

Watershed Report

Upper Bayou Meto

0802040201

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)

Upper Bayou Meto (0802040201)

Area Summary

Area - Square Miles.....	206.65
Area - Acres.....	133812.03

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	229.00	751.00
Elevation Minimum.....	61.00	200.00
Elevation Average.....	95.00	312.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	21.15	10.24%
Bare.....	.28	.14%
Water.....	9.44	4.57%
Herbaceous.....	2.36	1.14%
Forest.....	96.14	46.56%
Agri - Crops.....	29.08	14.08%
Agri - pasture.....	48.03	23.26%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	29.29	14.19%
Bare.....	1.26	.61%
Water.....	8.64	4.18%
Herbaceous.....	4.35	2.11%
Forest.....	97.76	47.35%
Agri - Crops.....	23.82	11.54%
Agri - pasture.....	41.34	20.02%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	33.15	15.30%
Bare.....	.76	.35%
Water.....	9.71	4.48%
Herbaceous.....	15.63	7.22%
Forest.....	92.08	42.51%
Agri - Crops.....	23.96	11.06%

Agri - pasture.....: 31.19 14.40%

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	24.69	-.--	.40	0.00	.80	1.20	5.82
Water	101.76	128.86	-.--	30.51	503.58	415.27	106.98
FROM Herb	173.61	3.61	35.73	-.--	256.91	162.98	226.80
Forest	4122.19	171.21	468.66	612.57	-.--	606.95	1930.43
Agri-Crops	1172.95	158.56	445.98	175.22	2183.33	-.--	522.45
Agri-Pasture	2242.74	140.50	96.54	1643.62	2742.91	752.46	-.--

Sub-Watershed Summary (12 Digit HUC)

Kellogg Creek (080204020103)

Area Summary

Area - Square Miles.....	24.15
Area - Acres.....	15639.82

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	180.00	590.00
Elevation Minimum.....	71.00	233.00
Elevation Average.....	105.00	344.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.38	9.90%
Bare.....	.02	.08%
Water.....	.39	1.62%
Herbaceous.....	.20	.83%
Forest.....	18.70	77.82%
Agri - Crops.....	.23	.96%
Agri - pasture.....	2.11	8.78%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.67	15.28%
Bare.....	.05	.21%
Water.....	.37	1.54%
Herbaceous.....	.43	1.79%
Forest.....	17.42	72.52%
Agri - Crops.....	.07	.29%
Agri - pasture.....	2.01	8.37%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.23	17.60%
Bare.....	.03	.12%
Water.....	.50	2.08%
Herbaceous.....	1.23	5.12%
Forest.....	16.48	68.58%
Agri - Crops.....	.16	.67%
Agri - pasture.....	1.40	5.83%

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	.20	0.00	0.00
Water	10.84	2.01	-.--	0.00	25.29	.60	8.43
FROM Herb	17.06	.20	.60	-.--	26.90	.80	16.46
Forest	846.60	16.26	37.53	110.59	-.--	20.67	301.47
Agri-Crops	66.23	.40	.20	14.05	19.07	-.--	30.31
Agri-Pasture	320.94	5.82	1.20	89.92	129.46	5.22	-.--

**Steel Bridge Church-Bayou Meto
(080204020107)**

Area Summary

Area - Square Miles.....	25.52
Area - Acres.....	16524.09

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	82.00	269.00
Elevation Minimum.....	61.00	200.00
Elevation Average.....	70.00	230.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.44	1.73%
Bare.....	.00	-.--%
Water.....	5.75	22.58%
Herbaceous.....	.36	1.41%
Forest.....	5.28	20.74%
Agri - Crops.....	9.11	35.78%
Agri - pasture.....	4.52	17.75%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.79	3.10%
Bare.....	.23	.90%
Water.....	4.85	19.04%
Herbaceous.....	.55	2.16%
Forest.....	6.70	26.31%
Agri - Crops.....	8.50	33.37%
Agri - pasture.....	3.85	15.12%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.99	3.89%
Bare.....	.15	.59%
Water.....	5.18	20.33%
Herbaceous.....	2.31	9.07%
Forest.....	5.71	22.41%
Agri - Crops.....	8.65	33.95%
Agri - pasture.....	2.49	9.77%

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	10.04	66.03	-.--	27.30	221.79	294.64	38.34
FROM Herb	2.81	1.81	16.46	-.--	37.53	45.96	28.70
Forest	28.70	21.07	142.71	19.67	-.--	163.98	74.87
Agri-Crops	163.18	39.14	152.34	35.73	406.44	-.--	73.06
Agri-Pasture	32.52	17.46	6.22	105.37	218.98	175.02	-.--

**Hall Creek-Bayou Meto
(080204020106)**

Area Summary

Area - Square Miles.....	28.58
Area - Acres.....	18504.96

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	81.00	266.00
Elevation Minimum.....	66.00	216.00
Elevation Average.....	74.00	243.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.73	2.56%
Bare.....	.03	.11%
Water.....	1.23	4.31%
Herbaceous.....	.50	1.75%
Forest.....	7.43	26.01%
Agri - Crops.....	11.44	40.04%
Agri - pasture.....	7.21	25.24%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.51	5.29%
Bare.....	.23	.81%
Water.....	1.30	4.55%
Herbaceous.....	.78	2.73%
Forest.....	8.51	29.81%
Agri - Crops.....	10.26	35.94%
Agri - pasture.....	5.96	20.88%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.80	6.30%
Bare.....	.15	.53%
Water.....	1.58	5.53%
Herbaceous.....	2.94	10.29%
Forest.....	8.02	28.08%
Agri - Crops.....	9.93	34.77%
Agri - pasture.....	4.14	14.50%

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	.20	.20
Water	6.82	27.10	-.--	.20	63.02	57.00	7.02
FROM Herb	3.61	.20	10.64	-.--	35.33	37.93	43.96
Forest	176.22	20.87	62.82	25.89	-.--	230.21	86.31
Agri-Crops	190.47	30.71	145.52	60.61	560.58	-.--	89.72
Agri-Pasture	217.57	11.24	20.87	115.61	311.50	232.22	-.--

**Fivemile Creek-Bayou Meto
(080204020104)**

Area Summary

Area - Square Miles.....	39.20
Area - Acres.....	25381.27

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	182.00	597.00
Elevation Minimum.....	70.00	230.00
Elevation Average.....	105.00	344.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.37	29.00%
Bare.....	.14	.36%
Water.....	.92	2.35%
Herbaceous.....	.54	1.38%
Forest.....	19.10	48.71%
Agri - Crops.....	1.28	3.26%
Agri - pasture.....	5.86	14.95%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	13.78	35.14%
Bare.....	.28	.71%
Water.....	.91	2.32%
Herbaceous.....	.76	1.94%
Forest.....	18.00	45.91%
Agri - Crops.....	.23	.59%
Agri - pasture.....	5.25	13.39%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	15.15	38.64%
Bare.....	.17	.43%
Water.....	.99	2.52%
Herbaceous.....	2.43	6.20%
Forest.....	16.75	42.72%
Agri - Crops.....	.53	1.35%
Agri - pasture.....	3.19	8.14%

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	14.45	-.--	0.00	0.00	.60	0.00	4.82
Water	51.78	15.05	-.--	.80	47.97	6.62	23.08
FROM Herb	96.94	.40	2.41	-.--	50.38	2.81	56.40
Forest	1864.60	30.11	106.38	29.71	-.--	18.67	415.67
Agri-Crops	261.53	32.92	49.17	17.86	251.69	-.--	82.29
Agri-Pasture	532.49	18.47	10.84	75.27	267.75	15.45	-.--

**Bridge Creek-Leopard Creek
(080204020101)**

Area Summary

Area - Square Miles.....	30.32
Area - Acres.....	19635.03

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	204.00	669.00
Elevation Minimum.....	75.00	246.00
Elevation Average.....	108.00	354.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.45	1.47%
Bare.....	.00	-.--%
Water.....	.14	.46%
Herbaceous.....	.09	.29%
Forest.....	17.97	58.57%
Agri - Crops.....	.22	.72%
Agri - pasture.....	11.81	38.49%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.47	4.79%
Bare.....	.10	.33%
Water.....	.16	.52%
Herbaceous.....	.46	1.50%
Forest.....	18.10	58.98%
Agri - Crops.....	.02	.07%
Agri - pasture.....	10.38	33.82%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.76	5.74%
Bare.....	.03	.10%
Water.....	.21	.68%
Herbaceous.....	2.08	6.78%
Forest.....	17.53	57.14%
Agri - Crops.....	.20	.65%
Agri - pasture.....	8.87	28.91%

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	-.--	.40	0.00	0.00	0.00	0.00
Water	.40	3.81	-.--	.80	11.84	0.00	7.63
FROM Herb	.20	.20	.40	-.--	12.24	0.00	21.28
Forest	224.80	23.28	9.23	100.96	-.--	0.00	480.70
Agri-Crops	67.84	1.61	.80	2.41	10.44	-.--	53.59
Agri-Pasture	413.46	30.51	19.07	494.15	745.64	1.20	-.--

**Bayou Meto Headwaters
(080204020102)**

Area Summary

Area - Square Miles.....:	27.47
Area - Acres.....:	17787.32

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	229.00	751.00
Elevation Minimum.....:	75.00	246.00
Elevation Average.....:	127.00	417.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.76	2.80%
Bare.....:	.00	-.--%
Water.....:	.11	.41%
Herbaceous.....:	.04	.15%
Forest.....:	17.53	64.69%
Agri - Crops.....:	.02	.07%
Agri - pasture.....:	8.64	31.88%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.41	5.20%
Bare.....:	.12	.44%
Water.....:	.11	.41%
Herbaceous.....:	.60	2.21%
Forest.....:	17.31	63.90%
Agri - Crops.....:	.01	.04%
Agri - pasture.....:	7.53	27.80%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.70	6.27%
Bare.....:	.04	.15%
Water.....:	.14	.52%
Herbaceous.....:	2.23	8.23%
Forest.....:	16.54	61.03%
Agri - Crops.....:	.07	.26%
Agri - pasture.....:	6.38	23.54%

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	.20	-.--	0.00	0.00	0.00	0.00	.20
Water	.80	8.23	-.--	.60	18.87	0.00	7.43
FROM Herb	2.61	.40	0.00	-.--	5.82	0.00	5.42
Forest	298.26	36.73	10.84	310.70	-.--	1.00	426.31
Agri-Crops	1.00	4.82	0.00	0.00	3.81	-.--	3.61
Agri-Pasture	274.37	36.13	12.44	697.87	735.60	1.40	-.--

**Bayou Ink-Bayou Meto
(080204020105)**

Area Summary

Area - Square Miles.....	31.41
Area - Acres.....	20339.54

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	123.00	403.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	77.00	253.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.02	15.97%
Bare.....	.09	.29%
Water.....	.90	2.86%
Herbaceous.....	.63	2.00%
Forest.....	10.13	32.23%
Agri - Crops.....	6.78	21.57%
Agri - pasture.....	7.88	25.07%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.66	21.19%
Bare.....	.25	.80%
Water.....	.94	2.99%
Herbaceous.....	.77	2.45%
Forest.....	11.72	37.29%
Agri - Crops.....	4.73	15.05%
Agri - pasture.....	6.36	20.24%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.52	23.93%
Bare.....	.19	.60%
Water.....	1.11	3.53%
Herbaceous.....	2.41	7.67%
Forest.....	11.05	35.17%
Agri - Crops.....	4.42	14.07%
Agri - pasture.....	4.72	15.02%

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	9.83	-.--	0.00	0.00	0.00	1.00	.60
Water	21.07	6.62	-.--	.80	114.81	56.40	15.05
FROM Herb	50.38	.40	5.22	-.--	88.71	75.47	54.59
Forest	683.02	22.88	99.15	15.05	-.--	172.41	145.11
Agri-Crops	422.70	48.97	97.95	44.56	931.30	-.--	189.87
Agri-Pasture	451.40	20.87	25.89	65.43	333.98	321.94	-.--