

2008 MPCA Fish PFC Data

Note: This summary table is only for concentrations of PFOS in fish from the lakes and rivers listed below. Please consult the Minnesota Department of Health's Fish Consumption Advice web page <http://www.health.state.mn.us/divs/eh/fish/index.html> for fish consumption advice.

Minneapolis / St. Paul Metro Area Lakes

		Average PFOS Concentration [ng/g; ppb]											ng/L
Water body	County	Bluegill	Bluegill (comp)	Black Crappie	Black Crappie (comp)	Large mouth Bass	Small mouth Bass	Walleye	Sauger	Northern Pike	Pumpkin seed	Pumpkin seed (comp)	Surface Water
Alimagnet 19002100	Dakota	24 (6)	25 (6)	31 (6)	32 (6)	ns	ns	ns	ns	ns	ns	ns	ns
Bennett 62004800	Ramsey	40 (6)	37 (6)	47 (5)	59 (4)	ns	ns	ns	ns	51 (5)	ns	ns	ns
Calhoun 27003100	Hennepin	204 (5)	267 (4)	267 (6)	ns	426 (5)	ns	ns	ns	ns	ns	ns	37 (3)
Casey 62000500	Ramsey	ns	ns	12 (5)	15 (5)	ns	ns	ns	ns	ns	ns	ns	ns
Cedar 27003900	Hennepin	50 (8)	ns	68 (2)	ns	137 (5)	ns	ns	ns	ns	ns	ns	<dl (3)
Elmo 82010600	Washington	145 (5)	196 (5)	ns	ns	524 (2)	ns	ns	ns	ns	ns	ns	28 (3)
Fish 19005700	Dakota	76 (6)	74 (6)	102 (5)	99 (6)	ns	ns	ns	ns	135 (5)	18 (5)	16 (6)	ns
Harriet 27001600	Hennepin	137 (5)	ns	138 (5)	ns	227 (5)	ns	ns	ns	ns	ns	ns	30 (3)
Hyland 27004800	Hennepin	12 (5)	ns	24 (5)	ns	43 (5)	ns	ns	ns	ns	ns	ns	ns
Lake of the Isles 27004000	Hennepin	68 (3)	ns	167 (6)	ns	197 (5)	ns	ns	ns	ns	ns	ns	14 (3)
Lee 19002900	Dakota	23 (6)	21 (6)	38 (5)	29 (4)	ns	ns	ns	ns	ns	ns	ns	ns
Louise 82002500	Washington	7 (5)	< dl (5)	6 (5)	< dl (5)	ns	ns	ns	ns	ns	ns	ns	ns
Medicine 27010400	Hennepin	22 (5)	40 (5)	35 (5)	52 (5)	48 (8)	ns	ns	ns	ns	ns	ns	ns

(Minneapolis / St. Paul Metro Area Lakes – continued)

		PFOS Concentration [ng/g; ppb]											ng/L
Water body	County	Bluegill	Bluegill (comp)	Black Crappie	Black Crappie (comp)	Large mouth Bass	Small mouth Bass	Walleye	Sauger	Northern Pike	Pumpkin seed	Pumpkin seed (comp)	Surface Water
Northland 82030500	Washington	33 (5)	29 (4)	68 (5)	ns	ns	ns	ns	ns	ns	ns	ns	ns
Pelican 86003100	Wright	<dl (5)	<dl (6)	<dl (5)	<dl (6)	<dl (5)	ns	ns	ns	ns	ns	ns	ns
Round 27007100	Hennepin	49 (5)	ns	ns	ns	127 (1)	ns	ns	ns	ns	ns	ns	ns
Spring 02007100	Anoka	7 (6)	6 (6)	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Staring 27007800	Hennepin	17 (5)	ns	16 (5)	ns	28 (5)	ns	ns	ns	ns	ns	ns	ns
Steiger 10004500	Carver	6 (4)	ns	6 (2)	ns	10 (5)	ns	ns	ns	ns	ns	ns	ns
Sweeney 27003501	Hennepin	26 (5)	ns	29 (3)	ns	50 (5)	ns	ns	ns	ns	ns	ns	ns
Twin 27004200	Hennepin	397 (6)	ns	419 (5)	ns	480 (5)	ns	ns	ns	ns	ns	ns	ns
Waconia 10005900	Carver	<dl (5)	ns	<dl (5)	ns	ns	ns	ns	ns	ns	ns	ns	ns

Mississippi River: Minneapolis / St. Paul Metro Area

		Average PFOS Concentration [ng/g; ppb]											ng/L
Water body	County	Bluegill	Bluegill (comp)	Black Crappie	Black Crappie (comp)	Large mouth Bass	Small mouth Bass	Walleye	Sauger	Northern Pike	Pumpkin seed	Pumpkin seed (comp)	Surface Water
Mississippi River Pool 2		173 (5)	ns	46 (1)	ns	ns	162 (5)	46 (4)	34 (2)	ns	ns	ns	<dl (11)
Mississippi River Pool 3		162 (5)	ns	ns	ns	ns	62 (5)	79 (5)	ns	58 (1)	ns	ns	6 (11)

Outstate Lakes

Water body	County	Average PFOS Concentration [ng/g; ppb]											ng/L
		Bluegill	Bluegill (comp)	Black Crappie	Black Crappie (comp)	Large mouth Bass	Small mouth Bass	Walleye	Sauger	Northern Pike	Pumpkin seed	Pumpkin seed (comp)	Surface Water
Fish Lake Flowage 69049102	St. Louis	43 (5)	ns	87 (5)	ns	88 (5)	ns	87 (5)	ns	47 (5)	ns	ns	13 (3)
Wild Rice Lake 69037100	St. Louis	62 (5)	ns	164 (5)	ns	ns	ns	132 (5)	ns	120 (5)	ns	ns	113 (3)

PFOS – perfluorooctane sulfonate
ng/g – nanograms per gram; ppb – parts per billion
ng/L – nanograms per liter (equivalent to parts per trillion (ppt))
Water body – name of river or lake and Minnesota DNR lake identification number
Numbers listed: average of detected PFOS concentrations (# of fish samples or # of water samples)
comp – composite; tissue from several fish is combined prior to analysis
<dl – less than detection limit (approx. 2.5 – 5 ng/g)
ns – not sampled
Note: with the exception of the Mississippi river samples, fish and water samples were not collected on the same date

Concentration of PFOS
≤ 40 ng/g
> 40 - 200 ng/g
> 200 - 800 ng/g
> 800 ng/g

Samples were analyzed for the 13 different perfluorochemicals listed.

			CAS #
PFBA	C-4	perfluorobutanoic acid	375-22-4
PFBS	C-4	perfluorobutane sulfonate	375-73-5
PFPeA	C-5	perfluoropentanoic acid	2706-90-3
PFHxA	C-6	perfluorohexanoic acid	307-24-4
PFHxS	C-6	perfluorohexane sulfonate	355-46-4
PFHpA	C-7	perfluoroheptanoic acid	375-85-9
PFOA	C-8	perfluorooctanoic acid	335-67-1
PFOS	C-8	perfluorooctane sulfonate	1763-23-1
PFOSA	C-8	perfluorooctane sulfonamide	754-91-6
PFNA	C-9	perfluorononanoic acid	375-95-1
PFDA	C-10	perfluorodecanoic acid	335-76-2
PFUnA	C-11	perfluoroundecanoic acid	2058-94-8
PFDoA	C-12	perfluorododecanoic acid	307-55-1

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