

Watershed Summary Information

Accounting Unit Name:	Fox
State(s):	WI
Political Boundaries:	Brown, Outagamie, Calumet, Winnebago
Major Waterways:	Fox R East R Apple Cr Dutchman Cr Ashwaubenon Cr
Number of Stations in Watershed:	Tier1 - 49 Tier2 - 2 Tier3 - .

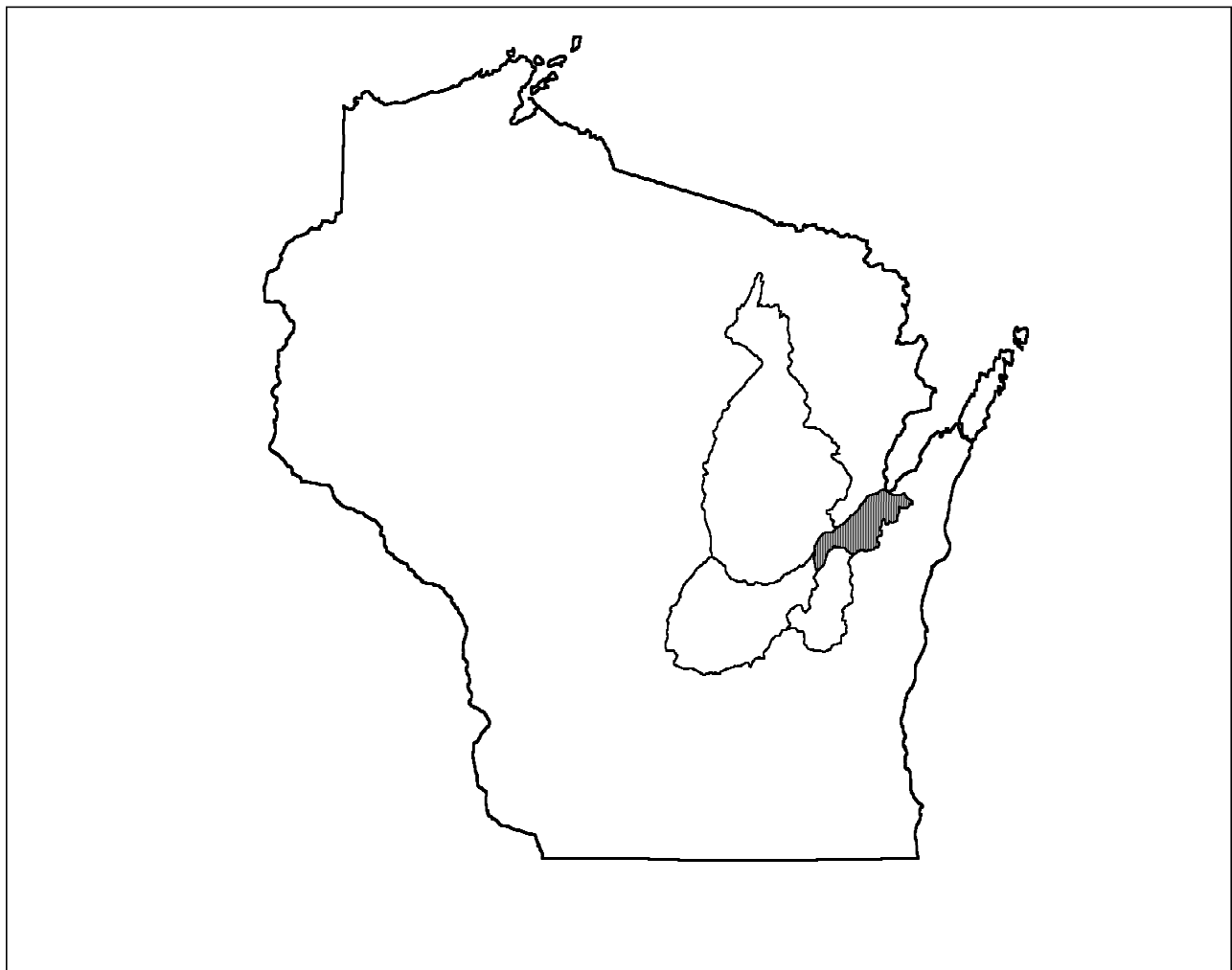


Figure 47. Watershed Location Map

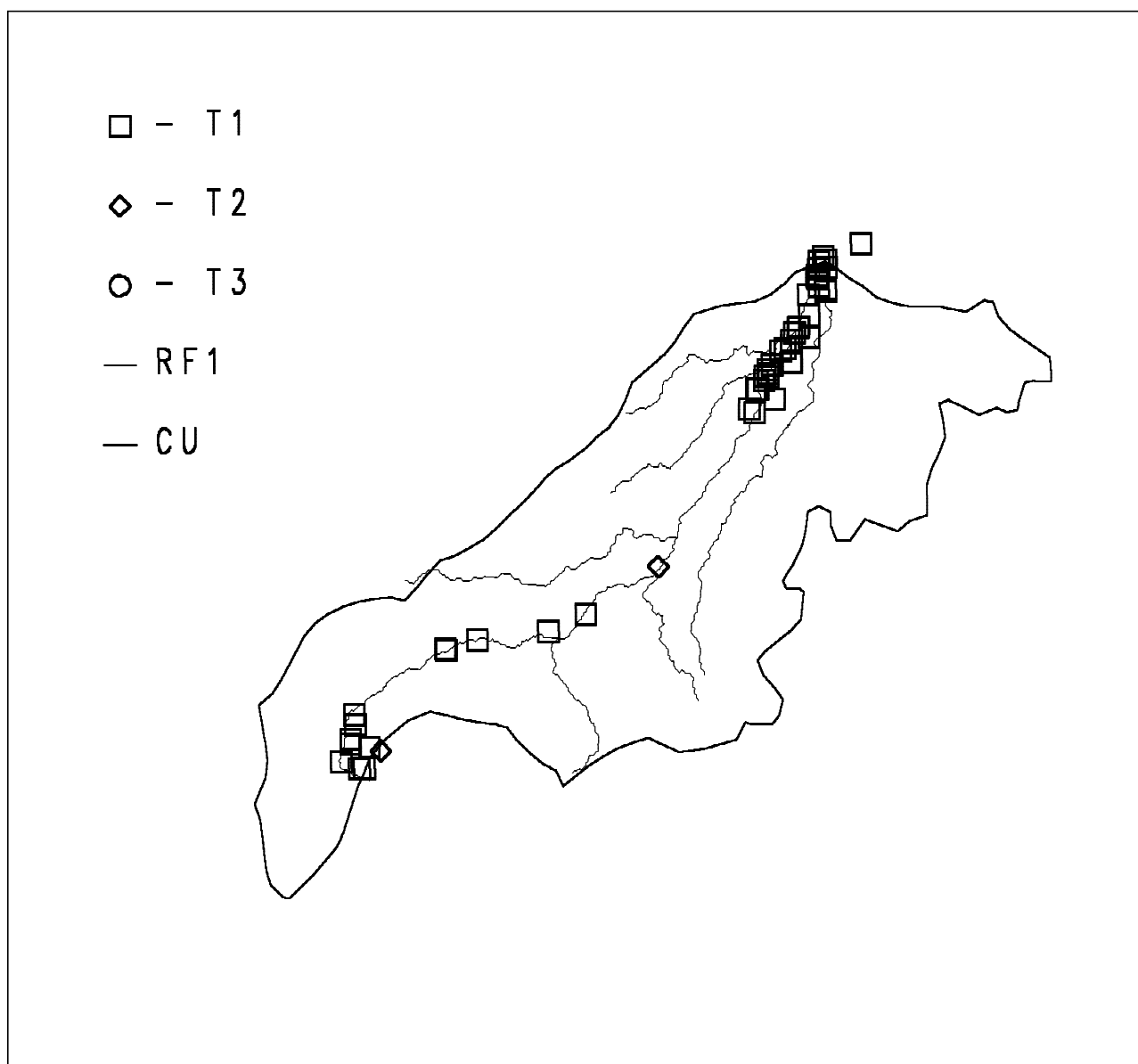


Figure 48. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **GR. LAKE** Agency: **22**

Monitoring Program: **USEPA-ERL-Duluth**

Num. of Stations: 11 Date Range: 1988

Source: **STORET** Agency: **11BIOACC**

Monitoring Program: **USEPA National Bioaccumulation Study**

Num. of Stations: 3 Date Range: 1984-87

Source: **STORET** Agency: **1115GLSB**

Monitoring Program: **USEPA Region 5 Great Lakes Surveillance Branch Data**

Num. of Stations: 11 Date Range: 1981

Source: **STORET** Agency: **112WRD**
Monitoring Program: **US Geological Survey Data**
Num. of Stations: 1 Date Range: 1981-84

Source: **STORET** Agency: **21WIS**
Monitoring Program: **Wisconsin DNR Div Env Protection Water And Sediment Data**
Num. of Stations: 10 Date Range: 1980-92

Source: **STORET** Agency: **21WITIS**
Monitoring Program: **Tissue Data Wisconsin Dept of Nat Res Div of Environ Protection**
Num. of Stations: 15 Date Range: 1980-89

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Polychlorinated biphenyls	42	42	41	1	21	1	20	22
Copper	37	29	.	29	.	29	.	.
Lead	36	29	.	29	.	28	.	1
Mercury	38	26	21	5	21	5	.	.
DDT	36	24	8	16	8	10	.	15
Chromium	37	21	2	19	2	19	.	.
Cadmium	28	17	.	17	.	17	.	.
Nickel	22	17	.	17	.	17	.	.
Pyrene	19	16	.	16	.	16	.	.
Dioxins	15	14	3	11	.	.	3	11
Zinc	22	14	.	14	.	14	.	.
Anthracene	12	10	1	9	1	9	.	.
Chrysene	12	10	.	10	.	10	.	.
Anthracene&Phenanthrene	9	9	3	6	3	6	.	.
BHC	28	9	.	9	.	8	.	7
Naphthalene	9	8	1	7	1	7	.	.
Benzo(a)pyrene	12	8	.	8	.	8	.	8
Bis(2-ethylhexyl)phthalate	9	6	2	4	2	4	.	2
Fluoranthene	19	6	.	6	.	6	.	.
Hexachlorobenzene	18	6	.	6	.	6	.	1
Benzo(a)anthracene/Chrysene	5	5	2	3	2	3	.	5
Silver	19	5	1	4	1	4	.	.
Dichlorobenzene, 1,2-	6	4	1	3	1	3	.	.
Dichloromethane	11	4	.	4	.	.	.	4
Arsenic	12	3	.	3	.	3	.	.
Heptachlor epoxide	8	3	.	3	.	.	.	3
Acenaphthene	3	2	.	2	.	2	.	.
Dieldrin	26	2	.	2	.	.	.	2
Fluorene	3	2	.	2	.	2	.	.
Chlordane	27	1	.	1	.	1	.	1

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Dichlorobenzene, 1,4-	6	1	.	1	.	1	.	.
Endosulfan, beta-	4	1	.	1	.	1	.	.
Heptachlor	5	1	.	1	.	.	.	1

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	3	70.00	90.00	2	120.00	90.00
Acenaphthylene	1	0.00	0.00	0	.	.
Aldrin	2	0.00	0.00	0	.	.
Anthracene	12	448.33	330.00	11	1600.00	20.00
Anthracene&Phenanthrene	9	805.56	800.00	9	1420.00	170.00
Arsenic	10	6689.00	6650.00	10	10100.00	4900.00
Benzene	3	11.33	12.00	3	14.00	8.00
Benzo(a)anthracene	1	0.00	0.00	0	.	.
Benzo(a)anthracene/Chrysene	5	1202.00	1100.00	5	2010.00	600.00
Benzo(a)pyrene	12	235.83	185.00	9	940.00	80.00
Benzo(b)fluoranthene	1	0.00	0.00	0	.	.
Benzo(ghi)perylene	1	0.00	0.00	0	.	.
Benzo(k)fluoranthene	1	0.00	0.00	0	.	.
Bis(2-ethylhexyl)phthalate	9	1333.33	1000.00	8	4100.00	120.00
Bromophenyl phenyl ether, 4-	1	0.00	0.00	0	.	.
Butyl benzyl phthalate	1	0.00	0.00	0	.	.
BHC	31	56.61	0.00	11	1201.00	0.09
Cadmium	22	1341.36	1170.00	21	3370.00	300.00
Chlordane	24	1.57	0.31	21	31.00	0.08
Chlorobenzene	1	4.00	4.00	1	4.00	4.00
Chromium	34	101390.3	76485.00	34	420000.0	16000.00
Chrysene	12	567.50	585.00	10	1610.00	200.00
Copper	34	70852.94	69875.00	34	200000.0	13000.00
Di-n-butyl phthalate	9	199.67	217.00	8	358.00	100.00
Di-n-octyl phthalate	1	0.00	0.00	0	.	.
Diazinon/Spectracide	1	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	1	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	6	158.33	110.00	5	500.00	30.00
Dichlorobenzene, 1,3-	1	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	6	75.00	65.00	5	200.00	20.00
Dichloromethane	11	4092.91	2249.00	11	13070.00	210.00
Dieldrin	13	0.40	0.23	9	1.27	0.07
Diethyl phthalate	3	60.00	60.00	2	120.00	60.00
Dimethyl phthalate	1	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	1	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dioxins	23	3550.05	0.01	21	81600.22	0.00
DCPA/Dacthal	2	3.00	3.00	2	4.00	2.00
DDT	48	39.34	8.41	41	355.00	0.40
Endosulfan mixed isomers	2	0.00	0.00	0	.	.
Endosulfan, beta-	4	7.50	6.50	4	14.00	3.00
Endrin	13	0.16	0.16	8	0.58	0.16
Ethion/Bladen	1	0.00	0.00	0	.	.
Fluoranthene	19	503.68	410.00	18	1240.00	20.00
Fluorene	3	53.33	70.00	2	90.00	70.00
Heptachlor	3	56.67	0.00	1	170.00	170.00
Heptachlor epoxide	6	53.50	3.00	4	285.00	2.00
Hexachlorobenzene	9	75.56	33.00	8	420.00	9.00
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Hexachloroethane	1	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	1	0.00	0.00	0	.	.
Isophorone	1	0.00	0.00	0	.	.
Lead	33	172475.2	110000.0	33	1400000	25000.00
Malathion	1	0.00	0.00	0	.	.
Mercury	31	1810.97	1400.00	31	5600.00	30.00
Methoxychlor	13	4.76	3.98	10	17.02	1.82
Mirex/Dechlorane	13	0.00	0.00	0	.	.
Naphthalene	9	258.89	170.00	8	600.00	100.00
Nickel	22	39741.36	38100.00	22	124600.0	6000.00
Nitrosodiphenylamine, N-	1	0.00	0.00	0	.	.
Pentachlorophenol	1	0.00	0.00	0	.	.
Phenanthrene	12	448.33	330.00	11	1600.00	20.00
Phenol	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	37	1730.70	824.00	37	14450.00	100.00
Pyrene	19	597.89	620.00	18	1540.00	50.00
Silver	23	503.04	0.00	8	5800.00	300.00
Tetrachloroethene	11	7.09	6.00	11	15.00	3.00
Toluene	11	13.27	10.00	11	57.00	4.00
Toxaphene	2	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	2	15.00	15.00	1	30.00	30.00
Zinc	22	166181.8	160000.0	22	338000.0	35000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	27	0.00	0.00	0	.	.
Arsenic	33	0.00	0.00	0	.	.
Biphenyl	3	0.00	0.00	0	.	.

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
BHC	65	1.13	0.00	6	20.00	4.65
Cadmium	33	18.18	0.00	2	300.00	300.00
Chlordane	180	1.05	0.00	7	60.00	3.63
Chlorpyrifos/Dursban	3	0.00	0.00	0	.	.
Chromium	34	0.00	0.00	0	.	.
Copper	34	1538.24	1450.00	34	2600.00	800.00
Dicofol/Kelthane	3	0.00	0.00	0	.	.
Dieldrin	44	2.02	0.00	5	60.00	0.02
Dioxins	6	0.00	0.01	6	0.01	0.00
DDT	262	75.37	0.00	60	1650.00	42.50
Endrin	32	0.00	0.00	0	.	.
Heptachlor	3	0.00	0.00	0	.	.
Heptachlor epoxide	3	0.00	0.00	0	.	.
Hexachlorobenzene	33	0.00	0.00	0	.	.
Hexachlorobutadiene	3	0.00	0.00	0	.	.
Isopropalin	3	0.00	0.00	0	.	.
Lead	34	147.06	0.00	1	5000.00	5000.00
Mercury	40	106.00	70.00	36	740.00	10.00
Methoxychlor	34	2.94	0.00	2	50.00	50.00
Mirex/Dechlorane	3	1.07	0.00	1	3.21	3.21
Pentachlorobenzene	3	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	3	0.00	0.00	0	.	.
Pentachlorophenol	44	0.00	0.00	0	.	.
Polychlorinated biphenyls	175	7913.77	3200.00	173	50000.00	140.00
Selenium	1	0.00	0.00	0	.	.
Tetrachlorobenzene, 1,2,4,5-	3	0.00	0.00	0	.	.
Toxaphene	5	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	3	0.00	0.00	0	.	.
Trifluralin/Treflan	3	0.00	0.00	0	.	.