

PFOS - Fish Sampling Results

NOTE: This handout is an UPDATE to the information provided at the February 2014 public meeting.

The State of Michigan meal categories and **FINAL** Fish Consumption Screening Values (FCSVs) for perfluorooctane sulfonate (PFOS) are:

Meal Category <i>meals per month^{1,2}</i>	FCSV Ranges <i>parts per billion (ppb)</i>
16	≤ 9
12	>9 to 13
8	>13 to 19
4	>19 to 38
2	>38 to 75
1	>75 to 150
6 meals per year	>150 to 300
Do Not Eat	>300

¹ Units are in meals per month unless otherwise stated.

² A “meal” is described as a “MI Serving,” the weight of which changes with body weight. For example, a MI Serving is 8 ounces for an 80 kilogram (kg) person, 4 ounces for a 40 kg person, and 2 ounces for a 20 kg person (MDHHS 2014).

(from the 2014 Michigan Fish Consumption Advisory Program guidance document, available at www.michigan.gov/eatsafefish. Click on “Reports and Science” button)



The PFOS results for fish sampled from waterbodies near the former Wurtsmith Air Force Base, to date, are: ¹

Waterbody	Species	Collection Year(s)	No. detected / No. samples	PFOS Concentration Range (ppb)
Clark's Marsh - Upper Pond	Largemouth Bass	2012	4 / 4	3,110 - 8,720
	Pumpkinseed	2011, 2012	19 / 19	1,990 - 9,580
	Yellow Perch	2012	2 / 2	2,750 - 2,930
Clark's Marsh - Middle Pond	Pumpkinseed	2012	4 / 4	2,760 - 4,500
	Yellow Perch	2012	1 / 1	1,770
Clark's Marsh - Lower Pond	Bluegill	2011	1 / 1	1,290
	Largemouth Bass	2012	4 / 4	683 - 1,100
	Pumpkinseed	2011, 2012	7 / 7	334 - 828
Allen Lake	Largemouth Bass	2012	1 / 1	2
Lower Au Sable River	Bluegill	2012	1 / 1	41
	Pumpkinseed	2012	3 / 3	35 - 2,956*
	Rainbow Trout	2013	10 / 10	7 - 28
	Rock Bass	2012	8 / 8	7 - 49
	Smallmouth Bass	2011, 2012	20 / 20	14 - 424
	Walleye	2013	7 / 7	10 - 30
	White Sucker	2011	10 / 10	6 - 143
Van Etten Lake	Pumpkinseed	2012	10 / 10	6 - 13
	Rock Bass	2012	10 / 10	5 - 18
	Walleye	2010	10 / 10	4 - 46
	White Sucker	2010	10 / 10	1 - 28
	Yellow Perch	2012	2 / 2	6 - 13
Tuttle Marsh	Pumpkinseed	2012	1 / 4	1
Northern and central Lake Huron (between Upper Peninsula and tip of Michigan's "thumb")	Brown Trout	2010	1 / 1	49
	Channel Catfish	2010	1 / 1	73
	Freshwater Drum	2010	3 / 3	13 - 25
	Lake Trout	2010	17 / 17	3 - 43
	Lake Whitefish	2010	1 / 1	7
	Rainbow Trout	2010	4 / 4	4 - 23
	Smallmouth Bass	2010	1 / 1	17
	Walleye	2010	1 / 1	23

*One pumpkinseed sample from the lower Au Sable River result was 2,956 ppb; the other two samples were 35 and 52 ppb. The MDHHS analytical laboratory rechecked and confirmed the very high result.

¹ These fish samples were collected by various state and federal programs. The data used to set the May 2012 "Do Not Eat" recommendations were the 2011 samples from Clark's Marsh. MDHHS followed the Michigan Fish Consumption Advisory Program guidance document when the agency included non-migratory fish in the lower Au Sable River in the "Do Not Eat" recommendations.