

Watershed Report

Headwaters Crooked Creek

1101000309

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 Crooked Creek (1101000309)

Area Summary

Area - Square Miles.....	212.39
Area - Acres.....	137517.79

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	676.00	2217.00
Elevation Minimum.....	206.00	676.00
Elevation Average.....	358.00	1174.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.73	3.65%
Bare.....	.31	.15%
Water.....	.18	.08%
Herbaceous.....	.38	.18%
Forest.....	102.61	48.44%
Agri - Crops.....	.09	.04%
Agri - pasture.....	100.54	47.46%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	12.78	6.03%
Bare.....	1.80	.85%
Water.....	.03	.01%
Herbaceous.....	4.18	1.97%
Forest.....	103.12	48.69%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	89.88	42.44%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	13.84	6.19%
Bare.....	1.12	.50%
Water.....	.07	.03%
Herbaceous.....	26.66	11.92%
Forest.....	91.50	40.92%
Agri - Crops.....	.51	.23%

Agri - pasture.....: 78.13 34.94%

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	8.03	-.--	0.00	.20	.60	0.00	.80
Water	7.23	13.25	-.--	5.02	52.39	0.00	38.34
FROM Herb	121.23	.80	0.00	-.--	52.18	0.00	37.53
Forest	1471.41	597.92	0.00	178.03	-.--	0.00	4059.37
Agri-Crops	3.21	3.61	0.00	.40	34.72	-.--	4.42
Agri-Pasture	2119.90	424.50	0.00	1336.53	4738.78	0.00	-.--

Sub-Watershed Summary (12 Digit HUC)

West Fork Crooked Creek (110100030901)

Area Summary

Area - Square Miles.....	19.82
Area - Acres.....	12830.98

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	653.00	2142.00
Elevation Minimum.....	330.00	1082.00
Elevation Average.....	422.00	1384.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.25	1.27%
Bare.....	.00	-.--%
Water.....	.03	.15%
Herbaceous.....	.01	.05%
Forest.....	9.76	49.77%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.56	48.75%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.40	2.04%
Bare.....	.14	.71%
Water.....	.01	.05%
Herbaceous.....	.26	1.33%
Forest.....	9.77	49.80%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.04	46.08%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.46	2.35%
Bare.....	.09	.46%
Water.....	.01	.05%
Herbaceous.....	2.24	11.42%
Forest.....	8.58	43.75%
Agri - Crops.....	.06	.31%
Agri - pasture.....	8.17	41.66%

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	.60	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	2.61	-.--	0.00	7.43	0.00	9.63
FROM Herb	.80	0.00	0.00	-.--	6.02	0.00	1.20
Forest	29.30	68.44	0.00	12.85	-.--	0.00	353.05
Agri-Crops	.20	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	67.44	26.09	0.00	95.74	314.71	0.00	-.--

**White Oak Creek-Crooked Creek
(110100030905)**

Area Summary

Area - Square Miles.....:	30.02
Area - Acres.....:	19437.71

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	431.00	1414.00
Elevation Minimum.....:	270.00	886.00
Elevation Average.....:	351.00	1151.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.09	3.70%
Bare.....:	.04	.14%
Water.....:	.02	.07%
Herbaceous.....:	.06	.20%
Forest.....:	12.48	42.39%
Agri - Crops.....:	.02	.07%
Agri - pasture.....:	15.73	53.43%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.88	6.39%
Bare.....:	.26	.88%
Water.....:	.00	-.--%
Herbaceous.....:	.74	2.51%
Forest.....:	12.71	43.19%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	13.84	47.03%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.04	6.93%
Bare.....:	.19	.65%
Water.....:	.01	.03%
Herbaceous.....:	4.67	15.86%
Forest.....:	10.83	36.79%
Agri - Crops.....:	.05	.17%
Agri - pasture.....:	11.65	39.57%

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	1.00	-.--	0.00	.20	.60	0.00	.20
Water	1.00	.20	-.--	0.00	5.22	0.00	4.01
FROM Herb	16.26	0.00	0.00	-.--	11.24	0.00	9.63
Forest	223.79	87.11	0.00	13.85	-.--	0.00	743.23
Agri-Crops	0.0	.80	0.00	0.00	2.61	-.--	3.21
Agri-Pasture	307.29	67.84	0.00	112.00	907.21	0.00	-.--

**Tarkin Creek
(110100030907)**

Area Summary

Area - Square Miles.....:	26.62
Area - Acres.....:	17234.48

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	412.00	1351.00
Elevation Minimum.....:	217.00	712.00
Elevation Average.....:	333.00	1092.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.02	.08%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.01	.04%
Forest.....:	21.70	81.95%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.75	17.94%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.10	.38%
Bare.....:	.04	.15%
Water.....:	.00	-.--%
Herbaceous.....:	.35	1.32%
Forest.....:	21.55	81.38%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.44	16.77%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.14	.53%
Bare.....:	.04	.15%
Water.....:	.00	-.--%
Herbaceous.....:	2.00	7.55%
Forest.....:	20.13	75.99%
Agri - Crops.....:	.03	.11%
Agri - pasture.....:	4.15	15.67%

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	0.0	0.00	-.--	0.00	0.00	0.00	0.00
FROM Herb	0.0	0.00	0.00	-.--	2.81	0.00	1.61
Forest	20.67	19.47	0.00	26.29	-.--	0.00	358.27
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	21.48	9.63	0.00	166.39	523.45	0.00	-.--

**Pedlo Branch-Crooked Creek
(110100030908)**

Area Summary

Area - Square Miles.....	30.27
Area - Acres.....	19601.85

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	407.00	1335.00
Elevation Minimum.....	206.00	676.00
Elevation Average.....	300.00	984.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.31	1.03%
Bare.....	.00	-.--%
Water.....	.06	.20%
Herbaceous.....	.03	.10%
Forest.....	16.63	55.14%
Agri - Crops.....	.02	.07%
Agri - pasture.....	13.11	43.47%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.96	3.18%
Bare.....	.21	.70%
Water.....	.01	.03%
Herbaceous.....	.93	3.08%
Forest.....	17.03	56.48%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	11.01	36.52%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.04	3.45%
Bare.....	.14	.46%
Water.....	.02	.07%
Herbaceous.....	4.65	15.41%
Forest.....	15.44	51.18%
Agri - Crops.....	.03	.10%
Agri - pasture.....	8.85	29.33%

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	.20	-.--	0.00	0.00	0.00	0.00	0.00
Water	.80	5.22	-.--	0.00	31.71	0.00	3.01
FROM Herb	3.41	0.00	0.00	-.--	10.04	0.00	2.41
Forest	167.99	61.22	0.00	56.40	-.--	0.00	503.58
Agri-Crops	0.0	1.81	0.00	.40	8.03	-.--	.40
Agri-Pasture	289.83	78.68	0.00	357.26	1102.30	0.00	-.--

**Dry Jordan Creek-Crooked Creek
(110100030903)**

Area Summary

Area - Square Miles.....:	25.70
Area - Acres.....:	16641.68

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	631.00	2070.00
Elevation Minimum.....:	311.00	1020.00
Elevation Average.....:	383.00	1256.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	4.29	16.92%
Bare.....:	.21	.83%
Water.....:	.02	.08%
Herbaceous.....:	.19	.75%
Forest.....:	6.75	26.62%
Agri - Crops.....:	.05	.20%
Agri - pasture.....:	13.85	54.61%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	6.16	24.31%
Bare.....:	.45	1.78%
Water.....:	.00	-.--%
Herbaceous.....:	.57	2.25%
Forest.....:	6.48	25.57%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	11.68	46.09%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	6.43	25.36%
Bare.....:	.28	1.10%
Water.....:	.01	.04%
Herbaceous.....:	3.16	12.47%
Forest.....:	5.49	21.66%
Agri - Crops.....:	.09	.36%
Agri - pasture.....:	9.89	39.01%

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	5.82	-.--	0.00	0.00	0.00	0.00	0.00
Water	4.42	2.21	-.--	0.00	2.41	0.00	6.02
FROM Herb	85.70	.20	0.00	-.--	13.25	0.00	14.05
Forest	658.13	111.80	0.00	14.05	-.--	0.00	453.61
Agri-Crops	3.01	1.00	0.00	0.00	24.09	-.--	.60
Agri-Pasture	751.46	84.90	0.00	79.08	351.64	0.00	-.--

**Sugar Orchard Creek
(110100030906)**

Area Summary

Area - Square Miles.....:	28.53
Area - Acres.....:	18470.36

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	422.00	1384.00
Elevation Minimum.....:	219.00	718.00
Elevation Average.....:	357.00	1171.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.46	1.57%
Bare.....:	.01	.03%
Water.....:	.01	.03%
Herbaceous.....:	.04	.14%
Forest.....:	21.11	71.93%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	7.72	26.30%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.07	3.65%
Bare.....:	.17	.58%
Water.....:	.00	-.--%
Herbaceous.....:	.41	1.40%
Forest.....:	20.62	70.30%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	7.06	24.07%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.27	4.33%
Bare.....:	.14	.48%
Water.....:	.00	-.--%
Herbaceous.....:	2.77	9.44%
Forest.....:	18.16	61.87%
Agri - Crops.....:	.08	.27%
Agri - pasture.....:	6.93	23.61%

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	.20	-.--	0.00	0.00	0.00	0.00	.60
Water	.20	.40	-.--	0.00	2.01	0.00	2.21
FROM Herb	6.22	0.00	0.00	-.--	5.82	0.00	3.01
Forest	173.82	65.03	0.00	22.88	-.--	0.00	651.71
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	272.16	37.33	0.00	88.31	644.68	0.00	-.--

**East Fork Crooked Creek-Crooked Creek
(110100030902)**

Area Summary

Area - Square Miles.....:	26.93
Area - Acres.....:	17435.06

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	676.00	2217.00
Elevation Minimum.....:	326.00	1069.00
Elevation Average.....:	396.00	1299.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.38	1.43%
Bare.....:	.01	.04%
Water.....:	.02	.08%
Herbaceous.....:	.01	.04%
Forest.....:	9.75	36.68%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	16.41	61.74%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.51	1.92%
Bare.....:	.28	1.05%
Water.....:	.01	.04%
Herbaceous.....:	.51	1.92%
Forest.....:	10.03	37.71%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	15.26	57.37%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.65	2.44%
Bare.....:	.10	.38%
Water.....:	.01	.04%
Herbaceous.....:	3.98	14.97%
Forest.....:	8.54	32.12%
Agri - Crops.....:	.06	.23%
Agri - pasture.....:	13.25	49.83%

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	0.0	1.81	-.--	4.42	2.41	0.00	7.23
FROM Herb	.80	.20	0.00	-.--	1.40	0.00	1.20
Forest	14.05	125.44	0.00	20.27	-.--	0.00	589.49
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	60.61	45.56	0.00	286.01	460.63	0.00	-.--

**Huzzah Creek
(110100030904)**

Area Summary

Area - Square Miles.....	24.50
Area - Acres.....	15865.67

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	446.00	1463.00
Elevation Minimum.....	271.00	889.00
Elevation Average.....	351.00	1151.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.93	3.74%
Bare.....	.04	.16%
Water.....	.02	.08%
Herbaceous.....	.03	.12%
Forest.....	4.43	17.82%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	19.41	78.08%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.70	6.84%
Bare.....	.25	1.01%
Water.....	.00	-.--%
Herbaceous.....	.41	1.65%
Forest.....	4.93	19.85%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	17.55	70.65%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.81	7.29%
Bare.....	.14	.56%
Water.....	.01	.04%
Herbaceous.....	3.19	12.85%
Forest.....	4.33	17.44%
Agri - Crops.....	.11	.44%
Agri - pasture.....	15.24	61.38%

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	.20	-.--	0.00	0.00	0.00	0.00	0.00
Water	.80	.80	-.--	.60	1.20	0.00	6.22
FROM Herb	8.03	.40	0.00	-.--	1.61	0.00	4.42
Forest	183.65	59.41	0.00	11.44	-.--	0.00	406.44
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.20
Agri-Pasture	349.64	74.46	0.00	151.74	434.14	0.00	-.--