

Watershed Summary Information

Accounting Unit Name:	Upper Mississippi-Meramec
State(s):	IL
Political Boundaries:	Jackson, Williamson, Franklin, Jefferson, Perry, Union, Washington, Hamilton, Johnson, Perry
Major Waterways:	Rend L Beaucoup Cr Crab Orchard Cr Rend L Crab Orchard L
Number of Stations in Watershed:	Tier1 - 23 Tier2 - 65 Tier3 - 6

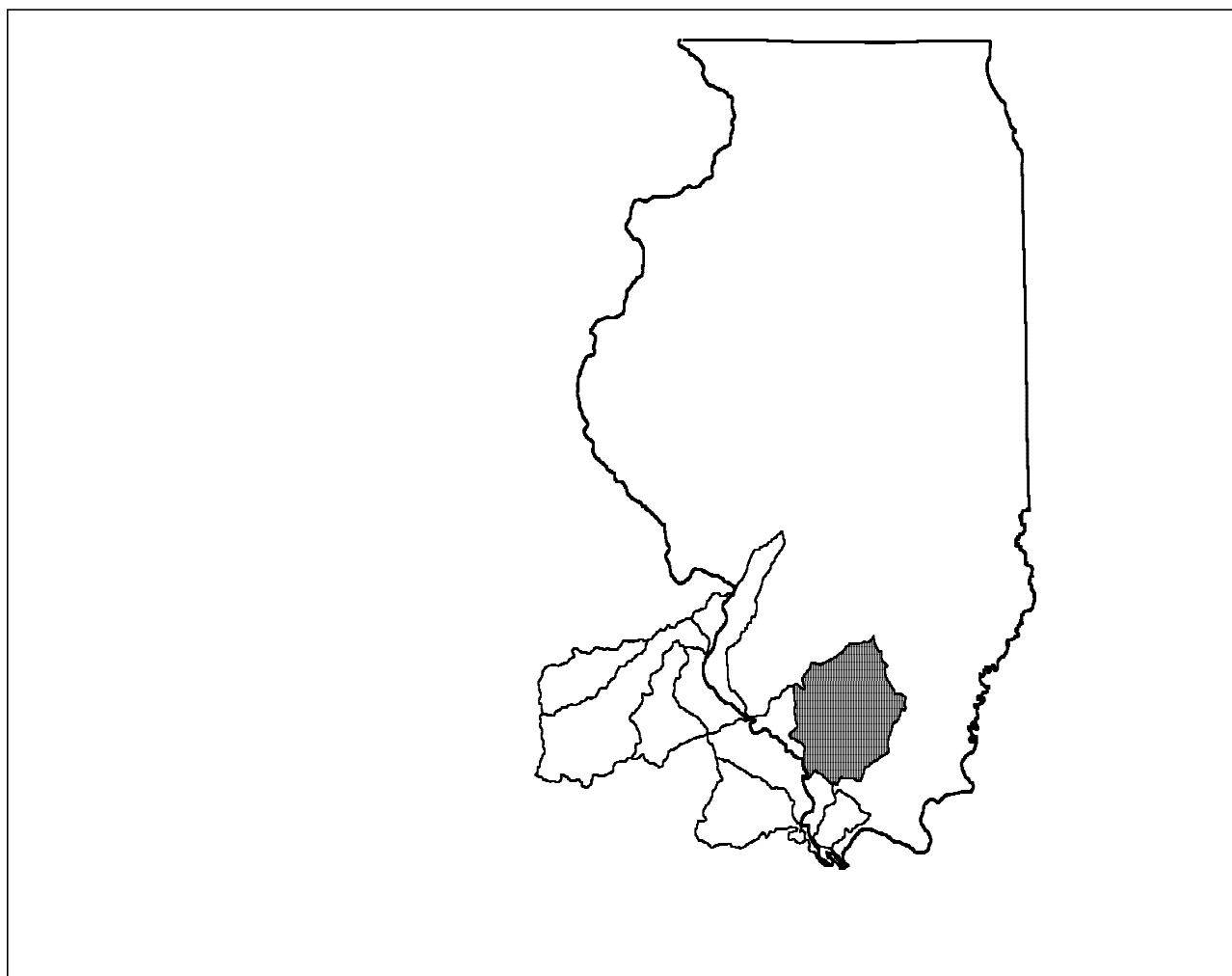


Figure 135. Watershed Location Map

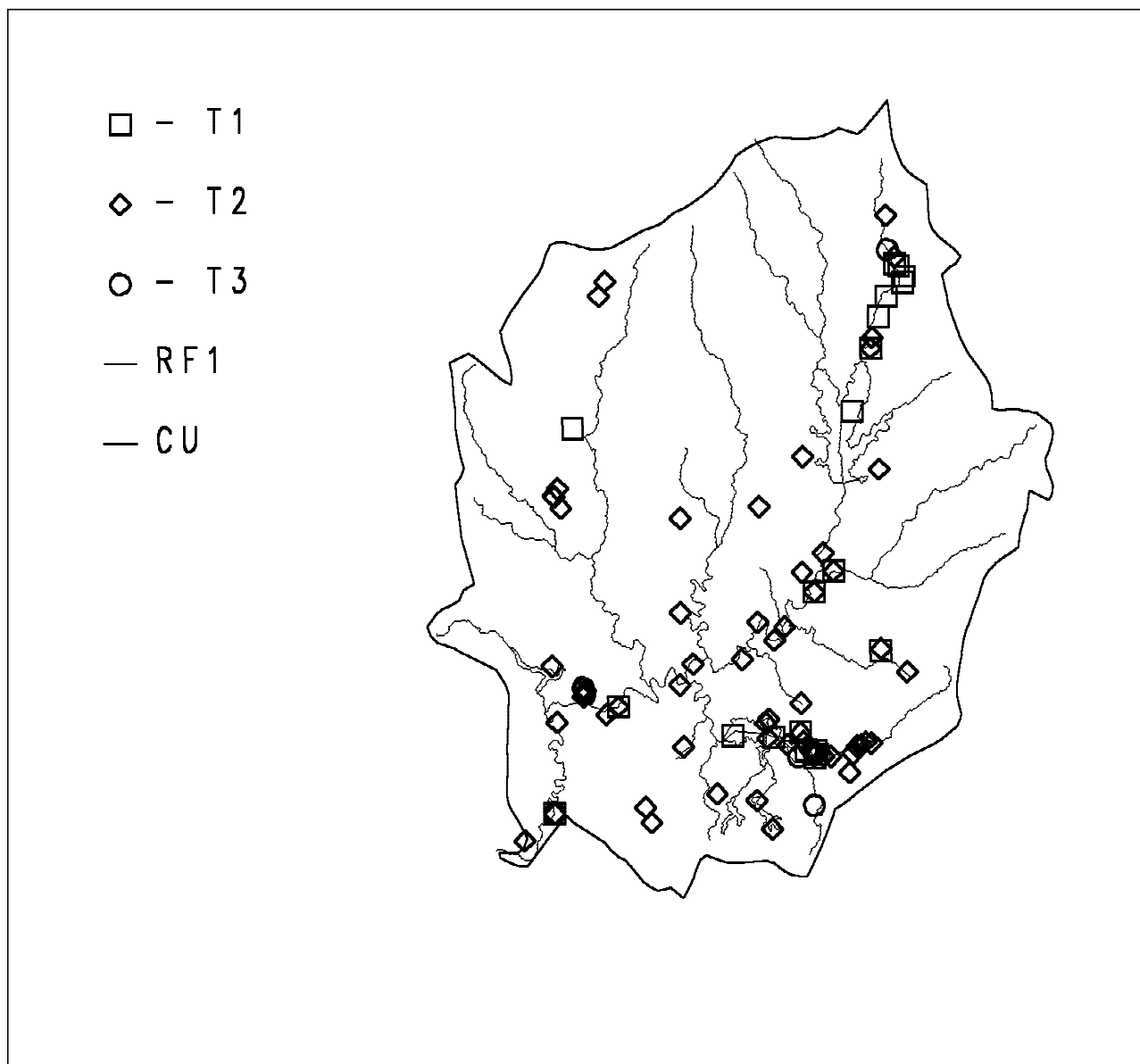


Figure 136. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11BIOACC**
 Monitoring Program: **USEPA National Bioaccumulation Study**
 Num. of Stations: 1 Date Range: 1984

Source: **STORET** Agency: **112WRD**
 Monitoring Program: **US Geological Survey Data**
 Num. of Stations: 1 Date Range: 1981-82

Source: **STORET** Agency: **21ILAMB**
 Monitoring Program: **Illinois EPA Ambient Water Quality Monitoring Data**
 Num. of Stations: 1 Date Range: 1981-82

Source: **STORET** Agency: **21ILFISH**
Monitoring Program: **USEPA Region 5 Data**
Num. of Stations: 16 Date Range: 1980-92

Source: **STORET** Agency: **21ILLAKE**
Monitoring Program: **USEPA Region 5 Data**
Num. of Stations: 41 Date Range: 1981-93

Source: **STORET** Agency: **21ILSED**
Monitoring Program: **Illinois EPA Div of Water Pollution Control Data**
Num. of Stations: 34 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
Lead	75	42	.	42	.	42	.	.
Cadmium	72	39	.	39	.	39	.	.
Copper	72	39	.	39	.	39	.	.
Polychlorinated biphenyls	91	33	20	13	8	9	12	21
Dieldrin	88	32	.	32	.	17	.	30
Chlordane	86	26	.	26	.	14	.	23
Arsenic	72	24	2	22	2	22	.	.
Nickel	24	22	.	22	.	22	.	.
Mercury	85	16	2	14	2	14	.	.
Zinc	72	15	.	15	.	15	.	.
DDT	86	12	.	12	.	7	.	7
Heptachlor epoxide	87	9	.	9	.	.	.	9
Chromium	72	2	.	2	.	2	.	.
Aldrin	69	1	.	1	.	.	.	1
Silver	24	1	.	1	.	1	.	.

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	83	0.00	0.00	0	.	.
Arsenic	120	10169.17	5200.00	120	271900.0	2000.00
BHC	166	0.00	0.00	0	.	.
Cadmium	120	1850.00	0.00	49	48000.00	900.00
Chlordane	306	1.11	0.00	41	38.00	1.60
Chromium	120	18697.50	17000.00	120	75000.00	7000.00
Copper	120	24312.50	19000.00	120	116000.0	5800.00
Dieldrin	122	0.37	0.00	25	4.50	1.00
DDT	604	0.34	0.00	24	33.00	1.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Endosulfan mixed isomers	4	0.00	0.00	0	.	.
Endrin	83	0.01	0.00	1	1.00	1.00
Heptachlor	82	0.00	0.00	0	.	.
Heptachlor epoxide	121	0.13	0.00	8	4.00	1.10
Hexachlorobenzene	79	0.00	0.00	0	.	.
Lead	120	35065.00	30000.00	117	140000.0	8000.00
Mercury	121	187.29	77.00	110	9610.00	13.00
Methoxychlor	83	0.00	0.00	0	.	.
Mirex/Dechlorane	4	0.00	0.00	0	.	.
Nickel	29	25965.52	24000.00	29	47000.00	12000.00
Polychlorinated biphenyls	132	221.52	0.00	35	11000.00	4.00
Silver	29	34.48	0.00	1	1000.00	1000.00
Toxaphene	4	0.00	0.00	0	.	.
Zinc	120	101225.0	87850.00	120	490000.0	26600.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	295	0.03	0.00	1	10.00	10.00
BHC	560	0.04	0.00	2	10.00	10.00
Chlordane	324	45.55	23.50	205	530.00	10.00
Dieldrin	340	17.47	0.00	160	870.00	10.00
DDT	330	77.49	28.50	252	1750.00	10.00
Endrin	295	0.00	0.00	0	.	.
Heptachlor	296	0.00	0.00	0	.	.
Heptachlor epoxide	324	2.13	0.00	68	57.00	0.01
Hexachlorobenzene	277	0.04	0.00	1	10.00	10.00
Lead	10	96.00	50.00	10	290.00	30.00
Mercury	74	110.95	100.00	73	440.00	10.00
Methoxychlor	281	0.07	0.00	2	10.00	10.00
Mirex/Dechlorane	277	0.00	0.00	0	.	.
Polychlorinated biphenyls	306	642.09	270.00	197	11000.00	100.00
Toxaphene	281	0.00	0.00	0	.	.