

# Watershed Report

## Flat Fork Creek-Big Creek

### 0802030401

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)

### *Flat Fork Creek-Big Creek (0802030401)*

#### **Area Summary**

Area - Square Miles.....	284.92
Area - Acres.....	184487.15

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	70.00	230.00
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.....	4.19	1.47%
Bare.....	.10	.04%
Water.....	5.56	1.95%
Herbaceous.....	5.93	2.08%
Forest.....	31.98	11.22%
Agri - Crops.....	232.62	81.61%
Agri - pasture.....	4.67	1.64%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	10.49	3.68%
Bare.....	3.31	1.16%
Water.....	2.51	.88%
Herbaceous.....	6.34	2.22%
Forest.....	32.73	11.48%
Agri - Crops.....	224.54	78.76%
Agri - pasture.....	5.17	1.81%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	10.62	3.71%
Bare.....	.33	.12%
Water.....	4.39	1.53%
Herbaceous.....	2.11	.74%
Forest.....	35.21	12.29%
Agri - Crops.....	228.58	79.81%

Agri - pasture.....:

3.83

1.34%

**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	.60	-.--	1.00	.20	0.00	.60	0.00
Water	114.00	41.55	-.--	169.60	314.51	1847.14	13.65
FROM Herb	93.33	.40	22.88	-.--	631.84	1199.65	13.85
Forest	611.57	48.77	143.71	213.36	-.--	1666.10	45.76
Agri-Crops	3371.94	102.96	230.21	968.03	1285.95	-.--	61.82
Agri-Pasture	4.82	.20	0.00	1.40	1.40	80.08	-.--





**Town of Salem-Big Creek  
(080203040104)**

**Area Summary**

Area - Square Miles.....	47.56
Area - Acres.....	30796.32

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	65.00	213.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	61.00	200.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.41	.86%
Bare.....	.00	-.--%
Water.....	.92	1.93%
Herbaceous.....	.76	1.59%
Forest.....	4.53	9.49%
Agri - Crops.....	40.11	84.04%
Agri - pasture.....	1.00	2.10%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.82	1.72%
Bare.....	.44	.92%
Water.....	.14	.29%
Herbaceous.....	.80	1.68%
Forest.....	4.50	9.43%
Agri - Crops.....	39.93	83.66%
Agri - pasture.....	1.10	2.30%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.79	1.65%
Bare.....	.02	.04%
Water.....	.21	.44%
Herbaceous.....	.21	.44%
Forest.....	4.85	10.16%
Agri - Crops.....	41.04	85.97%
Agri - pasture.....	.62	1.30%

**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	4.62	4.62	-.--	21.28	15.45	508.00	2.01
FROM Herb	3.01	0.00	1.20	-.--	96.54	171.61	5.42
Forest	21.07	6.42	18.47	41.55	-.--	273.37	12.85
Agri-Crops	200.31	12.44	26.69	106.98	124.84	-.--	20.07
Agri-Pasture	.20	0.00	0.00	.60	0.00	15.25	-.--

**Town of Moro-Hog Tusk Creek  
(080203040105)**

**Area Summary**

Area - Square Miles.....	36.73
Area - Acres.....	23780.82

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	64.00	210.00
Elevation Minimum.....	51.00	167.00
Elevation Average.....	59.00	194.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.55	1.52%
Bare.....	.01	.03%
Water.....	.18	.50%
Herbaceous.....	1.13	3.13%
Forest.....	3.50	9.68%
Agri - Crops.....	29.86	82.58%
Agri - pasture.....	.93	2.57%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.36	3.76%
Bare.....	.72	1.99%
Water.....	.07	.19%
Herbaceous.....	1.25	3.46%
Forest.....	3.52	9.73%
Agri - Crops.....	28.26	78.13%
Agri - pasture.....	.99	2.74%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.39	3.84%
Bare.....	.09	.25%
Water.....	.10	.28%
Herbaceous.....	.40	1.11%
Forest.....	3.83	10.59%
Agri - Crops.....	29.55	81.72%
Agri - pasture.....	.80	2.21%

**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	3.01	9.63	-.--	13.45	16.86	53.99	0.00
FROM Herb	9.83	0.00	1.00	-.--	129.26	241.86	1.40
Forest	64.63	9.03	9.03	48.37	-.--	273.37	1.81
Agri-Crops	461.03	9.83	10.04	130.66	201.11	-.--	3.21
Agri-Pasture	.20	0.00	0.00	.60	0.00	15.05	-.--



**Lake Greenlee-Big Piney Creek  
(080203040106)**

**Area Summary**

Area - Square Miles.....	34.88
Area - Acres.....	22581.89

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	70.00	230.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	58.00	190.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.40	4.00%
Bare.....	.06	.17%
Water.....	1.02	2.91%
Herbaceous.....	.68	1.94%
Forest.....	3.94	11.25%
Agri - Crops.....	27.32	78.03%
Agri - pasture.....	.59	1.69%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.81	8.03%
Bare.....	.57	1.63%
Water.....	.54	1.54%
Herbaceous.....	.73	2.09%
Forest.....	3.88	11.08%
Agri - Crops.....	25.87	73.89%
Agri - pasture.....	.61	1.74%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.88	8.23%
Bare.....	.06	.17%
Water.....	.73	2.09%
Herbaceous.....	.31	.89%
Forest.....	4.52	12.91%
Agri - Crops.....	26.03	74.35%
Agri - pasture.....	.48	1.37%

**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	.60	-.--	0.00	0.00	0.00	.60	0.00
Water	41.75	7.83	-.--	8.23	16.06	267.55	1.00
FROM Herb	41.75	.20	1.61	-.--	56.40	101.56	1.81
Forest	247.88	8.03	13.65	21.28	-.--	218.17	8.23
Agri-Crops	709.71	13.25	22.48	101.76	200.11	-.--	8.43
Agri-Pasture	2.81	.20	0.00	0.00	1.20	39.94	-.--





**Maple Slough-Flat Fork Creek  
(080203040102)**

**Area Summary**

Area - Square Miles.....	31.86
Area - Acres.....	20627.68

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	67.00	220.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	60.00	197.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.67	2.08%
Bare.....	.02	.06%
Water.....	.82	2.55%
Herbaceous.....	.70	2.17%
Forest.....	5.00	15.52%
Agri - Crops.....	24.48	75.98%
Agri - pasture.....	.53	1.64%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.07	6.42%
Bare.....	.45	1.40%
Water.....	.57	1.77%
Herbaceous.....	.75	2.33%
Forest.....	5.01	15.54%
Agri - Crops.....	22.74	70.56%
Agri - pasture.....	.64	1.99%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.08	6.46%
Bare.....	.03	.09%
Water.....	.95	2.95%
Herbaceous.....	.28	.87%
Forest.....	5.54	17.19%
Agri - Crops.....	22.79	70.73%
Agri - pasture.....	.55	1.71%

**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	37.73	3.41	-.--	20.27	34.32	214.56	6.42
FROM Herb	23.48	0.00	6.22	-.--	65.03	96.34	1.20
Forest	161.57	12.24	43.75	33.92	-.--	280.39	10.64
Agri-Crops	727.98	17.26	74.66	203.52	236.44	-.--	14.05
Agri-Pasture	.80	0.00	0.00	.20	.20	9.83	-.--