

Screening/threshold values for human health

Florida Department of Health

<http://www.doh.state.fl.us/environment/medicine/fishconsumptionadvisories/index.html>

Recommended Fish Consumption Rate vs *methyl*-mercury Concentration in Fish, as used for Florida Fish Consumption Advisories

Meal Frequency	Uncooked Filet Size	Advice Location	Sensitive population ¹ ppm	General Population ² ppm
2 meals per week	8 oz	Freshwater	<0.10	<0.37
1 meal per week	8 oz	Freshwater	<0.20	<0.60
1 meal per month	8 oz	Freshwater	<0.85	<1.50
None		Freshwater	≥0.85	≥1.50
1 meal per week	12 oz	Commercial	<0.122	
1 meal per week	4 oz	Commercial	<0.37	
None		Commercial	≥0.37	

¹Sensitive population= women of childbearing age and young children. Based on USEPA's reference dose (RfD) for methyl mercury, 1×10^{-4} mg/kg-body weight/day. Assumed body weight of 60 kg.

²General population = all other individuals. Based on USEPA's RfD for *methyl* mercury , 3×10^{-4} mg/kg-bodyweight/day. Assumed body weight of 70 kg.

Total PCB threshold value: 50 ppb

TEQ threshold value has not been designated

Federal

US EPA. 2000. Guidance for Assessing Chemical Contamination Data for Use in Fish Advisories. Volume 1. Fish Sampling and Analysis. 3rd ed. EPA 823-B-00-007.

Compound	US FDA action/tolerance level	US EPA Recreational Fishers Screening value	US EPA Subsistence Fishers Screening value
Mercury (Hg)	1.0 ppm	0.40 ppm	0.049 ppm
Total PCBs	2000 ppb	20 ppb	2.45 ppb
TEQ _{DFP}		0.256 ppt	0.14 ppt

Use of a human body weight of 70 kg (average adult) and a consumption rate of 17.5 g/d for recreational fishers and 142.4 g/d for subsistence fishers to calculate SVs .