

Watershed Summary Information

Accounting Unit Name:	Muskingum
State(s):	OH
Political Boundaries:	Tuscarawas, Harrison, Stark, Belmont, Carroll, Guernsey, Wayne, Summit, Coshocton, Medina
Major Waterways:	Tuscarawas R Conotton Cr Sugar Cr Piedmont Res Clendening Res
Number of Stations in Watershed:	Tier1 - 10 Tier2 - 53 Tier3 - 15

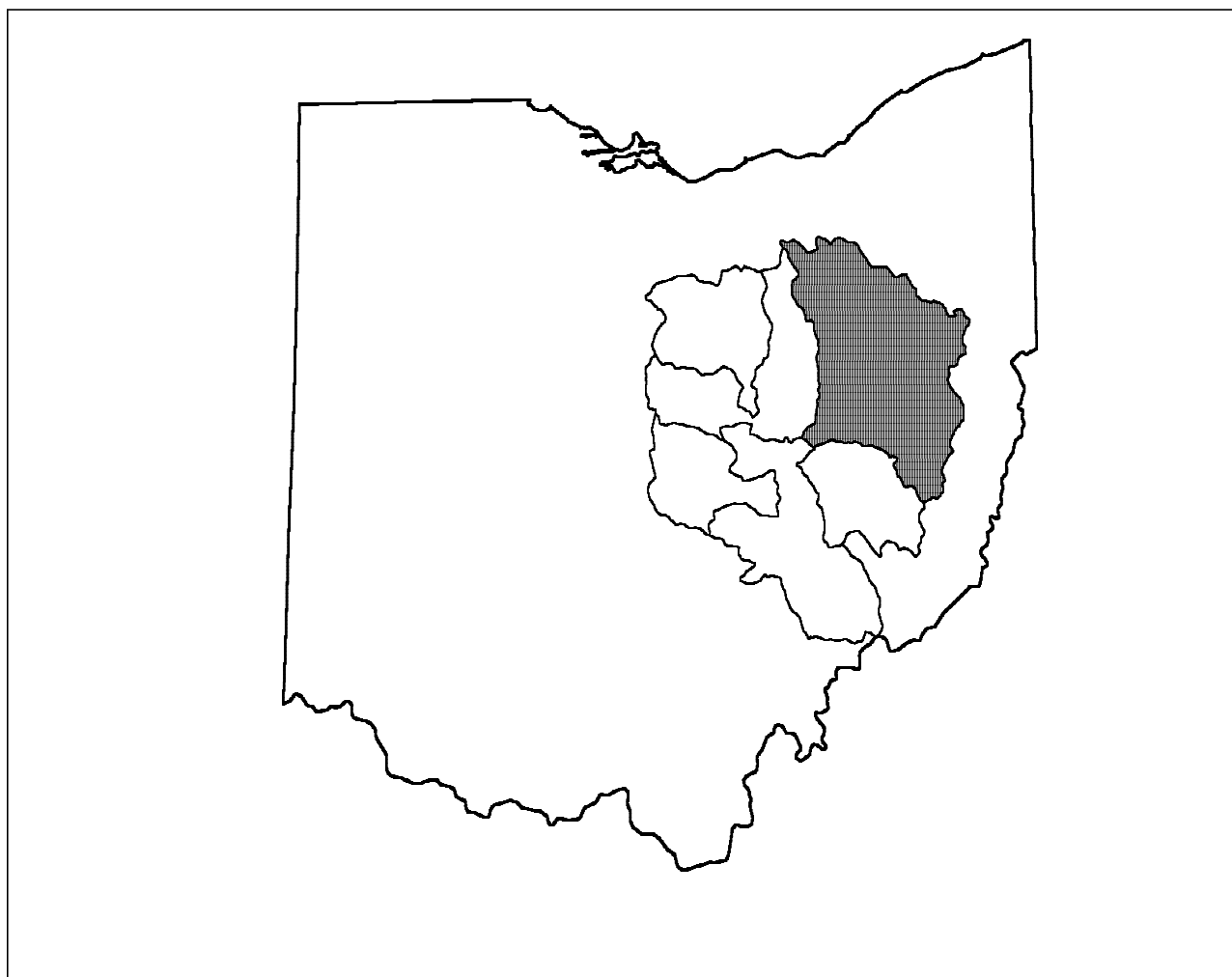


Figure 89. Watershed Location Map

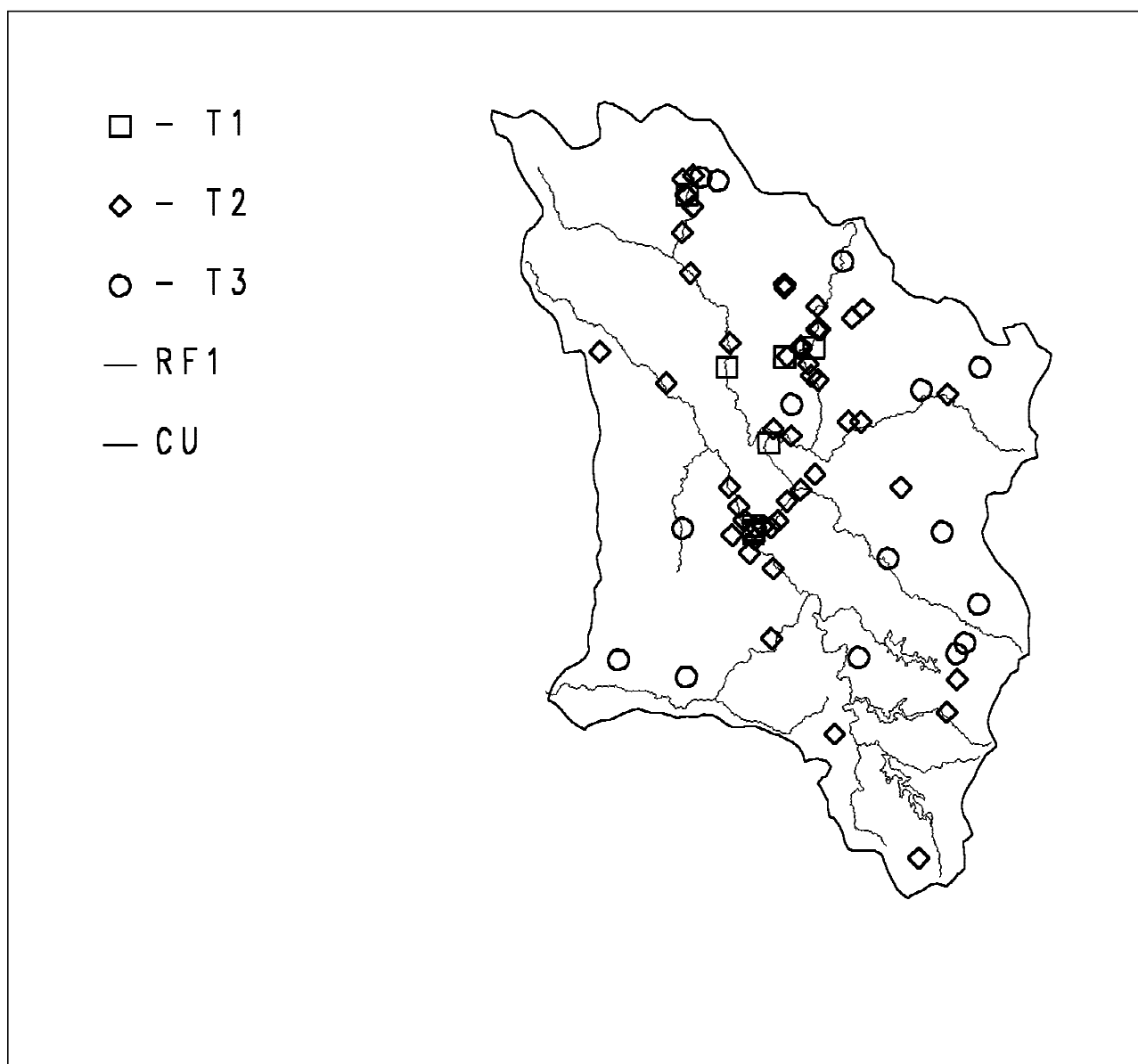


Figure 90. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11140100**
 Monitoring Program: **USEPA Region 5 Data**
 Num. of Stations: 1 Date Range: 1980

Source: **STORET** Agency: **112WRD**
 Monitoring Program: **US Geological Survey Data**
 Num. of Stations: 21 Date Range: 1980-81

Source: **STORET** Agency: **21OHIO**
 Monitoring Program: **Ohio EPA Water, Sediment, Tissue And Drinking Water Data**
 Num. of Stations: 56 Date Range: 1985-90

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
Lead	78	43	.	43	.	43	.	.
Nickel	56	42	.	42	.	42	.	.
Zinc	77	37	.	37	.	37	.	.
Arsenic	65	33	2	31	2	31	.	.
Copper	75	33	.	33	.	33	.	.
Cadmium	74	24	.	24	.	24	.	.
Chromium	77	20	7	13	7	13	.	.
Dieldrin	7	5	.	5	.	5	.	5
DDT	7	4	1	3	1	3	.	1
Hexachlorobenzene	9	4	.	4	.	4	.	4
BHC	7	2	1	1	1	1	.	1
Aldrin	7	2	.	2	.	.	.	2
Endosulfan, alpha-	7	2	.	2	.	2	.	.
Fluoranthene	9	2	.	2	.	2	.	.
Pyrene	9	2	.	2	.	2	.	.
Polychlorinated biphenyls	8	1	1	.	1	.	.	1
Chrysene	9	1	.	1	.	1	.	.
Endosulfan, beta-	7	1	.	1	.	1	.	.
Phenanthrene	9	1	.	1	.	1	.	.
Silver	1	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	9	0.00	0.00	0	.	.
Acenaphthylene	9	0.00	0.00	0	.	.
Aldrin	7	1.57	0.00	2	6.36	4.61
Anthracene	9	0.00	0.00	0	.	.
Arsenic	74	12362.84	6910.00	74	96700.00	990.00
Benzene	1	0.00	0.00	0	.	.
Benzo(a)anthracene	9	0.00	0.00	0	.	.
Benzo(a)pyrene	9	0.00	0.00	0	.	.
Benzo(b)fluoranthene	9	0.00	0.00	0	.	.
Benzo(ghi)perylene	9	0.00	0.00	0	.	.
Benzo(k)fluoranthene	9	188.89	0.00	2	1000.00	700.00
Bis(2-ethylhexyl)phthalate	9	0.00	0.00	0	.	.
Bromophenyl phenyl ether, 4-	9	0.00	0.00	0	.	.
Butyl benzyl phthalate	9	0.00	0.00	0	.	.
BHC	28	0.78	0.00	4	8.02	1.65
Cadmium	101	969.76	224.00	71	18500.00	62.10

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Chlorobenzene	1	0.00	0.00	0	.	.
Chromium	108	114925.9	10100.00	79	6420000	2960.00
Chrysene	9	55.56	0.00	1	500.00	500.00
Copper	103	31527.28	15000.00	89	296000.0	5000.00
Di-n-butyl phthalate	9	0.00	0.00	0	.	.
Di-n-octyl phthalate	9	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	9	0.00	0.00	0	.	.
Dibromochloromethane	1	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	9	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	9	25.22	0.00	1	227.00	227.00
Dichlorobenzene, 1,4-	9	0.00	0.00	0	.	.
Dichloroethane 1,1-	1	0.00	0.00	0	.	.
Dichloroethane 1,2-	1	0.00	0.00	0	.	.
Dichloroethene, trans-1,2-	1	0.00	0.00	0	.	.
Dichloromethane	1	0.00	0.00	0	.	.
Dichloropropane, 1,2-	1	0.00	0.00	0	.	.
Dieldrin	7	11.25	6.77	5	42.40	3.62
Diethyl phthalate	9	0.00	0.00	0	.	.
Dimethyl phthalate	9	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	9	0.00	0.00	0	.	.
DDT	21	7.34	0.00	6	90.30	5.04
Endosulfan, alpha-	7	2.02	0.00	2	9.00	5.13
Endosulfan, beta-	7	3.57	0.00	2	18.00	7.00
Endrin	7	4.21	0.00	2	22.40	7.07
Ethylbenzene	1	0.00	0.00	0	.	.
Fluoranthene	9	200.00	0.00	2	1000.00	800.00
Fluorene	9	0.00	0.00	0	.	.
Heptachlor	7	0.00	0.00	0	.	.
Heptachlor epoxide	7	0.00	0.00	0	.	.
Hexachlorobenzene	9	1355.56	0.00	4	5040.00	560.00
Hexachlorobutadiene	9	0.00	0.00	0	.	.
Hexachloroethane	9	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	9	0.00	0.00	0	.	.
Isophorone	9	0.00	0.00	0	.	.
Lead	108	72224.63	29200.00	92	1870000	7010.00
Mercury	18	16.67	8.50	11	78.00	6.00
Naphthalene	9	0.00	0.00	0	.	.
Nickel	73	79589.18	43000.00	71	760000.0	7260.00
Nitrosodiphenylamine, N-	9	0.00	0.00	0	.	.
Pentachlorophenol	9	0.00	0.00	0	.	.
Phenanthrene	9	88.89	0.00	1	800.00	800.00
Phenol	8	0.00	0.00	0	.	.
Polychlorinated biphenyls	56	32.14	0.00	1	1800.00	1800.00
Pyrene	9	155.56	0.00	2	900.00	500.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Silver	6	1166.67	1000.00	6	2000.00	400.00
Tetrachloroethane, 1,1,2,2-	1	0.00	0.00	0	.	.
Tetrachloroethene	1	0.00	0.00	0	.	.
Tetrachloromethane	1	0.00	0.00	0	.	.
Toluene	1	0.00	0.00	0	.	.
Tribromomethane/Bromoform	1	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	9	0.00	0.00	0	.	.
Trichloroethane, 1,1,1-	1	0.00	0.00	0	.	.
Trichloroethane, 1,1,2-	1	0.00	0.00	0	.	.
Trichloroethene	1	0.00	0.00	0	.	.
Trichloromethane/Chloroform	1	0.00	0.00	0	.	.
Xylenes	1	0.00	0.00	0	.	.
Zinc	105	548385.7	102000.0	105	29600000	9000.00