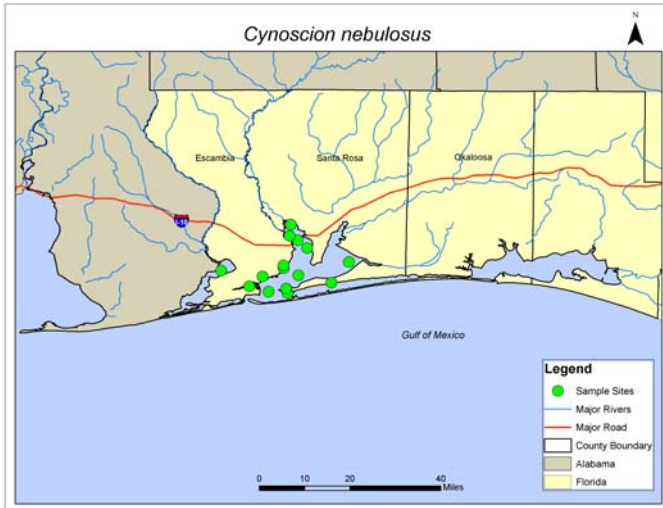


Spotted Seatrout *Cynoscion nebulosus*

Sample Locations



Mercury content

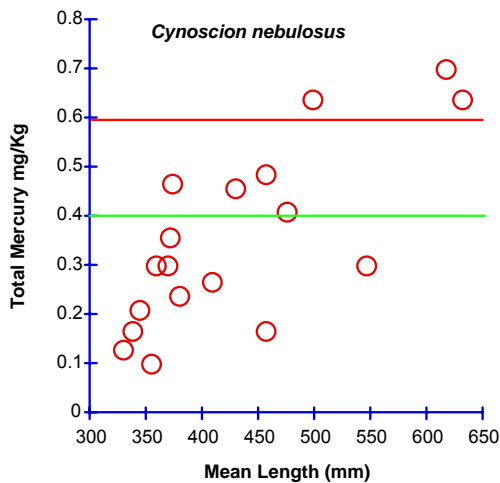
Higher in larger fish throughout the area.

Areas with High PCB samples

Upper and West Escambia Bay
Bayou Grande

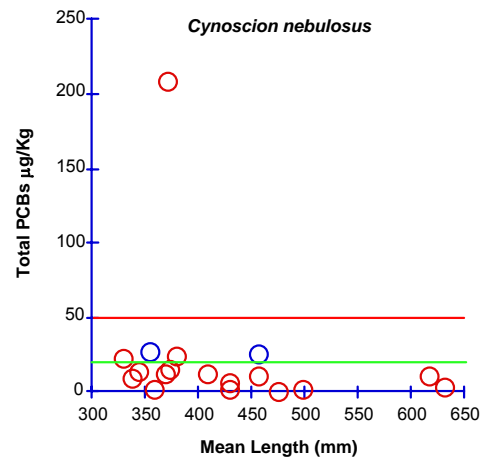
Twelve Sample locations provided 18 samples and 49 fish. Five samples were individual fish, the others were composites of 3 to 5 fish each. Mercury increased with fish size throughout the area to the point where 8 samples had mercury concentrations higher than the US EPA screening value. With the exception of a single sample, PCB content was lower than for other species sampled in the same locations, including the Escambia I-10 bridge site which had the highest PCB concentrations found during the course of the study. Five of 18 samples were above the US EPA screening value for total PCBs. Eight of 18 samples exceeded the US EPA screening value for TEQ.

Mercury Content

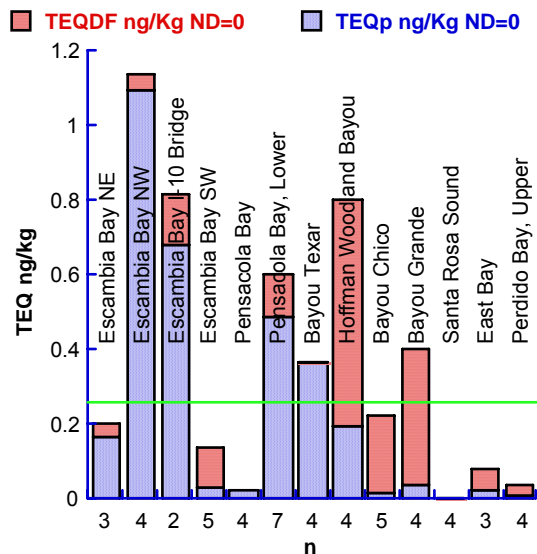


Red line: State of Florida action limit at 0.6 mg/kg.
Green line: US EPA recreational consumption action limit at 0.4 mg/kg.

PCB content



Red line: State of Florida action limit at 50 µg/kg. .
Green line: US EPA recreational consumption action limit at 20 µg/kg. Blue symbols from I-10 Bridge, Escambia Bay



Toxicity of Dioxins Furans (TEQ_{DF}) and PCBs (TEQ_P) in Speckled Seatrout from NW Florida waters. Low values were recorded from East Bay, Santa Rosa Sound, and Perdido Bay. The green line is the US EPA recreational consumption action limit at 0.256 ng/kg. State of Florida does not have an official action limit established for TEQ values.

Location	n	Mean Lgth (mm)	Mean Wgt (g)	Mean Age	% Lipid	TEQ _{DF} ng/Kg ND=0	TEQ _P ng/Kg ND=0	TEQ _{DFP} ng/Kg ND=0	ΣPCBs ug/Kg	Hg mg/kg	LAT	LONG
Bayou Chico	5	336	343.2	1.1	0.30	0.2014	0.0177	0.2191	9.276	0.170	30.404	-87.255
Bayou Grande	4	328	284.6	1.1	0.20	0.3620	0.0367	0.3987	23.401	0.130	30.372	-87.297
Bayou Texar	3	428	626.7	2.7	0.40	0.0059	0.6300	0.6359	6.110	0.460	30.439	-87.188
Bayou Texar	1	630	1790.0	6.0	0.50	0.0000	0.0971	0.0971	4.030	0.64	30.439	-87.188
East Bay	3	455	836.7	3.5	0.50	0.0548	0.0219	0.0767	10.976	0.490	30.450	-86.980
Esc. Bay I-10	1	354	350.0		0.20	0.0768	0.6807	0.7575	27.000	0.1	30.519	-87.142
Esc. Bay I-10	1	455	820.0		0.30	0.1951	0.6826	0.8777	26.300	0.17	30.519	-87.142
Esc. Bay NE	3	407	623.3	1.8	0.30	0.0360	0.1638	0.1998	12.928	0.270	30.569	-87.165
Esc. Bay NW	1	371	370.0	1.0	0.30	0.0185	2.1435	2.1620	209.32	0.360	30.533	-87.169
Esc. Bay NW	3	379	466.1	1.0	0.40	0.0639	0.0488	0.1127	24.572	0.240	30.533	-87.169
Esc. Bay SW	5	343	330.6	1.0	0.30	0.1085	0.0286	0.1371	14.640	0.210	30.494	-87.113
Hoffman-Woodland	4	497	1050.0	2.9	0.70	0.6048	0.1940	0.7988	2.320	0.640	30.365	-87.179
Pensacola Bay	4	368	420.0	1.7	0.60	0.0000	0.0234	0.0234	11.900	0.300	30.407	-87.141
Pensacola Bay, Lower	3	373	516.7	3.6	0.10	0.3480	0.0396	0.3876	16.197	0.470	30.355	-87.236
Pensacola Bay	3	428	646.7	2.6	0.40	0.0000	0.0028	0.0028	1.630	0.370	30.355	-87.236
Pensacola Bay	1	615	1430.0		0.20	0.0000	1.4071	1.4071	10.383	0.700	30.355	-87.236
Perdido Bay	4	358	393.6	1.1	0.20	0.0320	0.0043	0.0363	1.805	0.300	30.422	-87.387
Santa Rosa Sound	3	475	850.0	2.1	0.20	0.0006	0.0009	0.0015	0.500	0.410	30.356	-87.100