

# Watershed Report

## Upper Mountain Fork

### 1114010801

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 Mountain Fork (1114010801)*

#### **Area Summary**

Area - Square Miles.....	160.36
Area - Acres.....	103834.46

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	818.00	2683.00
Elevation Minimum.....	239.00	784.00
Elevation Average.....	366.00	1200.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.76	1.10%
Bare.....	.03	.02%
Water.....	.54	.34%
Herbaceous.....	.70	.44%
Forest.....	129.87	80.91%
Agri - Crops.....	.08	.05%
Agri - pasture.....	27.53	17.15%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.69	2.30%
Bare.....	.20	.12%
Water.....	.47	.29%
Herbaceous.....	3.64	2.27%
Forest.....	124.11	77.35%
Agri - Crops.....	.19	.12%
Agri - pasture.....	28.16	17.55%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.99	3.11%
Bare.....	.18	.11%
Water.....	.68	.42%
Herbaceous.....	9.25	5.76%
Forest.....	116.71	72.68%
Agri - Crops.....	.60	.37%

Agri - pasture.....: 28.08 17.49%

**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	11.04	-.--	0.00	2.41	.60	1.61	.80
Water	5.42	2.01	-.--	3.81	97.34	.60	16.66
FROM Herb	29.71	1.81	0.00	-.--	121.63	2.01	160.97
Forest	611.97	71.85	22.88	2252.17	-.--	57.20	2495.23
Agri-Crops	18.47	2.41	0.00	12.64	4.21	-.--	2.21
Agri-Pasture	349.64	21.28	6.02	1059.75	1748.79	54.39	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Rock Creek-Mountain Fork (111401080103)

### Area Summary

Area - Square Miles.....	37.49
Area - Acres.....	24272.13

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	766.00	2512.00
Elevation Minimum.....	262.00	859.00
Elevation Average.....	369.00	1210.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.90	2.44%
Bare.....	.02	.05%
Water.....	.05	.14%
Herbaceous.....	.25	.68%
Forest.....	27.77	75.28%
Agri - Crops.....	.04	.11%
Agri - pasture.....	7.86	21.31%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.84	4.99%
Bare.....	.06	.16%
Water.....	.05	.14%
Herbaceous.....	1.12	3.04%
Forest.....	26.00	70.48%
Agri - Crops.....	.04	.11%
Agri - pasture.....	7.78	21.09%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.35	6.37%
Bare.....	.05	.14%
Water.....	.07	.19%
Herbaceous.....	2.91	7.89%
Forest.....	23.97	64.96%
Agri - Crops.....	.11	.30%
Agri - pasture.....	7.44	20.16%

### 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	9.03	-.--	0.00	1.61	.20	1.40	.60
Water	1.00	.40	-.--	.80	13.25	.20	5.22
FROM Herb	20.47	.60	0.00	-.--	49.17	.80	44.56
Forest	343.22	21.68	4.21	586.88	-.--	7.23	690.24
Agri-Crops	11.64	1.40	0.00	3.21	3.41	-.--	1.20
Agri-Pasture	163.18	6.22	2.21	196.90	569.42	11.24	-.--

**Two Mile Creek-Mountain Fork  
(111401080104)**

**Area Summary**

Area - Square Miles.....:	20.05
Area - Acres.....:	12984.88

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	621.00	2037.00
Elevation Minimum.....:	262.00	859.00
Elevation Average.....:	377.00	1237.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.08	.39%
Bare.....:	.00	-.--%
Water.....:	.01	.05%
Herbaceous.....:	.13	.64%
Forest.....:	18.80	92.47%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	1.31	6.44%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.24	1.18%
Bare.....:	.01	.05%
Water.....:	.00	-.--%
Herbaceous.....:	.52	2.56%
Forest.....:	18.17	89.42%
Agri - Crops.....:	.01	.05%
Agri - pasture.....:	1.37	6.74%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.30	1.48%
Bare.....:	.01	.05%
Water.....:	.01	.05%
Herbaceous.....:	.77	3.79%
Forest.....:	17.76	87.36%
Agri - Crops.....:	.03	.15%
Agri - pasture.....:	1.45	7.13%

**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	.20	-.--	0.00	0.00	0.00	0.00	0.00
Water	.60	0.00	-.--	0.00	2.61	0.00	.40
FROM Herb	.60	.20	0.00	-.--	22.08	.40	31.31
Forest	49.78	4.21	.40	328.36	-.--	2.01	119.42
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	30.11	.40	0.00	149.13	123.04	1.61	-.--

**Mill Creek-Mountain Fork  
(111401080101)**

**Area Summary**

Area - Square Miles.....	33.99
Area - Acres.....	22005.56

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	818.00	2683.00
Elevation Minimum.....	280.00	918.00
Elevation Average.....	411.00	1348.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.13	.38%
Bare.....	.00	-.--%
Water.....	.03	.09%
Herbaceous.....	.01	.03%
Forest.....	30.30	89.22%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.49	10.28%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.62%
Bare.....	.02	.06%
Water.....	.02	.06%
Herbaceous.....	.32	.94%
Forest.....	29.51	86.95%
Agri - Crops.....	.02	.06%
Agri - pasture.....	3.84	11.31%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.33	.97%
Bare.....	.03	.09%
Water.....	.04	.12%
Herbaceous.....	.82	2.42%
Forest.....	28.75	84.68%
Agri - Crops.....	.11	.32%
Agri - pasture.....	3.87	11.40%

**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	-.--	1.00	6.82	0.00	1.40
FROM Herb	0.0	0.00	0.00	-.--	1.40	0.00	.20
Forest	3.01	8.63	2.81	218.57	-.--	2.41	392.99
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	3.21	3.81	.80	133.47	177.83	11.84	-.--

**Powell Creek-Mountain Fork  
(111401080102)**

**Area Summary**

Area - Square Miles.....:	32.76
Area - Acres.....:	21214.01

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	814.00	2670.00
Elevation Minimum.....:	266.00	872.00
Elevation Average.....:	360.00	1181.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.20	.61%
Bare.....:	.00	-.--%
Water.....:	.35	1.06%
Herbaceous.....:	.21	.64%
Forest.....:	24.93	75.48%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	7.33	22.19%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.37	1.12%
Bare.....:	.04	.12%
Water.....:	.31	.94%
Herbaceous.....:	.93	2.82%
Forest.....:	23.60	71.47%
Agri - Crops.....:	.07	.21%
Agri - pasture.....:	7.70	23.32%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.64	1.94%
Bare.....:	.03	.09%
Water.....:	.35	1.06%
Herbaceous.....:	2.76	8.36%
Forest.....:	21.36	64.69%
Agri - Crops.....:	.16	.48%
Agri - pasture.....:	7.72	23.38%

**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	.20	.20	0.00	0.00
Water	.80	.80	-.--	1.40	22.28	.20	6.82
FROM Herb	.60	1.00	0.00	-.--	31.51	.20	67.44
Forest	9.83	14.65	11.24	572.43	-.--	36.73	626.42
Agri-Crops	0.0	0.00	0.00	7.02	0.00	-.--	1.00
Agri-Pasture	13.05	3.61	1.20	221.79	380.55	10.24	-.--

**Cedar Creek-Mountain Fork  
(111401080105)**

**Area Summary**

Area - Square Miles.....:	36.07
Area - Acres.....:	23357.88

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	706.00	2316.00
Elevation Minimum.....:	239.00	784.00
Elevation Average.....:	319.00	1046.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.45	1.24%
Bare.....:	.01	.03%
Water.....:	.10	.28%
Herbaceous.....:	.10	.28%
Forest.....:	28.07	77.33%
Agri - Crops.....:	.03	.08%
Agri - pasture.....:	7.54	20.77%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.03	2.84%
Bare.....:	.07	.19%
Water.....:	.09	.25%
Herbaceous.....:	.75	2.07%
Forest.....:	26.83	73.93%
Agri - Crops.....:	.05	.14%
Agri - pasture.....:	7.47	20.58%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.37	3.78%
Bare.....:	.06	.17%
Water.....:	.21	.58%
Herbaceous.....:	1.99	5.48%
Forest.....:	24.87	68.53%
Agri - Crops.....:	.19	.52%
Agri - pasture.....:	7.60	20.94%

**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>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	1.81	-.--	0.00	.60	.20	.20	.20
Water	3.01	.80	-.--	.60	52.39	.20	2.81
FROM Herb	8.03	0.00	0.00	-.--	17.46	.60	17.46
Forest	206.13	22.68	4.21	545.93	-.--	8.83	666.16
Agri-Crops	6.82	1.00	0.00	2.41	.80	-.--	0.00
Agri-Pasture	140.10	7.23	1.81	358.47	497.96	19.47	-.--