

Watershed Summary Information

Accounting Unit Name:	Middle Tennessee-Elk
State(s):	AL TN (GA)
Political Boundaries:	Jackson, Marshall, De Kalb, Marion, Franklin, Grundy, Dade, Blount, Etowah
Major Waterways:	Tennessee R Town Cr Crow Cr Short Cr Guntersville L
Number of Stations in Watershed:	Tier1 - 25 Tier2 - 46 Tier3 - 21

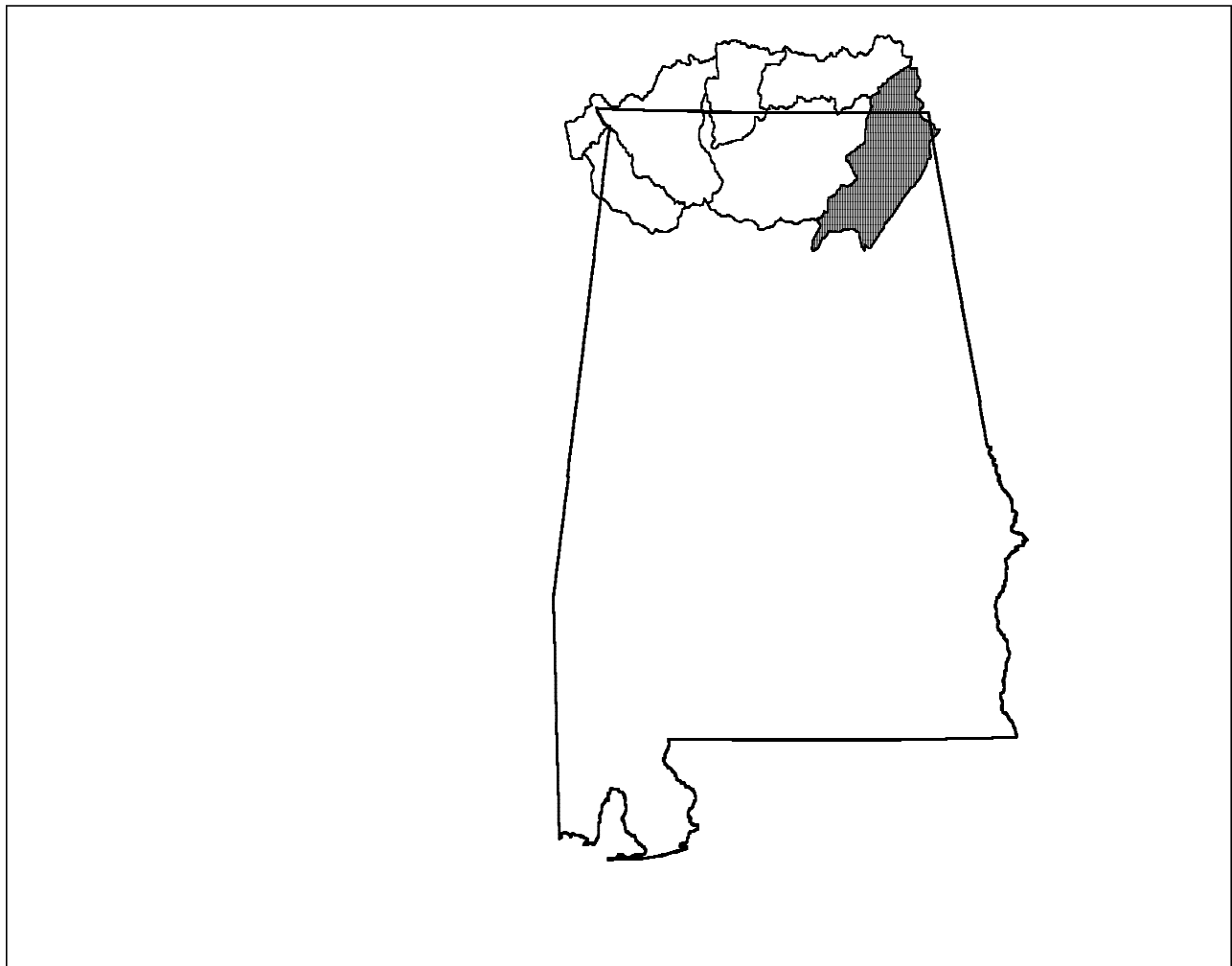


Figure 105. Watershed Location Map

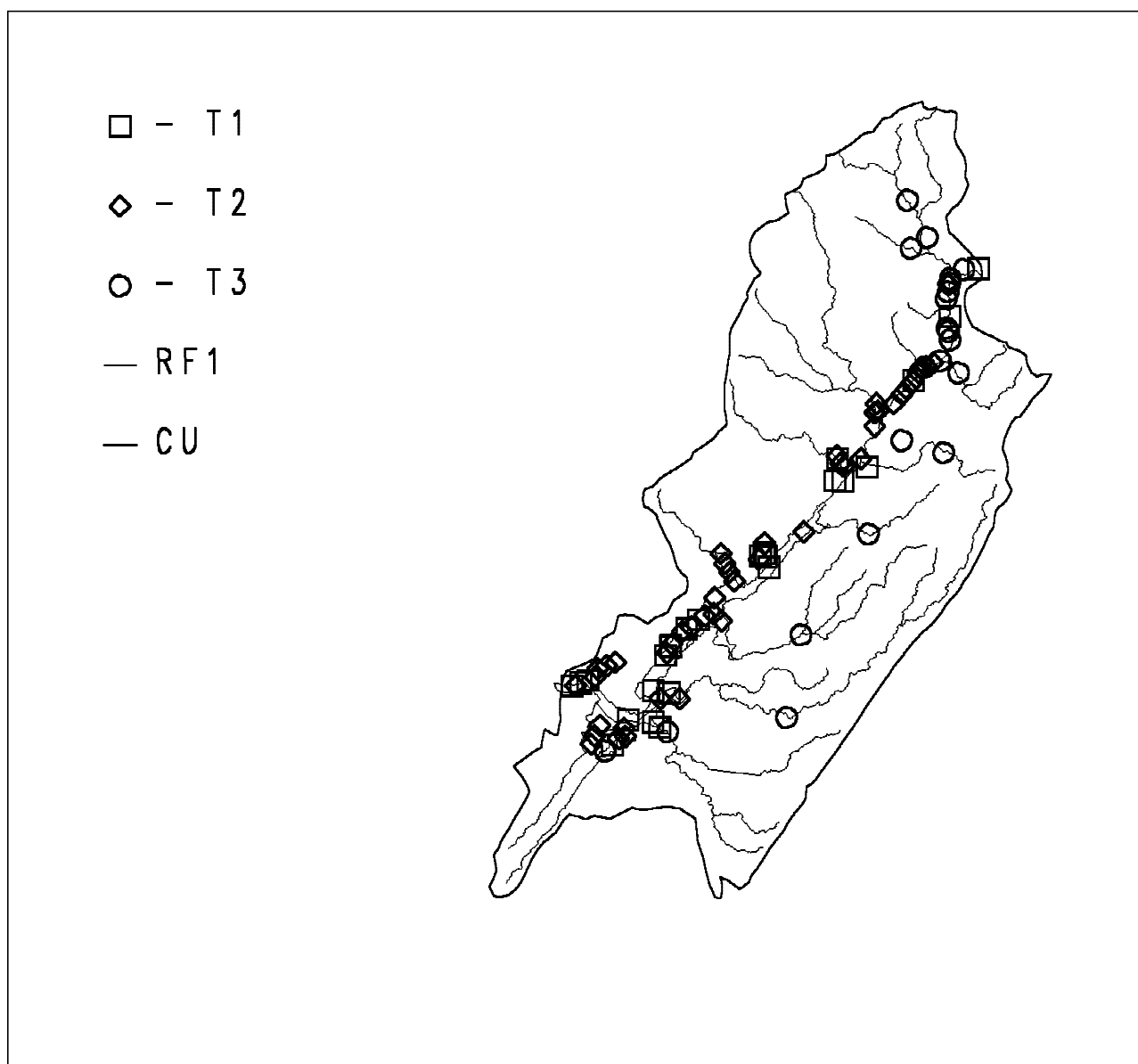


Figure 106. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **STORET** Agency: **112WRD**
 Monitoring Program: **US Geological Survey Data**
 Num. of Stations: 9 Date Range: 1980-82

Source: **STORET** Agency: **131TVAC**
 Monitoring Program: **Tennessee Valley Authority Water, Sediment And Tissue Data**
 Num. of Stations: 82 Date Range: 1981-93

Source: **STORET** Agency: **132TVAC**
 Monitoring Program: **WQ Monitoring Tenn Valley Authority**
 Num. of Stations: 1 Date Range: 1984

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
Nickel	69	52	.	52	.	52	.	.
Arsenic	62	46	.	46	.	41	.	5
Cadmium	76	46	.	46	.	46	.	.
Lead	76	45	.	45	.	44	.	1
Mercury	72	43	7	36	7	35	.	1
Copper	76	36	.	36	.	36	.	.
Zinc	76	33	.	33	.	33	.	.
Polychlorinated biphenyls	66	15	15	.	.	.	15	.
DDT	51	14	3	11	3	4	.	13
Chromium	77	8	.	8	.	8	.	.
Silver	52	3	1	2	1	2	.	.
Chlordane	45	2	.	2	.	2	.	2

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	.	.
Antimony	93	365.81	210.00	60	1800.00	110.00
Arsenic	126	8463.97	8400.00	123	23600.00	600.00
BHC	326	0.00	0.00	0	.	.
Cadmium	142	3025.56	3400.00	106	6900.00	600.00
Chlordane	83	0.63	0.00	4	16.00	9.00
Chromium	148	29884.46	29000.00	140	85000.00	6000.00
Copper	142	22298.17	20700.00	129	98400.00	3000.00
Dieldrin	83	0.00	0.00	1	0.20	0.20
DDT	249	1.41	0.00	13	50.00	2.30
Endosulfan mixed isomers	2	0.00	0.00	0	.	.
Endosulfan, alpha-	81	0.00	0.00	0	.	.
Endosulfan, beta-	81	0.00	0.00	0	.	.
Endrin	83	0.00	0.00	0	.	.
Heptachlor	83	0.04	0.00	1	3.10	3.10
Heptachlor epoxide	83	0.01	0.00	1	0.70	0.70
Lead	142	35194.37	33100.00	128	120000.0	10000.00
Mercury	152	243.36	170.00	109	1100.00	20.00
Methoxychlor	9	0.00	0.00	0	.	.
Mirex/Dechlorane	2	0.00	0.00	0	.	.
Nickel	134	25905.22	25300.00	125	80000.00	5000.00
Polychlorinated biphenyls	774	0.00	0.00	1	1.00	1.00
Silver	94	159.57	0.00	3	12000.00	1000.00
Toxaphene	83	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Zinc	142	158434.5	123450.0	142	1300000	4700.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	13	0.00	0.00	0	.	.
Antimony	19	0.00	0.00	0	.	.
Arsenic	20	86.50	50.00	13	380.00	30.00
Beryllium	19	0.00	0.00	0	.	.
BHC	50	0.00	0.00	0	.	.
Cadmium	54	33.43	13.00	37	420.00	3.00
Chlordane	25	8.40	0.00	9	50.00	10.00
Chromium	53	221.70	100.00	42	2600.00	20.00
Copper	53	2120.75	400.00	36	68000.00	200.00
Dieldrin	13	0.00	0.00	0	.	.
DDT	141	182.70	110.00	81	2500.00	40.00
Endosulfan, alpha-	13	0.00	0.00	0	.	.
Endosulfan, beta-	13	0.00	0.00	0	.	.
Endrin	13	9.23	10.00	7	30.00	10.00
Heptachlor	13	0.00	0.00	0	.	.
Heptachlor epoxide	13	0.77	0.00	1	10.00	10.00
Hexachlorobutadiene	2	0.00	0.00	0	.	.
Lead	54	155.56	60.00	47	2600.00	20.00
Mercury	46	169.57	0.00	11	4000.00	200.00
Mirex/Dechlorane	6	0.00	0.00	0	.	.
Nickel	53	40.00	0.00	3	1000.00	120.00
Polychlorinated biphenyls	468	751.00	0.00	155	30000.00	100.00
Selenium	54	391.85	165.00	48	1600.00	60.00
Silver	14	0.00	0.00	0	.	.
Toxaphene	13	0.00	0.00	0	.	.
Zinc	53	14498.11	7300.00	53	110000.0	1900.00