

# Watershed Report

## Maumelle River-Arkansas River

### 1111020701

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)

### *Maumelle River-Arkansas River (1111020701)*

#### **Area Summary**

Area - Square Miles.....	255.26
Area - Acres.....	165272.90

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	451.00	1479.00
Elevation Minimum.....	73.00	239.00
Elevation Average.....	159.00	522.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.69	3.00%
Bare.....	.11	.04%
Water.....	22.19	8.65%
Herbaceous.....	2.37	.92%
Forest.....	206.76	80.56%
Agri - Crops.....	3.61	1.41%
Agri - pasture.....	13.93	5.43%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	14.87	5.79%
Bare.....	.28	.11%
Water.....	22.03	8.58%
Herbaceous.....	5.80	2.26%
Forest.....	194.23	75.67%
Agri - Crops.....	4.34	1.69%
Agri - pasture.....	15.12	5.89%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	16.60	6.34%
Bare.....	.18	.07%
Water.....	20.68	7.89%
Herbaceous.....	14.31	5.46%
Forest.....	190.48	72.71%
Agri - Crops.....	4.59	1.75%

Agri - pasture.....:

9.78

3.73%

**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	11.44	-.--	1.00	0.00	1.61	7.02	2.61
Water	102.96	30.11	-.--	14.65	332.38	52.18	85.50
FROM Herb	160.97	7.23	37.53	-.--	412.46	149.13	458.22
Forest	4337.15	91.12	554.56	3604.36	-.--	341.21	2778.44
Agri-Crops	63.02	2.41	29.30	16.66	164.98	-.--	30.51
Agri-Pasture	1076.81	18.26	42.55	237.44	723.36	389.18	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Reece Creek-Maumelle River (111102070106)

### Area Summary

Area - Square Miles.....	54.06
Area - Acres.....	35001.70

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	352.00	1155.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	134.00	440.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.50	.91%
Bare.....	.00	-.--%
Water.....	14.73	26.85%
Herbaceous.....	.32	.58%
Forest.....	38.24	69.69%
Agri - Crops.....	.08	.15%
Agri - pasture.....	1.00	1.82%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.88	1.60%
Bare.....	.01	.02%
Water.....	14.88	27.11%
Herbaceous.....	1.37	2.50%
Forest.....	35.52	64.72%
Agri - Crops.....	.19	.35%
Agri - pasture.....	2.03	3.70%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.11	2.02%
Bare.....	.01	.02%
Water.....	13.94	25.40%
Herbaceous.....	3.99	7.27%
Forest.....	34.37	62.63%
Agri - Crops.....	.23	.42%
Agri - pasture.....	1.23	2.24%

### 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	0.0	-.--	0.00	0.00	.40	0.00	.40
Water	19.27	2.41	-.--	13.25	80.69	2.41	28.10
FROM Herb	6.42	1.40	6.42	-.--	66.23	8.23	90.52
Forest	207.33	3.21	318.73	839.97	-.--	49.98	726.37
Agri-Crops	1.40	0.00	0.00	0.00	2.01	-.--	.20
Agri-Pasture	21.68	.60	3.81	33.32	61.62	22.68	-.--

**Maumelle River-Arkansas River  
(111102070107)**

**Area Summary**

Area - Square Miles.....	34.02
Area - Acres.....	22025.24

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	251.00	823.00
Elevation Minimum.....	73.00	239.00
Elevation Average.....	92.00	302.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.77	5.10%
Bare.....	.03	.09%
Water.....	6.05	17.43%
Herbaceous.....	.84	2.42%
Forest.....	18.05	51.99%
Agri - Crops.....	3.44	9.91%
Agri - pasture.....	4.54	13.08%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.41	9.82%
Bare.....	.09	.26%
Water.....	5.76	16.59%
Herbaceous.....	1.21	3.48%
Forest.....	16.43	47.31%
Agri - Crops.....	4.12	11.86%
Agri - pasture.....	3.71	10.68%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.88	11.18%
Bare.....	.05	.14%
Water.....	5.61	16.16%
Herbaceous.....	2.98	8.58%
Forest.....	15.49	44.61%
Agri - Crops.....	4.13	11.90%
Agri - pasture.....	2.58	7.43%

**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	4.01	-.--	1.00	0.00	1.20	7.02	1.81
Water	46.77	12.24	-.--	.20	104.37	49.17	25.09
FROM Herb	15.45	2.61	25.89	-.--	166.19	140.90	70.85
Forest	834.35	18.67	124.44	490.94	-.--	281.80	437.95
Agri-Crops	38.54	2.41	28.10	8.23	154.35	-.--	16.86
Agri-Pasture	331.98	5.22	14.85	87.11	209.74	362.48	-.--

**Kinley Creek-Nowlin River  
(111102070103)**

**Area Summary**

Area - Square Miles.....	26.35
Area - Acres.....	17060.89

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	346.00	1135.00
Elevation Minimum.....	78.00	256.00
Elevation Average.....	162.00	531.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	1.02%
Bare.....	.00	-.--%
Water.....	.06	.23%
Herbaceous.....	.36	1.37%
Forest.....	24.58	93.21%
Agri - Crops.....	.01	.04%
Agri - pasture.....	1.09	4.13%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.67	2.54%
Bare.....	.00	-.--%
Water.....	.07	.27%
Herbaceous.....	.96	3.64%
Forest.....	23.40	88.77%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.26	4.78%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.81	3.07%
Bare.....	.00	-.--%
Water.....	.04	.15%
Herbaceous.....	1.95	7.39%
Forest.....	23.05	87.41%
Agri - Crops.....	.01	.04%
Agri - pasture.....	.51	1.93%

**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	1.00	0.00	-.--	1.20	11.24	0.00	3.21
FROM Herb	7.02	.20	0.00	-.--	61.62	0.00	75.27
Forest	181.64	.60	5.62	463.24	-.--	.40	282.20
Agri-Crops	2.21	0.00	0.00	.60	0.00	-.--	1.61
Agri-Pasture	68.44	.20	1.00	40.54	85.70	.20	-.--

**Bringle Creek-Maumelle River  
(111102070102)**

**Area Summary**

Area - Square Miles.....	41.38
Area - Acres.....	26791.48

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	424.00	1391.00
Elevation Minimum.....	82.00	269.00
Elevation Average.....	180.00	590.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.57%
Bare.....	.00	-.--%
Water.....	.14	.33%
Herbaceous.....	.11	.26%
Forest.....	39.75	94.42%
Agri - Crops.....	.01	.02%
Agri - pasture.....	1.85	4.39%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.36	.85%
Bare.....	.00	-.--%
Water.....	.16	.38%
Herbaceous.....	1.33	3.16%
Forest.....	37.87	89.93%
Agri - Crops.....	.01	.02%
Agri - pasture.....	2.38	5.65%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.48	1.14%
Bare.....	.03	.07%
Water.....	.10	.24%
Herbaceous.....	2.66	6.32%
Forest.....	37.14	88.24%
Agri - Crops.....	.05	.12%
Agri - pasture.....	1.63	3.87%

**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	.20	0.00	-.--	0.00	28.30	.20	6.82
FROM Herb	.40	0.00	0.00	-.--	21.07	0.00	15.45
Forest	16.66	.40	9.03	1092.27	-.--	1.40	463.44
Agri-Crops	0.0	0.00	0.00	7.83	.20	-.--	1.00
Agri-Pasture	3.41	.20	1.20	36.53	113.80	2.81	-.--

**Little Maumelle River-Maumelle River  
(111102070105)**

**Area Summary**

Area - Square Miles.....	20.80
Area - Acres.....	13469.73

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	322.00	1056.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	117.00	384.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.91	19.20%
Bare.....	.08	.39%
Water.....	.86	4.22%
Herbaceous.....	.17	.83%
Forest.....	12.38	60.81%
Agri - Crops.....	.05	.25%
Agri - pasture.....	2.91	14.29%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.20	30.44%
Bare.....	.16	.79%
Water.....	.74	3.63%
Herbaceous.....	.13	.64%
Forest.....	10.86	53.31%
Agri - Crops.....	.01	.05%
Agri - pasture.....	2.27	11.14%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.70	32.92%
Bare.....	.08	.39%
Water.....	.66	3.24%
Herbaceous.....	.72	3.54%
Forest.....	10.57	51.94%
Agri - Crops.....	.14	.69%
Agri - pasture.....	1.48	7.27%

**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	7.43	-.--	0.00	0.00	0.00	0.00	.20
Water	18.47	14.25	-.--	0.00	73.26	0.00	14.05
FROM Herb	53.59	2.21	2.61	-.--	28.30	0.00	22.88
Forest	1774.48	53.19	48.77	8.23	-.--	2.21	180.84
Agri-Crops	10.44	0.00	1.20	0.00	7.23	-.--	10.24
Agri-Pasture	425.91	10.24	8.23	11.64	84.10	.60	-.--

**Brown Creek-Maumelle River  
(111102070101)**

**Area Summary**

Area - Square Miles.....	42.92
Area - Acres.....	27791.93

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	451.00	1479.00
Elevation Minimum.....	127.00	417.00
Elevation Average.....	248.00	813.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.14	.32%
Bare.....	.00	-.--%
Water.....	.08	.19%
Herbaceous.....	.09	.21%
Forest.....	42.58	98.84%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.19	.44%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.23	.53%
Bare.....	.00	-.--%
Water.....	.10	.23%
Herbaceous.....	.52	1.21%
Forest.....	41.10	95.40%
Agri - Crops.....	.01	.02%
Agri - pasture.....	1.12	2.60%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.56%
Bare.....	.00	-.--%
Water.....	.07	.16%
Herbaceous.....	1.06	2.46%
Forest.....	40.82	94.78%
Agri - Crops.....	.01	.02%
Agri - pasture.....	.87	2.02%

**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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	0.00	-.--	0.00	6.22	0.00	.60
FROM Herb	0.0	0.00	0.00	-.--	14.45	0.00	24.89
Forest	2.81	.80	8.63	685.23	-.--	4.82	340.00
Agri-Crops	0.0	0.00	0.00	0.00	1.20	-.--	.20
Agri-Pasture	0.0	0.00	0.00	7.83	26.90	0.00	-.--



**Fletcher Creek-Maumelle River  
(111102070104)**

**Area Summary**

Area - Square Miles.....	35.73
Area - Acres.....	23131.93

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	322.00	1056.00
Elevation Minimum.....	78.00	256.00
Elevation Average.....	154.00	505.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.86	2.45%
Bare.....	.00	-.--%
Water.....	.27	.77%
Herbaceous.....	.48	1.37%
Forest.....	31.18	88.68%
Agri - Crops.....	.02	.06%
Agri - pasture.....	2.35	6.68%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.12	8.88%
Bare.....	.02	.06%
Water.....	.32	.91%
Herbaceous.....	.28	.80%
Forest.....	29.05	82.67%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.35	6.69%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.38	9.62%
Bare.....	.01	.03%
Water.....	.26	.74%
Herbaceous.....	.95	2.70%
Forest.....	29.04	82.64%
Agri - Crops.....	.02	.06%
Agri - pasture.....	1.48	4.21%

**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	.20
Water	17.26	1.20	-.--	0.00	28.30	.40	7.63
FROM Herb	78.08	.80	2.61	-.--	54.59	0.00	158.36
Forest	1319.87	14.25	39.34	24.49	-.--	.60	347.63
Agri-Crops	10.44	0.00	0.00	0.00	0.00	-.--	.40
Agri-Pasture	225.40	1.81	13.45	20.47	141.50	.40	-.--