

Watershed Report

Crooked Creek-Bayou Meto

0802040203

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)

Crooked Creek-Bayou Meto (0802040203)

Area Summary

Area - Square Miles.....	294.68
Area - Acres.....	190798.35

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	73.00	239.00
Elevation Minimum.....	51.00	167.00
Elevation Average.....	61.00	200.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.23	1.78%
Bare.....	.08	.03%
Water.....	23.43	7.96%
Herbaceous.....	7.05	2.40%
Forest.....	64.93	22.06%
Agri - Crops.....	172.27	58.53%
Agri - pasture.....	21.35	7.25%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.35	2.50%
Bare.....	2.49	.85%
Water.....	17.23	5.85%
Herbaceous.....	7.87	2.67%
Forest.....	72.65	24.68%
Agri - Crops.....	164.86	56.02%
Agri - pasture.....	21.86	7.43%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	9.19	3.00%
Bare.....	1.81	.59%
Water.....	19.14	6.25%
Herbaceous.....	18.03	5.89%
Forest.....	68.82	22.47%
Agri - Crops.....	167.42	54.66%

Agri - pasture.....:

9.93

3.24%

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	1.20	-.--	0.00	0.00	.20	10.24	.20
Water	28.90	437.35	-.--	246.27	1416.21	4747.61	155.95
FROM Herb	54.79	3.21	132.87	-.--	463.24	1306.42	208.54
Forest	144.71	181.84	2000.08	153.34	-.--	2640.15	215.16
Agri-Crops	1136.42	360.28	1483.65	463.84	4857.80	-.--	445.58
Agri-Pasture	18.47	1.40	3.21	14.05	33.72	320.13	-.--

Sub-Watershed Summary (12 Digit HUC)

Middle Big Ditch-Bayou Meto (080204020302)

Area Summary

Area - Square Miles.....	24.18
Area - Acres.....	15658.32

Elevation Summary

	Meters	Feet
Elevation Maximun.....	70.00	230.00
Elevation Minimum.....	55.00	180.00
Elevation Average.....	61.00	200.00

Land Use / Land Cover for 1999

	Sq. Miles	% of Total
Urban.....	.14	.57%
Bare.....	.00	-.--%
Water.....	1.43	5.84%
Herbaceous.....	.53	2.17%
Forest.....	7.35	30.02%
Agri - Crops.....	13.59	55.51%
Agri - pasture.....	1.44	5.88%

Land Use / Land Cover for 2004

	Sq. Miles	% of Total
Urban.....	.21	.86%
Bare.....	.11	.45%
Water.....	1.71	6.99%
Herbaceous.....	.51	2.08%
Forest.....	7.41	30.27%
Agri - Crops.....	12.97	52.98%
Agri - pasture.....	1.56	6.37%

Land Use / Land Cover for 2006

	Sq. Miles	% of Total
Urban.....	.38	1.55%
Bare.....	.21	.86%
Water.....	1.91	7.80%
Herbaceous.....	.90	3.67%
Forest.....	7.19	29.36%
Agri - Crops.....	13.28	54.23%
Agri - pasture.....	.62	2.53%

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	.40	11.44	-.--	12.44	72.86	217.77	26.49
FROM Herb	1.81	.20	16.06	-.--	45.56	101.56	13.85
Forest	7.43	7.43	421.29	19.27	-.--	245.47	27.50
Agri-Crops	37.73	26.49	120.02	43.75	416.47	-.--	26.49
Agri-Pasture	.40	0.00	0.00	4.01	.40	4.82	-.--

**King Bayou
(080204020306)**

Area Summary

Area - Square Miles.....	39.99
Area - Acres.....	25892.81

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	66.00	216.00
Elevation Minimum.....	55.00	180.00
Elevation Average.....	60.00	197.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.24	5.61%
Bare.....	.05	.13%
Water.....	2.92	7.31%
Herbaceous.....	.67	1.68%
Forest.....	4.16	10.41%
Agri - Crops.....	27.63	69.16%
Agri - pasture.....	2.28	5.71%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.92	7.31%
Bare.....	.37	.93%
Water.....	2.09	5.23%
Herbaceous.....	.70	1.75%
Forest.....	4.74	11.87%
Agri - Crops.....	26.77	67.03%
Agri - pasture.....	2.35	5.88%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.19	7.99%
Bare.....	.16	.40%
Water.....	2.73	6.84%
Herbaceous.....	.62	1.55%
Forest.....	4.60	11.52%
Agri - Crops.....	27.32	68.40%
Agri - pasture.....	1.32	3.30%

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	1.20	-.--	0.00	0.00	0.00	3.21	0.00
Water	13.65	95.14	-.--	25.49	85.90	553.56	19.07
FROM Herb	24.69	.60	13.05	-.--	28.50	166.39	24.09
Forest	67.04	11.04	98.15	24.29	-.--	250.29	11.84
Agri-Crops	402.22	37.33	135.48	44.96	297.05	-.--	51.78
Agri-Pasture	1.81	0.00	0.00	0.00	.60	10.64	-.--

**Upper Big Ditch-Bayou Meto
(080204020301)**

Area Summary

Area - Square Miles.....	50.41
Area - Acres.....	32639.41

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	73.00	239.00
Elevation Minimum.....	57.00	187.00
Elevation Average.....	64.00	210.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.32	.64%
Bare.....	.00	-.--%
Water.....	3.65	7.33%
Herbaceous.....	.97	1.95%
Forest.....	10.38	20.85%
Agri - Crops.....	31.14	62.56%
Agri - pasture.....	3.32	6.67%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.35	.70%
Bare.....	.35	.70%
Water.....	2.31	4.64%
Herbaceous.....	1.15	2.31%
Forest.....	12.50	25.12%
Agri - Crops.....	29.59	59.45%
Agri - pasture.....	3.52	7.07%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.61	1.23%
Bare.....	.26	.52%
Water.....	2.84	5.70%
Herbaceous.....	3.77	7.57%
Forest.....	11.46	23.02%
Agri - Crops.....	29.20	58.65%
Agri - pasture.....	1.65	3.31%

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	1.00	45.16	-.--	30.31	188.67	961.60	33.32
FROM Herb	3.01	.40	14.05	-.--	81.49	168.40	30.51
Forest	.20	32.11	155.55	13.65	-.--	484.11	49.37
Agri-Crops	4.82	61.42	274.77	60.01	1219.72	-.--	80.48
Agri-Pasture	1.61	.40	.80	0.00	5.62	19.67	-.--

**Upper Crooked Creek
(080204020303)**

Area Summary

Area - Square Miles.....:	55.72
Area - Acres.....:	36076.15

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	71.00	233.00
Elevation Minimum.....:	57.00	187.00
Elevation Average.....:	63.00	207.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.50	.89%
Bare.....:	.00	-.--%
Water.....:	8.47	15.08%
Herbaceous.....:	1.62	2.88%
Forest.....:	7.08	12.60%
Agri - Crops.....:	33.16	59.04%
Agri - pasture.....:	5.34	9.51%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.70	1.25%
Bare.....:	.46	.82%
Water.....:	4.87	8.67%
Herbaceous.....:	1.84	3.28%
Forest.....:	9.89	17.60%
Agri - Crops.....:	33.27	59.22%
Agri - pasture.....:	5.15	9.17%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.15	2.05%
Bare.....:	.54	.96%
Water.....:	5.71	10.17%
Herbaceous.....:	5.28	9.40%
Forest.....:	7.91	14.08%
Agri - Crops.....:	33.36	59.40%
Agri - pasture.....:	2.21	3.94%

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	4.42	82.89	-.--	139.90	499.37	1740.16	40.94
FROM Herb	3.61	.80	26.49	-.--	65.83	275.17	37.93
Forest	11.04	29.71	208.14	44.96	-.--	508.40	39.34
Agri-Crops	75.67	71.85	257.51	112.40	1010.18	-.--	91.72
Agri-Pasture	5.82	.60	2.41	2.81	14.05	266.95	-.--

**Lower Big Ditch-Bayou Meto
(080204020305)**

Area Summary

Area - Square Miles.....	57.79
Area - Acres.....	37415.78

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	69.00	226.00
Elevation Minimum.....	51.00	167.00
Elevation Average.....	60.00	197.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.10	1.91%
Bare.....	.03	.05%
Water.....	3.20	5.57%
Herbaceous.....	1.45	2.52%
Forest.....	18.03	31.36%
Agri - Crops.....	30.20	52.53%
Agri - pasture.....	3.48	6.05%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.68	2.92%
Bare.....	.45	.78%
Water.....	2.75	4.78%
Herbaceous.....	1.60	2.78%
Forest.....	19.06	33.15%
Agri - Crops.....	28.41	49.42%
Agri - pasture.....	3.54	6.16%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.04	3.55%
Bare.....	.28	.49%
Water.....	2.85	4.96%
Herbaceous.....	2.41	4.19%
Forest.....	18.81	32.72%
Agri - Crops.....	29.44	51.21%
Agri - pasture.....	1.66	2.89%

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	7.02	.20
Water	2.21	41.35	-.--	30.51	144.91	690.64	12.85
FROM Herb	10.24	.60	19.07	-.--	78.28	256.71	39.94
Forest	28.90	26.09	345.22	18.47	-.--	387.17	31.31
Agri-Crops	336.79	88.11	290.23	122.63	701.88	-.--	73.46
Agri-Pasture	2.61	.40	0.00	7.23	13.05	18.06	-.--