Length Relations of Some Marine Fishes From Coastal Georgia

575





UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE BUREAU OF COMMERCIAL FISHERIES



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By

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ABSTRACT

Information is given for converting standard length into fork and total lengths, fork length into standard and total lengths, and total length into standard and fork lengths of 82 species of marine fishes collected in coastal Georgia during 1953-61.

INTRODUCTION

The Bureau of Commercial Fisheries Biological Laboratory, Brunswick, Ga., is charged with a study of the life histories of fishes of the western North Atlantic Ocean with emphasis on those off the southeastern coast of the United States. One of the laboratory's programs, a study of coastal and estuarine ecology, includes a major project on the occurrence, abundance, seasonal distribution, apparent hydrographic preferences, and early life history of fishes of coastal Georgia.

During 1953-61, young of marine fishes were collected by seining at selected localities in three types of environment in McIntosh and Glynn counties, Georgia: the upper tidewaters of the Altamaha River, the ocean beach, and the saltmarshes. The collections included larvae, juveniles, and adults of some species, but only juveniles of others.

Published information on growth and changes in body form of fishes during development generally records length as standard, fork, or total. Comparison of these data is difficult or impossible without a means of converting one measurement to another. We wanted to be able to make such comparisons in detailed studies we were planning; so we determined the relations of standard, fork, and total length by the method of least squares for those species for which we had adequate data. This report presents the statistics describing these relations for 82 marine species and gives factors for converting one length measurement to another. Length relations for fresh-water species from the Altamaha River were not determined.

METHODS

To determine the relation of various length measurements, we measured representative samples of all sizes of all species for standard and total lengths and (for species with forked caudal fins) fork length. Sample sizes ranged from a few specimens for some species to thousands for others.

Standard length was measured from the tip of the snout to the end of the hypural bones (the caudal base), fork length from the tip of the snout to the tip of the shortest median caudal ray, and total length from the tip of the snout to a vertical at the tip of the longest lobe, or ray, of the caudal fin. Measurements (to the nearest millimeter) were made with dial calipers or a measuring board.

We measured a size series of specimens for each seine sample of each species. Some millimeter size groups were represented by one specimen; others by many specimens. We subsampled our data to treat the species uniformly. For each millimeter size group of standard length represented in our data, we selected at random one specimen and recorded its fork and total lengths; for each millimeter size group of fork length, we selected one specimen and recorded its standard and total lengths; and for each millimeter size group of total length, we selected one specimen and recorded its standard and fork lengths. We had three sets of data for species with forked caudal fins and two sets of data for those without forked caudals. We further refined the data by selecting only those portions of the size series in which the observations were uniformly distributed, by discarding scattered observations at either end of the size range, and by omitting those species for which fewer than five size groups were available.

Linear regressions were calculated for standard, fork, and total length relations by the method of least squares. The Biometrics Unit, Bureau of Commercial Fisheries Biological Laboratory, Seattle, Wash., provided computer services to calculate regressions for species with a sample size of 25 or more, and we calculated the regressions for the rest of the species.

LENGTH RELATIONS

Three tables show the data essential to this paper. Table 1 gives the statistics describing the relations of standard, fork, and totallengths for 82 species of marine fishes from coastal Georgia. Table 2 gives the factors for converting one length to another, for the size range represented in our samples. Table 3 lists scientific and common names for all species mentioned in this report.

 $[SL = standard length, FL = fork length, TL = total length, <math>\overline{x}$ = mean of values of X, \overline{y} = mean of values of Y, N = number of millimeter size groups, b = change in Y for unit change in X, a = Y-intercept of regression line, and Sy.x = standard deviation from regression (standard error of estimate)]

Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range independ- ent variable X	, x	y	N	Ъ	a	Sy•x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
ANGUILLIDAE									
Anguilla rostrata	SL TL	TL SL	45- 62 46- 63	51.83 52.91	52.91 51.83	12 12	0.988 1.008	1.676 -1.498	0.296 .299
ARIIDAE									
<u>Galeichthys</u> <u>felis</u>	SL SL FL TL TL	FL TL TL SL FL	39- 93 39- 93 44- 99 44- 99 51-114 51-114	64.97 64.97 69.53 69.53 81.31 81.31	70.72 84.53 63.91 82.91 62.82 68.46	36 36 34 39 39	1.063 1.320 .930 1.228 .781 .833	1.630 -1.245 741 -2.466 645 .756	.872 2.818 1.231 2.171 .902 .648
ATHERINIDAE									
<u>Membras</u> <u>martinica</u>	SL SL FL FL TL	FL TL SL TL SL FL	13- 84 13- 84 15- 92 15- 92 16- 93 16- 93	48.50 48.50 53.50 53.50 54.50 54.50	55.06 58.32 47.13 56.73 45.29 51.41	72 72 78 78 78 78	1.135 1.199 .874 1.061 .832 .948	.029 .154 .352 033 078 230	.961 1.339 .971 .965 .944 .602
<u>Menidia</u> <u>menidia</u>	SL SL FL TL TL	FL TL SL TL SL FL	12- 95 12- 95 13-107 13-107 14-113 14-113	53.01 53.01 59.02 59.02 63.50 63.50	60.86 64.96 51.42 63.01 51.78 59.46	83 83 93 93 100 100	1.127 1.196 .875 1.063 .827 .934	1.112 1.534 247 .286 708 .122	.990 1.210 .940 .815 1.041 .926
BATRACHOIDIDAE									
<u>Opsanus</u> tau	SL TL	TL SL	59 - 153 71 - 183	111.10 131.40	131.40 111.10	10 10	1.180 .846	.280 051	1.337 1.132
BELONTDAE									
Strongylura marina	SL TL	TL SL	21 - 179 23 - 193	123.41 132.26	133.82 121.87	39 39	1.061 •934	2.878 -1.676	2.678 2.401
BLENNIIDAE									
Chasmodes bosquianus	SL TL	TL SL	11- 71 14- 84	43.55 52.55	52.55 43.55	9 9	1.180 .841	1.183 666	2.046 1.728
Hypsoblennius hentzi	SL TL	TL SL	8- 65 9- 78	37.05 45.44	45.44	18 18	1.227 .814	017 .057	.750

Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	y	N	ď	a	Sy.x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
BOTHIDAE									
Etropus crossotus	SL TL	TL SL	48 - 71 60 - 88	63.77 80.44	80.44 63.77	9 9	1.240 •799	1.346 534	.827 .664
Paralichthys dentatus	SL TL	TL SL	29 - 56 32- 69	39.18 47.81	47.81 39.18	11 11	1.271 .777	-1.992 2.013	1.577 1.233
Paralichthys lethostigma	SL TL	TL SL	20 - 93 26 -1 17	45.48 54.84	57.15 43.30	33 37	1.257 .800	005 563	2.469 2.134
Paralichthys squamilentus	SL TL	TL SL	20- 42 26- 53	32.70 41.50	41.50 32.70	10 10	1.223 .812	1.501 986	.805 .656
Scophthalmus aquosus	SL TL	TL SL	47- 78 61- 99	65.10 83.10	83.10 65.10	10 10	1.212 .814	4.225 -2.502	1.526 1.251
CARANGIDAE									
<u>Caranx</u> <u>hippos</u>	SL SL FL FL TL TL	FL TL SL SL FL	21-106 21-106 23-114 23-114 26-132 26-132	52.00 52.00 57.33 57.33 63.61 63.61	56.43 64.63 52.85 65.58 51.25 55.92	35 35 33 33 36 36	1.069 1.247 .935 1.166 .800 .857	.838 195 756 -1.246 .394 1.404	.538 1.699 .456 1.815 1.351 2.291
Chloroscombrus chrysurus	SL SL FL TL TL	FL SL SL FL	15-113 15-113 17-131 17-131 18-127 18-127	56.96 56.96 64.47 64.47 70.19 70.19	63.35 73.55 58.02 75.16 54.30 60.45	78 78 88 88 99 99	1.087 1.316 .921 1.216 .754 .822	1.417 -1.408 -1.352 -3.204 1.412 2.764	1.017 1.556 .909 1.156 1.005 .966
<u>Oligoplites</u> <u>saurus</u>	SL SL FL TL TL	FL TL SL SL FL	9-106 9-106 10-113 10-113 11-127 11-127	51.17 51.17 54.20 54.20 60.36 60.36	55.76 61.56 49.75 59.86 50.32 54.69	66 66 71 71 75 75	1.060 1.181 .942 1.116 .846 .896	1.544 1.143 -1.324 644 767 .607	0.779 1.030 .731 .621 .878 .622
Selene vomer	SL SL FL TL TL	FL TL SL SL FL	24- 78 24- 78 27- 86 27- 86 32-105 32-105	40.22 40.22 44.11 44.11 53.55 53.55	44.11 53.55 40.22 53.55 40.22 44.11	9 9 9 9 9 9	1.099 1.338 .909 1.216 .746 .820	100 260 .133 070 .245 .178	.663 .883 .603 1.381 .660 1.134
<u>Trachinotus</u> <u>carolinus</u>	SL SL FL TL TL	FL TL SL TL SL FL	11-102 11-102 13-100 13-100 14-102 14-102	50.63 50.63 52.56 52.56 56.24 56.24	57.49 66.74 46.00 60.69 42.66 48.87	78 78 78 85 85 85	1.100 1.340 .903 1.214 .740 .822	1.816 -1.089 -1.461 -3.146 1.064 2.655	.972 1.674 1.015 1.080 .916 .829
Trachinotus falcatus	SL SL FL TL TL	FL TL SL TL SL FL	12- 59 12- 59 15- 67 15- 67 16- 79 16- 79	34.78 34.78 39.72 39.72 44.78 44.78	40.02 46.28 34.49 45.94 33.70 38.81	46 46 47 54 54	1.082 1.303 .922 1.214 .769 .831	2.386 .950 -2.148 -2.292 712 1.618	.647 .662 .589 .858 .650 .606
<u>Trachinotus</u> <u>glaucus</u>	SL SL FL FL	FL TL SL TL SL FL	19- 60 19- 60 22- 68 22- 68 24- 78 24- 78	36.93 36.93 42.80 42.80 42.80 48.13 48.13	40.80 48.13 36.93 48.13 36.93 42.80	15 15 15 15 15	1.122 1.326 .890 1.182 .753 .846	1.372 839 -1.171 -2.447 .693 2.106	.593 .762 .528 .551 .574 .466

Species	Inde- penden vari- able	Depend- t ent variable X Y	Size rang independ ent variable	ge, 1- X	y	N	b	æ	Sy.x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
CARANGIDAEContinued									
<u>Vomer</u> <u>setapinnis</u>	SL SL FL TL TL	FL TL SL TL SL FL	41- 60 41- 60 45- 68 45- 68 53- 81 53- 81	52.40 52.40 58.20 58.20 68.60 68.60	58.20 68.60 52.40 68.60 52.40 58.20	5 5 5 5 5 5 5 5	1.169 1.410 .850 1.208 .702 .827	-3.061 -5.289 2.930 -1.682 4.229 1.461	.986 1.496 .841 .491 1.056 .406
CLUPEIDAE									
<u>Alosa</u> <u>aestivalis</u>	SL SL FL TL TL	FL TL SL TL SL FL	28- 58 28- 58 32- 64 32- 64 35- 74 35- 74	40.00 40.00 45.00 45.00 50.16 50.16	45.00 50.16 40.00 50.16 40.00 45.00	66666	1.084 1.294 .921 1.191 .772 .836	1.620 -1.612 -1.445 -3.448 1.292 3.051	.482 .574 .444 1.027 .443 .860
<u>Alosa</u> <u>sapidissime</u>	SL SL FL TL TL	FL TL SL TL SL FL	37- 60 37- 60 41- 66 41- 66 45- 74 45- 74	50.10 50.10 54.90 54.90 62.00 62.00	54.90 62.00 50.10 62.00 50.10 54.90	10 10 10 10 10	1.110 1.313 .897 1.179 .756 .841	726 -3.761 .838 -2.738 3.197 2.758	.573 .929 .515 1.007 .706 .850
<u>Brevoortia</u> <u>smithi</u>	SL SL FL TL TL	FL TL SL TL SL FL	21- 74 21- 74 24- 85 24- 85 27- 95 27- 95	46.53 46.53 49.44 49.44 58.48 58.48 58.48	50.84 59.61 46.23 59.26 45.59 49.83	38 38 39 39 46 46	1.050 1.285 .994 1.283 .776 .817	1.992 191 -2.921 -4.188 .178 2.032	.499 .901 1.433 1.954 .596 .656
<u>Brevoortia</u> <u>tyrannus</u>	SL SL FL TL TL	FL TL SL TL SL FL	14-148 14-148 16-145 16-145 18-174 18-174	69.12 69.12 76.03 76.03 88.56 88.56	76.36 88.45 68.64 88.14 69.06 76.35	105 105 117 117 137 137	1.103 1.320 .898 1.195 .751 .834	.098 -2.796 .389 -2.712 2.531 2.480	1.250 2.630 1.430 1.588 1.602 1.456
Dorosoma cepedianum	SL SL FL TL TL	FL TL SL TL SL FL	73-117 73-117 81-127 81-127 97-150 97-150	89.14 89.14 98.71 98.71 118.07 118.07	98.71 118.07 89.14 118.07 89.14 98.14 98.71	14 14 14 14 14 14 14	1.056 1.235 .939 1.169 .802 .848	4.605 8.000 -3.568 2.668 -5.505 -1.461	1.356 1.745 1.279 1.560 1.406 1.328
Dorosoma petenense	SL SL FL FL TL TL	FL TL SL TL SL FL	38- 71 38- 71 42- 78 42- 78 50- 93 50- 93	52.81 52.81 58.13 58.13 69.00 69.00	58.13 69.00 52.81 69.00 52.81 58.13	22 22 22 22 22 22	1.078 1.254 .923 1.163 .790 .856	1.180 2.766 844 1.401 -1.700 927	.660 1.086 .611 .770 .862 .660
<u>Harengula</u> pensacolae	SL SL FL FL TL TL	FL TL SL TL SL FL	44- 63 44- 63 49- 67 49- 67 56- 79 56- 79	54.28 54.28 59.33 59.33 68.61 68.61	59.33 68.61 54.28 68.61 54.28 59.33	21 21 21 21 21 21	.999 1.280 .988 1.270 .776 .778	5.083 863 -4.356 -6.727 1.052 5.924	.605 .582 .602 .752 .453 .588

Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	y	N	Ъ	а	Sy.x	
			<u>Mm</u> .	Mm.	<u>Mm</u> .					
CLUPEIDAE Continued										
<u>Opisthonema</u> <u>oglinum</u>	SL SL FL TL TL	FL SL TL SL FL	28- 71 28- 71 31- 82 31- 82 35- 97 35- 97	51.87 51.87 58.84 58.84 67.40 67.40	57.33 65.26 52.80 66.24 53.80 59.64	39 39 45 50 50	1.073 1.245 .864 1.158 .735 .832	1.664 .665 1.972 - 1.875 4.265 3.544	0.840 1.427 1.799 2.055 1.505 1.522	
<u>Sardinella</u> <u>anchovia</u>	SL SL FL TL TL	FL TL SL SL FL	24- 30 24- 30 27- 34 27- 34 29- 37 29- 37	27.16 27.16 30.50 30.50 33.00 33.00	30.50 33.00 27.16 33.00 27.16 30.50	6 6 6 6 6 9 9 9 9 9	1.099 1.304 .881 1.164 .761 .848	.648 -2.417 .305 -2.505 2.054 2.523	.519 .300 .464 .386 .229 .330	
CYNOGLOSSIDAE										
Symphurus plagiusa	SL TL	TL SL	11-124 13-138	47.20 51.70	51.70 47.20	40 40	1.096 .911	055 .096	.990 .902	
CYPRINODONTIDAE										
Cyprinodon variegatus	SL TL	TL SL	16- 41 21- 51	28.08 34.88	34.88 28.08	25 25	1.166 .851	2.133 -1.617	•733 •626	
Fundulus heteroclitus	SL TL	TL SL	5- 79 7- 96	39.68 47.76	49.05 38.41	66 78	1.196 .823	1.580 899	1.167 1.015	
Fundulus luciae	SL TL	TL SL	10- 31 12- 39	18.95 23.30	23.30 18.95	23 23	1.210 .820	.378 149	.687 .566	
<u>Fundulus</u> <u>majalis</u>	SL TL	TL SL	8- 87 10-116	51.18 60.34	62.32 49.58	87 101	1.182 .844	1.800 -1.323	1.107 .962	
DIODONTIDAE										
Chilomycterus schoepfi	SL TL	TL SL	12- 54 15- 64	28.85 35.18	35.18 28.85	27 27	1.187 .839	.944 673	.942 .792	
ECHELIDAE										
Myrophis punctatus	SL TL	TL SL	132 - 170 133 - 172	151.00 152.10	152.10 151.00	10 10	1.013 .986	923 .984	.284 .250	
ELOPIDAE										
<u>Elops</u> <u>saurus</u>	SL SL FL FL TL	FL TL SL SL FL	23-103 23-103 25-109 25-109 29-131 29-131	59.18 59.18 63.45 63.45 74.54 74.54	63.45 74.54 59.18 74.54 59.18 63.45	22 22 22 22 22 22	1.056 1.294 .946 1.225 .771 .815	.950 -2.068 844 -3.192 1.702 2.730	•773 1.395 •732 1.476 1.077	

Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	<u>y</u>	N	b	a	Sy•x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
ENGRAULIDAE									
<u>Anchos</u> <u>hepsetus</u>	SL SL FL FL H	FL TL SL TL SL FL	13-94 13-94 15-104 15-104 16-117 16-117	53.58 53.58 59.50 59.50 65.76 65.76	58.68 65.42 54.40 66.39 54.09 59.10	78 78 88 98 98 98	1.078 1.228 .927 1.141 .817 .881	.932 395 756 -1.508 .390 1.178	.770 1.208 .648 .947 .973 .958
<u>Anchoa</u> <u>lyolepis</u>	SL SL FL TL TL	FL TL SL TL SL FL	28- 38 28- 38 32- 42 32- 42 34- 48 34- 48	31.90 31.90 35.80 35.80 39.00 39.00	35.80 39.00 31.90 39.00 31.90 35.80	10 10 10 10 10	1.077 1.378 .866 1.213 .707 .773	1.453 -4.971 .894 -4.436 4.343 5.641	.898 .697 .805 1.075 .499 .858
<u>Anchos mitchilli</u>	SL SL FL TL TL	FL TL SL TL SL FL	10- 71 10- 71 11- 76 11- 76 12- 84 12- 84	40.03 40.03 42.56 42.56 47.51 47.51	43.52 48.30 39.20 47.20 39.33 42.75	61 64 64 72 72	1.078 1.214 .929 1.126 .812 .887	•389 -315 -350 -701 •768 •586	.623 .940 .600 .748 .766 .715
EPHIPPIDAE									
Chaetodipterus faber	SL TL	TL SL	5- 32 7- 43	1 5. 15 20.36	20.36 15.15	19 19	1.278 .779	1.000 714	.745 .582
GERRIDAE									
<u>Dispterus</u> <u>olisthostomus</u>	SL SL FL TL TL	FL TL SL SL FL	17- 56 17- 56 19- 62 19- 62 23- 72 23- 72	28.42 28.42 32.00 32.00 37.85 3 7. 85	32.00 37.85 28.42 37.85 28.42 32.00	7 7 7 7 7 7	1.115 1.318 .895 1.184 .752 .841	0.312 .398 226 032 039 .157	0.744 2.023 .667 1.342 1.528 1.131
<u>Eucinostomus</u> gula	SL SL FL TL TL	FL TL TL SL FL	10- 71 10- 71 11- 89 11- 89 12- 93 12- 93	37.58 37.58 42.24 42.24 45.85 45.85	42.04 49.02 37.32 48.90 35.13 39.54	53 53 59 59 61 61	1.106 1.328 .880 1.172 .751 .834	.462 901 .140 601 .681 1.304	1.002 .958 1.506 1.848 .705 .749
GOBIESOCIDAE									
Gobiesox strumosus	SL TL	TL SL	7- 54 9- 68	28.71 36.24	35.56 29.32	34 37	1.240 .801	027 .301	1.004 .846
GOBIIDAE									
Gobionellus shufeldti	SL TL	TL SL	13- 65 17- 67	34.77 41.28	45.79 31.54	39 39	1.352 .740	-1.218 1.004	1.321 .762
Gobiosoma bosci	SL TL	TL SL	8- 45 9- 56	28.31 32.69	3 4.8 8 26.60	32 35	1.230 .806	.061 .246	.608 .498
MONACANTHIDAE									
Stephanolepis hispidus	SL	TL	8- 53 10- 50	25.78	32.72 24.18	36 39	1.247 •795	•568 ••353	.661 .569

Table 1Relation of standard, fork, and total lengths in marine fishes from coastal Georg	in marine fishes from coastal Georgia Continued
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Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	ÿ	N	ď	a	Sy.x
		····	<u>Mm</u> •	<u>Mm</u> .	<u>Mm</u> -		· · · · · · · · · · · · · · · · · · ·		
MUGILIDAE									
Mugil cephalus	SL SL FL TL TL	FL TL SL SL FL	13-230 13-230 16-248 16-248 17-219 17-219	103.75 103.75 117.35 117.35 117.21 117.21	119.88 130.94 101.30 128.07 92.88 107.75	174 174 192 192 195 195	1.135 1.266 .877 1.115 .787 .900	2.148 424 -1.584 -2.733 .646 2.233	1.763 2.031 1.732 1.634 1.334 1.090
Mugil curema	SL SL FL TL TL	FL TL SL TL SL FL	16-125 16-125 19-143 19-143 20-155 20-155	67.66 67.66 79.07 79.07 86.10 86.10	79.38 86.69 67.45 86.39 67.29 78.74	104 104 121 121 133 133	1.157 1.288 .860 1.114 .773 .897	1.066 468 542 -1.703 .751 1.488	.906 1.254 .942 .861 .925 .731
OPHIDIIDAE									
<u>Rissola</u> marginata	SL TL	TL SL	134 - 182 138 - 184	157.90 162.00	162.00 157.90	10 10	•973 1.026	8.411 -8.231	.805 .826
POECILIIDAE									
Gambusia affinis	SL TL	TL SL	14- 36 17- 46	22.52 29.52	29.52 22.52	23 23	1.276 .758	.796 .156	1.675 1.291
<u>Heterandria</u> formosa	SL TL	TL SL	12- 19 16- 23	15.80 20.20	20.20 15.80	5 5	.951 1.013	5.171 -4.661	.612 .631
<u>Poecilia</u> latipinna	SL TL	TL SL	8- 42 10- 54	26.92 36.29	34.19 28.32	26 31	1.272 .771	040 .328	.683 .868
POMACENTRIDAE									
<u>Abudefduf</u> <u>saxatilis</u>	SL SL FL TL TL	FL TL SL TL SL FL	22- 31 22- 31 27- 37 27- 37 30- 42 30- 42	26.25 26.25 32.37 32.37 35.75 35.75	32.37 35.75 26.25 35.75 26.25 32.37	8 8 8 8	1.068 1.288 .907 1.182 .762 .823	4.327 1.948 -3.103 -2.498 981 2.934	.653 .612 .601 .728 .470 .608
POMADASYIDAE									
Orthopristis chrysopterus	SL SL FL TL TL	FL TL SL TL SL FL	11- 46 11- 46 13- 55 13- 55 14- 59 14- 59	29.42 29.42 34.89 34.89 37.77 37.77	35.10 37.74 29.33 37.50 29.49 35.26	31 31 36 39 39	1.169 1.326 .852 1.123 .751 .892	.695 -1.268 407 -1.682 1.121 1.587	.970 .518 .737 1.195 .425 1.017
POMATOMIDAE									
<u>Pomatomus</u> <u>saltatrix</u>	SL SL FL TL TL	FL TL SL TL SL FL	28-108 28-108 32-106 32-106 35-103 35-103	62.82 62.82 67.52 67.52 68.46 68.46	71.26 78.53 59.55 74.38 54.93	34 34 29 28 28	1.113 1.272 .910 1.135 .804	1.324 -1.398 -1.881 -2.230 119 .583	1.822 1.562 1.652 2.194 1.067 .914

Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	ÿ	И	Ъ	a,	Sy.x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
SCIAENIDAE									
Bairdiella chrysura	SL	TL	12 - 151	74.48	92.97	104	1.219	2.182	1.146
	TL	SL	15 - 165	84.62	67.67	112	.815	-1.270	•937
Cynoscion nebulosus	SL	TL	8-60	26.45	33.40	20	1.224	1.020	.867
	TL	SL	10-72	33.40	26.45	20	.815	764	.707
Cynoscion regalis	SL	TL	8- 50	28.93	37.38	29	1.290	.070	•756
	TL	SL	10 - 52	33.55	25.86	29	.763	.266	•714
<u>Larimus</u> <u>fasciatus</u>	SL	TL	16- 48	31.44	42.37	27	1.336	.362	1.079
	TL	SL	22- 65	42.55	31.52	29	.751	446	.702
Leiostomus xanthurus	SL	TL	12-105	48.35	61.65	71	1.288	606	.910
	TL	SL	14-111	57.70	45.24	87	.771	.760	.893
<u>Menticirrhus</u> <u>americanus</u>	SL	TL	7-107	54.02	68.65	94	1.252	1.028	.968
	TL	SL	8-127	65.51	51.49	111	•797	726	.827
<u>Menticirrhus</u> <u>littoralis</u>	SL	TL	7 -122	59.21	73.41	102	1.216	1.393	1.062
	TL	SL	9 - 148	70.03	56.32	119	.819	-1.006	.781
<u>Menticirrhus</u> <u>saxatilis</u>	SL	TL	11- 63	30.50	38.72	36	1.233	1.116	•679
	TL	SL	13- 56	33.62	26.38	39	.814	990	•537
Micropogon undulatus	SL	TL	7- 38	17.00	22.00	16	1.369	-1.270	.810
	TL	SL	8- 52	22.00	17.00	16	.728	•995	.590
<u>Pogonias</u> <u>cromis</u>	SL	TL	19- 67	33.85	43.42	7	1.316	-1.133	• 392
	TL	SL	24- 87	43.42	33.85	7	.759	.877	• 297
<u>Sciaenops</u> <u>ocellata</u>	SL	TL	13- 32	21.60	27.40	5	1.247	.469	.664
	TL	SL	16- 40	27.40	21.60	5	•799	290	.532
<u>Stellifer</u> <u>lanceolatus</u>	SL	TL	1 7- 93	54.22	71.51	27	1.295	1.295	1.298
	TL	SL	22-123	71.51	54.22	27	.770	864	1.001
SCOMBRIDAE									
Scomberomorus maculatus	SL SL FL TL TL	FL SL TL SL FL	15-108 15-108 17-103 17-103 18-104 18-104	57.71 57.71 53.59 53.59 55.80 55.80	64.00 72.23 48.47 60.50 45.17 50.07	35 32 32 30 30	1.102 1.269 .918 1.173 .812 .883	.387 -1.026 -730 -2.349 149 .771	1.487 2.679 .761 2.506 .643 .881
SOLEIDAE									
<u>Trinectes</u> <u>maculatus</u>	SL	TL	9- 50	27.82	36.42	38	1.277	.906	1.184
	TL	SL	11- 64	34.73	26.31	48	.764	209	.661
SPARIDAE									
Archosargus probatocephalus	SL SL FL TL TL	FL TL SL SL SL FL	11- 15 11- 15 13- 18 13- 18 14- 19 14- 19	13.00 13.00 15.20 15.20 16.20 16.20	15.20 16.20 13.00 16.20 13.00 13.00	5 5 5 5 5 5 5	1.200 1.200 .811 1.000 .811 1.000	400 .600 .676 1.000 135 -1.000	• 365 • 365 • 300 • 000 • 300 • 000

fable	1Relatio	n of	standard,	fork,	and	total	lengths	in	marine	fishes	from	coastal	Georgia	Continued
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Species	Inde- pendent vari- able X	Depend- ent variable Y	Size range, independ- ent variable X	x	ÿ	N	Ъ	a	Sy.x
			<u>Mm</u> .	<u>Mm</u> .	<u>Mm</u> .				
SPARIDAEContinued									
Lagodon rhomboides	SL SL FL TL TL	FL TL SL TL SL FL	14-119 14-119 16-136 16-136 18-152 18-152	66.33 66.33 77.33 77.33 84.86 84.86	77•33 84•86 66•33 84•86 66•33 77•33	15 15 15 15 15 15	1.138 1.282 .878 1.126 .779 .886	1.873 155 -1.597 -2.252 .241 2.102	•929 1.670 .816 1.407 1.301 1.248
STROMATEIDAE									
<u>Peprilus</u> <u>alepidotus</u>	SL SL FL TL	FL TL SL TL SL FL	47-102 47-102 54-114 54-114 62-145 62-145	74.56 73.32 83.95 82.57 101.25 101.25	83.95 101.25 74.56 101.25 73.32 82.57	23 28 23 28 28 28 28	1.063 1.450 .939 1.353 .687 .737	4.693 -5.057 -4.235 -10.442 3.751 7.918	•777 1.320 •730 1.132 •908 •836
SYNGNATHIDAE									
Syngnathus fuscus	SL TL	TL SL	33 - 101 35 - 105	69.10 72.03	72.03 69.10	30 30	1.025 •975	1.175 -1.100	.404 .394
Syngnathus louisianae	SL TL	TL SL	39- 81 41- 84	55•79 58•29	58.29 55.79	24 24	1.039 .961	•313 221	.461 .443
SYNODONTIDAE									
<u>Synodus foetens</u>	SL SL FL TL TL	FL TL SL TL SL FL	32- 44 32- 44 33- 46 33- 46 35- 50 35- 50	36.07 36.07 38.30 38.30 41.23 41.23	38.30 41.23 36.07 41.23 36.07 38.30	13 13 13 13 13 13	1.093 1.188 .883 1.052 .834 .915	-1.121 -1.610 2.263 .927 1.680 .575	0.794 .436 .713 .873 .366 .814
TETRAODONTIDAE									
Sphaeroides maculatus	SL TL	TL SL	9- 37 12- 47	20.17 26.71	26.71 20.17	28 28	1.240 .802	1.699 -1.265	.619 .498
TRIGLIDAE									
Prionotus carolinus	SL TL	TL SL	35 - 73 44 - 94	51.50 65.64	65.64 51.50	14 14	1.339 .744	-3.339 2.690	.820 .611
Prionotus scitulus	SL TL	TL SL	17- 61 22- 78	37.21 46.30	46.30 37.21	13 13	1.248 .798	119 .258	1.084 .867
Prionotus tribulus	SL TL	TL SL	10- 64 13- 81	39.44 50.00	50.00 39.44	9 9	1.264 .790	.132 060	•710 •560
URANOSCOPIDAE									
Astroscopus y-graecum	SL TL	TL SL	11- 98 16- 96	41.75 52.86	55.29 39.64	51 56	1.264 .775	2.514 -1.329	1.220

[Six	factors	are	given	for	species	with	forked	caudal	fins,	two as	re giver	n for	species	without	forked	caudal	fin
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	Size range Total length	Standard length to:		Fork length to:		Total length to:	
Species		Fork length	Total length	Standard length	Total length	Standard length	Fork length
	<u>Mm</u> .						
ANGUILLIDAE							
Anguilla rostrata	46- 63		1.676 + 0.988SL			-1.498 + 1.008TL	
ARIIDAE							
Galeichthys felis	51-114	1.630 + 1.063SL	-1.245 + 1.320SL	-0.741 + 0.930FL	-2.466 + 1.228FL	~.645 + .781TL	0.756 + 0.833TL
ATHERINIDAE							
Membras martinica Menidia menidia	16- 93 14-113	.029 + 1.135SL 1.112 + 1.127SL	.154 + 1.199SL 1.534 + 1.196SL	.352 + .874FL 247 + .875FL	033 + 1.061FL .286 + 1.063FL	078 + .832TL 708 + .827TL	230 + .948TL .122 + .934TL
BATRACHOIDIDAE							
<u>Opsanus</u> tau	71-183		.280 + 1.180SL			051 + .846TL	
BELONIDAE							
Strongylura marina	23-193		2,878 + 1.061SL			-1.676 + .934TL	
BLENNIIDAE						1	
Chasmodes bosquianus Hypsoblennius hentzi	14- 84 9- 78		1.183 + 1.180SL 017 + 1.227SL			666 + .841TL .057 + .814TL	
BOTHIDAE							
<u>Etropus crossotus</u> <u>Paralichthys dentatus</u> <u>Paralichthys lethostigma</u> <u>Paralichthys squamilentus</u> <u>Scophthalmus aquosus</u>	60- 88 32- 69 26-117 26- 53 61- 99		1.346 + 1.240SL -1.992 + 1.27ISL -005 + 1.257SL 1.501 + 1.223SL 4.225 + 1.212SL			53 ⁴ + .799TL 2.013 + .777TL 563 + .800TL 986 + .812TL -2.502 + .814TL	
CARANGIDAE							
Caranx hippos Chloroscombrus chrysurus Oligoplites saurus Selene vomer Trachinotus carolinus Trachinotus falactus Trachinotus glaucus Vomer setapinnis	26-132 18-127 11-127 32-105 14-102 16-79 24-78 53-81	.838 + 1.069SL 1.417 + 1.087SL 1.544 + 1.060SL -100 + 1.099SL 1.86 + 1.100SL 2.386 + 1.082SL 1.372 + 1.122SL -3.061 + 1.169SL	195 + 1.247SL -1.408 + 1.316SL 1.143 + 1.181SL 260 + 1.338SL -1.089 + 1.340SL .950 + 1.303SL 839 + 1.326SL -5.289 + 1.410SL	756 + .935FL -1.352 + .921FL .1324 + .942FL -1.33 + .909FL -1.461 + .903FL -2.148 + .922FL -1.171 + .890FL 2.930 + .850FL	-1.246 + 1.1667L -3.204 + 1.2167L 644 + 1.1167L 070 + 1.2167L -3.146 + 1.2147L -2.292 + 1.2147L -2.447 + 1.1827L -1.682 + 1.2087L	.394 + .800TL 1.412 + .754TL 767 + .846TL .245 + .746TL 1.064 + .740TL 712 + .769TL .693 + .753TL 4.229 + .702TL	1.404 + .857TL 2.764 + .822TL .607 + .896TL 1.78 + .820TL 2.655 + .822TL 1.618 + .831TL 2.106 + .846TL 1.461 + .827TL
CLUPEIDAE							
Alosa aestivalis Alosa sapidissima Brevoortia tyrannus Dorosoma cepedianum Dorosoma petenense Harengula pensacolae Opisthonema oglinum Sardinella anchovia	35- 74 45- 74 27- 95 18-174 97-150 50- 93 56- 79 35- 97 29- 37	1.620 + 1.084SL 726 + 1.110SL 1.992 + 1.050SL .098 + 1.103SL 4.605 + 1.056SL 1.180 + 1.078SL 5.083 + .999SL .648 + 1.073SL	-1.612 + 1.2945L -3.761 + 1.3138L 191 + 1.2655L -2.796 + 1.3205L 8.000 + 1.2355L 2.766 + 1.2545L 865 + 1.2845L 665 + 1.2455L -2.417 + 1.3045L	-1.445 + .921FL .838 + .897FL -2.921 + .994FL .389 + .898FL -3.568 + .939FL -844 + .923FL -4.356 + .988FL 1.972 + .864FL .305 + .881FL	-3.448 + 1.191FL -2.738 + 1.197FL -4.188 + 1.283FL -2.712 + 1.285FL 2.668 + 1.169FL 1.401 + 1.163FL -6.727 + 1.270FL -1.875 + 1.158FL -2.505 + 1.164FL	1.292 + .772TL 3.197 + .756TL .178 + .776TL 2.531 + .751TL -5.505 + .802TL -1.700 + .790TL 1.052 + .776TL 4.265 + .735TL 2.054 + .761TL	3.051 + .836TL 2.758 + .841TL 2.032 + .81TL 2.480 + .834TL 927 + .856TL 5.924 + .778TL 3.544 + .832TL 2.523 + .848TL
CYNOGLOSSIDAE							
Symphurus plagiusa	13-138		055 + 1.096SL			.096 + .911TL	
CYPRINODONTIDAE							
Cyprinodon variegatus Fundulus heteroclitus Fundulus luciae Fundulus majalis	21- 51 7- 96 12- 39 10-116		2.133 + 1.166SL 1.580 + 1.196SL .378 + 1.210SL 1.800 + 1.182SL			-1.617 + .851TL 899 + .823TL 149 + .820TL -1.323 + .844TL	
DIODONTIDAE							
Chilomycterus schoepfi	15- 64		.944 + 1.187SL			673 + .839TL	
ECHELIDAE							
Myrophis punctatus	133-172		923 + 1.013SL			.984 + .986TL	

Table 2.--Conversion factors for standard, fork, and total lengths (millimeters) for 82 species of marine fishes occurring in coastal Georgia--Continued

	Size range Iotal length	Standard length to:		Fork length to:		Total length to:	
Species		Fork length	Total length	Standard length	Total length	Standard length	Fork length
	<u>Mm</u> .						
ELOPIDAE							
Elops saurus	29-131	0.950 + 1.056SL	-2.068 + 1.294SL	-0.844 + 0.946PL	-3.192 + 1.225FL	1.702 + 0.7717L	2.730 + 0.815TL
ENGRAULIDAE							
Anchoa hepsetus Anchoa lyolepis Anchoa mitchilli	16-117 34- 48 12- 84	.932 + 1.078SL 1.453 + 1.077SL .389 + 1.078SL	395 + 1.2285L -4.971 + 1.3785L 315 + 1.2145L	756 + .927FL .894 + .866FL 350 + .929FL	-1.508 + 1.141FL -4.436 + 1.213FL 701 + 1.126FL	.390 + .817TL 4.343 + .707TL .768 + .812TL	1.178 + .881TL 5.641 + .773TL .586 + .887TL
EFHIPPIDAE							
Chaetodipterus faber	7- 43		1.000 + 1.278SL			714 + .779TL	
GERRIDAE							
<u>Diapterus</u> <u>olisthostomus</u> Eucinostomus <u>gula</u>	23 - 72 12 - 93	.312 + 1.115SL .462 + 1.106SL	.398 + 1.3185L 901 + 1.3285L	226 + .895FL .140 + .880FL	032 + 1.184FL 601 + 1.172FL	039 + .752TL .681 + .751TL	.157 + .841TL 1.304 + .834TL
GOBIESOCIDAE							
Gobiesox strumosus	3 - 68		027 + 1.240SL			.301 + .801TL	
GOBIIDAE							
<u>Gobionellus shufeldti</u> <u>Gobiosoma hosci</u>	17 - 67 9 - 56		-1.218 + 1.352SL .061 + 1.230SL			1.004 + .740TL .246 + .806TL	
MONACANTHIDAE							
Stephenolepis hispidus	10- 50		.568 + 1.247SL			353 + .795TL	
MUGILIDAE							
Mugil <u>cephalus</u> Mugil <u>curema</u>	17 - 219 20-155	2.148 + 1.135SL 1.066 + 1.157SL	424 + 1.266SL 468 + 1.288SL	-1.584 + .877FL 542 + .860FL	-2.733 + 1.115FL -1.703 + 1.114FL	.646 + .787FL .751 + .773TL	2.233 + .900TL 1.488 + .897TL
OPHIDIIDAE							
Rissola marginata	138-184		8.411 + .973SL			-8.231 + 1.026TL	
POECILIIDAE							
<u>Gamhusia affinis</u> <u>Heterandria formosa</u> <u>Poecilia latipinna</u>	17- 46 16- 23 10- 54		.796 + 1.2765L 5.171 + .951SL 040 + 1.272SL			.156 + .758TL -4.661 + 1.013TL .328 + .771TL	
POMACENTRIDAE							
Abudefduf saxatilis	30- 42	4.327 + 1.068SL	1.948 + 1.288sL	-3.103 + .907FL	-2.498 + 1.182FL	981 + .762TL	2.934 + .823TL
POMADASYIDAE							
Orthopristis chrysopterus	14- 59	.695 + 1.169SL	-1.268 + 1.326SL	407 + .852FL	-1.682 + 1. <u>12</u> 3FL	1.121 + .751TL	1.587 + .892TL
POMATOMIDAE							
Pomatomus saltatrix	35-103	1.324 + 1.113SL	-1.398 + 1.272SL	-1.881 + .910FL	-2.230 + 1.135FL	119 + .804TL	.583 + .906TL
SCIAENIDAE							
Bairdiella chrysure Cynoscion nehulosus Cynoscion regalis Larimus fasciatus Menticirrhus americanus Menticirrhus ittoralis Menticirrhus saxatilis Micropogo undulatus Pogonias cromis Sciaenops occilata Stellifer lanceolatus	15-165 10- 72 10- 52 22- 65 14-111 8-127 9-148 13- 56 8- 52 24- 87 16- 40 22-223		2.182 + 1.2195L 1.020 + 1.2245L .070 + 1.2905L .362 + 1.3365L 606 + 1.2885L 1.028 + 1.2525L 1.116 + 1.2355L -1.270 + 1.3695L -1.133 + 1.3165L .469 + 1.2475L 1.295 + 1.2975L			-1.270 + .815TL 764 + .815TL .266 + .763TL .446 + .751TL .760 + .771TL 726 + .79TTL 726 + .79TTL 990 + .814TL .990 + .814TL .995 + .728TL .270 + .759TL 290 + .799TL 290 + .779TL	

Table 2.--Conversion factors for standard, fork, and total lengths (millimeters) for 82 species of marine fishes occurring in coastal Georgia--Continued

	Size range Total	Standard length to:		Fork leagth to:		Total length to:	
Speciea	length	Fork length	Total length	Standard length	Total length	Standard length	Fork length
SCOMBRIDAE	<u>Mim</u> •						
Scomberomorus maculatus	18-104	0.387 + 1.102SL	-1.026 + 1.269SL	-0.730 + .918FL	-2.349 + 1.173FL	-0.149 + .812TL	0.771 + .88311
SOLEIDAE							
Trinectes maculatus	11- 64		.906 + 1.277SL			209 + .764TL	
SPARIDAE							
Archosargua probatocephalus Lagodon rhomboides	14- 19 18-152	400 + 1.200SL 1.873 + 1.138SL	.600 + 1.200SL 155 + 1.282SL	.676 + .811FL -1.597 + .878FL	1.000 + 1.000FL -2.252 + 1.126FL	135 + .811TL .241 + .779TL	-1.000 + 1.000tr. 2.102 + .886trL
STROMATEIDAE							
Peprilus alepidotus	62-145	4.693 + 1.063SL	-5.057 + 1.450SL	-4.235 + .939FL	-10.442 + 1.353FL	3.751 + .687TL	7.918 + .737IL
SYNGNATHIDAE							
Syngmathus fuscus Syngmathus louisianae	35+105 41+ 84		1.175 + 1.025SL .313 + 1.039SL			-1.100 + .975TL 221 + .961TL	
SYNODONTIDAE							
Synodus foetens	35- 50	-1.121 + 1.093SL	-1.610 + 1.188SL	2.263 + .883FL	.927 + 1.052FL	1.680 + .834TL	•575 + •91511L
TETRAODONTIDAE							
Sphaeroides maculatus	12- 47		1.699 + 1.240SL			-1.265 + .802TL	
TRIGLIDAE							
Priocotus carolinus Priocotus scitulus Prionotus tribulus	44- 94 22- 78 13- 81		-3.339 + 1.339SL 119 + 1.248SL .132 + 1.264SL			2.690 + .744m .258 + .798m 060 + .790m	
URANOSCOPIDAE							
Astroscopus y-graecum	16- 96		2.514 + 1.264SL			-1.329 + .775TL	

[Common name is from American Fisheries Society Special Publication 2(1960)¹ -a second common name has been added where the AFS name may confuse species locally]

Family	Species	Common name
ANGUILLIDAE	Anguilla rostrata (LeSueur)	American eel
ARIIDAE	<u>Galeichthys</u> <u>felis</u> (Linnaeus)	Sea catfish
ATHERINIDAE	<u>Membras</u> <u>martinica</u> (Valenciennes) <u>Menidia</u> <u>menidia</u> (Linnaeus)	Rough silverside Atlantic silverside
BATRACHOIDIDAE	<u>Opsanus</u> <u>tau</u> (Linnaeus)	Oyster toadfish
BELONIDAE	Strongylura marina (Walbaum)	Atlantic needlefish
BLENNIIDAE	<u>Chasmodes</u> <u>bosquianus</u> (Lacépède) <u>Hypsoblennius hentzi</u> (LeSueur)	Striped blenny Feather blenny
BOTHIDAE	Etropus crossotus Jordan and Gilbert <u>Paralichthys dentatus</u> (Linnaeus) <u>Paralichthys lethostigma</u> Jordan and Gilbert <u>Paralichthys squamilentus</u> Jordan and Gilbert <u>Scophthalmus aquosus</u> (Mitchill)	Fringed flounder Summer flounder Southern flounder Broad flounder Windowpane
CARANGIDAE	<u>Caranx hippos</u> (Linnaeus) <u>Chloroscombrus chrysurus</u> (Linnaeus) <u>Oligoplites saurus</u> (Bloch and Schneider) <u>Selene vomer</u> (Linnaeus) <u>Trachinotus carolinus</u> (Linnaeus) <u>Trachinotus falcatus</u> (Linnaeus) <u>Trachinotus glaucus</u> (Bloch) <u>Vomer setapinnis</u> (Mitchill)	Crevalle jack Bumper Leatherjacket Lookdown Pompano Permit Palometa Atlantic moonfish
CLUPEIDAE	<u>Alosa aestivalis</u> (Mitchill) <u>Alosa sapidissima</u> (Wilson) <u>Brevoortia smithi</u> Hildebrand <u>Brevoortia tyrannus</u> (Latrobe) <u>Dorosoma cepedianum</u> (LeSueur) <u>Dorosoma petenense</u> (Gunther) <u>Harengula pensacolae</u> Goode and Bean <u>Opisthonema oglinum</u> (LeSueur) <u>Sardinella anchovia</u> Valenciennes	Blue back herring American shad Yellowfin shad Atlantic menhaden Gizzard shad Threadfin shad Scaled sardine Atlantic thread herring Spanish sardine

¹ A list of common and scientific names of fishes from the United States and Canada, by Reeve M. Bailey, <u>et al</u>. 1960. Amer. Fish. Soc. Spec. Publ. No. 2 (2nd ed.), 102 p.

Family	Species	Common name
CYNOGLOSSIDAE	Symphurus plagiusa (Linnaeus)	Blackcheek tonguefish
CYPRINODONTIDAE	<u>Cyprinodon variegatus</u> Lacèpéde Fundulus heteroclitus (Linnaeus) <u>Fundulus luciae</u> (Baird) <u>Fundulus majalis</u> (Walbaum)	Sheepshead minnow Mummichog Spotfin killifish Striped killifish
DIODONTIDAE	<u>Chilomycterus</u> <u>schoepfi</u> (Walbaum)	Striped burrfish
ECHELIDAE	<u>Myrophis</u> <u>punctatus</u> Lutken	Speckled worm eel
ELOPIDAE	<u>Elops</u> <u>saurus</u> Linnaeus	Ladyfish
ENGRAULIDAE	<u>Anchoa hepsetus</u> (Linnaeus) <u>Anchoa lyolepis</u> (Evermann and Marsh) <u>Anchoa mitchilli</u> (Valenciennes)	Striped anchovy Dusky anchovy Bay anchovy
EPHIPPIDAE	Chaetodipterus faber (Broussonet)	Atlantic spadefish
GERRIDAE	<u>Diapterus</u> <u>olisthostomus</u> (Goode and Bean) <u>Eucinostomus</u> <u>gula</u> (Quoy and Gaimard)	Irish pompano; mojarra Silver jenny; mojarra
GOBIESOCIDAE	Gobiesox strumosus Cope	Skilletfish
GOBIIDAE	<u>Gobionellus shufeldti</u> (Jordan and Evermann) <u>Gobiosoma bosci</u> (Lacepede)	Freshwater goby Naked goby
MONACANTHIDAE	<u>Stephanolepis</u> <u>hispidus</u> (Linnaeus)	Planehead filefish
MUGILIDAE	<u>Mugil cephalus</u> Linnaeus <u>Mugil curema</u> Valenciennes	Striped mullet White mullet
OPHIDIIDAE	<u>Rissola</u> <u>marginata</u> (DeKay)	Striped cusk-eel
POECILIIDAE	<u>Gambusia affinis</u> (Baird and Girard) <u>Heterandria formosa</u> Agassiz <u>Poecilia latipinna</u> (LeSueur)	Mosquitofish Least killifish Sailfin molly
POMACENTRIDAE	<u>Abudefduf</u> <u>saxatilis</u> (Linnaeus)	Sergeant major
POMADASYIDAE	Orthopristis chrysopterus (Linnaeus)	Pigfish
POMATOMIDAE	Pomatomus saltatrix (Linnaeus)	Bluefish

Table 3.--List of scientific and common names of fishes--Continued

Family	Species	<u>Common</u> name
SCIAENIDAE	Bairdiella chrysura (Lacépède)Cynoscion nebulosus (Cuvier)Cynoscion regalis (Bloch and Schneider)Larimus fasciatus HolbrookLeiostomus xanthurus LacépèdeMenticirrhus americanus (Linnaeus)Menticirrhus littoralis (Holbrook)Menticirrhus saxatilis (Bloch and Schneider)Micropogon undulatus (Linnaeus)Pogonias cromis (Linnaeus)Sciaenops ocellata (Linnaeus)Stellifer lanceolatus (Holbrook)	Silver perch; yellowtail Spotted seatrout Weakfish; gray seatrout Banded drum Spot Southern kingfish Gulf kingfish Northern kingfish Atlantic croaker Black drum Red drum; channel bass Star drum
SCOMBRIDAE	Scomberomorus maculatus (Mitchill)	Spanish mackerel
SOLEIDAE	Trinectes maculatus (Bloch and Schneider)	Hogchoker
SPARIDAE	<u>Archosargus probatocephalus</u> (Walbaum) <u>Lagodon rhomboides</u> (Linnaeus)	Sheepshead Pinfish
STROMATEIDAE	Peprilus alepidotus (Linnaeus)	Southern harvestfish
SYNGNATHIDAE	<u>Syngnathus fuscus</u> Storer <u>Syngnathus louisianae</u> Günther	Northern pipefish Chain pipefish
SYNODONTIDAE	Synodus foetens (Linnaeus)	Inshore lizardfish
TETRAODONTIDAE	Sphaeroides maculatus (Bloch and Schneider)	Northern puffer
TRIGLIDAE	<u>Prionotus</u> <u>carolinus</u> (Linnaeus) <u>Prionotus</u> <u>scitulus</u> Jordan and Gilbert <u>Prionotus</u> <u>tribulus</u> Cuvier	Northern searobin Leopard searobin Bighead searobin
URANOSCOPIDAE	<u>Astroscopus</u> <u>y-graecum</u> (Cuvier)	Southern stargazer

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