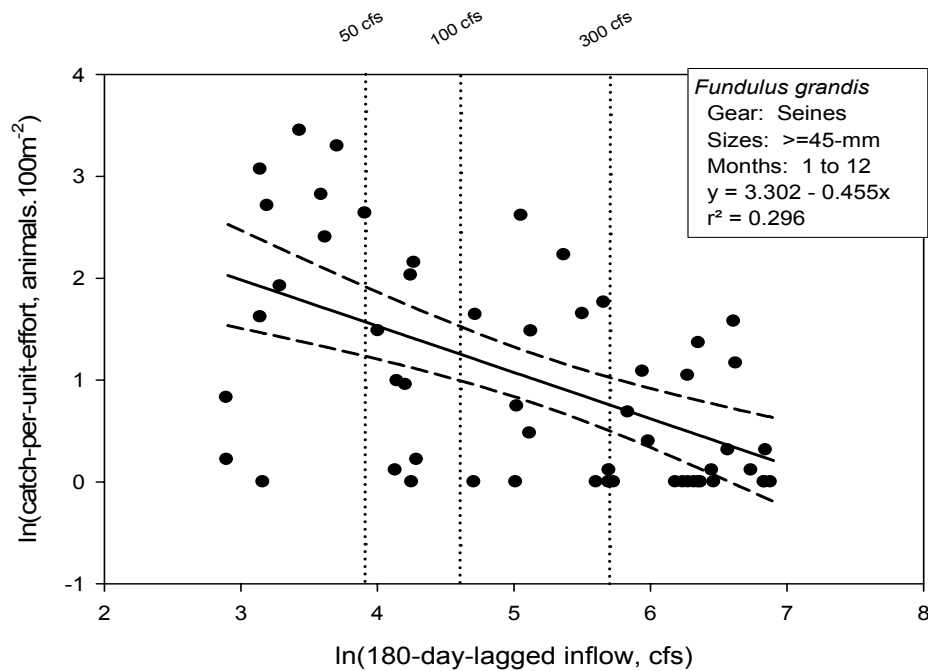


Fig. I13. Abundance ($\bar{N}$) response of larger (≥ 45 -mm SL) *Fundulus grandis* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

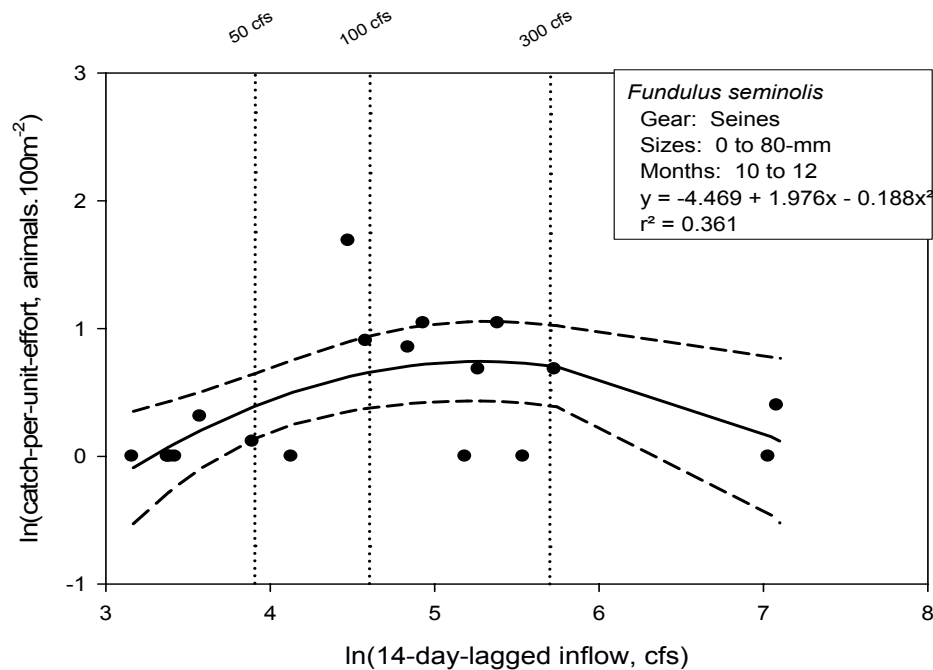


Fig. I14. Abundance ($\bar{N}$) response of *Fundulus seminolis* collected nearshore in the Hillsborough River estuary to 14-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

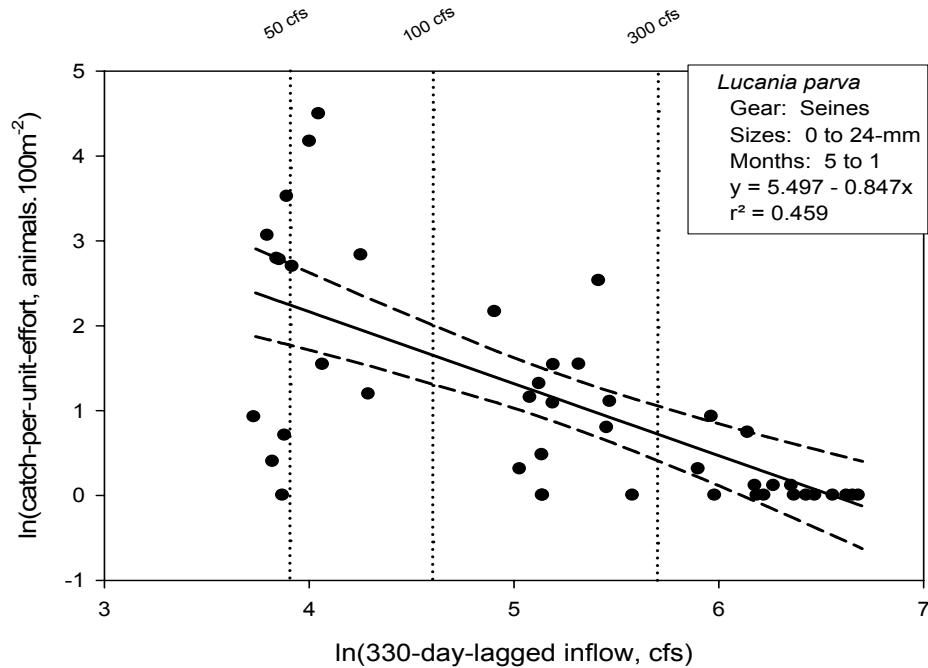


Fig. I15. Abundance ($\bar{N}$) response of smaller (<25-mm SL) *Lucania parva* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

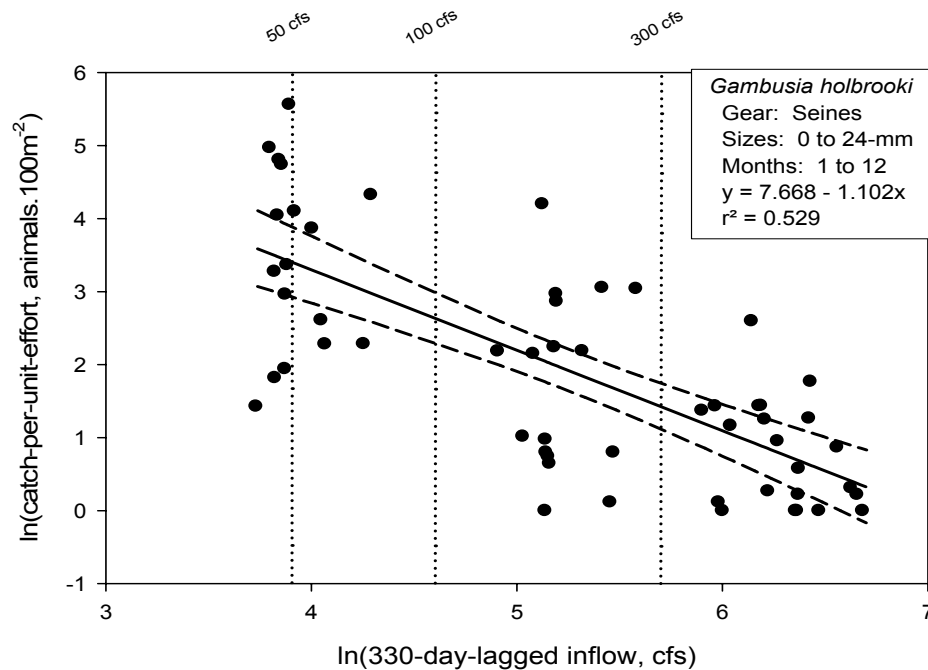


Fig. I16. Abundance ($\bar{N}$) response of smaller (<25-mm SL) *Gambusia holbrooki* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

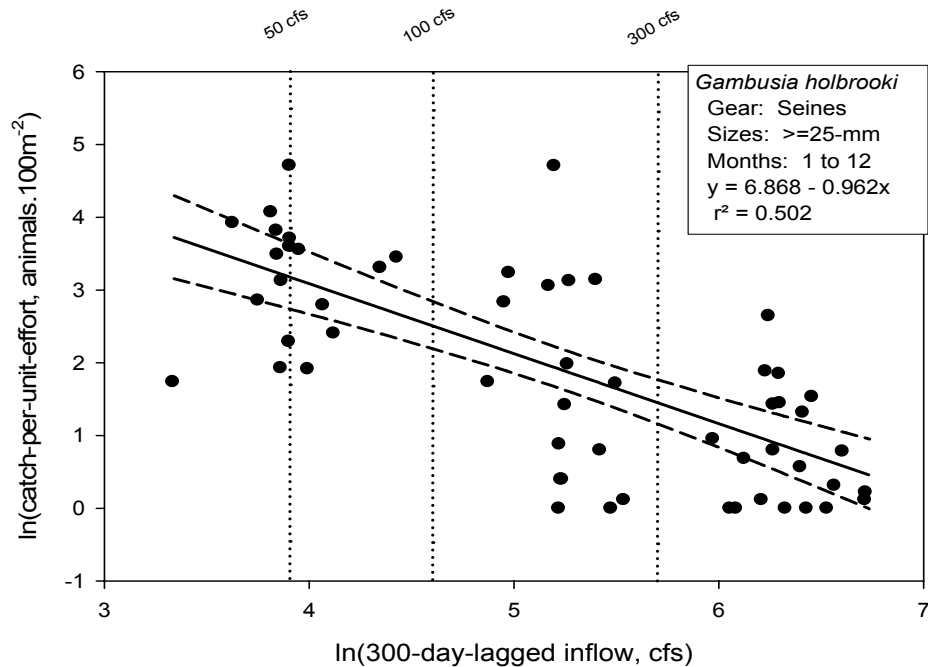


Fig. I17. Abundance ($\bar{N}$) response of smaller (≥ 35 -mm SL) *Gambusia holbrooki* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

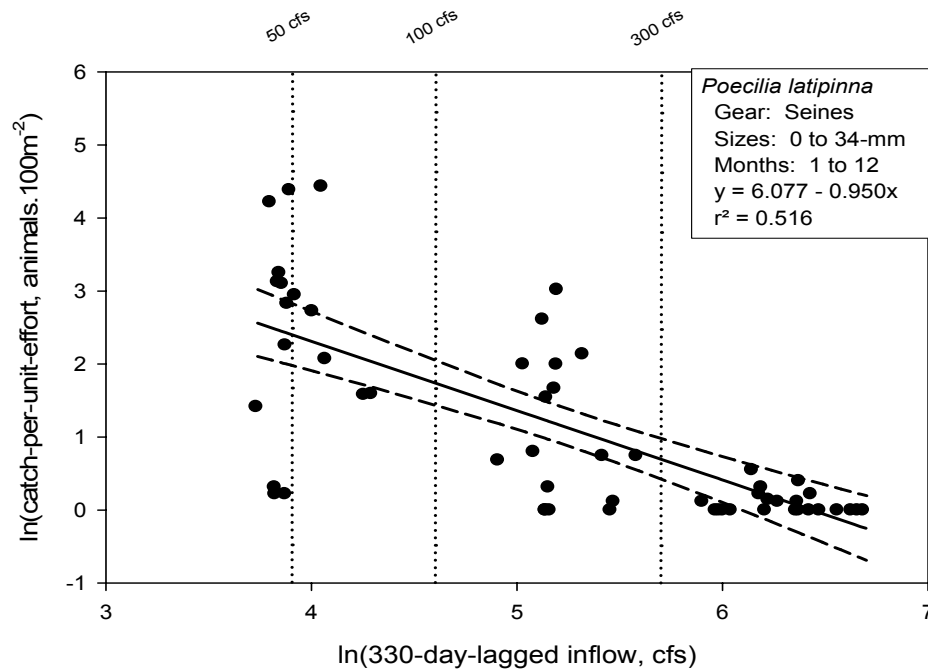


Fig. I18. Abundance ($\bar{N}$) response of smaller (< 35 -mm SL) *Poecilia latipinna* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

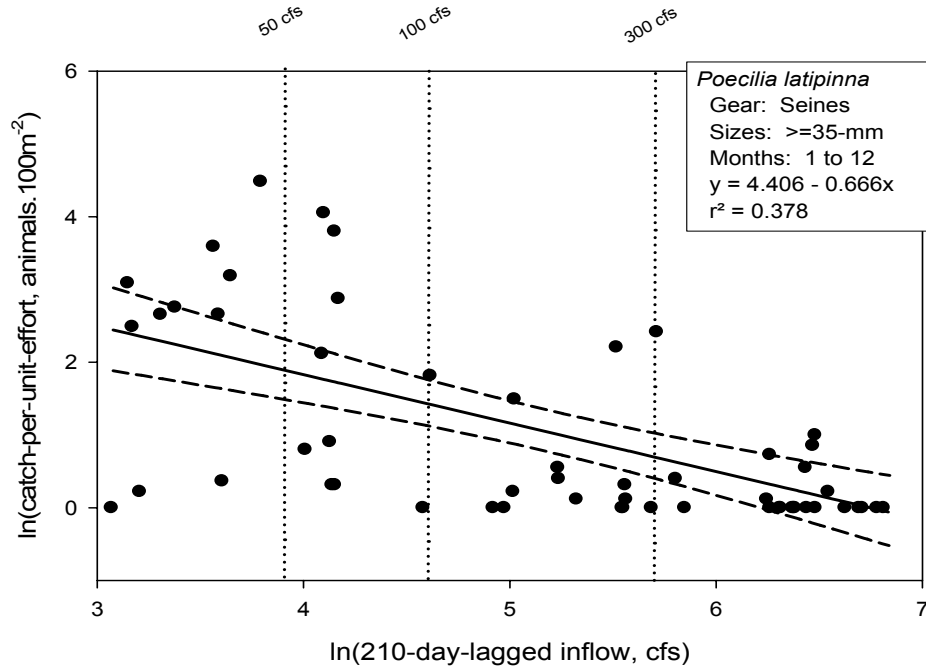


Fig. I19. Abundance ($\bar{N}$) response of smaller (≥ 35 -mm SL) *Poecilia latipinna* collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

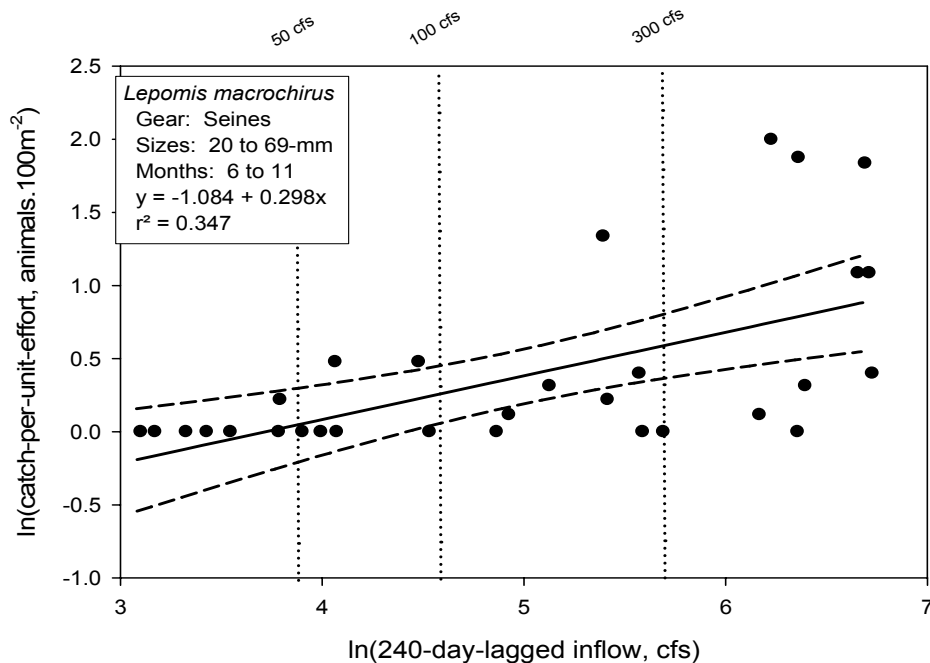


Fig. I20. Abundance ($\bar{N}$) response of mid-sized (20 to 69-mm SL) *Lepomis macrochirus* collected nearshore in the Hillsborough River estuary to 240-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

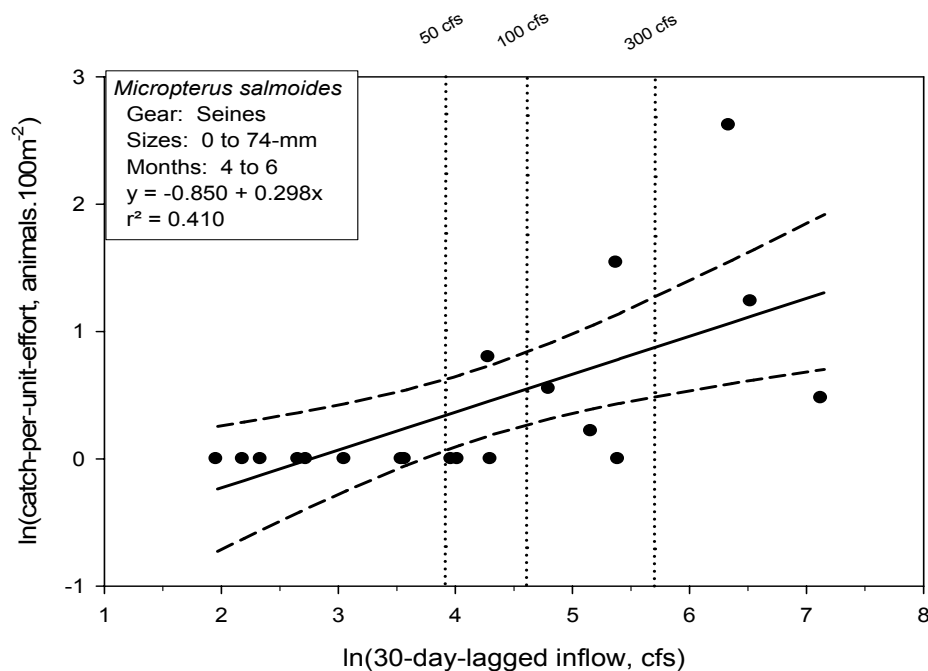


Fig. I21. Abundance ($\bar{N}$) response of *Micropterus salmoides* collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

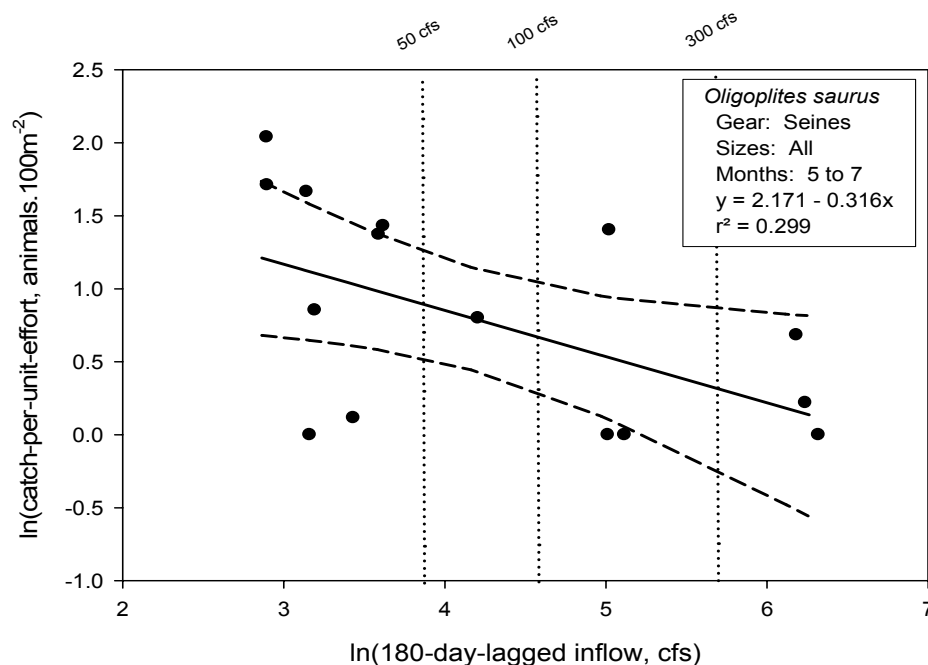


Fig. I22. Abundance ($\bar{N}$) response of *Oligoplites saurus* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

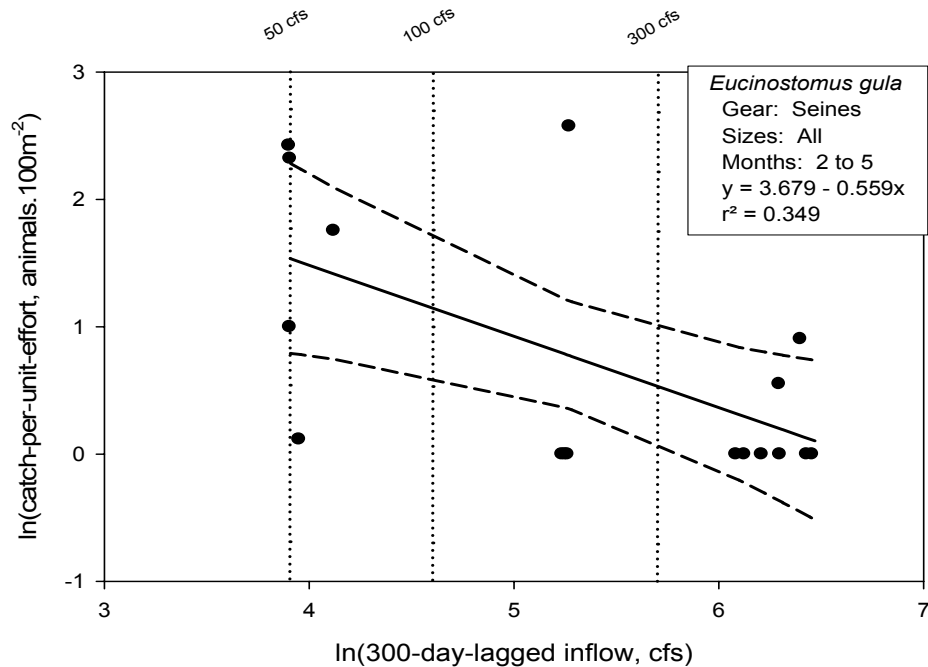


Fig. I23. Abundance ($\bar{N}$) response of *Eucinostomus gula* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

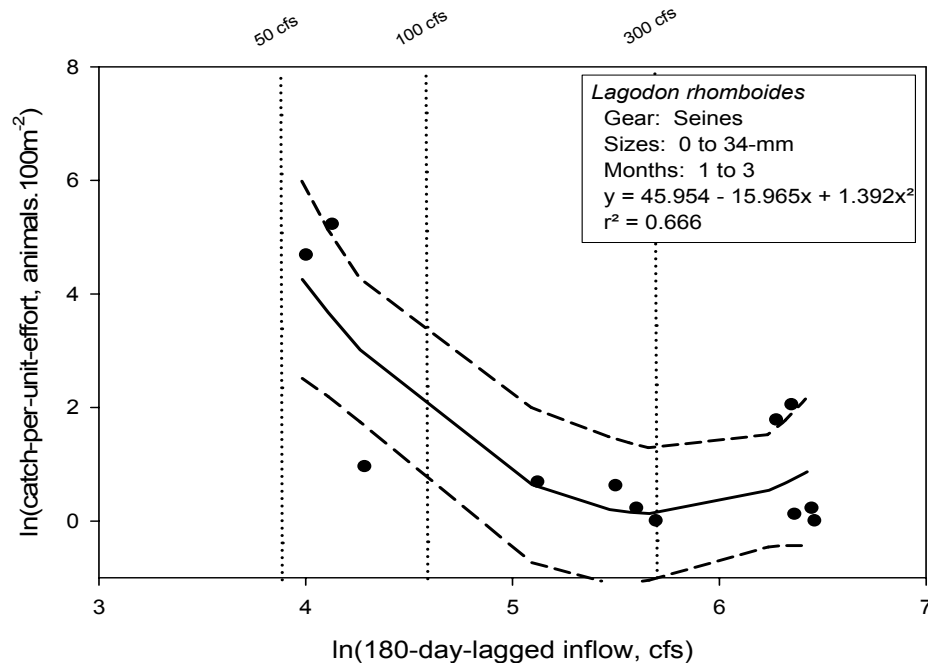


Fig. I24. Abundance ($\bar{N}$) response of smaller (<35-mm SL) *Lagodon rhomboides* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

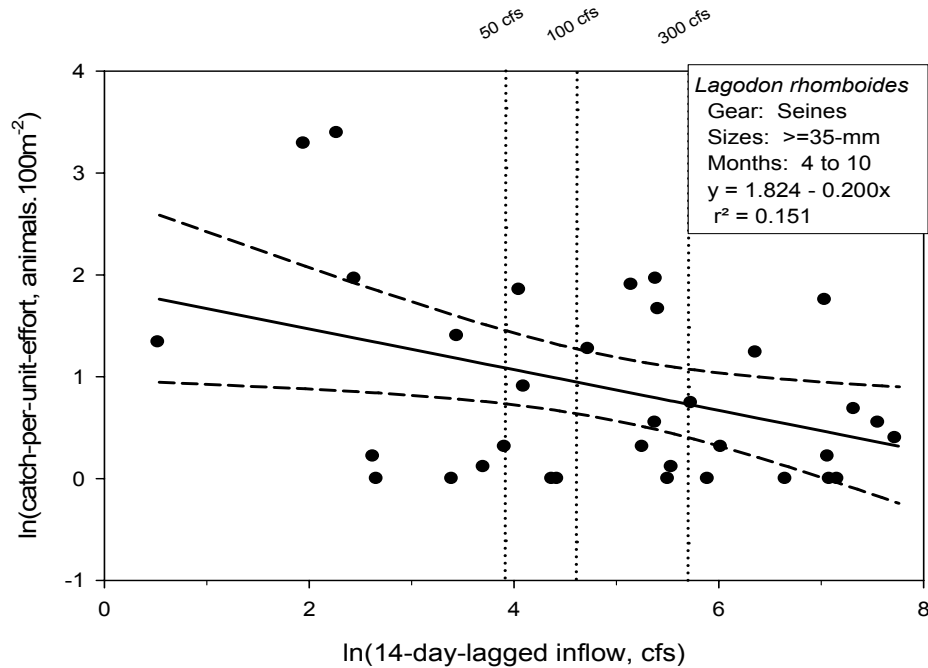


Fig. I25. Abundance ($\bar{N}$) response of larger (≥ 35 -mm SL) *Lagodon rhomboides* collected nearshore in the Hillsborough River estuary to 14-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

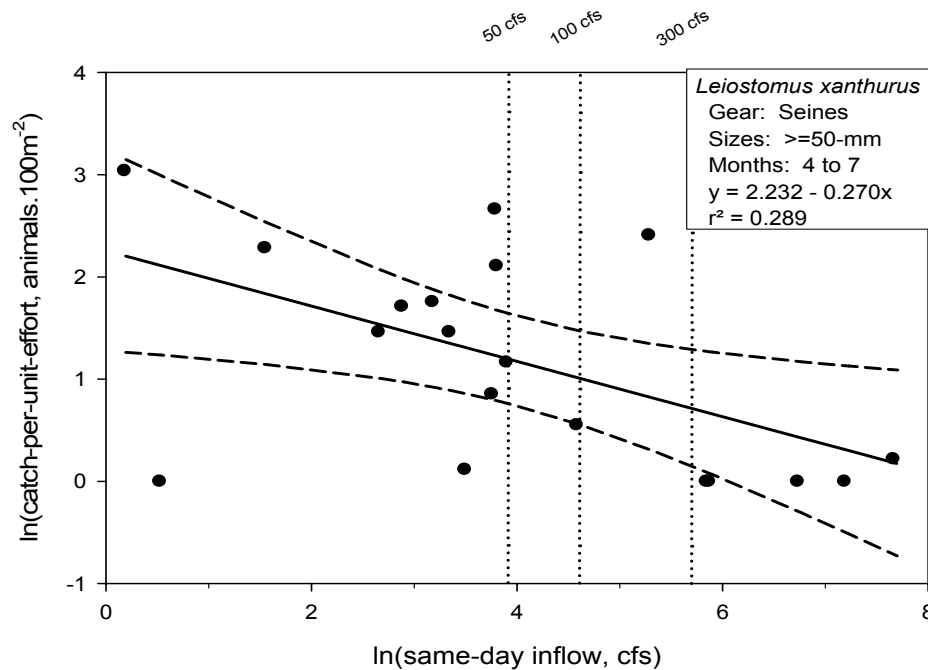


Fig. I26. Abundance ($\bar{N}$) response of larger (≥ 35 -mm SL) *Leiostomus xanthurus* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

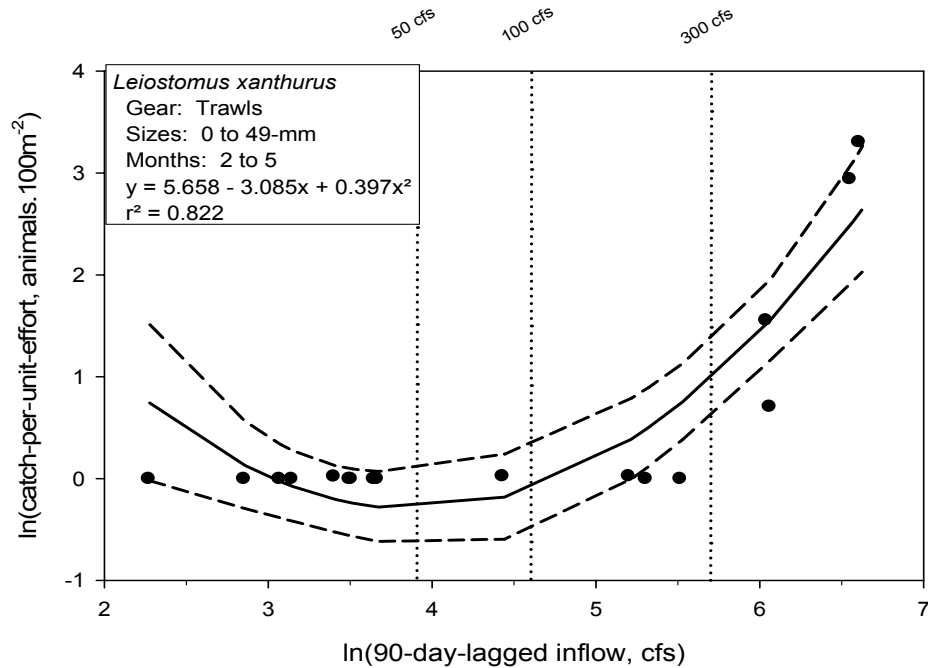


Fig. I27. Abundance ($\bar{N}$) response of smaller (<50-mm SL) *Leiosomus xanthurus* collected in the channel of the Hillsborough River estuary to 90-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

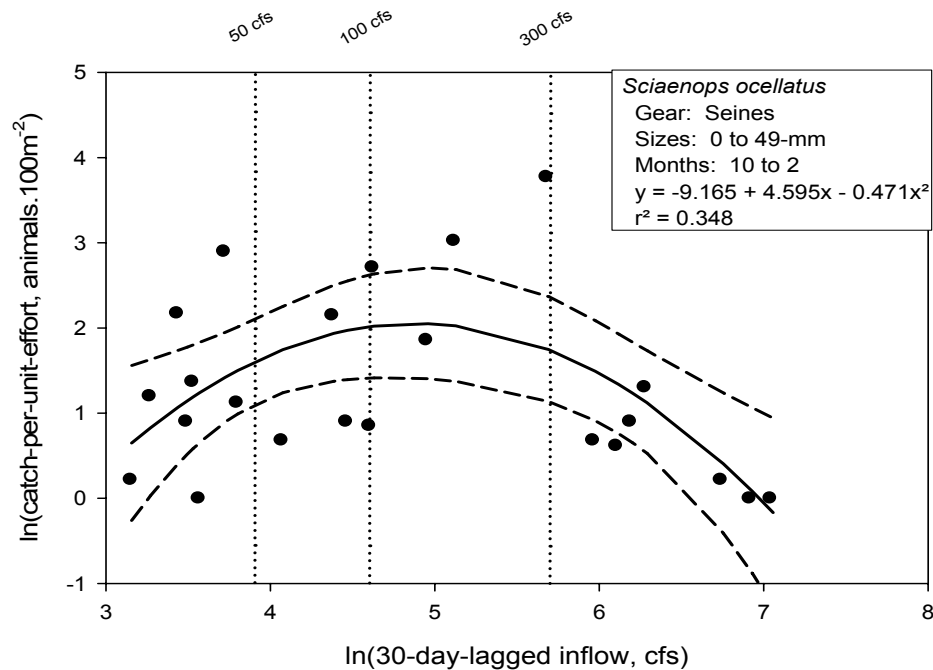


Fig. I28. Abundance ($\bar{N}$) response of smaller (<50-mm SL) *Sciaenops ocellatus* collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

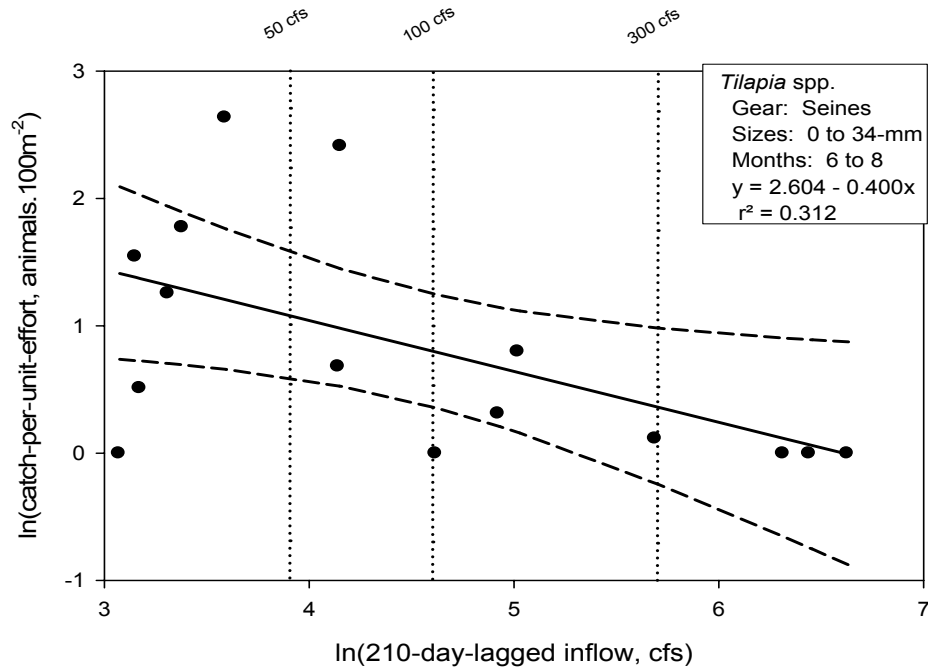


Fig. I29. Abundance ($\bar{N}$) response of smaller (<35-mm SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

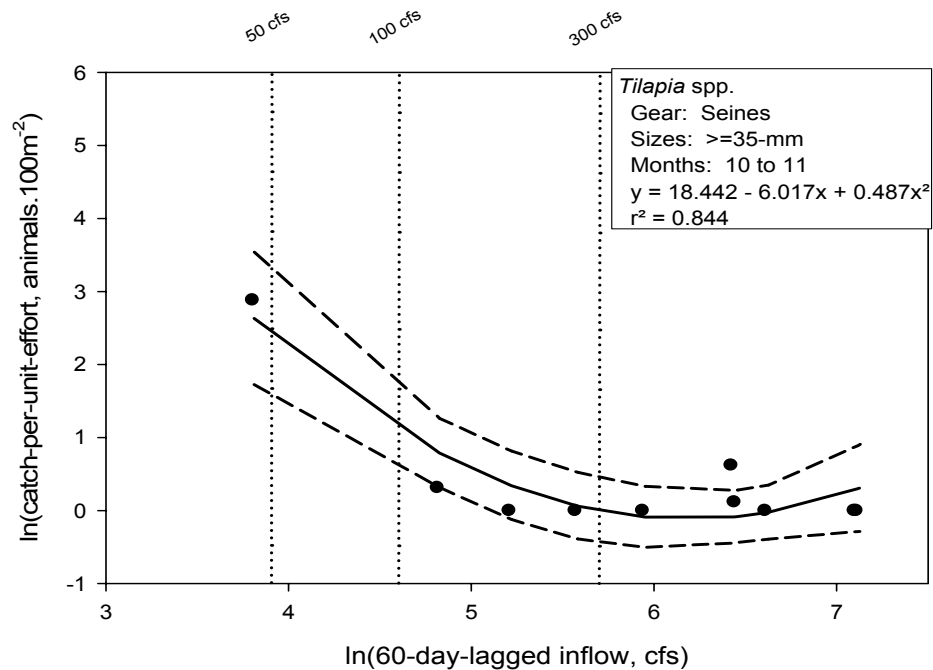


Fig. I30. Abundance ($\bar{N}$) response of larger (≥35-mm SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

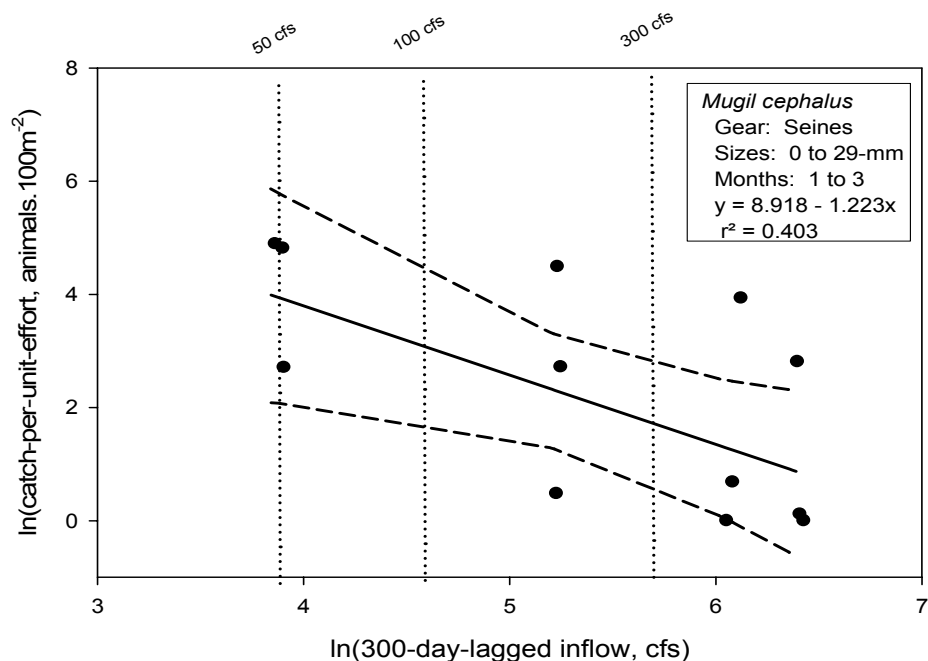


Fig. I31. Abundance ($\bar{N}$) response of smaller (<30-mm SL) *Mugil cephalus* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

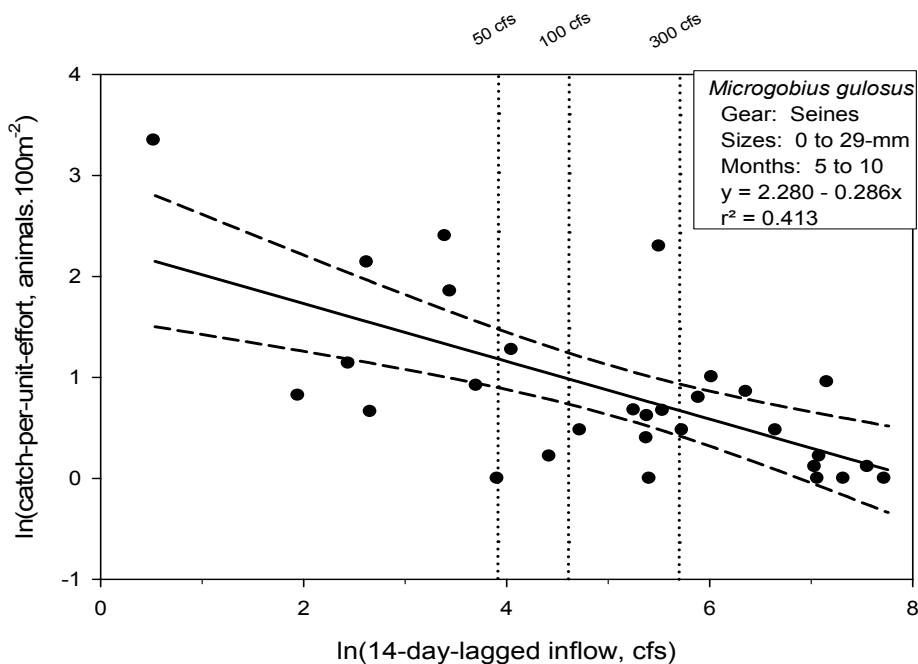


Fig. I32. Abundance ($\bar{N}$) response of smaller (<30-mm SL) *Microgobius gulosus* collected nearshore in the Hillsborough River estuary to 14-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

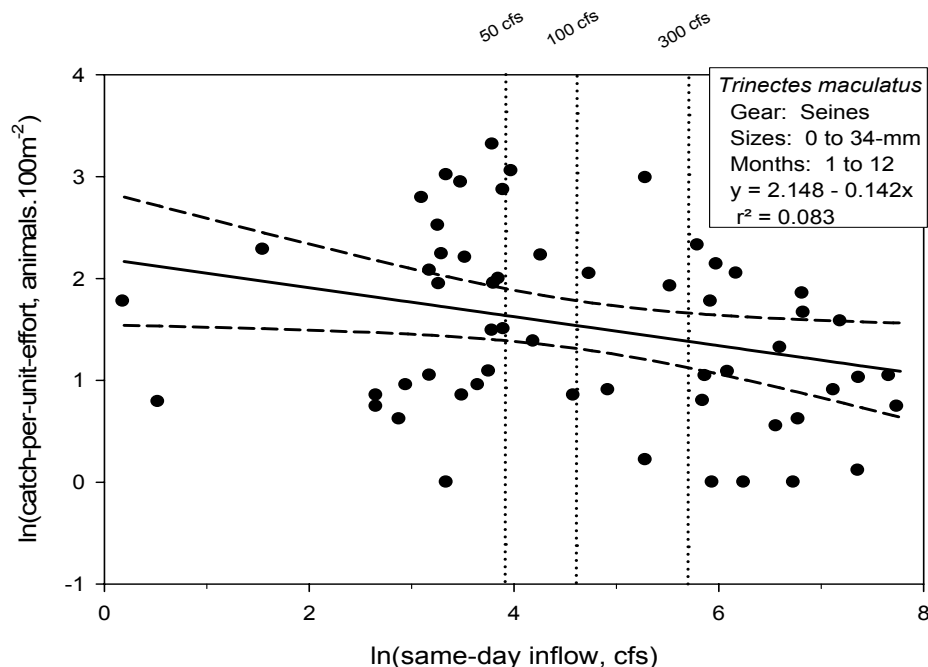


Fig. I33. Abundance ($\bar{N}$) response of smaller (<35 -mm SL) *Trinetes maculatus* collected nearshore in the Hillsborough River estuary to same-day inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

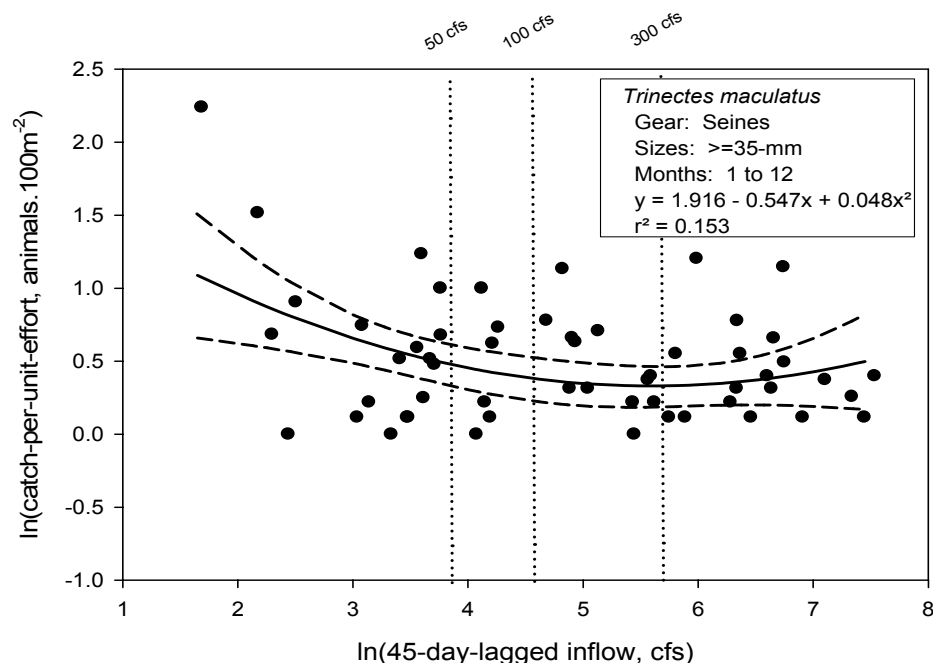


Fig. I34. Abundance ($\bar{N}$) response of larger (≥ 35 -mm SL) *Trinetes maculatus* collected nearshore in the Hillsborough River estuary to 45-day-lagged inflow. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

Appendix J:
Regressions of abundance responses to gauged inflows

Table J1. Plankton-net abundance responses to Ln-transformed mean gaged freshwater inflow (Hillsborough dam+Sulphur Springs+diversions from Sulphur Sprigs to dam base), ranked by linear regression slope. Other regression statistics are sample size (*n*), intercept (*Int.*), slope probability (*P*) and fit (*r*², as %). *DW* identifies where serial correlation is possible (x indicates *p*<0.05 for Durbin-Watson statistic). *D* is the number of daily inflow values used to calculate mean freshwater inflow.

<i>Description</i>	<i>Common Name</i>	<i>n</i>	<i>Int.</i>	<i>Slope</i>	<i>P</i>	<i>r2</i>	<i>DW</i>	<i>D</i>
<i>Latona setifera</i>	water flea	14	0.540	1.593	0.003	54		120
ephemeropteran larvae	mayflies	22	1.889	1.362	0.000	65		40
dipterans, pupae	flies, mosquitoes	40	4.283	1.313	0.000	74		3
<i>Simocephalus vetulus</i>	water flea	26	5.214	0.931	0.000	47		5
trichopteran larvae	caddisflies	16	4.127	0.880	0.004	47		26
dipteran, <i>Chaoborus punctipennis</i>	phantom midge	34	7.891	0.839	0.000	41	x	7
dipterans, chironomid larvae	midges	47	6.740	0.822	0.000	53	x	30
<i>Ilyocryptus</i> sp.	water flea	22	5.945	0.782	0.028	22		10
oligochaetes	freshwater worms	31	5.954	0.735	0.000	56		1
<i>Cassidinidea ovalis</i>	isopod	35	6.378	0.714	0.001	29	x	120
<i>Sida crystallina</i>	water flea	19	6.419	0.590	0.013	31		1
acari	water mites	20	5.615	0.575	0.002	43	x	1
odonates, zygopteran larvae	damselflies	20	6.049	0.428	0.001	45		33
ostracods, podocopid	ostracods, seed shrimps	40	7.683	0.380	0.000	36	x	5
hirudinoideans	leeches	26	6.714	0.323	0.000	44		35
<i>Trinectes maculatus</i> juveniles	hogchoker	29	7.862	0.298	0.035	15		45
polychaetes	sand worms, tube worms	57	11.915	0.270	0.006	13		5
<i>Menidia</i> spp. flexion larvae	silversides	11	6.813	0.266	0.004	62		100
<i>Sphaeroma terebrans</i>	isopod	25	7.521	0.262	0.036	18		88
<i>Menidia</i> spp. preflexion larvae	silversides	38	8.154	0.240	0.007	18	x	1
<i>Anchoa mitchilli</i> adults	bay anchovy	46	8.571	0.234	0.010	14		11
pelecypods	clams, mussels, oysters	49	10.996	-0.278	0.014	12		120
amphipods, gammaridean	amphipods	57	14.968	-0.304	0.026	9		76
coleopterans, curculionid adults	beetles	10	9.776	-0.314	0.012	57		1
<i>Palaemonetes pugio</i> juveniles	daggerblade grass shrimp	46	11.681	-0.318	0.007	15	x	120
<i>Anchoa mitchilli</i> juveniles	bay anchovy	57	15.517	-0.335	0.002	16	x	1
<i>Parasterope pollex</i>	ostracod, seed shrimp	21	10.904	-0.340	0.019	26		1
decapod megalopae	post-zoea crab larvae	45	14.372	-0.346	0.049	9	x	1
<i>Microgobius</i> spp. flexion larvae	gobies	31	11.265	-0.383	0.004	26		7
<i>Brevoortia</i> spp. postflexion larvae	menhaden	10	10.737	-0.400	0.027	48	x	1
blenniid preflexion larvae	blennies	25	11.128	-0.424	0.044	17		1
Gobiesox strumosus preflexion larvae	skilletfish	25	11.797	-0.483	0.039	17		23
decapod mysis	shrimp larvae	55	15.375	-0.483	0.000	28		31
<i>Palaemonetes</i> spp. postlarvae	grass shrimp	44	13.735	-0.484	0.004	18	x	51

Table J1. (cont.)

<i>Description</i>	<i>Common Name</i>	<i>n</i>	<i>Int.</i>	<i>Slope</i>	<i>P</i>	<i>r2</i>	<i>DW</i>	<i>D</i>
gobiid preflexion larvae	gobies	40	13.690	-0.534	0.001	24	x	1
<i>Gobiosoma</i> spp. postflexion larvae	gobies	35	14.214	-0.537	0.043	12	x	1
cirriped nauplius stage	barnacles	13	11.710	-0.538	0.034	35		1
<i>Anchoa mitchilli</i> postflexion larvae	bay anchovy	25	12.809	-0.542	0.032	19		1
alpheid postlarvae	snapping shrimps	22	13.065	-0.587	0.027	22		26
<i>Petrolisthes armatus</i> juveniles	porcelain crab	18	13.331	-0.628	0.008	36		120
<i>Limulus polyphemus</i> larvae	horseshoe crab	17	11.687	-0.636	0.027	28		117
decapod zoeae	crab larvae	51	19.899	-0.671	0.001	21	x	35
<i>Labidocera aestiva</i>	copepod	39	15.205	-0.729	0.006	18	x	1
gobiid flexion larvae	gobies	39	14.693	-0.783	0.000	42		6
chaetognaths, sagittid	arrow worms	47	16.460	-0.808	0.000	32	x	30
cymothoid sp. a (<i>Lironeca</i>) juveniles	isopod	50	15.703	-0.811	0.000	64	x	2
<i>Acartia tonsa</i>	copepod	40	17.064	-0.976	0.004	20		1
<i>Clytia</i> sp.	hydromedusa	31	20.236	-1.418	0.000	63		66

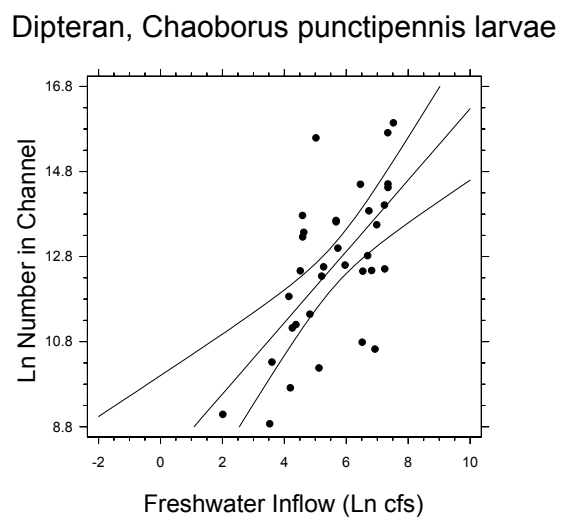
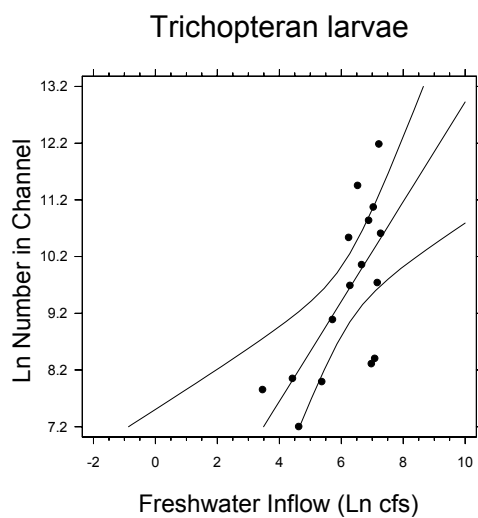
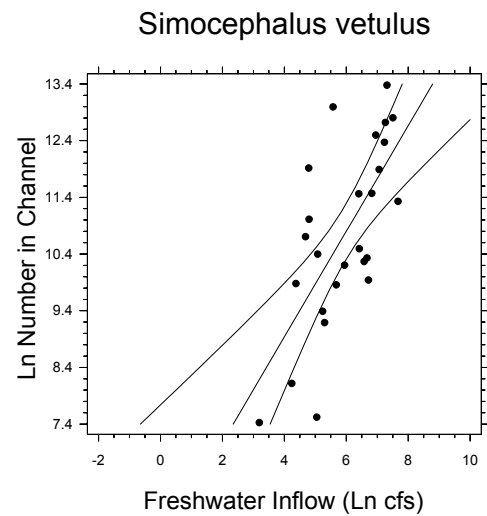
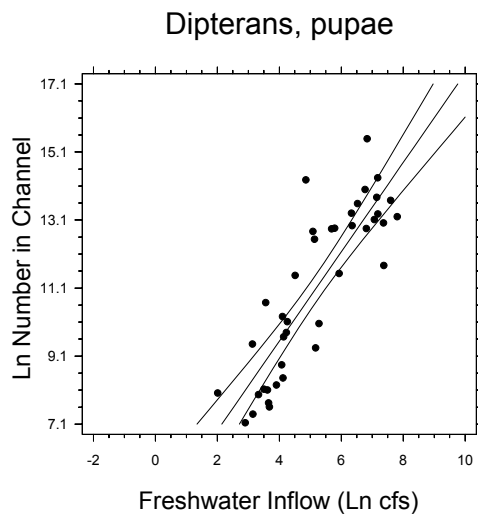
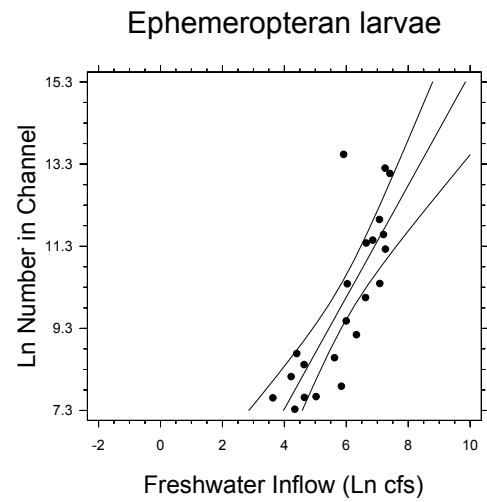
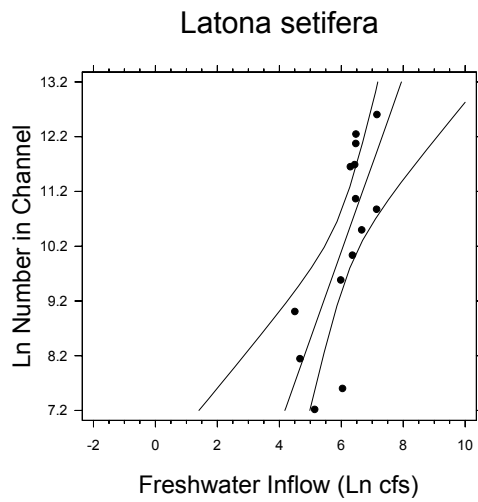
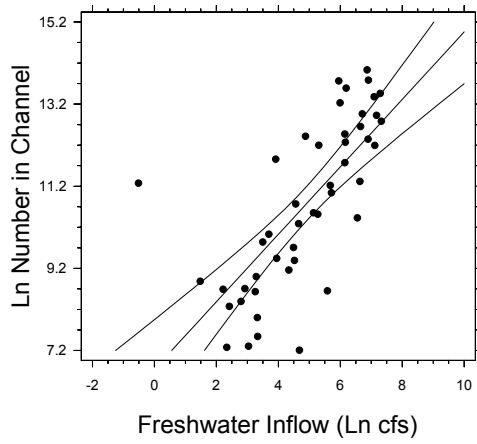
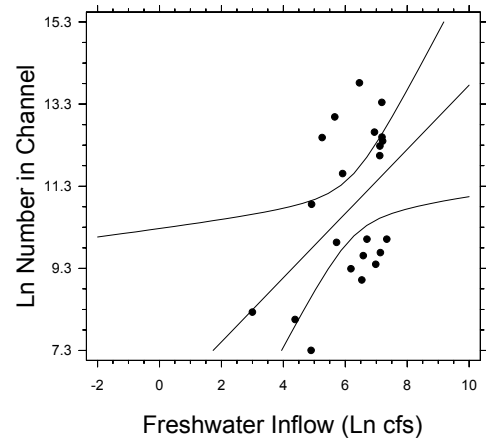


Fig. J1. Plots of regressions in Table J1.

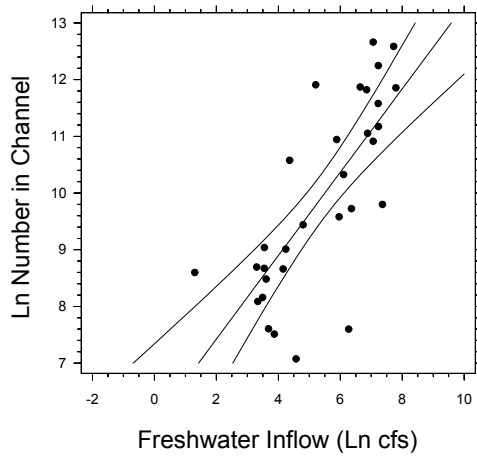
Dipterans, chironomid larvae



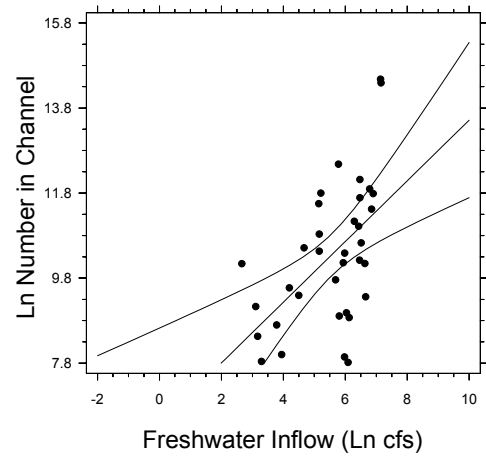
Ilyocryptus sp.



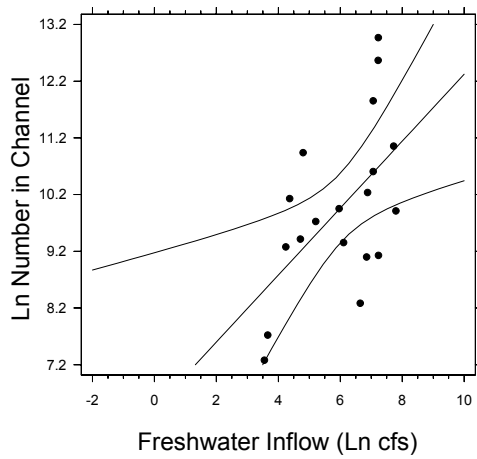
Oligochaetes



Cassinidea ovalis



Sida crystallina



Acari

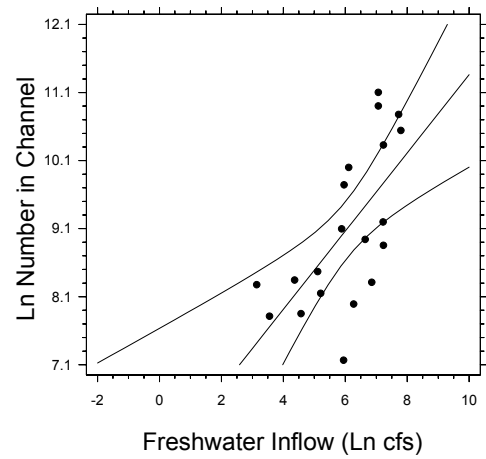


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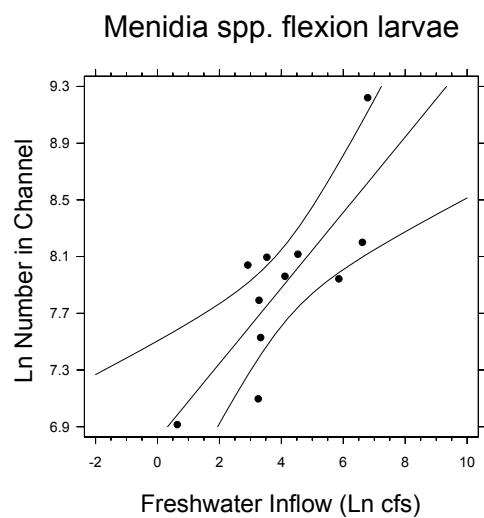
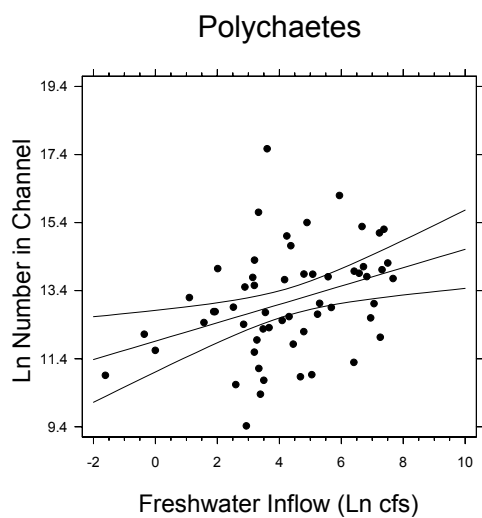
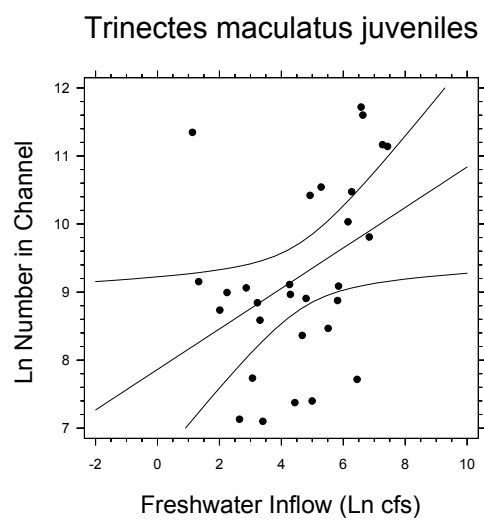
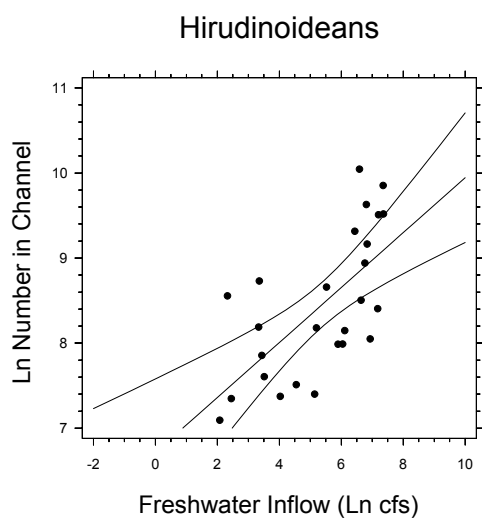
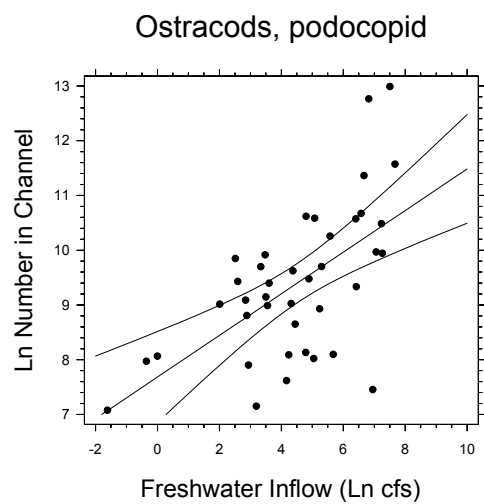
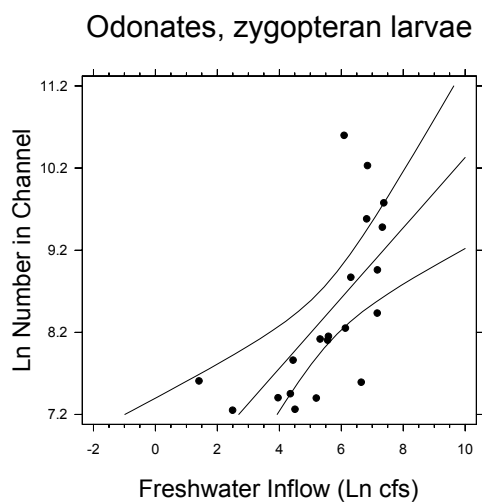


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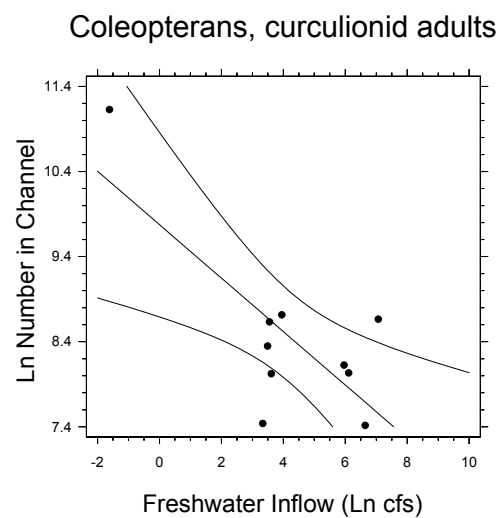
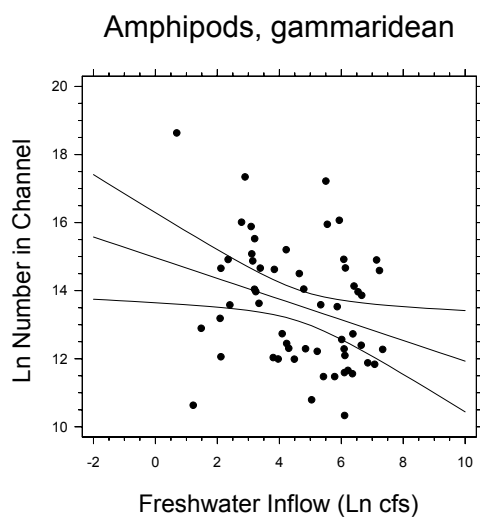
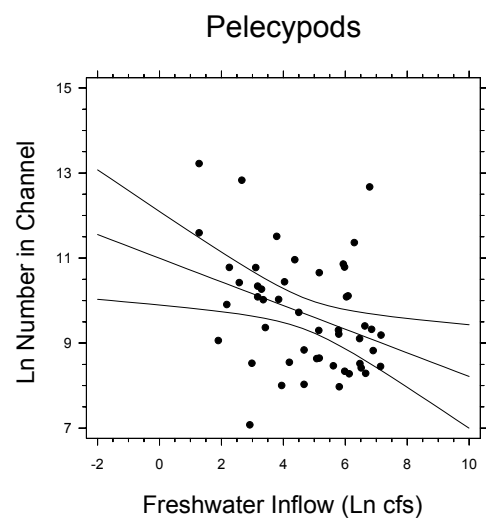
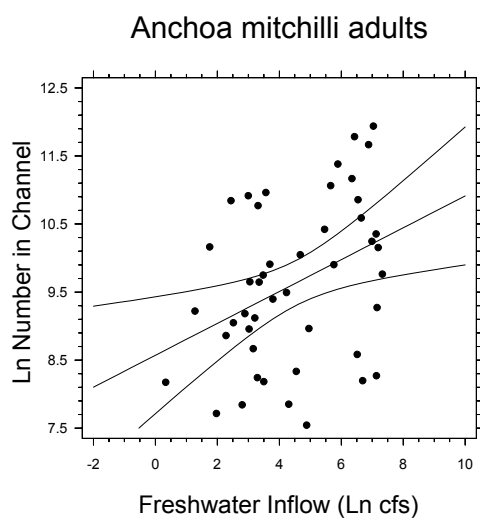
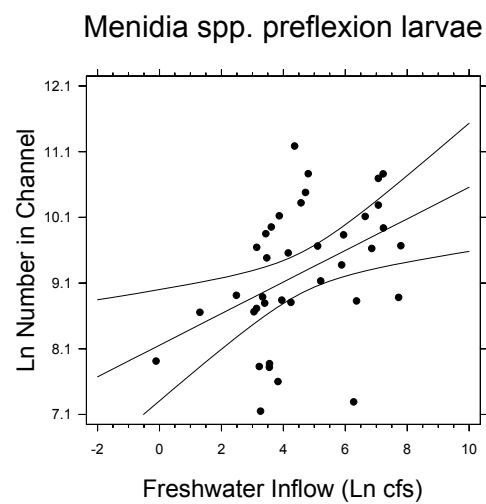
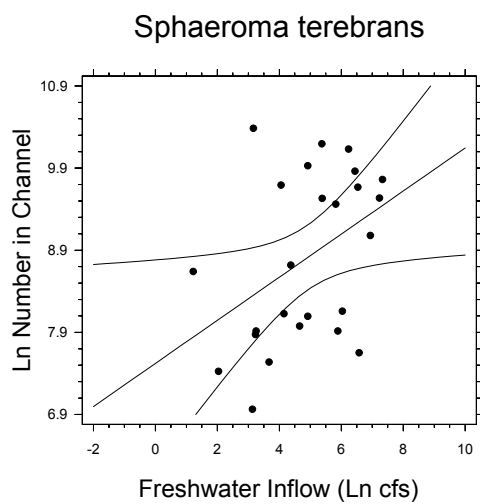


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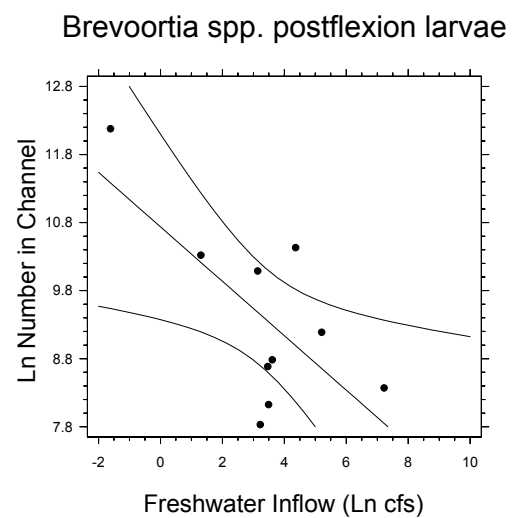
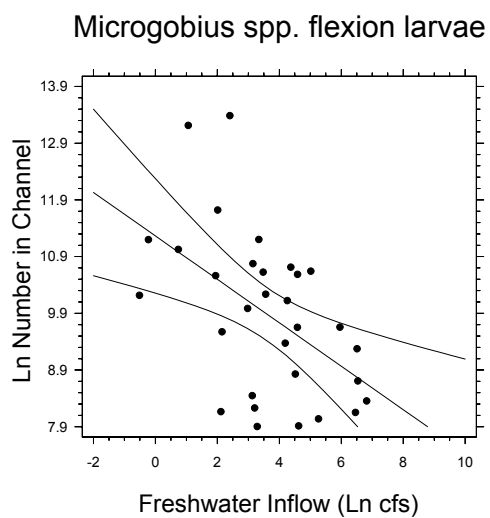
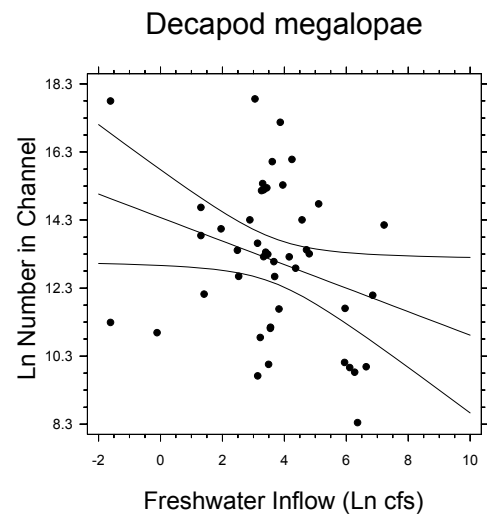
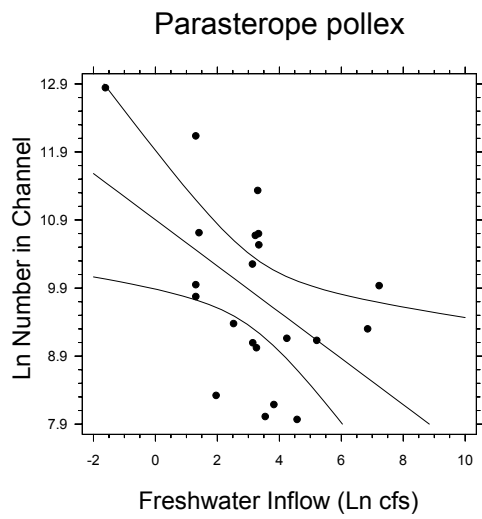
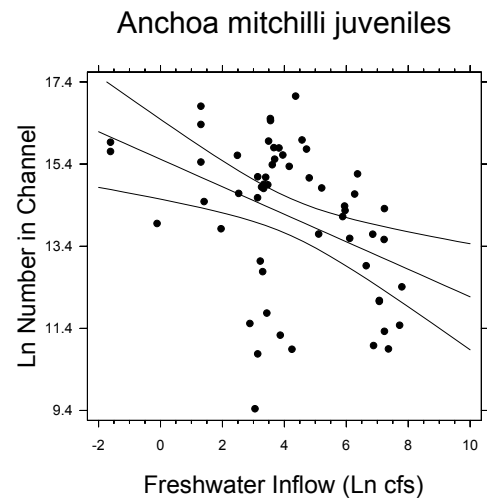
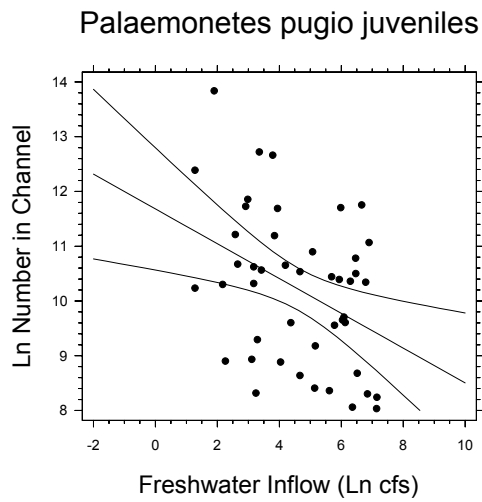
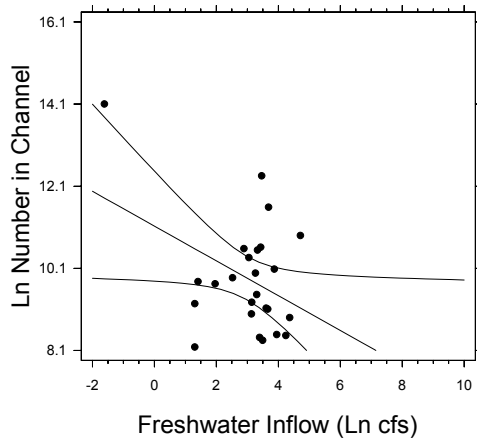
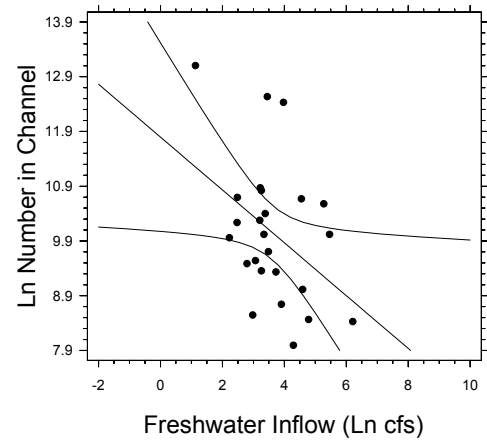


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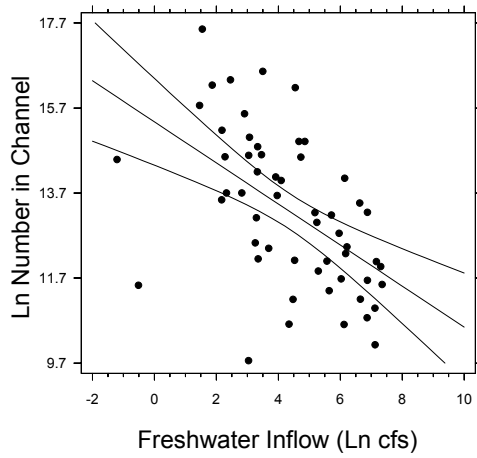
Blenniid preflexion larvae



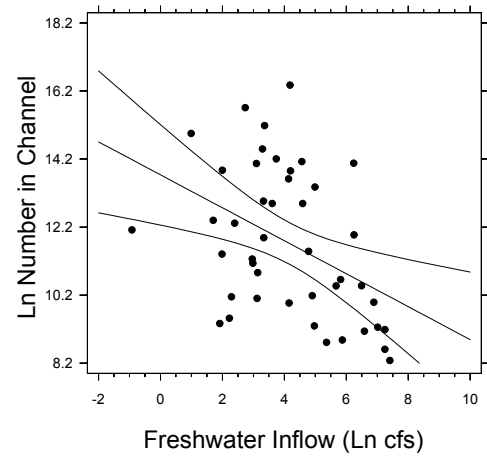
Gobiesox strumosus preflexion larvae



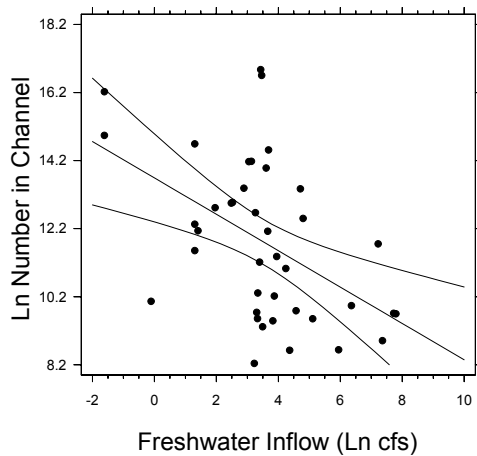
Decapod mysis



Palaemonetes spp. postlarvae



Gobiid preflexion larvae



Gobiosoma spp. postflexion larvae

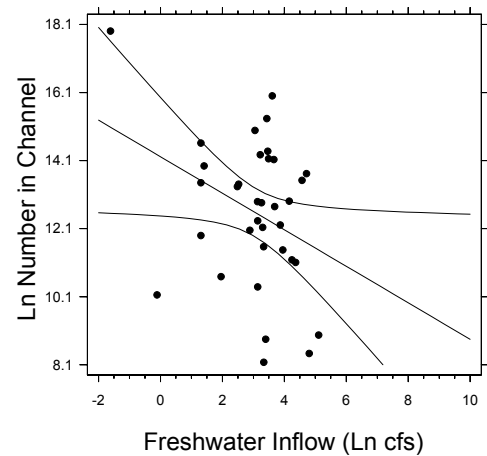
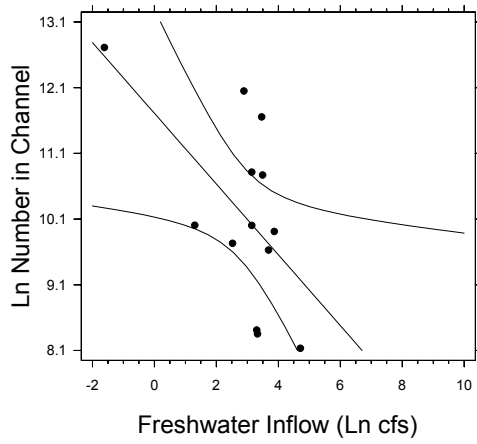
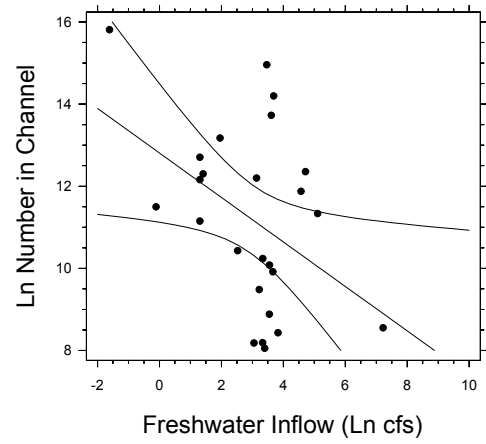


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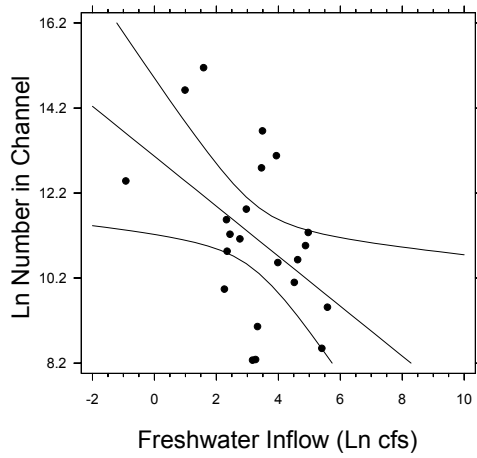
Cirriped nauplius stage



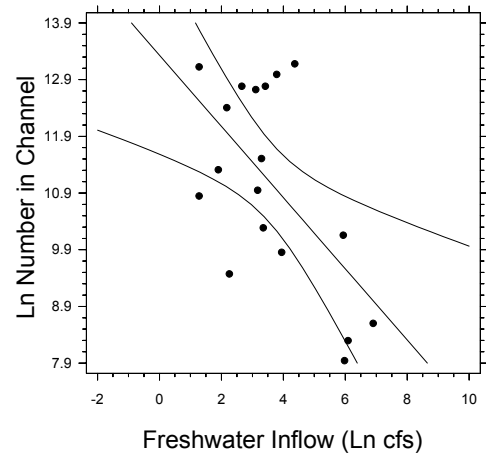
Anchoa mitchilli postflexion larvae



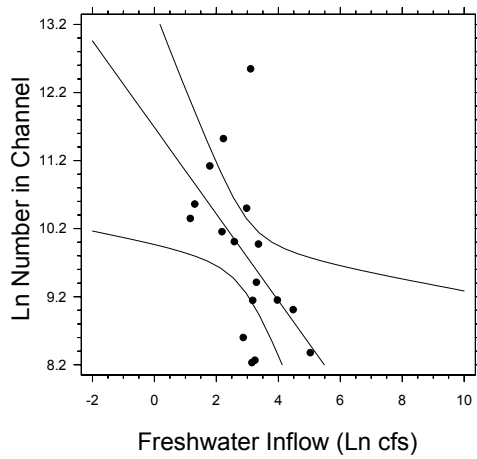
Alpheid postlarvae



Petrolisthes armatus juveniles



Limulus polyphemus larvae



Decapod zoeae

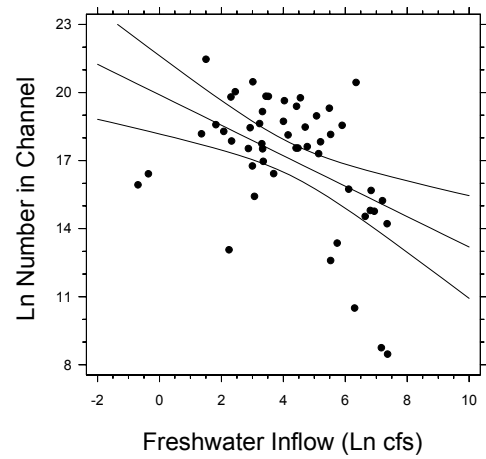


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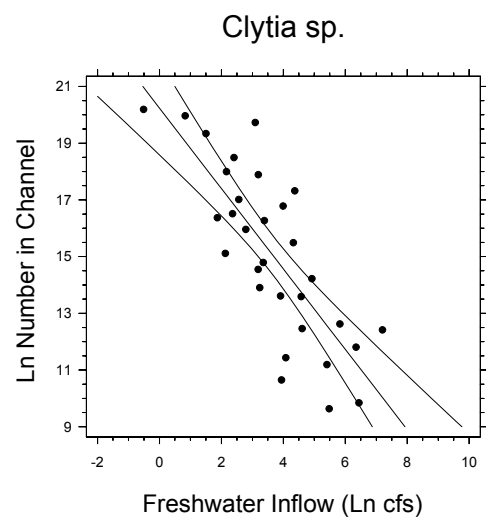
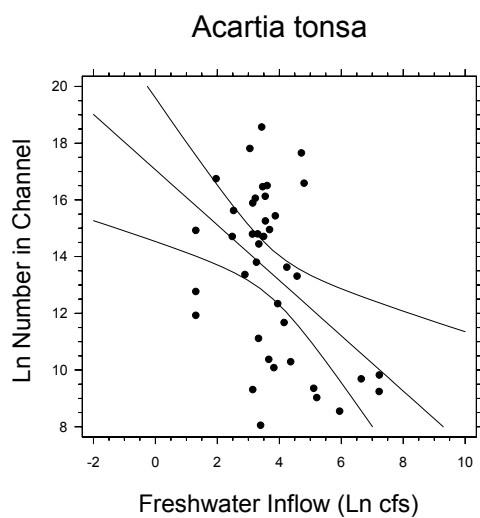
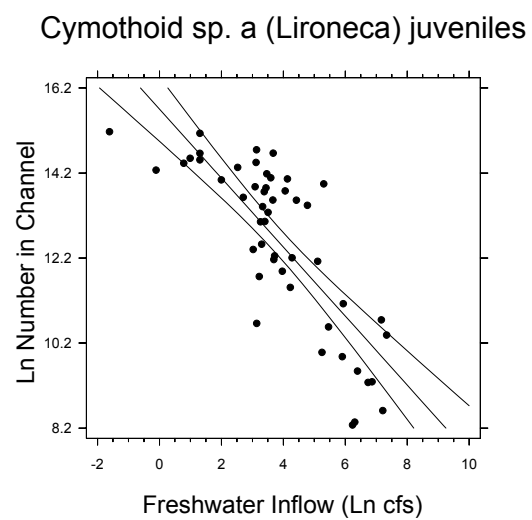
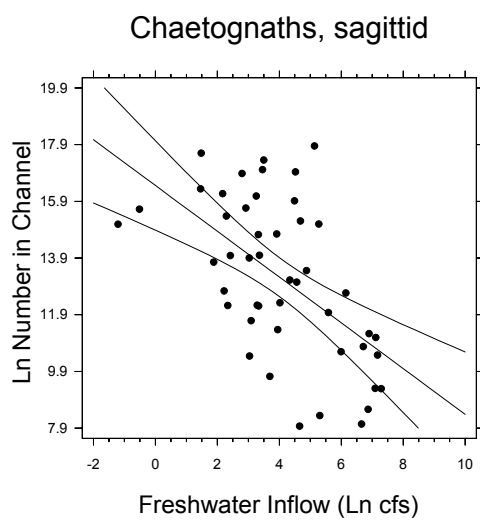
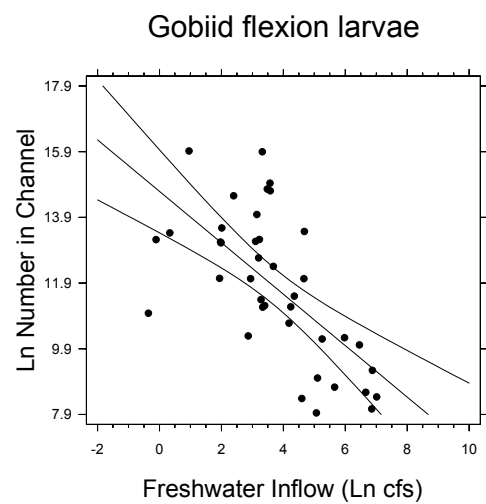
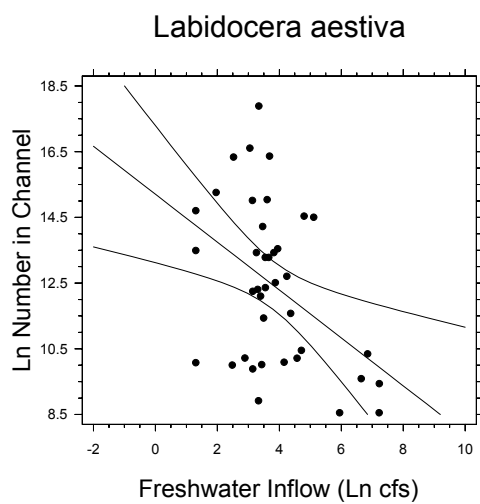


Fig. J1 (cont.).

Table J2. Best-fit seine and trawl-based pseudo-species abundance ($\bar{N}$) response to continuously-lagged mean gaged freshwater inflow [$\ln(\text{cpue})$ vs. $\ln(\text{inflow})$] for the Hillsborough river estuary (see Table J1). The type of response is either quadratic (Q) or Linear (L). Degrees of freedom (df), intercept, slope (*Linear coef.*), probability that the slope is significant (*Linear P*), quadratic coefficient (*Quad. coef.*), probability that the quadratic coefficient is significant (*Quad. P*), and fit (r^2) are provided. The number of days in the continuously-lagged mean inflow is represented by D. An "x" in DW indicates that the Durbin-Watson statistic was significant ($p < 0.05$), a possible indication that serial correlation was present.

Species	Gear	Size	Months	Response	df	Intercept	Linear coef.	Linear P	Quad. coef.	Quad. P	r^2	DW	D
<i>Palaemonetes pugio</i>	Seines	All	Jan. to Dec.	L	54	8.196	-1.014	0.000			0.254	x	330
<i>Brevoortia</i> spp.	Seines	<30-mm	Mar. to Jun.	L	16	4.239	-0.739	0.006			0.388		7
<i>Anchoa hepsetus</i>	Seines	<35-mm	Apr. to Jul.	L	17	6.316	-1.013	0.001			0.508		300
<i>Anchoa hepsetus</i>	Seines	≥35-mm	Jul. to Aug.	L	8	2.415	-0.345	0.000			0.933		1
<i>Anchoa mitchilli</i>	Seines	<25-mm	Jan. to Dec.	L	54	6.961	-0.821	0.000			0.275	x	30
<i>Anchoa mitchilli</i>	Seines	25 to 34-mm	Jan. to Dec.	L	54	8.298	-1.053	0.000			0.471	x	60
<i>Cyprinodon variegatus</i>	Seines	<30-mm	Jan. to Dec.	Q	53	-3.973	2.724	0.019	-0.326	0.007	0.356	x	360
<i>Fundulus majalis</i>	Seines	<35-mm	Jan. to Jun.	Q	23	-9.811	5.082	0.010	-0.564	0.006	0.377		360
<i>Fundulus majalis</i>	Seines	≥35-mm	Jan. to Jun.	L	24	1.775	-0.282	0.003			0.308	x	7
<i>Fundulus grandis</i>	Seines	<45-mm	Sep. to Jun.	L	44	2.544	-0.324	0.001			0.236	x	120
<i>Fundulus grandis</i>	Seines	≥45-mm	Jan. to Dec.	L	54	2.976	-0.407	0.000			0.308	x	180
<i>Fundulus seminolis</i>	Seines	<80-mm	Oct. to Dec.	Q	16	-4.103	1.883	0.007	-0.183	0.010	0.385		14
<i>Lucania parva</i>	Seines	<25-mm	May to Jan.	L	42	4.784	-0.735	0.000			0.451	x	330
<i>Gambusia holbrooki</i>	Seines	<25-mm	Jan. to Dec.	L	54	6.777	-0.964	0.000			0.537	x	330
<i>Gambusia holbrooki</i>	Seines	≥25-mm	Jan. to Dec.	L	54	6.088	-0.842	0.000			0.505		300
<i>Poecilia latipinna</i>	Seines	<35-mm	Jan. to Dec.	L	54	4.542	-0.693	0.000			0.502	x	210
<i>Poecilia latipinna</i>	Seines	≥35-mm	Jan. to Dec.	L	54	4.013	-0.612	0.000			0.408		210
<i>Lepomis macrochirus</i>	Seines	20 to 69-mm	Jun. to Nov.	L	28	-0.866	0.265	0.001			0.347	x	240
<i>Micropterus salmoides</i>	Seines	<75-mm	Apr. to Jun.	L	17	-0.356	0.203	0.006			0.367	x	7
<i>Oligoplites saurus</i>	Seines	All	May to Jul.	L	13	1.944	-0.284	0.021			0.345		150
<i>Eucinostomus gula</i>	Seines	All	Feb. to May	L	15	3.162	-0.478	0.012			0.352		300
<i>Lagodon rhomboides</i>	Seines	<35-mm	Jan. to Mar.	L	10	7.385	-1.115	0.019			0.439		180
<i>Leiostomus xanthurus</i>	Seines	<50-mm	Feb. to May	Q	14	41.752	-16.629	0.016	1.667	0.017	0.352	x	270
<i>Leiostomus xanthurus</i>	Seines	≥50-mm	Apr. to Jul.	L	17	1.957	-0.222	0.039			0.228		1
<i>Leiostomus xanthurus</i>	Trawls	<50-mm	Feb. to May	Q	14	4.761	-2.758	0.001	0.369	0.000	0.823	x	90
<i>Sciaenops ocellatus</i>	Seines	<50-mm	Oct. to Feb.	Q	20	-7.408	3.925	0.012	-0.407	0.009	0.322		45
<i>Tilapia</i> spp.	Seines	<35-mm	Jun. to Aug.	L	13	2.322	-0.355	0.030			0.313	x	210
<i>Tilapia</i> spp.	Seines	≥35-mm	Oct. to Nov.	Q	7	15.770	-5.244	0.006	0.432	0.009	0.816		60
<i>Mugil cephalus</i>	Seines	<30-mm	Jan. to Mar.	L	10	7.744	-1.024	0.027			0.400		270
<i>Microgobius gulosus</i>	Seines	<30-mm	May to Oct.	L	28	1.935	-0.231	0.000			0.366		7
<i>Trinectes maculatus</i>	Seines	≥35-mm	Jan. to Dec.	Q	53	1.328	-0.367	0.002	0.035	0.007	0.202		1

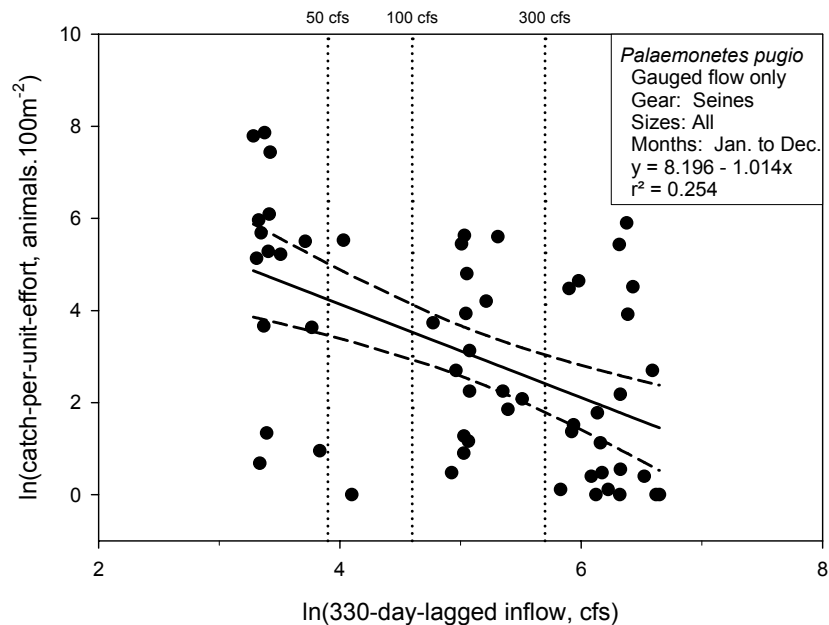


Figure J2. Abundance response of *Palaemonetes pugio* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

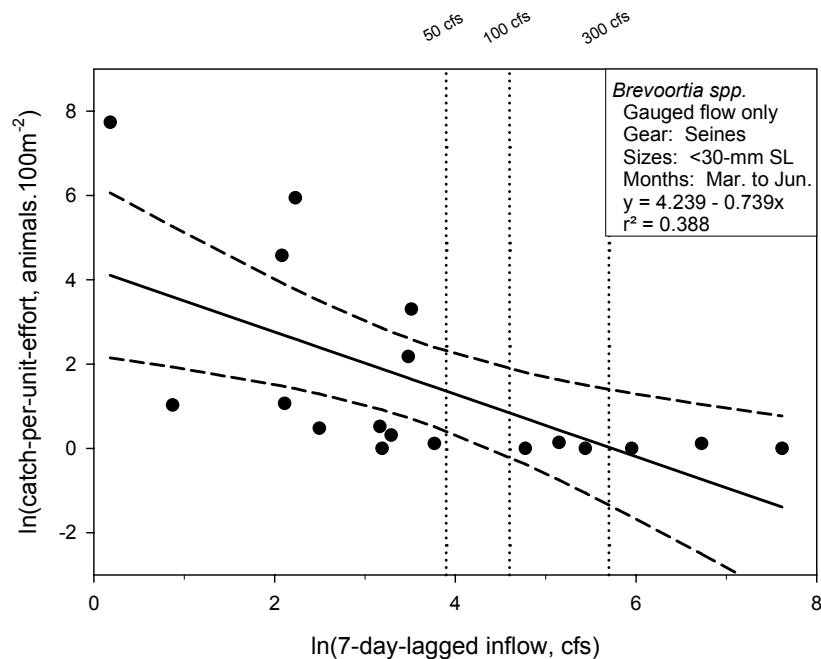


Figure J1. Abundance response of smaller (<30-mm SL) *Brevoortia* spp. collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

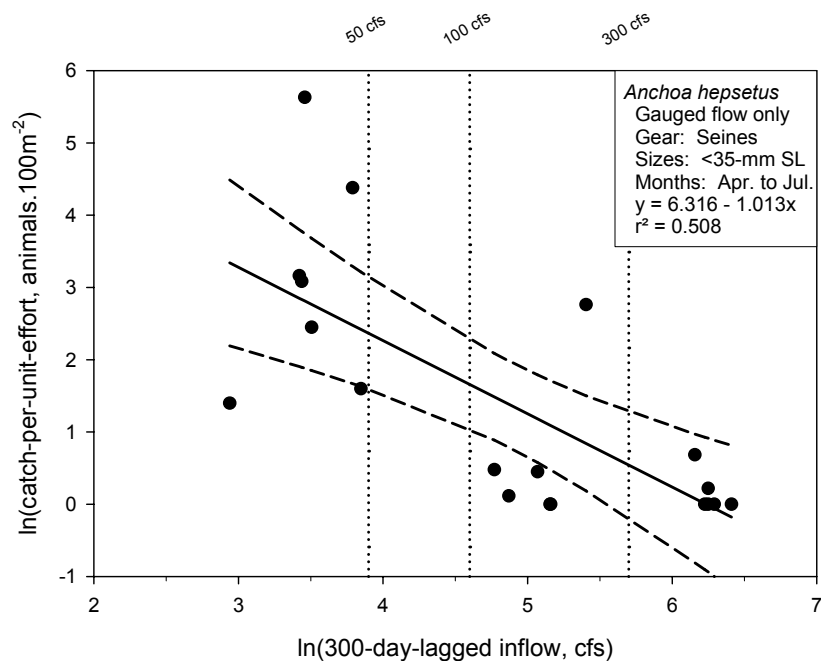


Figure J2. Abundance response of smaller (<35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

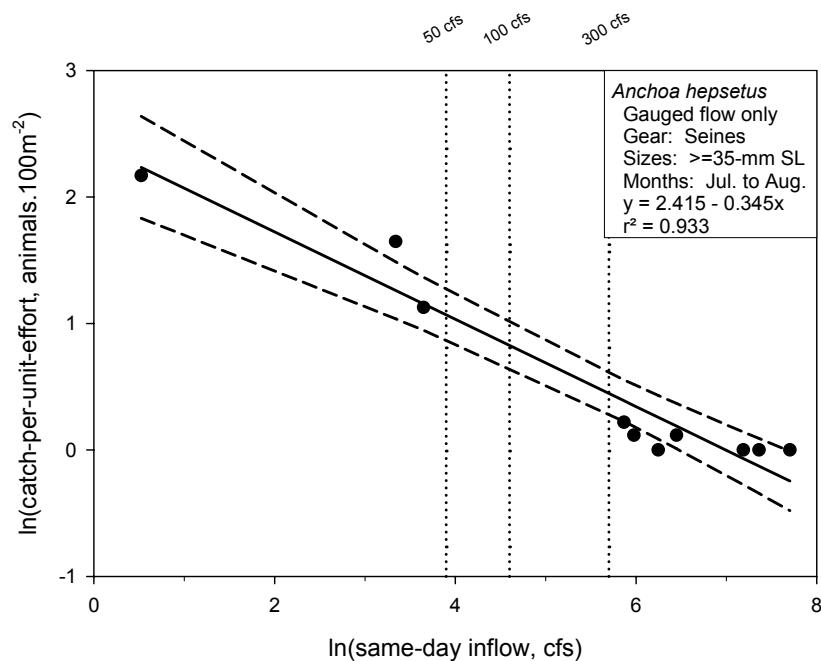


Figure J3. Abundance response of larger (≥35-mm SL) *Anchoa hepsetus* collected nearshore in the Hillsborough River estuary to same-day inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

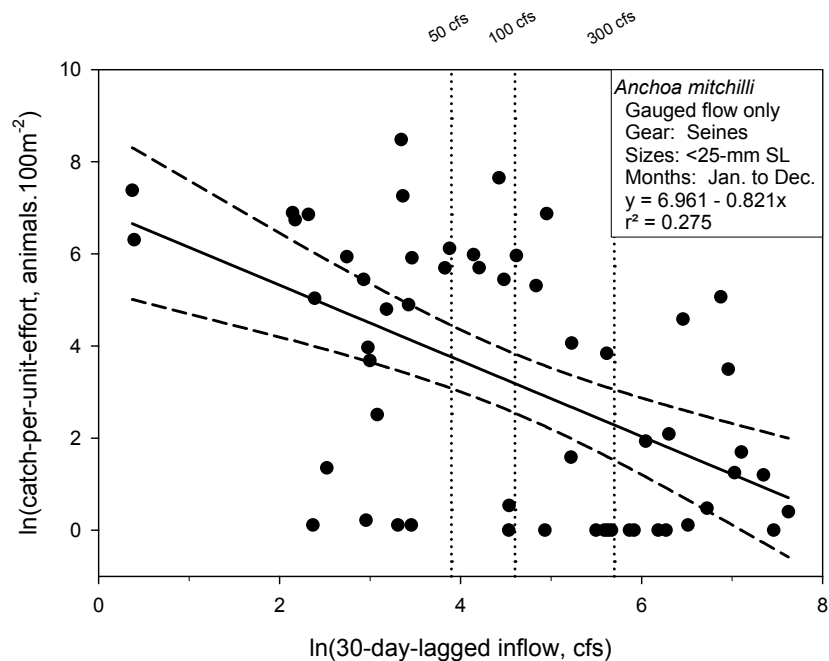


Figure J4. Abundance response of smaller (<25 -mm SL) *Anchoa mitchilli* collected nearshore in the Hillsborough River estuary to 30-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

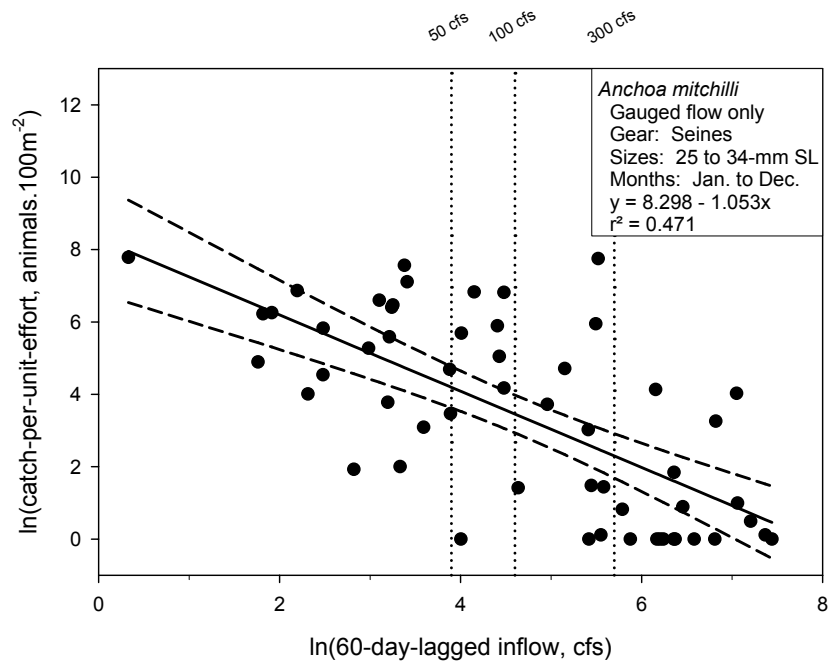


Figure J5. Abundance response of mid-sized (25 to 34-mm SL) *Anchoa mitchilli* collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

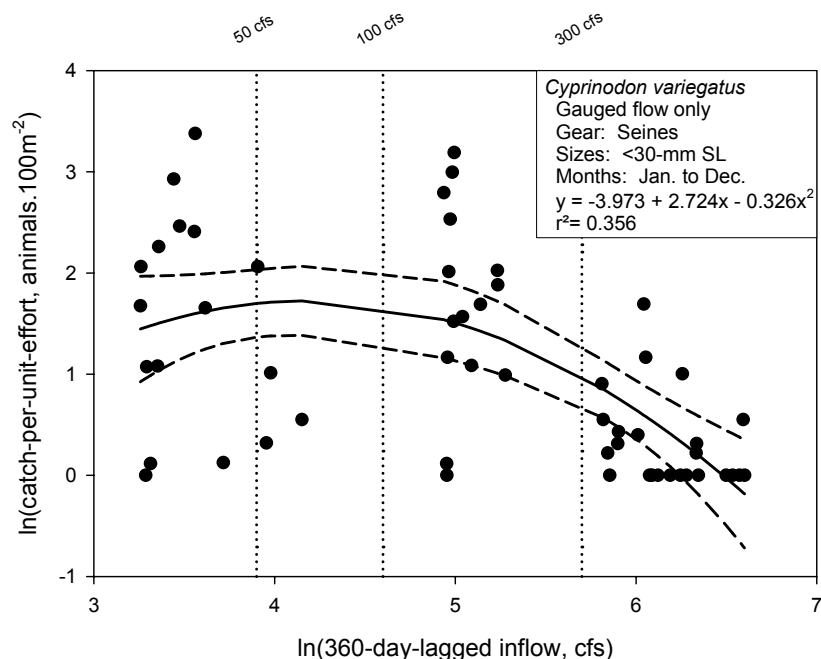


Figure J6. Abundance response of smaller (<30-mm SL) *Cyprinodon variegatus* collected nearshore in the Hillsborough River estuary to 360-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

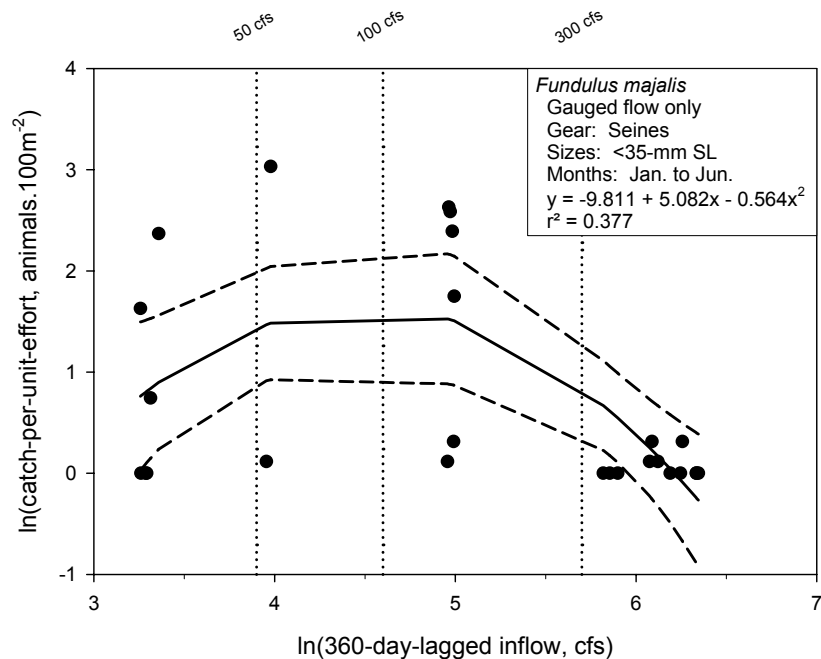


Figure J7. Abundance response of smaller (<35-mm SL) *Fundulus majalis* collected nearshore in the Hillsborough River estuary to 360-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

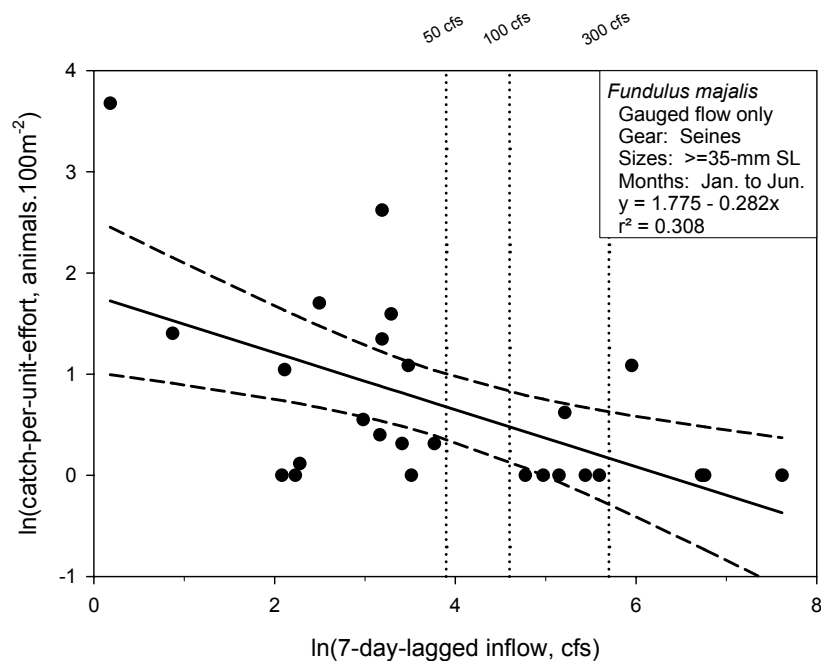


Figure J8. Abundance response of larger (≥ 35 -mm SL) *Fundulus majalis* collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

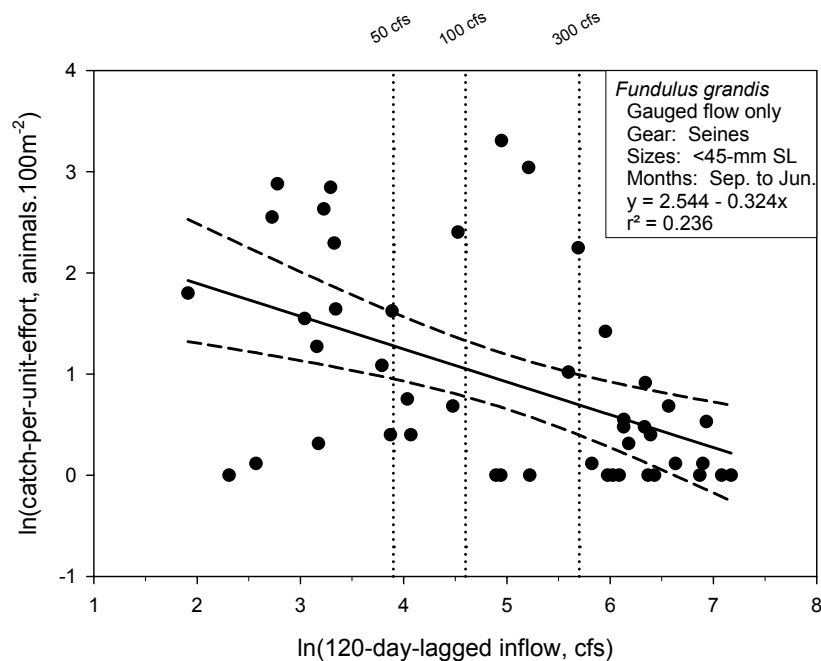


Figure J9. Abundance response of smaller (< 45 -mm SL) *Fundulus grandis* collected nearshore in the Hillsborough River estuary to 120-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

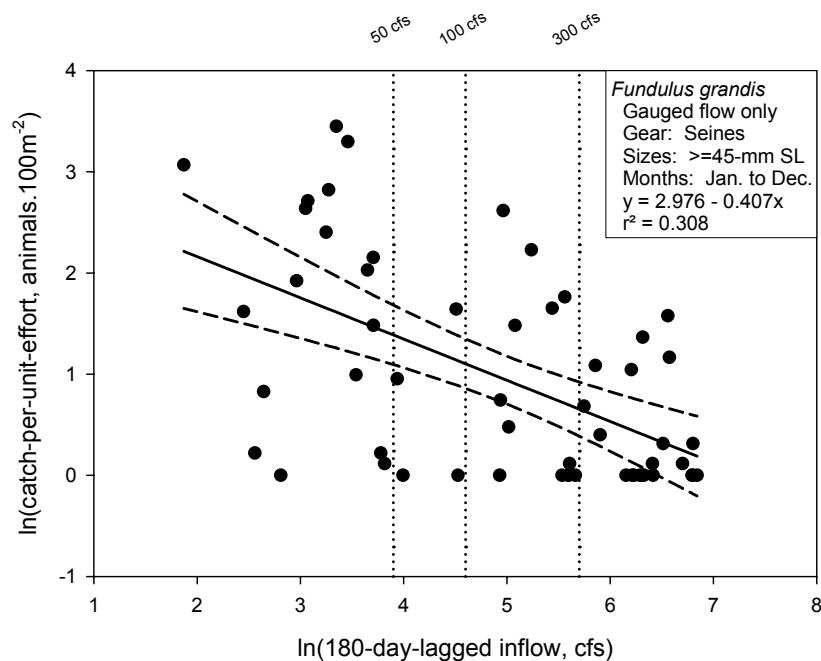


Figure J10. Abundance response of larger (≥ 45 -mm SL) *Fundulus grandis* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

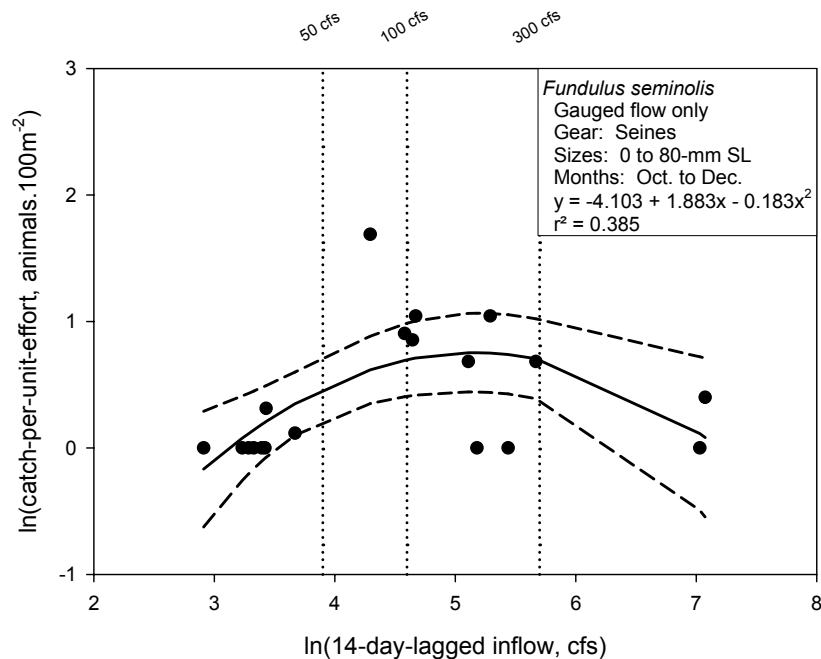


Figure J11. Abundance response of *Fundulus seminolis* collected nearshore in the Hillsborough River estuary to 14-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

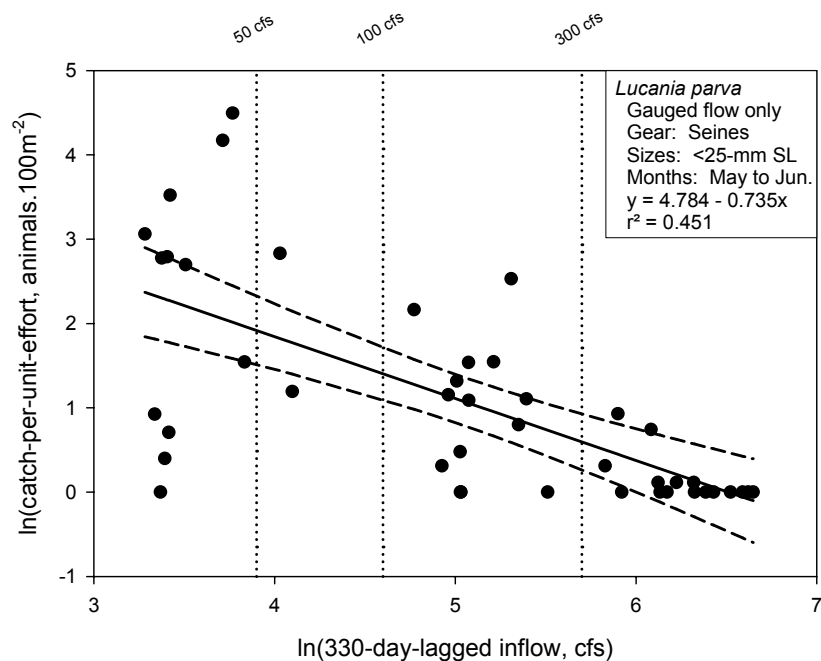


Figure J12. Abundance response of smaller (<25-mm SL) *Lucania parva* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

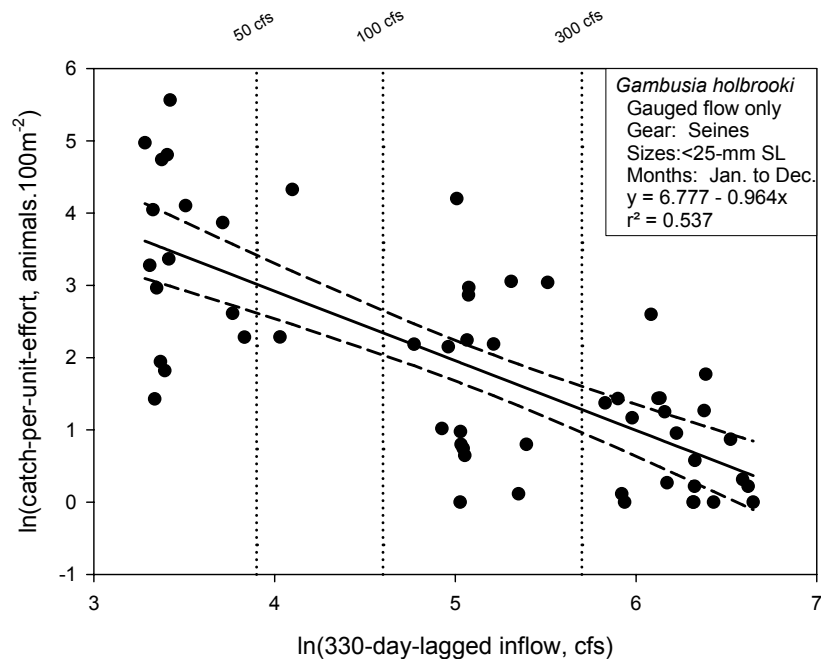


Figure J13. Abundance response of smaller (<25-mm SL) *Gambusia holbrooki* collected nearshore in the Hillsborough River estuary to 330-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

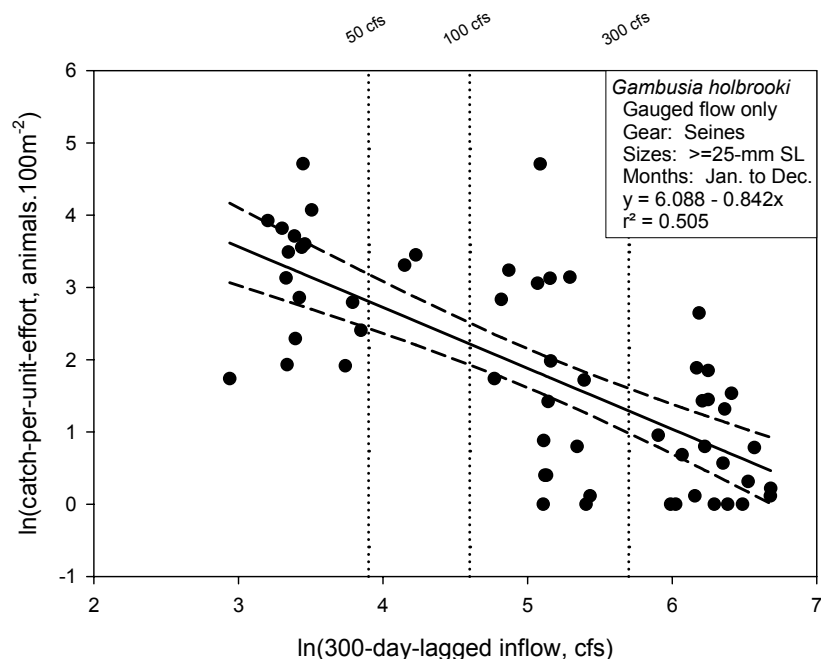


Figure J14. Abundance response of smaller (≥ 25 -mm SL) *Gambusia holbrooki* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

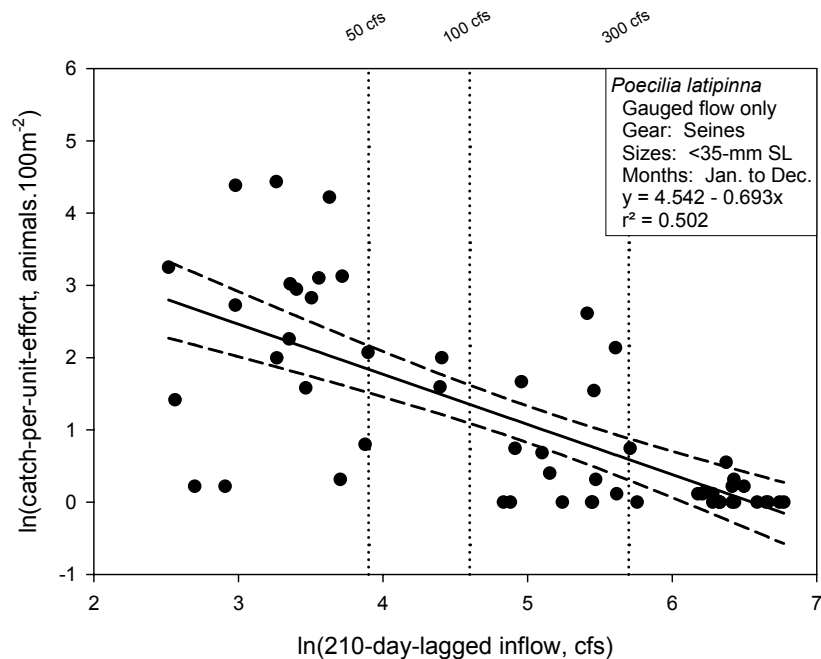


Figure J15. Abundance response of smaller (< 35 -mm SL) *Poecilia latipinna* collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

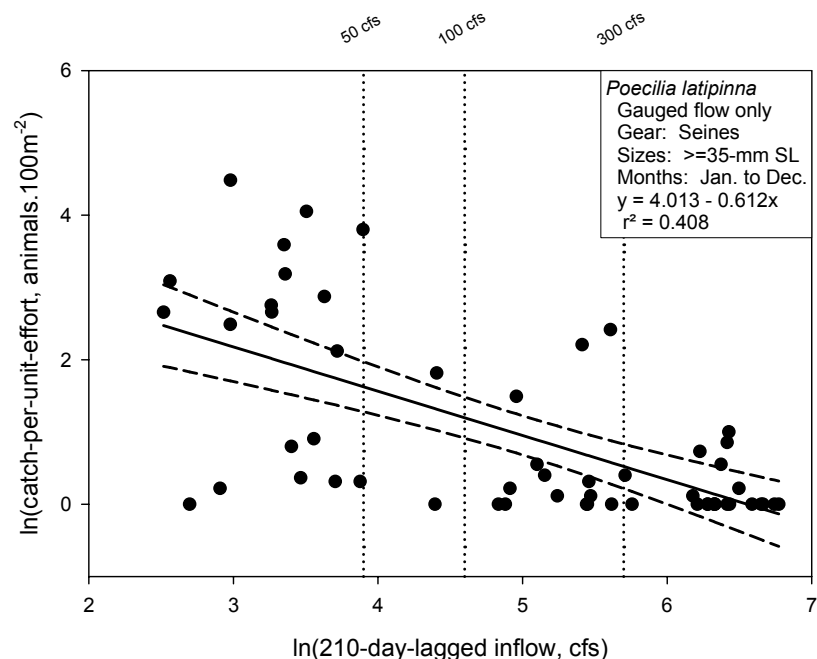


Figure J16. Abundance response of smaller (≥ 35 -mm SL) *Poecilia latipinna* collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

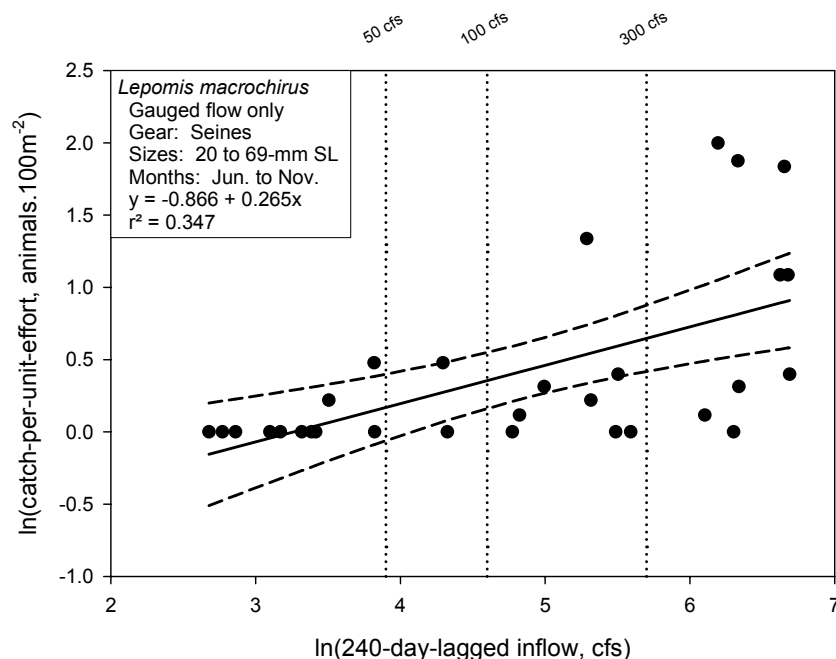


Figure J17. Abundance response of mid-sized (20 to 69-mm SL) *Lepomis macrochirus* collected nearshore in the Hillsborough River estuary to 240-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

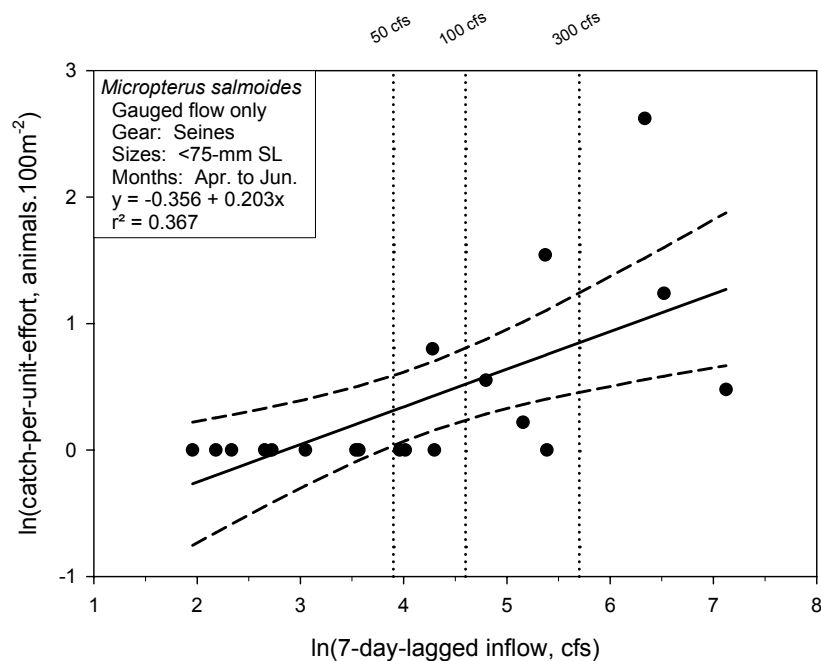


Figure J18. Abundance response of *Micropterus salmoides* collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

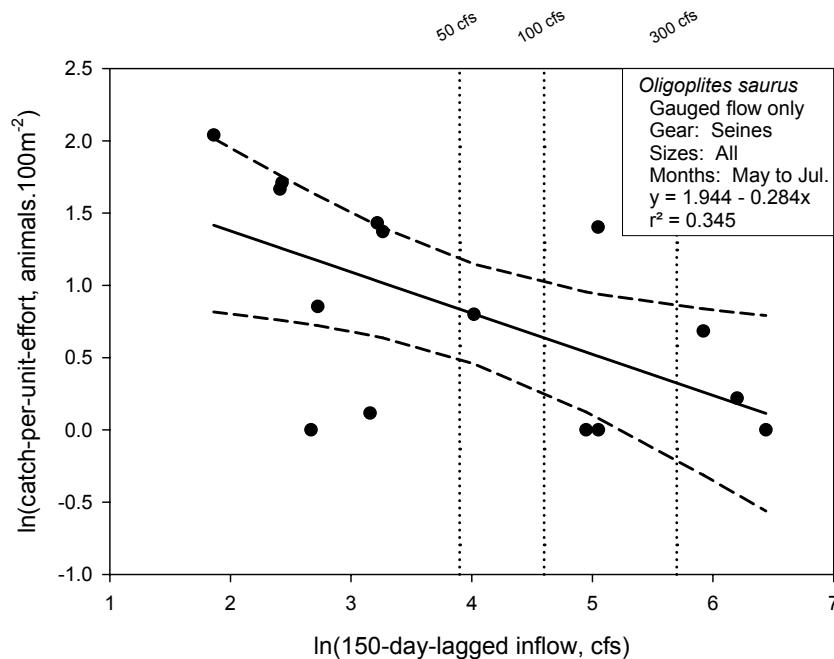


Figure J19. Abundance response of *Oligoplites saurus* collected nearshore in the Hillsborough River estuary to 150-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

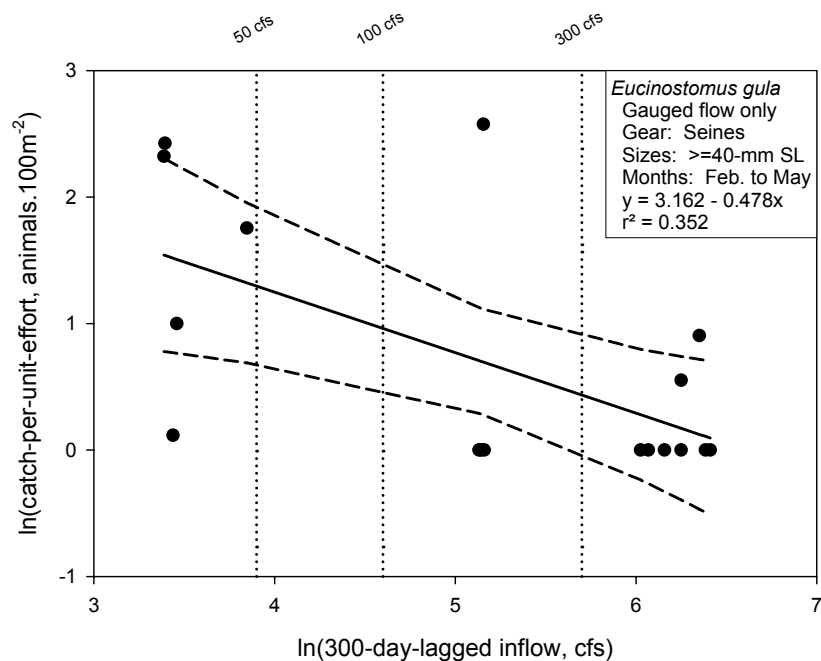


Figure J20. Abundance response of *Eucinostomus gula* collected nearshore in the Hillsborough River estuary to 300-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

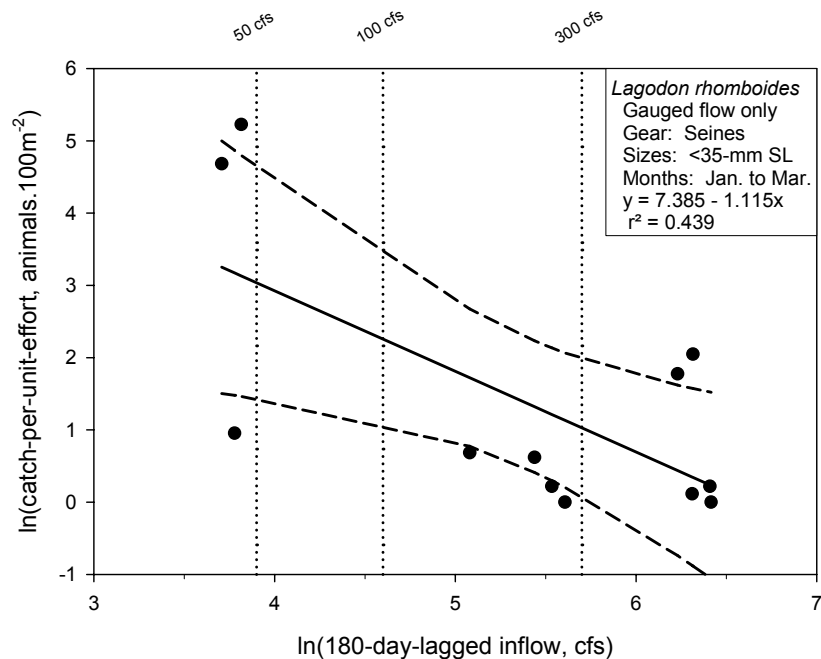


Figure J21. Abundance response of smaller (<35-mm SL) *Lagodon rhomboides* collected nearshore in the Hillsborough River estuary to 180-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

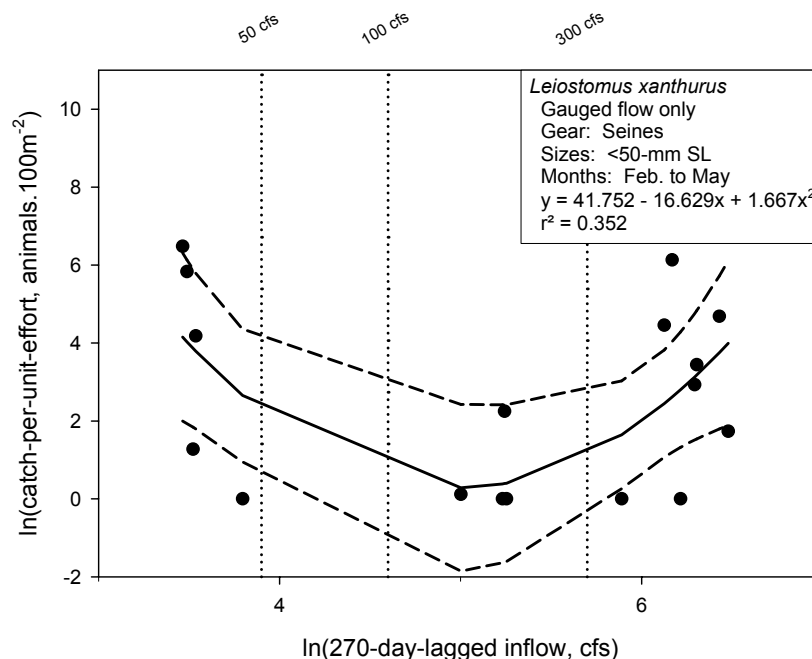


Figure J22. Abundance response of larger (<50-mm SL) *Leiestomus xanthurus* collected nearshore in the Hillsborough River estuary to 270-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

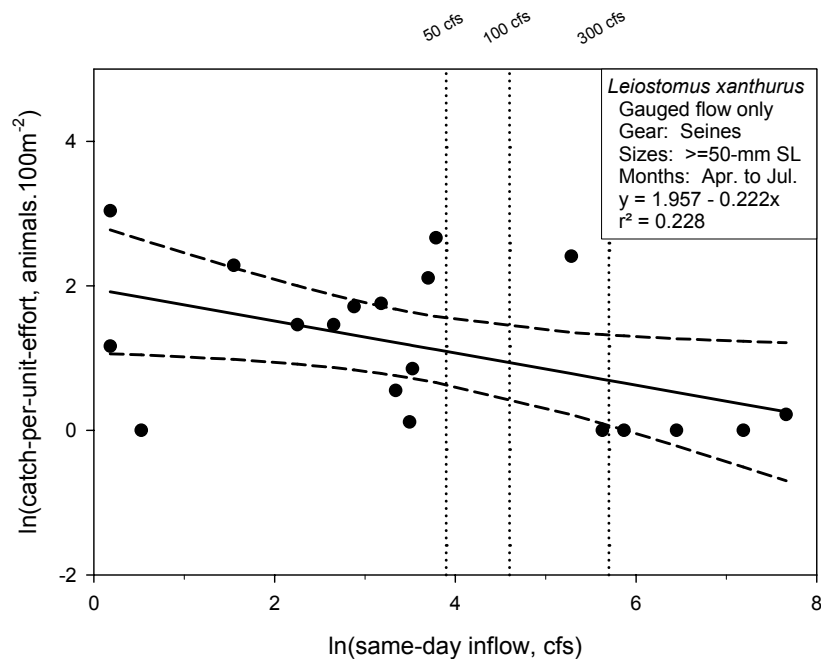


Figure J23. Abundance response of larger (≥50-mm SL) *Leiestomus xanthurus* collected nearshore in the Hillsborough River estuary to same-day inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

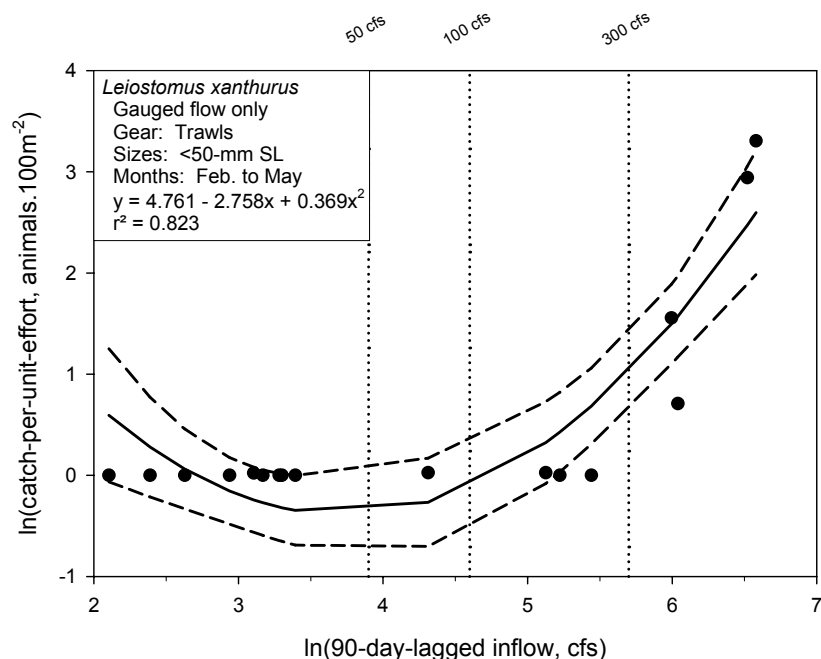


Figure J24. Abundance response of smaller (<50-mm SL) *Leiostomus xanthurus* collected in the channel of the Hillsborough River estuary to 90-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

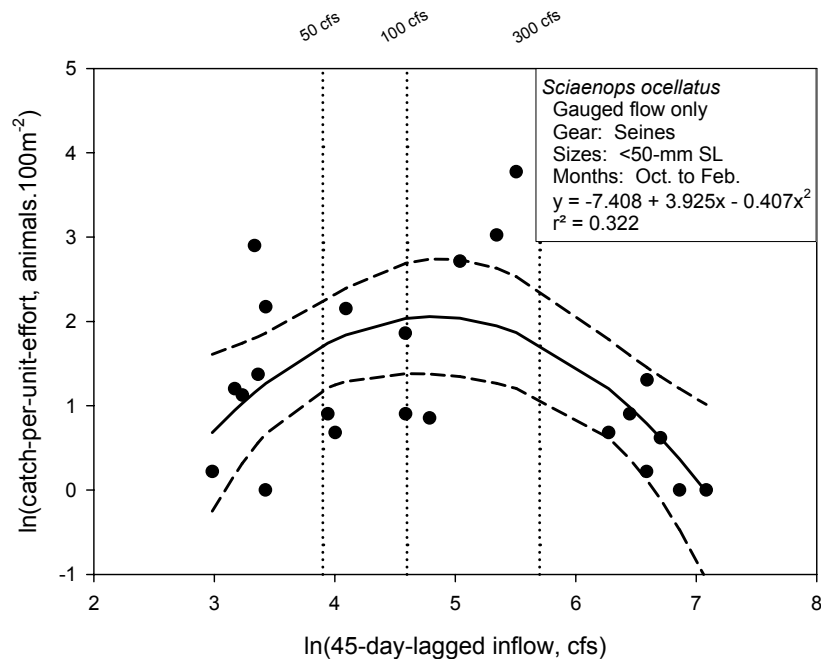


Figure J25. Abundance response of smaller (<50-mm SL) *Sciaenops ocellatus* collected nearshore in the Hillsborough River estuary to 45-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

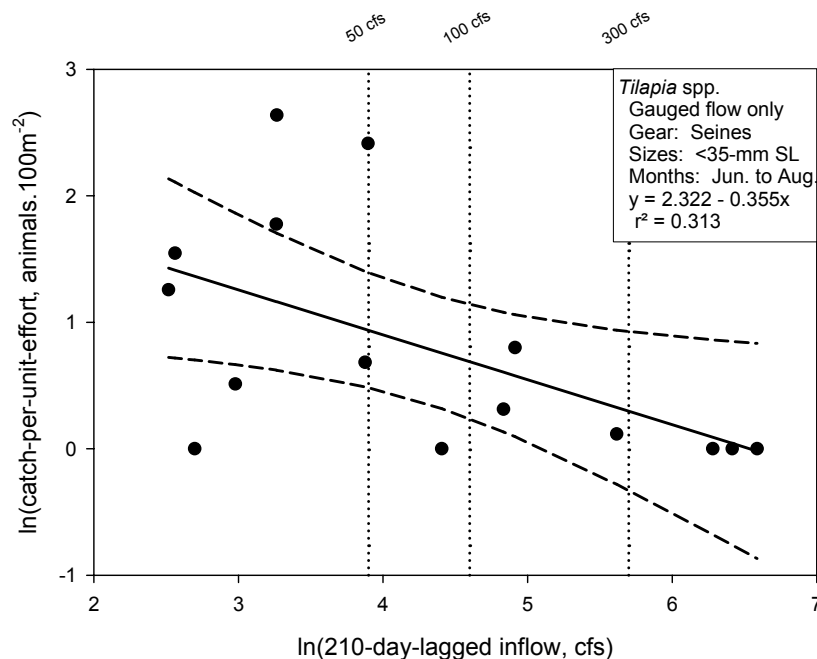


Figure J26. Abundance response of smaller (<35-mm SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 210-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

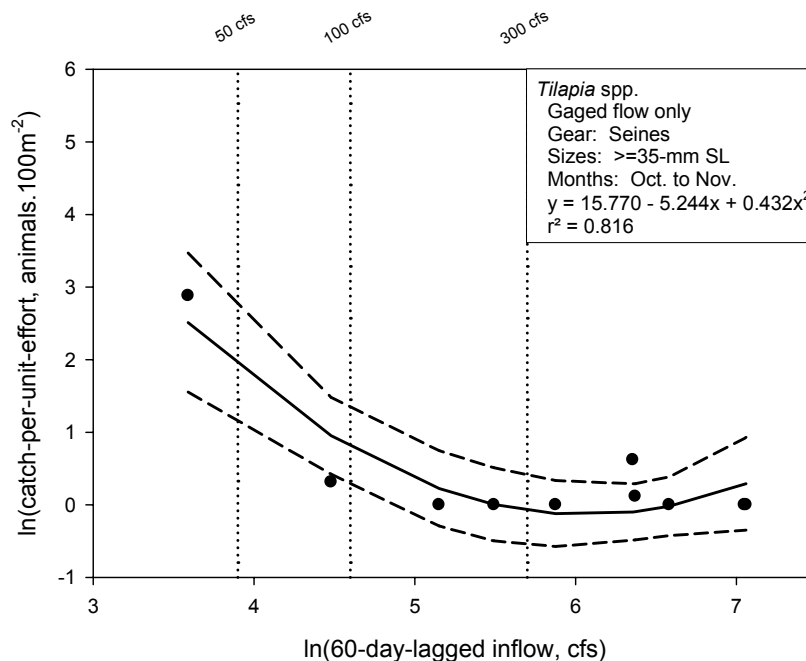


Figure J27. Abundance response of larger (≥35-mm SL) *Tilapia* spp. collected nearshore in the Hillsborough River estuary to 60-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

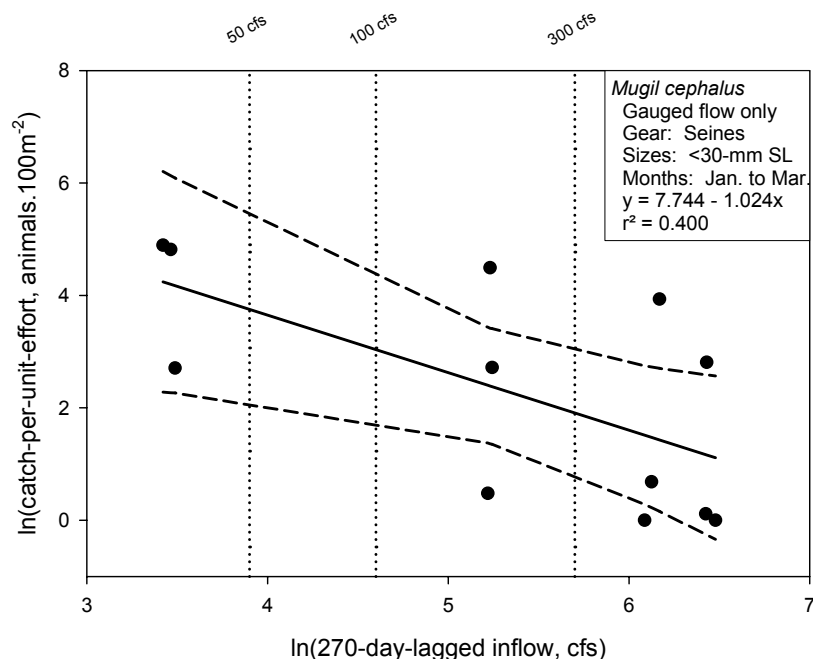


Figure J28. Abundance response of smaller (<30-mm SL) *Mugil cephalus* collected nearshore in the Hillsborough River estuary to 270-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

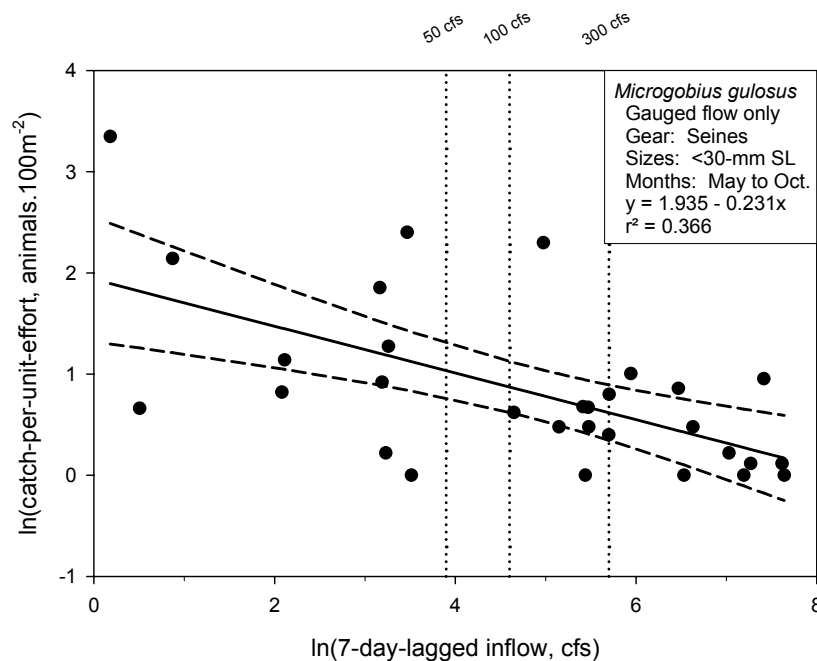


Figure J29. Abundance response of smaller (<30-mm SL) *Microgobius gulosus* collected nearshore in the Hillsborough River estuary to 7-day-lagged inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.

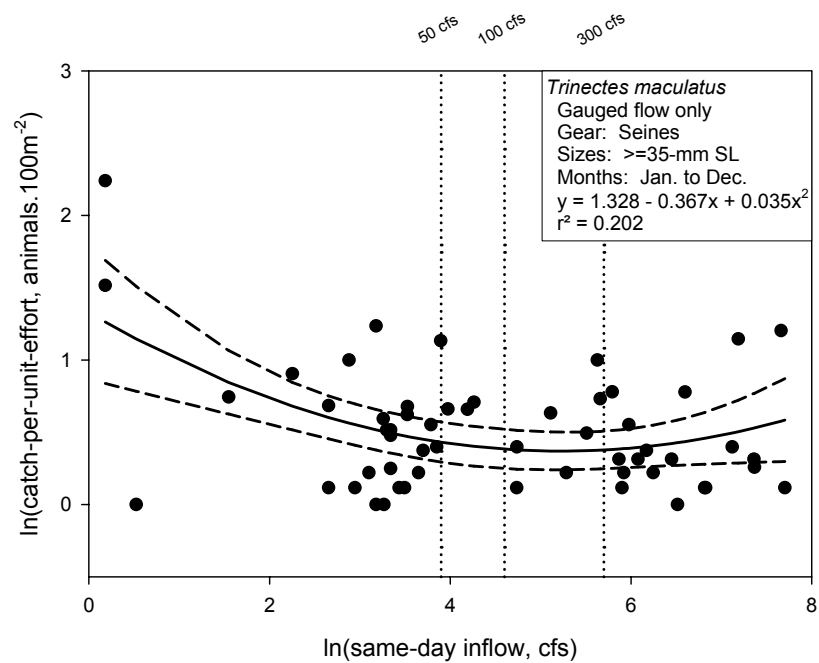


Figure J30. Abundance response of larger (≥35-mm SL) *Trinectes maculatus* collected nearshore in the Hillsborough River estuary to same-day inflow. Inflow used in this regression represents the gauged flow only. Solid line is the predicted value, while the dashed lines represent the 95% confidence interval. The dotted vertical reference lines denote inflows of 50, 100, and 300 cfs.