

# Watershed Report

## Ouachita River Headwaters

### 0804010101

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)

### *Ouachita River Headwaters (0804010101)*

#### **Area Summary**

Area - Square Miles.....	166.33
Area - Acres.....	107692.92

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	816.00	2676.00
Elevation Minimum.....	264.00	866.00
Elevation Average.....	384.00	1260.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.68	2.20%
Bare.....	.14	.08%
Water.....	1.04	.62%
Herbaceous.....	.87	.52%
Forest.....	124.83	74.47%
Agri - Crops.....	.07	.04%
Agri - pasture.....	36.99	22.07%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.86	4.09%
Bare.....	.24	.14%
Water.....	.89	.53%
Herbaceous.....	3.93	2.34%
Forest.....	121.32	72.38%
Agri - Crops.....	.29	.17%
Agri - pasture.....	34.08	20.33%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.81	5.17%
Bare.....	.21	.12%
Water.....	.97	.57%
Herbaceous.....	10.01	5.88%
Forest.....	115.63	67.88%
Agri - Crops.....	.63	.37%

Agri - pasture.....: 31.32 18.39%

**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	16.46	-.--	.40	4.01	8.83	9.63	9.63
Water	12.64	1.40	-.--	9.83	117.62	1.81	34.52
FROM Herb	90.92	.80	1.00	-.--	120.83	1.40	143.71
Forest	1201.65	78.88	45.16	1277.52	-.--	32.11	2015.94
Agri-Crops	2.61	.60	0.00	7.02	4.01	-.--	3.21
Agri-Pasture	565.80	45.16	48.57	1333.12	2069.13	97.14	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Ouachita River Headwaters (080401010101)

### Area Summary

Area - Square Miles.....	36.58
Area - Acres.....	23683.21

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	816.00	2676.00
Elevation Minimum.....	285.00	935.00
Elevation Average.....	421.00	1381.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.52	1.40%
Bare.....	.00	-.--%
Water.....	.03	.08%
Herbaceous.....	.19	.51%
Forest.....	30.55	82.50%
Agri - Crops.....	.01	.03%
Agri - pasture.....	5.73	15.47%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.31	3.54%
Bare.....	.03	.08%
Water.....	.03	.08%
Herbaceous.....	.79	2.13%
Forest.....	29.12	78.64%
Agri - Crops.....	.04	.11%
Agri - pasture.....	5.71	15.42%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.57	4.24%
Bare.....	.03	.08%
Water.....	.02	.05%
Herbaceous.....	1.96	5.30%
Forest.....	27.70	74.84%
Agri - Crops.....	.10	.27%
Agri - pasture.....	5.63	15.21%

### 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	.60	.20
Water	.20	0.00	-.--	1.40	6.62	0.00	2.81
FROM Herb	2.01	0.00	0.00	-.--	24.69	.20	33.52
Forest	328.76	15.25	2.41	368.10	-.--	5.02	491.74
Agri-Crops	0.0	0.00	0.00	2.61	.20	-.--	2.61
Agri-Pasture	123.24	5.62	1.20	294.64	398.01	14.05	-.--

**Camp Creek  
(080401010104)**

**Area Summary**

Area - Square Miles.....	32.97
Area - Acres.....	21348.63

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	588.00	1929.00
Elevation Minimum.....	265.00	869.00
Elevation Average.....	369.00	1210.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.13	.39%
Bare.....	.00	-.--%
Water.....	.02	.06%
Herbaceous.....	.09	.27%
Forest.....	27.95	83.61%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	5.24	15.67%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.23	.69%
Bare.....	.03	.09%
Water.....	.01	.03%
Herbaceous.....	.39	1.17%
Forest.....	27.69	82.83%
Agri - Crops.....	.03	.09%
Agri - pasture.....	5.05	15.11%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.44	1.32%
Bare.....	.04	.12%
Water.....	.02	.06%
Herbaceous.....	.82	2.45%
Forest.....	27.03	80.86%
Agri - Crops.....	.16	.48%
Agri - pasture.....	4.92	14.72%

**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	0.0	-.--	0.00	0.00	0.00	.40	1.00
Water	.20	0.00	-.--	1.00	9.03	0.00	4.62
FROM Herb	0.0	.20	0.00	-.--	18.47	0.00	17.86
Forest	5.82	14.05	0.00	165.59	-.--	4.82	277.58
Agri-Crops	0.0	0.00	0.00	0.00	.20	-.--	0.00
Agri-Pasture	7.63	4.21	0.00	216.97	361.08	9.23	-.--

**Brier Creek-Prairie Creek  
(080401010103)**

**Area Summary**

Area - Square Miles.....	27.28
Area - Acres.....	17661.30

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	750.00	2460.00
Elevation Minimum.....	277.00	909.00
Elevation Average.....	345.00	1132.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.57	9.50%
Bare.....	.11	.41%
Water.....	.26	.96%
Herbaceous.....	.26	.96%
Forest.....	14.39	53.22%
Agri - Crops.....	.05	.18%
Agri - pasture.....	9.40	34.76%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.42	16.35%
Bare.....	.09	.33%
Water.....	.21	.78%
Herbaceous.....	.96	3.55%
Forest.....	13.46	49.78%
Agri - Crops.....	.11	.41%
Agri - pasture.....	7.79	28.81%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.12	18.93%
Bare.....	.07	.26%
Water.....	.24	.89%
Herbaceous.....	2.54	9.39%
Forest.....	12.13	44.86%
Agri - Crops.....	.16	.59%
Agri - pasture.....	6.78	25.07%

**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	16.46	-.--	.40	2.41	8.63	7.43	5.22
Water	10.04	1.00	-.--	2.21	29.71	.80	8.83
FROM Herb	85.50	0.00	.40	-.--	23.88	.60	22.28
Forest	798.63	18.67	15.25	197.50	-.--	6.42	381.95
Agri-Crops	2.61	0.00	0.00	1.61	1.20	-.--	.40
Agri-Pasture	404.43	15.45	16.86	277.18	512.41	29.10	-.--

**Irons Fork-Ouachita River Headwaters  
(0804010102)**

**Area Summary**

Area - Square Miles.....:	38.46
Area - Acres.....:	24902.85

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	787.00	2581.00
Elevation Minimum.....:	277.00	909.00
Elevation Average.....:	432.00	1417.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.15	.39%
Bare.....:	.00	-.--%
Water.....:	.50	1.29%
Herbaceous.....:	.13	.33%
Forest.....:	33.94	87.38%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.12	10.61%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.29	.75%
Bare.....:	.01	.03%
Water.....:	.46	1.18%
Herbaceous.....:	.47	1.21%
Forest.....:	33.54	86.33%
Agri - Crops.....:	.05	.13%
Agri - pasture.....:	4.03	10.37%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.50	1.29%
Bare.....:	.01	.03%
Water.....:	.49	1.26%
Herbaceous.....:	1.07	2.76%
Forest.....:	32.98	84.93%
Agri - Crops.....:	.06	.15%
Agri - pasture.....:	3.72	9.58%

**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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	.40	.20	-.--	.40	28.90	.20	2.81
FROM Herb	3.41	0.00	0.00	-.--	15.25	0.00	8.83
Forest	52.79	10.84	13.45	159.36	-.--	10.84	225.40
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.20
Agri-Pasture	11.24	3.01	0.00	113.00	144.31	17.66	-.--

**Carter Creek-Ouachita River  
(080401010105)**

**Area Summary**

Area - Square Miles.....:	31.04
Area - Acres.....:	20096.93

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	565.00	1853.00
Elevation Minimum.....:	264.00	866.00
Elevation Average.....:	329.00	1079.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.31	.99%
Bare.....:	.03	.10%
Water.....:	.23	.74%
Herbaceous.....:	.20	.64%
Forest.....:	18.00	57.54%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	12.50	39.96%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.61	1.95%
Bare.....:	.08	.26%
Water.....:	.18	.58%
Herbaceous.....:	1.32	4.22%
Forest.....:	17.51	56.01%
Agri - Crops.....:	.06	.19%
Agri - pasture.....:	11.50	36.79%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.18	3.77%
Bare.....:	.06	.19%
Water.....:	.20	.64%
Herbaceous.....:	3.62	11.58%
Forest.....:	15.79	50.50%
Agri - Crops.....:	.15	.48%
Agri - pasture.....:	10.27	32.84%

**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	0.0	-.--	0.00	1.61	.20	1.20	3.21
Water	1.81	.20	-.--	4.82	43.35	.80	15.45
FROM Herb	0.0	.60	.60	-.--	38.54	.60	61.22
Forest	15.66	20.07	14.05	386.97	-.--	5.02	639.26
Agri-Crops	0.0	.60	0.00	2.81	2.41	-.--	0.00
Agri-Pasture	19.27	16.86	30.51	431.33	653.31	27.10	-.--