

# Watershed Report

## Headwaters Poteau River

### 1111010501

The Center for Advanced Spatial Technologies at the University of Arkansas has developed the Arkansas Automated Reporting and Mapping System with funding from the Arkansas 85th General Assembly through the Arkansas Natural Resource Commission.

The 308 ten-digit watershed units and the 1556 twelve-digit watershed units were delineated by the Natural Resources Conservation Service, a division of the US Department of Agriculture.

For all watersheds that cross the Arkansas border, only the Arkansas portion of the watershed was used for mapping and statistical reporting.

## Watershed Summary (10 Digit HUC)

### *Headwaters Poteau River (1111010501)*

#### **Area Summary**

Area - Square Miles.....	171.51
Area - Acres.....	111052.55

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	604.00	1981.00
Elevation Minimum.....	188.00	617.00
Elevation Average.....	264.00	866.00

#### **Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.21	1.29%
Bare.....	.03	.02%
Water.....	2.42	1.41%
Herbaceous.....	.72	.42%
Forest.....	117.56	68.66%
Agri - Crops.....	.01	.01%
Agri - pasture.....	48.28	28.20%

#### **Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.59	2.68%
Bare.....	.18	.11%
Water.....	2.12	1.24%
Herbaceous.....	6.64	3.88%
Forest.....	113.79	66.46%
Agri - Crops.....	.40	.23%
Agri - pasture.....	43.50	25.41%

#### **Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.32	3.62%
Bare.....	.23	.13%
Water.....	2.26	1.29%
Herbaceous.....	14.80	8.48%
Forest.....	106.95	61.26%
Agri - Crops.....	.53	.30%

Agri - pasture.....: 40.16 23.00%

**Land Use / Land Cover Change from 1999 to 2004**

Area in Acres	Change TO						
	Urban	Bare	Water	Herbaceous	Forest	Agri-Crop	Agri-Pasture
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	4.62	-.--	0.00	.20	0.00	.60	.60
Water	2.41	1.40	-.--	32.11	173.41	2.61	26.09
FROM Herb	85.70	.80	2.61	-.--	90.12	3.61	77.47
Forest	377.34	46.77	64.43	2719.63	-.--	67.84	1722.90
Agri-Crops	.80	0.00	0.00	1.81	.20	-.--	2.61
Agri-Pasture	523.25	38.54	40.74	2274.65	1815.43	160.97	-.--

# Sub-Watershed Summary (12 Digit HUC)

## East Fork-Poteau River (111101050101)

### Area Summary

Area - Square Miles.....	27.87
Area - Acres.....	18046.89

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	542.00	1778.00
Elevation Minimum.....	198.00	649.00
Elevation Average.....	269.00	882.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.26	.93%
Bare.....	.00	-.--%
Water.....	.48	1.72%
Herbaceous.....	.12	.43%
Forest.....	17.16	61.44%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.91	35.48%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.53	1.90%
Bare.....	.04	.14%
Water.....	.44	1.58%
Herbaceous.....	1.04	3.72%
Forest.....	16.76	60.01%
Agri - Crops.....	.07	.25%
Agri - pasture.....	9.05	32.40%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.92	3.29%
Bare.....	.06	.21%
Water.....	.42	1.50%
Herbaceous.....	2.70	9.67%
Forest.....	15.33	54.89%
Agri - Crops.....	.10	.36%
Agri - pasture.....	8.40	30.08%

### Land Use / Land Cover Change from 1999 to 2004

Area in Acres	Change TO						
	Urban	Bare	Water	Herbaceous	Forest	Agri-Crop	Agri-Pasture
Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	0.00	-.--	2.41	24.49	.60	4.21
FROM Herb	1.40	0.00	.20	-.--	23.48	.20	19.47
Forest	6.82	8.83	13.05	395.00	-.--	5.82	440.56
Agri-Crops	0.0	0.00	0.00	.20	.20	-.--	.60
Agri-Pasture	18.06	7.63	15.25	456.62	449.99	29.50	-.--

**Headwaters Poteau River  
(111101050102)**

**Area Summary**

Area - Square Miles.....	15.84
Area - Acres.....	10256.05

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	407.00	1335.00
Elevation Minimum.....	200.00	656.00
Elevation Average.....	256.00	840.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.29	1.81%
Bare.....	.01	.06%
Water.....	.04	.25%
Herbaceous.....	.06	.37%
Forest.....	9.32	58.07%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	6.33	39.44%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.68	4.24%
Bare.....	.02	.12%
Water.....	.03	.19%
Herbaceous.....	1.02	6.36%
Forest.....	8.79	54.80%
Agri - Crops.....	.08	.50%
Agri - pasture.....	5.42	33.79%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.96	5.98%
Bare.....	.02	.12%
Water.....	.03	.19%
Herbaceous.....	2.29	14.27%
Forest.....	7.67	47.79%
Agri - Crops.....	.10	.62%
Agri - pasture.....	4.98	31.03%

**Land Use / Land Cover Change from 1999 to 2004**

<u>Area in Acres</u>	<u>Change TO</u>						
	<u>Urban</u>	<u>Bare</u>	<u>Water</u>	<u>Herbaceous</u>	<u>Forest</u>	<u>Agri-Crop</u>	<u>Agri-Pasture</u>
Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	.40	-.--	0.00	.20	0.00	.20	.40
Water	0.0	.60	-.--	1.61	4.62	0.00	3.61
FROM Herb	14.65	0.00	.20	-.--	4.01	.60	6.82
Forest	68.84	3.61	2.81	424.50	-.--	30.31	182.45
Agri-Crops	0.0	0.00	0.00	.60	0.00	-.--	0.00
Agri-Pasture	112.60	5.82	3.41	312.71	227.61	15.45	-.--

**Ross Creek  
(111101050103)**

**Area Summary**

Area - Square Miles.....	34.95
Area - Acres.....	22631.71

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	422.00	1384.00
Elevation Minimum.....	197.00	646.00
Elevation Average.....	281.00	922.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.11	.31%
Bare.....	.00	-.--%
Water.....	.11	.31%
Herbaceous.....	.20	.57%
Forest.....	28.33	81.08%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	6.19	17.72%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.37	1.06%
Bare.....	.02	.06%
Water.....	.08	.23%
Herbaceous.....	1.47	4.21%
Forest.....	27.15	77.75%
Agri - Crops.....	.11	.32%
Agri - pasture.....	5.72	16.38%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.61	1.75%
Bare.....	.03	.09%
Water.....	.09	.26%
Herbaceous.....	2.87	8.21%
Forest.....	26.01	74.44%
Agri - Crops.....	.11	.31%
Agri - pasture.....	5.22	14.94%

**Land Use / Land Cover Change from 1999 to 2004**

<u>Area in Acres</u>	<u>Change TO</u>						
	<u>Urban</u>	<u>Bare</u>	<u>Water</u>	<u>Herbaceous</u>	<u>Forest</u>	<u>Agri-Crop</u>	<u>Agri-Pasture</u>
Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	.20	-.--	2.41	8.43	.80	3.61
FROM Herb	1.20	.60	0.00	-.--	24.29	1.20	11.44
Forest	35.12	7.23	6.02	642.27	-.--	22.08	271.96
Agri-Crops	.20	0.00	0.00	.20	0.00	-.--	1.61
Agri-Pasture	30.91	4.62	1.81	367.50	243.06	48.37	-.--

**Bull Creek-Poteau River  
(111101050107)**

**Area Summary**

Area - Square Miles.....	19.38
Area - Acres.....	12546.15

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	602.00	1975.00
Elevation Minimum.....	188.00	617.00
Elevation Average.....	219.00	718.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.15	5.98%
Bare.....	.02	.10%
Water.....	.07	.36%
Herbaceous.....	.23	1.20%
Forest.....	8.63	44.85%
Agri - Crops.....	.01	.05%
Agri - pasture.....	9.13	47.45%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.84	9.55%
Bare.....	.05	.26%
Water.....	.04	.21%
Herbaceous.....	1.09	5.66%
Forest.....	8.02	41.64%
Agri - Crops.....	.06	.31%
Agri - pasture.....	8.16	42.37%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.17	11.27%
Bare.....	.04	.21%
Water.....	.04	.21%
Herbaceous.....	2.28	11.84%
Forest.....	7.20	37.38%
Agri - Crops.....	.09	.47%
Agri - pasture.....	7.44	38.63%

**Land Use / Land Cover Change from 1999 to 2004**

<u>Area in Acres</u>	<u>Change TO</u>						
	<u>Urban</u>	<u>Bare</u>	<u>Water</u>	<u>Herbaceous</u>	<u>Forest</u>	<u>Agri-Crop</u>	<u>Agri-Pasture</u>
Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	3.21	-.--	0.00	0.00	0.00	.40	.20
Water	.20	0.00	-.--	3.21	23.28	.40	4.82
FROM Herb	60.21	0.00	0.00	-.--	17.46	1.20	25.49
Forest	127.05	12.04	4.82	387.17	-.--	2.61	338.00
Agri-Crops	.60	0.00	0.00	.80	0.00	-.--	.40
Agri-Pasture	199.51	8.83	.80	404.43	321.74	27.90	-.--

**Lower Jones Creek  
(111101050105)**

**Area Summary**

Area - Square Miles.....	21.71
Area - Acres.....	14056.10

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	427.00	1401.00
Elevation Minimum.....	188.00	617.00
Elevation Average.....	223.00	731.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	1.11%
Bare.....	.00	-.--%
Water.....	.07	.32%
Herbaceous.....	.05	.23%
Forest.....	10.33	47.87%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	10.89	50.46%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.63	2.92%
Bare.....	.03	.14%
Water.....	.05	.23%
Herbaceous.....	.63	2.92%
Forest.....	10.11	46.85%
Agri - Crops.....	.06	.28%
Agri - pasture.....	10.07	46.66%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.95	4.40%
Bare.....	.06	.28%
Water.....	.04	.19%
Herbaceous.....	1.84	8.53%
Forest.....	9.15	42.42%
Agri - Crops.....	.09	.42%
Agri - pasture.....	9.44	43.76%

**Land Use / Land Cover Change from 1999 to 2004**

<u>Area in Acres</u>	<u>Change TO</u>						
	<u>Urban</u>	<u>Bare</u>	<u>Water</u>	<u>Herbaceous</u>	<u>Forest</u>	<u>Agri-Crop</u>	<u>Agri-Pasture</u>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	1.00	-.--	0.00	0.00	0.00	0.00	0.00
Water	1.20	.20	-.--	2.01	9.23	.40	5.42
FROM Herb	3.61	.20	0.00	-.--	10.24	.40	8.23
Forest	59.41	9.03	1.20	201.71	-.--	5.22	245.07
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	84.90	8.23	11.24	340.61	289.83	28.70	-.--

**Upper Jones Creek  
(111101050104)**

**Area Summary**

Area - Square Miles.....	34.61
Area - Acres.....	22409.34

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	479.00	1571.00
Elevation Minimum.....	198.00	649.00
Elevation Average.....	298.00	977.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.06	.17%
Bare.....	.00	-.--%
Water.....	1.55	4.47%
Herbaceous.....	.03	.09%
Forest.....	31.38	90.46%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.67	4.81%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.11	.32%
Bare.....	.01	.03%
Water.....	1.38	3.98%
Herbaceous.....	.63	1.82%
Forest.....	30.99	89.36%
Agri - Crops.....	.01	.03%
Agri - pasture.....	1.55	4.47%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.17	.49%
Bare.....	.01	.03%
Water.....	1.54	4.44%
Herbaceous.....	1.25	3.60%
Forest.....	30.22	87.11%
Agri - Crops.....	.02	.06%
Agri - pasture.....	1.48	4.27%

**Land Use / Land Cover Change from 1999 to 2004**

Area in Acres	Change TO						
	Urban	Bare	Water	Herbaceous	Forest	Agri-Crop	Agri-Pasture
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	.40	-.--	19.07	96.74	.20	1.81
FROM Herb	0.0	0.00	1.61	-.--	5.82	0.00	3.21
Forest	0.0	3.81	25.09	343.82	-.--	.80	98.95
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	0.0	.40	8.03	170.60	106.78	4.82	-.--



**Rock Creek-Poteau River  
(111101050106)**

**Area Summary**

Area - Square Miles.....:	17.15
Area - Acres.....:	11106.31

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	604.00	1981.00
Elevation Minimum.....:	194.00	636.00
Elevation Average.....:	266.00	872.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.10	.60%
Bare.....:	.00	-.--%
Water.....:	.10	.60%
Herbaceous.....:	.03	.18%
Forest.....:	12.41	73.87%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.16	24.76%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.43	2.56%
Bare.....:	.01	.06%
Water.....:	.10	.59%
Herbaceous.....:	.76	4.52%
Forest.....:	11.97	71.21%
Agri - Crops.....:	.01	.06%
Agri - pasture.....:	3.53	21.00%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.54	3.21%
Bare.....:	.01	.06%
Water.....:	.10	.59%
Herbaceous.....:	1.57	9.34%
Forest.....:	11.37	67.64%
Agri - Crops.....:	.02	.12%
Agri - pasture.....:	3.20	19.04%

**Land Use / Land Cover Change from 1999 to 2004**

Area in Acres	Change TO						
	Urban	Bare	Water	Herbaceous	Forest	Agri-Crop	Agri-Pasture
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	1.00	0.00	-.--	1.40	6.62	.20	2.61
FROM Herb	4.62	0.00	.60	-.--	4.82	0.00	2.81
Forest	80.08	2.21	11.44	325.15	-.--	1.00	145.92
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	77.27	3.01	.20	222.19	176.42	6.22	-.--