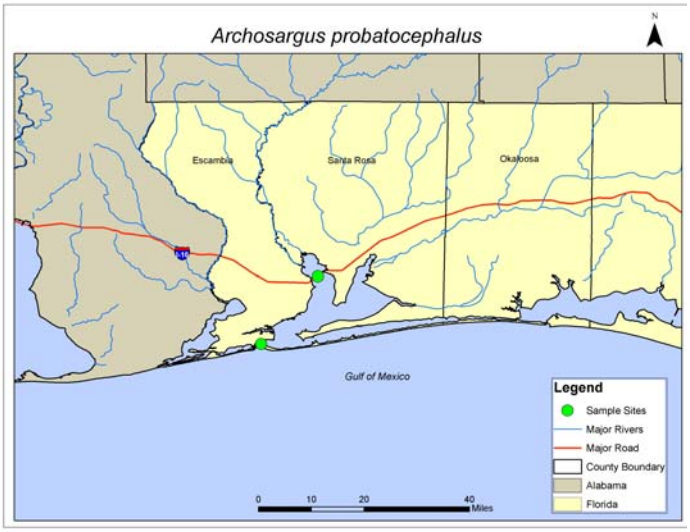
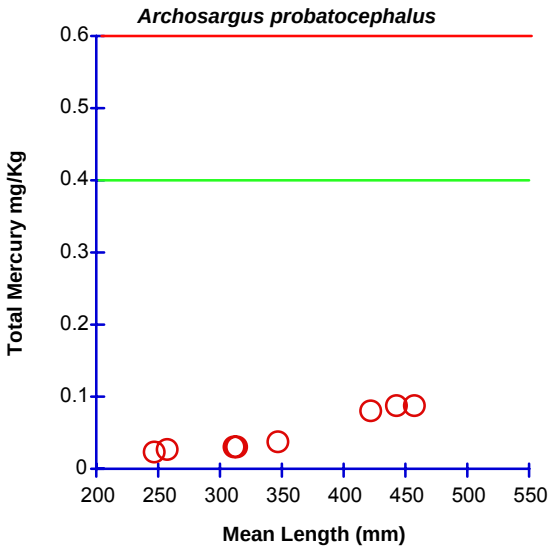
Sheepshead
Archosargus probatocephalus

Sample Locations



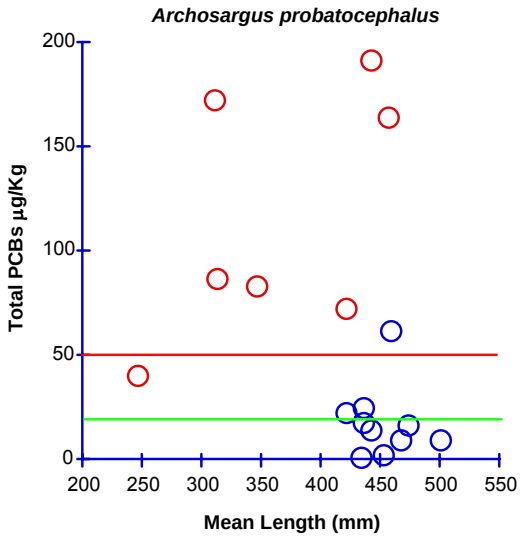
Eighteen fish were sampled from two locations: Pensacola Pass during the annual spawning aggregation, and from the Escambia Bay I-10 Bridge demolition blast. Mercury content was determined for the 8 samples taken from Pensacola pass, and although accumulation with age was observed, the concentrations were all well below the US EPA screening value. PCB content, however, was above the US EPA screening value for three of the eight samples from Pensacola Pass where fish had congregated for the annual spawning. All of the samples from the I-10 Escambia Bay Bridge were well above the US EPA Screening value. Only one sample from both locations was below the US EPA screening value for TEQ.

Mercury Content

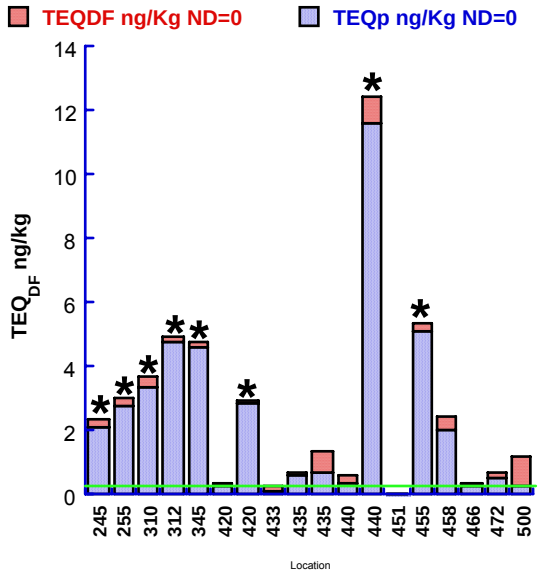


Red line: State of Florida action limit at 0.6 mg/kg. Green line: US EPA recreational consumption action limit at 0.4 mg/kg

PCB content



State of Florida action limit 50 µg/kg (red line). US EPA recreational consumption action limit 20 µg/kg (green line). Red symbols I-10 Bridge, Esc. Bay



Toxicity of Dioxins Furans (TEQ_{DF}) and PCBs (TEQ_P) in Sheepshead from Pensacola Bay. High values, with one exception, were obtained for fish collected at the I-10 bridge (starred samples) in Escambia 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 Weight (g)	% 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
Escambia Bay I-10	1	245	280.0	1.00	0.1846	2.1508	2.3354	**41.100**	0.025	30.519	-87.143
Escambia Bay I-10	1	255	340.0	0.80	0.1913	2.8072	2.9985	**54.100**	0.03	30.519	-87.143
Escambia Bay I-10	1	310	610.0	1.80	**0.3154**	**3.4060**	**3.7214**	**173.00**	0.035	30.519	-87.143
Escambia Bay I-10	1	312	550.0	0.70	0.2094	4.7738	4.9832	**87.700**	0.035	30.519	-87.143
Escambia Bay I-10	1	345	700.0	0.70	0.1699	4.6129	4.7828	**83.700**	0.039	30.519	-87.143
Escambia Bay I-10	1	420	1350.0	0.60	0.1026	2.8624	2.9650	**73.600**	0.085	30.519	-87.143
Escambia Bay I-10	1	440	1580.0	2.60	**0.8599**	**11.599**	**12.459**	**192.00**	0.089	30.519	-87.143
Escambia Bay I-10	1	455	1770.0	1.60	**0.2838**	**5.1068**	**5.3906**	**165.00**	0.092	30.519	-87.143
Pensacola Pass	1	420	1230.0	0.20	0.0956	0.2458	0.3414	**23.000**		30.334	-87.299
Pensacola Pass	1	433	1400.0	0.30	0.1414	0.1105	0.2519	2.150		30.334	-87.299
Pensacola Pass	1	435	1620.0	0.40	0.0841	0.6006	0.6847	**25.100**		30.334	-87.299
Pensacola Pass	1	435	1310.0	1.00	**0.6197**	**0.7205**	**1.3402**	18.200		30.334	-87.299
Pensacola Pass	1	440	1670.0	0.90	0.2482	0.3786	0.6268	14.600		30.334	-87.299
Pensacola Pass	1	451	1650.0	0.30	0.0000	0.0166	0.0166	2.570		30.334	-87.299
Pensacola Pass	1	458	1550.0	0.60	**0.4506**	**2.0207**	**2.4713**	**62.300**		30.334	-87.299
Pensacola Pass	1	466	1470.0	0.40	0.0857	0.2980	0.3837	10.200		30.334	-87.299
Pensacola Pass	1	472	1530.0	0.40	0.1522	0.5279	0.6801	16.700		30.334	-87.299
Pensacola Pass	1	500	1980.0	0.70	**0.9019**	**0.3197**	**1.2216**	9.640		30.334	-87.299