

## Watershed Summary Information

<b>Accounting Unit Name:</b>	Neosho
<b>State(s):</b>	OK (AR)
<b>Political Boundaries:</b>	Mayes, Delaware, Cherokee, Craig, Wagoner, Benton, Rogers, Muskogee
<b>Major Waterways:</b>	Neosho R Spavinaw Cr Spring Cr Fort Gibson L L Hudson
<b>Number of Stations in Watershed:</b>	Tier1 - 13 Tier2 - 3 Tier3 - 4

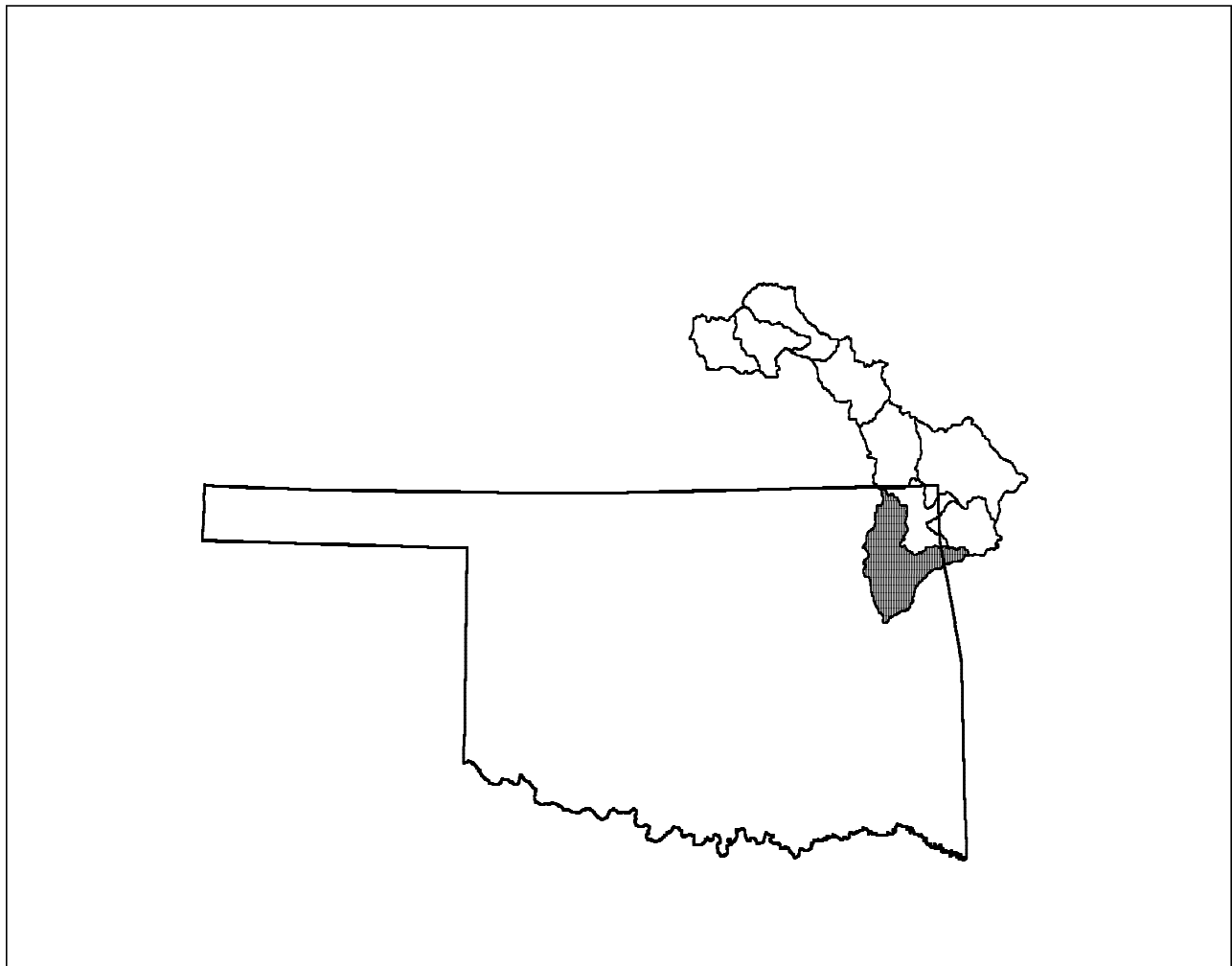


Figure 155. Watershed Location Map

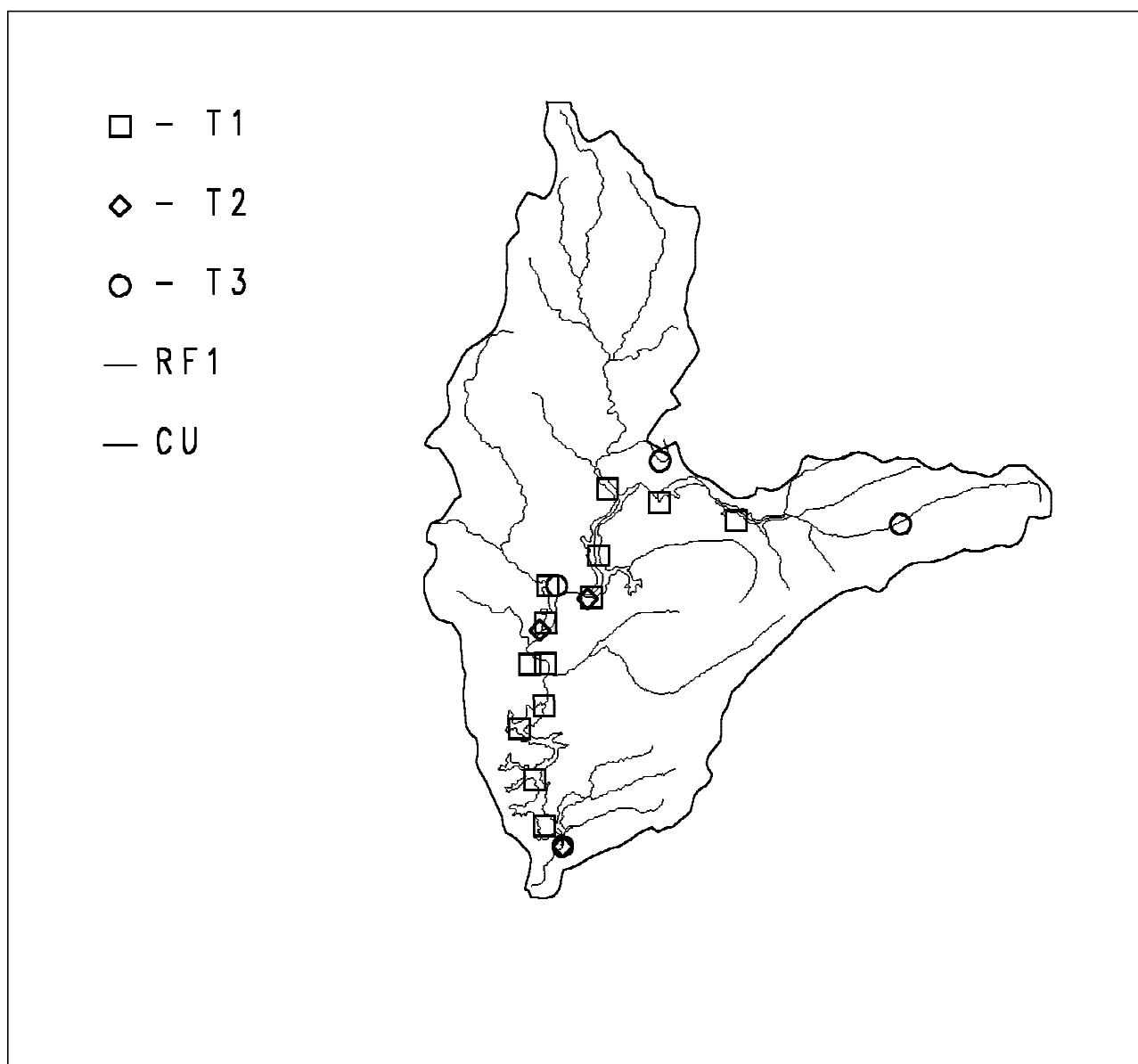


Figure 156. Major Waterways and Location of Sampling Stations

## Data Source(s) Used in Evaluation

Source: **STORET** Agency: **11BIOACC**  
 Monitoring Program: **USEPA National Bioaccumulation Study**  
 Num. of Stations: 1 Date Range: 1986

Source: **STORET** Agency: **11POX06**  
 Monitoring Program: **USEPA Region 6 Data**  
 Num. of Stations: 3 Date Range: 1980-81

Source: **STORET** Agency: **1116APCC**  
 Monitoring Program: **Arkansas Dept of Con & Ecol. Pollution Control And Ecology Data**  
 Num. of Stations: 1 Date Range: 1981-83

Source: STORET Agency: 21OKOSHD

Monitoring Program: Oklahoma State Health Dept Water, Sediment And Tissue Data

Num. of Stations: 15 Date Range: 1980-92

## 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	18	13	13	.	1	.	12	1
Chlordane	17	11	.	11	.	.	.	11
Dieldrin	12	7	.	7	.	.	.	7
DDT	19	2	.	2	.	.	.	2
Lead	8	2	.	2	.	2	.	.
Cadmium	8	1	.	1	.	1	.	.
Heptachlor	19	1	.	1	.	.	.	1
Heptachlor epoxide	7	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	0.00	0.00	0	.	.
Acenaphthylene	3	0.00	0.00	0	.	.
Acrylonitrile	3	0.00	0.00	0	.	.
Aldrin	6	0.00	0.00	0	.	.
Anthracene&Phenanthrene	2	0.00	0.00	0	.	.
Antimony	1	0.00	0.00	0	.	.
Arsenic	9	1127.78	0.00	3	4250.00	2900.00
Benzene	3	0.00	0.00	0	.	.
Benzo(a)anthracene	3	0.00	0.00	0	.	.
Benzo(a)pyrene	3	0.00	0.00	0	.	.
Benzo(b)fluoranthene	3	0.00	0.00	0	.	.
Benzo(ghi)perylene	3	0.00	0.00	0	.	.
Benzo(k)fluoranthene	3	0.00	0.00	0	.	.
Bis(2-ethylhexyl)phthalate	2	0.00	0.00	0	.	.
Bromophenyl phenyl ether, 4-	2	0.00	0.00	0	.	.
Butyl benzyl phthalate	2	0.00	0.00	0	.	.
BHC	16	0.00	0.00	0	.	.
Cadmium	10	1053.00	0.00	3	10000.00	130.00
Chlordane	26	0.00	0.00	0	.	.
Chlorobenzene	3	0.00	0.00	0	.	.
Chromium	10	11364.00	10500.00	8	29300.00	8640.00
Chrysene	3	0.00	0.00	0	.	.
Copper	10	4721.00	5500.00	8	9300.00	3100.00

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Di-n-butyl phthalate	2	0.00	0.00	0	.	.
Di-n-octyl phthalate	2	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	3	0.00	0.00	0	.	.
Dibromochloromethane	3	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	3	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	3	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	3	0.00	0.00	0	.	.
Dichloroethane 1,1-	3	0.00	0.00	0	.	.
Dichloroethane 1,2-	3	0.00	0.00	0	.	.
Dichloroethene, trans-1,2-	3	0.00	0.00	0	.	.
Dichloromethane	3	0.00	0.00	0	.	.
Dichloropropane, 1,2-	3	0.00	0.00	0	.	.
Dieldrin	6	0.00	0.00	0	.	.
Diethyl phthalate	2	0.00	0.00	0	.	.
Dimethyl phthalate	2	0.00	0.00	0	.	.
Dimethylphenol, 2,4-	3	0.00	0.00	0	.	.
Dioxins	1	0.00	0.00	0	.	.
DDT	47	0.00	0.00	0	.	.
Endosulfan, alpha-	1	0.00	0.00	0	.	.
Endosulfan, beta-	1	0.00	0.00	0	.	.
Endrin	6	0.00	0.00	0	.	.
Ethylbenzene	3	0.00	0.00	0	.	.
Fluoranthene	3	0.00	0.00	0	.	.
Fluorene	3	0.00	0.00	0	.	.
Heptachlor	9	0.56	0.00	1	5.00	5.00
Heptachlor epoxide	3	0.00	0.00	0	.	.
Hexachlorobenzene	8	0.00	0.00	0	.	.
Hexachlorobutadiene	3	0.00	0.00	0	.	.
Hexachloroethane	3	0.00	0.00	0	.	.
Indeno(1,2,3-cd)pyrene	3	0.00	0.00	0	.	.
Isophorone	3	0.00	0.00	0	.	.
Lead	10	16844.00	11500.00	10	48000.00	6640.00
Mercury	10	11.00	0.00	2	90.00	20.00
Methoxychlor	5	0.00	0.00	0	.	.
Naphthalene	3	0.00	0.00	0	.	.
Nickel	3	900.00	0.00	1	2700.00	2700.00
Nitrosodiphenylamine, N-	3	0.00	0.00	0	.	.
Pentachlorophenol	3	0.00	0.00	0	.	.
Phenol	3	0.00	0.00	0	.	.
Polychlorinated biphenyls	25	916.00	0.00	1	22900.00	22900.00
Pyrene	3	0.00	0.00	0	.	.
Silver	3	0.00	0.00	0	.	.
Tetrachloroethane, 1,1,2,2-	3	0.00	0.00	0	.	.
Tetrachloroethene	3	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Tetrachloromethane	3	0.00	0.00	0	.	.
Toluene	3	0.00	0.00	0	.	.
Toxaphene	8	0.00	0.00	0	.	.
Tribromomethane/Bromoform	3	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	3	0.00	0.00	0	.	.
Trichloroethane, 1,1,1-	3	0.00	0.00	0	.	.
Trichloroethane, 1,1,2-	3	0.00	0.00	0	.	.
Trichloroethene	3	0.00	0.00	0	.	.
Trichlorofluoromethane	3	0.00	0.00	0	.	.
Trichloromethane/Chloroform	3	0.00	0.00	0	.	.
Zinc	3	19133.33	17000.00	3	31000.00	9400.00

## Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	94	0.00	0.00	0	.	.
Biphenyl	1	0.00	0.00	0	.	.
BHC	7	5.14	4.00	5	16.00	4.00
Chlordane	128	39.68	22.00	70	306.00	11.20
Chlorpyrifos/Dursban	1	0.00	0.00	0	.	.
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	8	14.99	10.00	8	30.00	9.89
Dioxins	2	0.00	0.00	1	0.00	0.00
DDT	105	51.34	0.00	47	704.00	10.00
Endrin	1	0.00	0.00	0	.	.
Heptachlor	96	0.08	0.00	1	8.00	8.00
Heptachlor epoxide	4	7.97	8.50	4	12.00	2.87
Hexachlorobenzene	1	0.00	0.00	0	.	.
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Mercury	53	35.66	0.00	12	330.00	100.00
Methoxychlor	1	0.00	0.00	0	.	.
Mirex/Dechlorane	1	0.00	0.00	0	.	.
Pentachlorobenzene	1	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	201	1739.28	608.00	152	20900.00	62.00
Tetrachlorobenzene, 1,2,4,5-	1	0.00	0.00	0	.	.
Toxaphene	94	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	1	0.00	0.00	0	.	.
Trifluralin/Treflan	1	0.00	0.00	0	.	.