

# Watershed Report

## Brown Creek-Saline River

### 0804020404

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)

### *Brown Creek-Saline River (0804020404)*

#### **Area Summary**

Area - Square Miles.....	282.25
Area - Acres.....	182760.40

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	127.00	417.00
Elevation Minimum.....	26.00	85.00
Elevation Average.....	51.00	167.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.35	2.62%
Bare.....	.02	.01%
Water.....	2.10	.75%
Herbaceous.....	15.24	5.43%
Forest.....	236.15	84.21%
Agri - Crops.....	.03	.01%
Agri - pasture.....	19.55	6.97%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.02	3.93%
Bare.....	.09	.03%
Water.....	2.15	.77%
Herbaceous.....	31.25	11.14%
Forest.....	212.10	75.62%
Agri - Crops.....	.15	.05%
Agri - pasture.....	23.71	8.45%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.20	3.81%
Bare.....	.06	.02%
Water.....	2.32	.79%
Herbaceous.....	50.39	17.14%
Forest.....	206.28	70.17%
Agri - Crops.....	.00	-.--%

Agri - pasture.....: 10.19 3.47%

**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	-.--	0.00	0.00	0.00	0.00	0.00
Water	57.80	1.40	-.--	99.75	329.37	0.00	71.05
FROM Herb	773.54	10.44	29.10	-.--	2114.69	14.85	1751.00
Forest	1346.37	18.87	234.23	11682.16	-.--	62.62	3927.70
Agri-Crops	2.81	0.00	0.00	9.63	2.41	-.--	3.21
Agri-Pasture	759.09	5.82	21.07	2749.94	965.62	8.23	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Langford Creek-Flat Branch (080402040404)

### Area Summary

Area - Square Miles.....	50.66
Area - Acres.....	32799.64

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	119.00	390.00
Elevation Minimum.....	29.00	95.00
Elevation Average.....	55.00	180.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.15	4.40%
Bare.....	.00	-.--%
Water.....	.42	.86%
Herbaceous.....	2.73	5.59%
Forest.....	38.17	78.20%
Agri - Crops.....	.01	.02%
Agri - pasture.....	5.33	10.92%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.28	6.72%
Bare.....	.02	.04%
Water.....	.42	.86%
Herbaceous.....	5.18	10.61%
Forest.....	34.94	71.55%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.99	10.22%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.38	6.92%
Bare.....	.01	.02%
Water.....	.50	1.02%
Herbaceous.....	7.52	15.40%
Forest.....	35.30	72.29%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.12	4.34%

### 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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	18.67	.40	-.--	29.10	62.02	0.00	18.67
FROM Herb	276.58	2.61	10.44	-.--	348.43	0.00	370.71
Forest	459.63	3.61	37.93	1497.50	-.--	0.00	397.01
Agri-Crops	2.81	0.00	0.00	1.20	0.00	-.--	.60
Agri-Pasture	184.85	.60	11.04	714.33	243.26	0.00	-.--

**Big Slough-Saline River  
(080402040405)**

**Area Summary**

Area - Square Miles.....	39.75
Area - Acres.....	25737.92

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	86.00	282.00
Elevation Minimum.....	26.00	85.00
Elevation Average.....	41.00	134.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.29	3.26%
Bare.....	.00	-.--%
Water.....	.71	1.80%
Herbaceous.....	1.62	4.10%
Forest.....	34.16	86.42%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.75	4.43%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.75	4.43%
Bare.....	.01	.03%
Water.....	.72	1.82%
Herbaceous.....	3.40	8.60%
Forest.....	31.32	79.25%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.32	5.87%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.80	4.55%
Bare.....	.00	-.--%
Water.....	.67	1.70%
Herbaceous.....	5.02	12.70%
Forest.....	30.96	78.34%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.07	2.71%

**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>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	10.44	0.00	-.--	10.84	126.25	0.00	15.45
FROM Herb	103.17	.20	2.81	-.--	191.88	0.00	153.54
Forest	184.45	1.81	101.96	1110.13	-.--	0.00	424.50
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	102.56	.80	5.22	178.23	62.62	0.00	-.--

**Old River-Tenmile Creek  
(080402040401)**

**Area Summary**

Area - Square Miles.....	45.45
Area - Acres.....	29428.52

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	122.00	400.00
Elevation Minimum.....	30.00	98.00
Elevation Average.....	58.00	190.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.77	6.11%
Bare.....	.01	.02%
Water.....	.42	.93%
Herbaceous.....	2.57	5.67%
Forest.....	35.86	79.07%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.72	8.20%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.00	8.82%
Bare.....	.02	.04%
Water.....	.41	.90%
Herbaceous.....	4.63	10.21%
Forest.....	33.12	73.03%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.17	6.99%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.16	9.18%
Bare.....	.01	.02%
Water.....	.43	.95%
Herbaceous.....	7.24	15.97%
Forest.....	32.20	71.02%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.30	2.87%

**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	.20	-.--	0.00	0.00	0.00	0.00	0.00
Water	24.09	.80	-.--	11.44	34.72	0.00	10.64
FROM Herb	309.70	2.01	4.01	-.--	398.01	0.00	262.53
Forest	499.37	3.21	34.32	1315.46	-.--	0.00	256.51
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	270.16	1.20	1.20	621.00	150.93	0.00	-.--

**Brown Creek  
(080402040403)**

**Area Summary**

Area - Square Miles.....	45.40
Area - Acres.....	29399.48

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	93.00	305.00
Elevation Minimum.....	26.00	85.00
Elevation Average.....	53.00	174.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.52%
Bare.....	.00	-.--%
Water.....	.09	.20%
Herbaceous.....	2.21	4.82%
Forest.....	41.49	90.51%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.81	3.95%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.42	.92%
Bare.....	.01	.02%
Water.....	.10	.22%
Herbaceous.....	4.89	10.67%
Forest.....	35.97	78.47%
Agri - Crops.....	.13	.28%
Agri - pasture.....	4.32	9.42%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.37	.81%
Bare.....	.00	-.--%
Water.....	.14	.31%
Herbaceous.....	10.34	22.56%
Forest.....	33.29	72.62%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.70	3.71%

**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	.20	0.00	-.--	12.64	25.29	0.00	3.21
FROM Herb	7.83	1.40	.60	-.--	390.18	10.64	329.97
Forest	53.79	2.21	12.04	2446.46	-.--	57.60	1368.65
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	32.92	.40	.80	227.20	145.72	7.43	-.--

**Clear Creek-Saline River  
(080402040402)**

**Area Summary**

Area - Square Miles.....	61.16
Area - Acres.....	39603.83

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	127.00	417.00
Elevation Minimum.....	29.00	95.00
Elevation Average.....	57.00	187.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.72	1.18%
Bare.....	.01	.02%
Water.....	.16	.26%
Herbaceous.....	4.34	7.11%
Forest.....	51.57	84.51%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.22	6.92%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.33	2.18%
Bare.....	.02	.03%
Water.....	.16	.26%
Herbaceous.....	7.79	12.76%
Forest.....	46.82	76.72%
Agri - Crops.....	.02	.03%
Agri - pasture.....	4.89	8.01%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.29	2.11%
Bare.....	.03	.05%
Water.....	.19	.31%
Herbaceous.....	11.28	18.49%
Forest.....	46.06	75.50%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.16	3.54%

**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	4.42	.20	-.--	20.67	27.30	0.00	13.45
FROM Herb	75.67	4.01	5.02	-.--	501.37	4.21	456.82
Forest	148.12	2.41	8.83	2678.08	-.--	5.02	708.71
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	168.40	2.61	2.81	639.06	229.21	.80	-.--

**Germany Creek-Saline River  
(080402040406)**

**Area Summary**

Area - Square Miles.....:	39.83
Area - Acres.....:	25791.01

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	87.00	285.00
Elevation Minimum.....:	26.00	85.00
Elevation Average.....:	38.00	125.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.18	.45%
Bare.....:	.00	-.--%
Water.....:	.30	.75%
Herbaceous.....:	1.77	4.44%
Forest.....:	34.90	87.49%
Agri - Crops.....:	.02	.05%
Agri - pasture.....:	2.72	6.82%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.24	.60%
Bare.....:	.01	.03%
Water.....:	.34	.85%
Herbaceous.....:	5.36	13.43%
Forest.....:	29.93	75.01%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.02	10.08%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.20	.50%
Bare.....:	.01	.03%
Water.....:	.39	.98%
Herbaceous.....:	8.99	22.53%
Forest.....:	28.47	71.35%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	1.84	4.61%

**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	-.--	15.05	53.79	0.00	9.63
FROM Herb	.60	.20	6.22	-.--	284.81	0.00	177.43
Forest	1.00	5.62	39.14	2634.53	-.--	0.00	772.33
Agri-Crops	0.0	0.00	0.00	8.43	2.41	-.--	2.61
Agri-Pasture	.20	.20	0.00	370.11	133.87	0.00	-.--