

# Watershed Report

## Fourche River

### 1101000901

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)

### *Fourche River (1101000901)*

#### **Area Summary**

Area - Square Miles.....	199.31
Area - Acres.....	129050.90

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	224.00	735.00
Elevation Minimum.....	76.00	249.00
Elevation Average.....	116.00	380.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.23	1.12%
Bare.....	.00	-.--%
Water.....	1.27	.64%
Herbaceous.....	.16	.08%
Forest.....	107.23	53.72%
Agri - Crops.....	23.43	11.74%
Agri - pasture.....	65.30	32.71%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.24	2.63%
Bare.....	.27	.14%
Water.....	1.61	.81%
Herbaceous.....	1.29	.65%
Forest.....	93.21	46.70%
Agri - Crops.....	28.64	14.35%
Agri - pasture.....	69.35	34.74%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.43	2.58%
Bare.....	.21	.10%
Water.....	1.40	.66%
Herbaceous.....	8.68	4.12%
Forest.....	97.04	46.05%
Agri - Crops.....	28.63	13.59%

Agri - pasture.....: 58.23 27.63%

**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	15.05	.80	-.--	.80	64.03	159.56	74.06
FROM Herb	2.81	0.00	0.00	-.--	9.23	69.25	10.84
Forest	1190.61	44.36	71.85	194.09	-.--	2546.82	8649.22
Agri-Crops	188.47	5.02	33.52	0.00	69.04	-.--	12.24
Agri-Pasture	721.55	14.05	11.04	276.18	767.52	1369.85	-.--



**Tennessee Creek-Fourche River  
(110100090105)**

**Area Summary**

Area - Square Miles.....	40.34
Area - Acres.....	26118.56

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	203.00	666.00
Elevation Minimum.....	83.00	272.00
Elevation Average.....	124.00	407.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.34	.85%
Bare.....	.00	-.--%
Water.....	.23	.58%
Herbaceous.....	.00	-.--%
Forest.....	21.69	54.52%
Agri - Crops.....	.12	.30%
Agri - pasture.....	17.40	43.74%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.64	1.61%
Bare.....	.00	-.--%
Water.....	.27	.68%
Herbaceous.....	.31	.78%
Forest.....	19.93	50.11%
Agri - Crops.....	.97	2.44%
Agri - pasture.....	17.65	44.38%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.66	1.66%
Bare.....	.02	.05%
Water.....	.30	.75%
Herbaceous.....	1.61	4.05%
Forest.....	20.80	52.27%
Agri - Crops.....	.89	2.24%
Agri - pasture.....	15.51	38.98%

**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	.80	0.00	-.--	.80	8.03	0.00	19.27
FROM Herb	0.0	0.00	0.00	-.--	.60	0.00	1.20
Forest	88.11	1.40	11.44	42.75	-.--	150.73	1707.65
Agri-Crops	0.0	0.00	0.00	0.00	.80	-.--	0.00
Agri-Pasture	96.34	1.81	2.81	62.62	255.50	391.99	-.--

**Knotts Creek-Fourche River  
(110100090107)**

**Area Summary**

Area - Square Miles.....:	43.59
Area - Acres.....:	28222.61

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	171.00	561.00
Elevation Minimum.....:	76.00	249.00
Elevation Average.....:	107.00	351.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.11	2.50%
Bare.....:	.00	-.--%
Water.....:	.45	1.01%
Herbaceous.....:	.02	.04%
Forest.....:	24.11	54.24%
Agri - Crops.....:	2.65	5.96%
Agri - pasture.....:	16.11	36.24%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.52	5.67%
Bare.....:	.04	.09%
Water.....:	.50	1.12%
Herbaceous.....:	.33	.74%
Forest.....:	19.81	44.57%
Agri - Crops.....:	4.87	10.96%
Agri - pasture.....:	16.38	36.85%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.57	5.78%
Bare.....:	.06	.14%
Water.....:	.45	1.01%
Herbaceous.....:	2.30	5.18%
Forest.....:	20.72	46.64%
Agri - Crops.....:	4.91	11.05%
Agri - pasture.....:	13.42	30.20%

**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	0.00	-.--	0.00	23.88	62.42	25.69
FROM Herb	1.40	0.00	0.00	-.--	1.61	5.62	1.20
Forest	588.88	8.63	25.69	60.61	-.--	944.74	2164.66
Agri-Crops	80.08	1.00	.20	0.00	10.64	-.--	3.01
Agri-Pasture	352.25	5.02	4.01	80.48	189.87	600.12	-.--

**Mud Creek  
(110100090103)**

**Area Summary**

Area - Square Miles.....	30.79
Area - Acres.....	19938.56

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	224.00	735.00
Elevation Minimum.....	87.00	285.00
Elevation Average.....	145.00	476.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.07	.23%
Bare.....	.00	-.--%
Water.....	.24	.80%
Herbaceous.....	.01	.03%
Forest.....	24.93	83.29%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.68	15.64%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.10	.33%
Bare.....	.00	-.--%
Water.....	.24	.80%
Herbaceous.....	.25	.84%
Forest.....	24.15	80.66%
Agri - Crops.....	.01	.03%
Agri - pasture.....	5.19	17.33%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.12	.40%
Bare.....	.01	.03%
Water.....	.29	.97%
Herbaceous.....	.55	1.84%
Forest.....	24.75	82.64%
Agri - Crops.....	.10	.33%
Agri - pasture.....	4.13	13.79%

**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	0.00	-.--	0.00	8.83	0.00	2.61
FROM Herb	0.0	0.00	0.00	-.--	4.01	0.00	4.21
Forest	4.82	.20	10.04	27.10	-.--	0.00	619.99
Agri-Crops	0.0	0.00	.60	0.00	0.00	-.--	.40
Agri-Pasture	4.42	.80	1.00	26.29	160.17	0.00	-.--

**Dry Creek-Fourche River  
(110100090104)**

**Area Summary**

Area - Square Miles.....:	25.52
Area - Acres.....:	16523.99

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	177.00	581.00
Elevation Minimum.....:	87.00	285.00
Elevation Average.....:	125.00	410.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.18	.68%
Bare.....:	.00	-.--%
Water.....:	.04	.15%
Herbaceous.....:	.01	.04%
Forest.....:	15.02	56.70%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	11.24	42.43%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.67	2.53%
Bare.....:	.00	-.--%
Water.....:	.10	.38%
Herbaceous.....:	.18	.68%
Forest.....:	12.61	47.62%
Agri - Crops.....:	.01	.04%
Agri - pasture.....:	12.91	48.75%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.67	2.53%
Bare.....:	.01	.04%
Water.....:	.08	.30%
Herbaceous.....:	1.55	5.85%
Forest.....:	13.17	49.74%
Agri - Crops.....:	.11	.42%
Agri - pasture.....:	10.89	41.13%

**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	.80	0.00	-.--	0.00	5.62	0.00	5.42
FROM Herb	1.00	0.00	0.00	-.--	1.20	0.00	.80
Forest	242.86	2.41	3.21	27.10	-.--	0.00	1838.31
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	105.37	0.00	.20	54.79	69.04	0.00	-.--

**Main Ditch  
(110100090106)**

**Area Summary**

Area - Square Miles.....	58.91
Area - Acres.....	38143.35

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	164.00	538.00
Elevation Minimum.....	78.00	256.00
Elevation Average.....	97.00	318.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.53	.90%
Bare.....	.00	-.--%
Water.....	.31	.53%
Herbaceous.....	.12	.20%
Forest.....	21.40	36.39%
Agri - Crops.....	20.66	35.13%
Agri - pasture.....	15.79	26.85%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.31	2.23%
Bare.....	.23	.39%
Water.....	.50	.85%
Herbaceous.....	.22	.37%
Forest.....	16.64	28.29%
Agri - Crops.....	22.78	38.73%
Agri - pasture.....	17.13	29.13%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.41	2.40%
Bare.....	.11	.19%
Water.....	.28	.48%
Herbaceous.....	2.66	4.52%
Forest.....	17.52	29.79%
Agri - Crops.....	22.62	38.46%
Agri - pasture.....	14.21	24.16%

**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	3.41	.80	-.--	0.00	17.66	97.14	21.07
FROM Herb	.40	0.00	0.00	-.--	1.81	63.63	3.41
Forest	265.94	31.71	21.48	36.53	-.--	1451.34	2310.38
Agri-Crops	108.38	4.01	32.72	0.00	57.60	-.--	8.83
Agri-Pasture	163.18	6.42	3.01	51.98	92.93	377.74	-.--