

Watershed Report

Lower Mulberry River

1111020108

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)

Lower Mulberry River (1111020108)

Area Summary

Area - Square Miles.....	146.63
Area - Acres.....	94936.15

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	549.00	1801.00
Elevation Minimum.....	104.00	341.00
Elevation Average.....	224.00	735.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.61	1.78%
Bare.....	.08	.05%
Water.....	2.87	1.96%
Herbaceous.....	2.45	1.67%
Forest.....	80.60	54.98%
Agri - Crops.....	3.52	2.40%
Agri - pasture.....	54.47	37.16%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.22	5.61%
Bare.....	1.02	.70%
Water.....	2.18	1.49%
Herbaceous.....	5.42	3.70%
Forest.....	86.31	58.88%
Agri - Crops.....	3.74	2.55%
Agri - pasture.....	39.69	27.08%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	10.51	6.80%
Bare.....	.30	.19%
Water.....	1.69	1.09%
Herbaceous.....	15.12	9.78%
Forest.....	82.54	53.40%
Agri - Crops.....	4.73	3.06%

Agri - pasture.....: 31.69 20.50%

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	1.40	-.--	4.21	6.02	10.64	9.23	0.00
Water	37.13	52.79	-.--	106.78	389.58	228.61	60.01
FROM Herb	116.41	9.23	28.30	-.--	469.86	62.02	36.53
Forest	1345.96	414.67	220.38	406.44	-.--	77.47	1191.42
Agri-Crops	87.31	2.41	41.75	202.72	695.66	-.--	10.64
Agri-Pasture	1970.78	220.98	101.36	2416.35	3898.40	970.23	-.--

Sub-Watershed Summary (12 Digit HUC)

Mulberry River Outlet (111102010806)

Area Summary

Area - Square Miles.....	17.93
Area - Acres.....	11612.00

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	269.00	882.00
Elevation Minimum.....	107.00	351.00
Elevation Average.....	131.00	430.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.30	1.68%
Bare.....	.05	.28%
Water.....	1.63	9.11%
Herbaceous.....	1.30	7.27%
Forest.....	3.65	20.40%
Agri - Crops.....	2.98	16.66%
Agri - pasture.....	7.98	44.61%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.67	9.33%
Bare.....	.05	.28%
Water.....	1.08	6.03%
Herbaceous.....	1.69	9.44%
Forest.....	6.11	34.13%
Agri - Crops.....	3.15	17.60%
Agri - pasture.....	4.15	23.18%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.32	12.96%
Bare.....	.05	.28%
Water.....	.87	4.86%
Herbaceous.....	2.95	16.48%
Forest.....	4.66	26.03%
Agri - Crops.....	4.18	23.35%
Agri - pasture.....	2.87	16.03%

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	-.--	4.21	6.02	10.64	9.23	0.00
Water	8.63	2.21	-.--	70.05	202.32	223.79	18.26
FROM Herb	14.05	0.00	22.28	-.--	235.43	53.19	5.02
Forest	269.15	10.04	102.56	92.93	-.--	62.02	103.77
Agri-Crops	56.20	.20	35.33	151.34	573.43	-.--	6.82
Agri-Pasture	532.89	5.62	44.96	448.39	623.01	747.04	-.--

**Mill Creek-Mulberry River
(111102010801)**

Area Summary

Area - Square Miles.....	27.32
Area - Acres.....	17686.51

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	549.00	1801.00
Elevation Minimum.....	133.00	436.00
Elevation Average.....	299.00	981.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.13	.47%
Bare.....	.00	-.--%
Water.....	.19	.69%
Herbaceous.....	.03	.11%
Forest.....	25.38	92.39%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.74	6.33%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.18	.66%
Bare.....	.10	.36%
Water.....	.21	.76%
Herbaceous.....	.15	.55%
Forest.....	25.45	92.65%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.38	5.02%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.16	.58%
Bare.....	.02	.07%
Water.....	.10	.36%
Herbaceous.....	.54	1.97%
Forest.....	25.62	93.27%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.03	3.75%

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	18.87	-.--	3.01	46.56	0.00	7.43
FROM Herb	.20	.80	0.00	-.--	16.86	0.00	.60
Forest	4.21	71.45	25.09	13.85	-.--	0.00	74.66
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.40
Agri-Pasture	1.00	16.26	1.20	66.03	213.56	0.00	-.--

**Rock Creek-Little Mulberry Creek
(111102010804)**

Area Summary

Area - Square Miles.....	22.66
Area - Acres.....	14669.65

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	548.00	1797.00
Elevation Minimum.....	134.00	440.00
Elevation Average.....	286.00	938.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.03	.13%
Bare.....	.00	-.--%
Water.....	.25	1.10%
Herbaceous.....	.08	.35%
Forest.....	17.50	77.13%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.83	21.29%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.07	.31%
Bare.....	.18	.79%
Water.....	.24	1.06%
Herbaceous.....	.52	2.29%
Forest.....	18.22	80.37%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.44	15.17%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.10	.44%
Bare.....	.03	.13%
Water.....	.21	.93%
Herbaceous.....	1.80	7.94%
Forest.....	17.98	79.31%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.55	11.25%

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	4.82	-.--	1.40	22.88	0.00	2.01
FROM Herb	0.0	1.61	.20	-.--	37.33	0.00	2.61
Forest	12.64	76.27	14.25	69.45	-.--	0.00	171.41
Agri-Crops	0.0	0.00	0.00	0.00	.20	-.--	0.00
Agri-Pasture	8.83	45.16	1.81	415.27	612.17	0.00	-.--

**Maxie Creek-Mulberry River
(111102010802)**

Area Summary

Area - Square Miles.....	33.47
Area - Acres.....	21669.12

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	348.00	1141.00
Elevation Minimum.....	106.00	348.00
Elevation Average.....	169.00	554.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.85	2.55%
Bare.....	.02	.06%
Water.....	.40	1.20%
Herbaceous.....	.20	.60%
Forest.....	14.18	42.57%
Agri - Crops.....	.04	.12%
Agri - pasture.....	17.62	52.90%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.99	5.98%
Bare.....	.31	.93%
Water.....	.29	.87%
Herbaceous.....	1.04	3.12%
Forest.....	15.09	45.33%
Agri - Crops.....	.10	.30%
Agri - pasture.....	14.47	43.47%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.53	7.60%
Bare.....	.08	.24%
Water.....	.22	.66%
Herbaceous.....	4.02	12.07%
Forest.....	14.48	43.48%
Agri - Crops.....	.10	.30%
Agri - pasture.....	11.87	35.65%

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	1.00	-.--	0.00	0.00	0.00	0.00	0.00
Water	8.23	20.67	-.--	10.44	80.48	2.21	16.46
FROM Herb	31.71	3.41	2.21	-.--	63.83	.20	13.05
Forest	350.64	110.19	34.12	77.47	-.--	4.82	397.21
Agri-Crops	.40	1.81	0.00	0.00	12.04	-.--	1.40
Agri-Pasture	363.89	68.04	14.25	411.66	983.68	44.76	-.--

**Little Mulberry Creek Outlet
(111102010805)**

Area Summary

Area - Square Miles.....	19.17
Area - Acres.....	12411.42

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	273.00	895.00
Elevation Minimum.....	104.00	341.00
Elevation Average.....	148.00	485.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.98	5.11%
Bare.....	.01	.05%
Water.....	.32	1.67%
Herbaceous.....	.70	3.65%
Forest.....	4.80	25.05%
Agri - Crops.....	.50	2.61%
Agri - pasture.....	11.85	61.85%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.73	19.47%
Bare.....	.13	.68%
Water.....	.29	1.51%
Herbaceous.....	1.31	6.84%
Forest.....	5.63	29.38%
Agri - Crops.....	.49	2.56%
Agri - pasture.....	7.58	39.56%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.73	24.70%
Bare.....	.05	.26%
Water.....	.24	1.25%
Herbaceous.....	2.89	15.09%
Forest.....	4.75	24.80%
Agri - Crops.....	.44	2.30%
Agri - pasture.....	6.05	31.59%

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	20.27	2.61	-.--	16.66	23.08	2.61	9.43
FROM Herb	69.25	.60	3.61	-.--	46.16	8.63	9.43
Forest	642.88	30.51	34.52	79.28	-.--	10.64	165.79
Agri-Crops	30.71	.40	6.42	51.38	109.99	-.--	2.01
Agri-Pasture	1017.80	29.91	30.71	624.61	681.41	178.43	-.--

**Headwaters Little Mulberry Creek
(111102010803)**

Area Summary

Area - Square Miles.....	26.08
Area - Acres.....	16887.45

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	533.00	1748.00
Elevation Minimum.....	133.00	436.00
Elevation Average.....	282.00	925.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.32	1.23%
Bare.....	.00	-.--%
Water.....	.08	.31%
Herbaceous.....	.14	.54%
Forest.....	15.09	57.86%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	10.45	40.07%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.58	2.22%
Bare.....	.25	.96%
Water.....	.07	.27%
Herbaceous.....	.71	2.72%
Forest.....	15.81	60.60%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	8.67	33.23%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.67	2.57%
Bare.....	.07	.27%
Water.....	.05	.19%
Herbaceous.....	2.92	11.19%
Forest.....	15.05	57.68%
Agri - Crops.....	.01	.04%
Agri - pasture.....	7.32	28.06%

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	3.61	-.--	5.22	14.25	0.00	6.42
FROM Herb	1.20	2.81	0.00	-.--	70.25	0.00	5.82
Forest	66.44	116.21	9.83	73.46	-.--	0.00	278.59
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	46.36	56.00	8.43	450.39	784.58	0.00	-.--