

Watershed Report

Outlet Spring River

1101001005

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)

Outlet Spring River (1101001005)

Area Summary

Area - Square Miles.....	273.43
Area - Acres.....	177034.47

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	287.00	941.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	157.00	515.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.68	.98%
Bare.....	.11	.04%
Water.....	2.26	.83%
Herbaceous.....	1.74	.64%
Forest.....	216.89	79.30%
Agri - Crops.....	1.51	.55%
Agri - pasture.....	48.30	17.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.02	2.93%
Bare.....	.36	.13%
Water.....	1.78	.65%
Herbaceous.....	3.35	1.23%
Forest.....	204.07	74.63%
Agri - Crops.....	4.08	1.49%
Agri - pasture.....	51.80	18.94%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.47	3.04%
Bare.....	.29	.10%
Water.....	2.31	.83%
Herbaceous.....	5.58	2.01%
Forest.....	205.55	73.89%
Agri - Crops.....	4.20	1.51%

Agri - pasture.....: 47.08 16.92%

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	5.82	-.--	.60	0.00	.20	1.81	1.40
Water	23.88	3.21	-.--	1.20	409.05	40.74	103.77
FROM Herb	59.01	.20	1.20	-.--	87.51	1.20	675.39
Forest	2525.54	34.32	217.17	388.17	-.--	349.64	5255.41
Agri-Crops	11.84	8.03	7.43	2.41	25.69	-.--	20.67
Agri-Pasture	1084.44	72.46	24.49	487.33	1301.61	1369.05	-.--

Sub-Watershed Summary (12 Digit HUC)

Browns Creek-Spring River (110100100505)

Area Summary

Area - Square Miles.....	45.25
Area - Acres.....	29298.50

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	236.00	774.00
Elevation Minimum.....	80.00	262.00
Elevation Average.....	144.00	472.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.29	.63%
Bare.....	.00	-.--%
Water.....	.44	.95%
Herbaceous.....	.07	.15%
Forest.....	38.60	83.64%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	6.75	14.63%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.29	2.80%
Bare.....	.00	-.--%
Water.....	.25	.54%
Herbaceous.....	.43	.93%
Forest.....	36.52	79.13%
Agri - Crops.....	.01	.02%
Agri - pasture.....	7.65	16.58%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.34	2.90%
Bare.....	.02	.04%
Water.....	.37	.80%
Herbaceous.....	.78	1.69%
Forest.....	36.57	79.24%
Agri - Crops.....	.21	.46%
Agri - pasture.....	6.86	14.86%

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	3.21	0.00	-.--	0.00	109.39	0.00	35.93
FROM Herb	12.44	0.00	0.00	-.--	17.06	0.00	12.04
Forest	489.73	0.00	16.46	39.94	-.--	0.00	895.37
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	199.71	1.00	1.20	62.82	192.08	0.00	-.--

**Forty Island Creek
(110100100503)**

Area Summary

Area - Square Miles.....:	39.47
Area - Acres.....:	25556.93

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	275.00	902.00
Elevation Minimum.....:	89.00	292.00
Elevation Average.....:	173.00	567.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.83	2.08%
Bare.....:	.01	.03%
Water.....:	.44	1.10%
Herbaceous.....:	.06	.15%
Forest.....:	33.98	85.25%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	4.53	11.36%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.76	6.93%
Bare.....:	.03	.08%
Water.....:	.34	.85%
Herbaceous.....:	.51	1.28%
Forest.....:	30.93	77.62%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	5.27	13.22%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.81	7.05%
Bare.....:	.04	.10%
Water.....:	.50	1.26%
Herbaceous.....:	.87	2.18%
Forest.....:	30.62	76.86%
Agri - Crops.....:	.16	.40%
Agri - pasture.....:	4.84	12.15%

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	.80	-.--	0.00	0.00	0.00	0.00	.40
Water	12.04	0.00	-.--	0.00	45.36	0.00	14.45
FROM Herb	15.25	0.00	0.00	-.--	11.04	0.00	8.83
Forest	1061.16	15.05	39.34	87.51	-.--	0.00	698.67
Agri-Crops	4.82	0.00	0.00	0.00	.60	-.--	1.00
Agri-Pasture	290.43	.60	3.21	52.79	144.31	0.00	-.--

**Rock Creek-Spring River
(110100100504)**

Area Summary

Area - Square Miles.....	41.02
Area - Acres.....	26557.45

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	246.00	807.00
Elevation Minimum.....	80.00	262.00
Elevation Average.....	157.00	515.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.59%
Bare.....	.00	-.--%
Water.....	.34	.84%
Herbaceous.....	1.44	3.54%
Forest.....	33.22	81.74%
Agri - Crops.....	.01	.02%
Agri - pasture.....	5.39	13.26%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.95	2.34%
Bare.....	.00	-.--%
Water.....	.24	.59%
Herbaceous.....	.83	2.04%
Forest.....	32.08	78.92%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	6.55	16.11%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.95	2.34%
Bare.....	.01	.02%
Water.....	.34	.84%
Herbaceous.....	.75	1.84%
Forest.....	32.45	79.79%
Agri - Crops.....	.04	.10%
Agri - pasture.....	6.13	15.07%

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	.40	-.--	0.00	0.00	0.00	0.00	0.00
Water	1.81	0.00	-.--	1.00	62.42	0.00	15.45
FROM Herb	15.05	0.00	1.00	-.--	20.27	0.00	617.99
Forest	248.88	.20	16.26	97.14	-.--	0.00	468.86
Agri-Crops	2.61	0.00	0.00	2.41	1.81	-.--	2.01
Agri-Pasture	205.13	.80	5.82	121.63	134.28	0.00	-.--

**Outlet Martins Creek
(110100100502)**

Area Summary

Area - Square Miles.....:	34.75
Area - Acres.....:	22499.00

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	253.00	830.00
Elevation Minimum.....:	90.00	295.00
Elevation Average.....:	171.00	561.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.58	1.67%
Bare.....:	.00	-.--%
Water.....:	.15	.43%
Herbaceous.....:	.05	.14%
Forest.....:	30.28	87.09%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	3.71	10.67%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.14	3.28%
Bare.....:	.00	-.--%
Water.....:	.19	.55%
Herbaceous.....:	.38	1.09%
Forest.....:	28.55	82.11%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.51	12.97%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.09	3.14%
Bare.....:	.00	-.--%
Water.....:	.17	.49%
Herbaceous.....:	.66	1.90%
Forest.....:	28.70	82.57%
Agri - Crops.....:	.07	.20%
Agri - pasture.....:	4.07	11.71%

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	-.--	.40	0.00	0.00	0.00	0.00
Water	4.42	0.00	-.--	0.00	8.23	0.00	3.81
FROM Herb	7.23	.20	0.00	-.--	11.84	0.00	8.83
Forest	305.68	.60	35.12	9.63	-.--	0.00	516.63
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	43.15	0.00	.40	19.27	128.86	0.00	-.--

**Wayland Creek-Spring River
(110100100506)**

Area Summary

Area - Square Miles.....:	38.86
Area - Acres.....:	25159.28

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	212.00	695.00
Elevation Minimum.....:	77.00	253.00
Elevation Average.....:	130.00	426.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.41	1.11%
Bare.....:	.01	.03%
Water.....:	.28	.76%
Herbaceous.....:	.06	.16%
Forest.....:	27.21	73.70%
Agri - Crops.....:	.32	.87%
Agri - pasture.....:	8.63	23.37%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.09	2.95%
Bare.....:	.01	.03%
Water.....:	.19	.51%
Herbaceous.....:	.32	.87%
Forest.....:	25.91	70.18%
Agri - Crops.....:	1.11	3.01%
Agri - pasture.....:	8.29	22.45%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.14	3.09%
Bare.....:	.01	.03%
Water.....:	.25	.68%
Herbaceous.....:	.56	1.52%
Forest.....:	26.71	72.37%
Agri - Crops.....:	.92	2.49%
Agri - pasture.....:	7.32	19.83%

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	1.40	-.--	0.00	0.00	.20	0.00	.40
Water	1.00	0.00	-.--	0.00	75.07	8.23	13.25
FROM Herb	8.43	0.00	0.00	-.--	10.64	0.00	10.24
Forest	280.19	.20	18.06	22.48	-.--	82.29	711.92
Agri-Crops	1.00	.40	0.00	0.00	3.21	-.--	.20
Agri-Pasture	185.26	1.40	1.61	53.39	159.56	411.46	-.--

**Headwaters Martins Creek
(110100100501)**

Area Summary

Area - Square Miles.....	39.10
Area - Acres.....	25315.97

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	287.00	941.00
Elevation Minimum.....	129.00	423.00
Elevation Average.....	218.00	715.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.14	.36%
Bare.....	.00	-.--%
Water.....	.07	.18%
Herbaceous.....	.03	.08%
Forest.....	30.35	77.84%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	8.40	21.54%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.16	.41%
Bare.....	.00	-.--%
Water.....	.16	.41%
Herbaceous.....	.52	1.33%
Forest.....	28.15	72.24%
Agri - Crops.....	.01	.03%
Agri - pasture.....	9.97	25.58%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.54%
Bare.....	.01	.03%
Water.....	.13	.33%
Herbaceous.....	1.01	2.59%
Forest.....	27.88	71.52%
Agri - Crops.....	.18	.46%
Agri - pasture.....	9.56	24.53%

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	-.--	0.00	8.03	0.00	8.03
FROM Herb	0.0	0.00	0.00	-.--	8.63	0.00	8.03
Forest	1.20	0.00	61.22	105.57	-.--	0.00	1014.99
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	4.62	.20	4.01	128.05	260.32	0.00	-.--

**Brushy Creek-Spring River
(110100100507)**

Area Summary

Area - Square Miles.....	34.98
Area - Acres.....	22647.34

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	190.00	623.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	108.00	354.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.19	.53%
Bare.....	.09	.25%
Water.....	.54	1.49%
Herbaceous.....	.03	.08%
Forest.....	23.25	64.30%
Agri - Crops.....	1.17	3.24%
Agri - pasture.....	10.89	30.12%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.63	1.74%
Bare.....	.32	.89%
Water.....	.41	1.13%
Herbaceous.....	.36	1.00%
Forest.....	21.93	60.66%
Agri - Crops.....	2.94	8.13%
Agri - pasture.....	9.56	26.45%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.93	2.57%
Bare.....	.20	.55%
Water.....	.55	1.52%
Herbaceous.....	.95	2.63%
Forest.....	22.62	62.54%
Agri - Crops.....	2.62	7.24%
Agri - pasture.....	8.30	22.95%

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	3.21	-.--	.20	0.00	0.00	1.81	.60
Water	1.40	3.21	-.--	.20	100.56	32.52	12.85
FROM Herb	.60	0.00	.20	-.--	8.03	1.20	9.43
Forest	138.69	18.26	30.71	25.89	-.--	267.35	948.96
Agri-Crops	3.41	7.63	7.43	0.00	20.07	-.--	17.46
Agri-Pasture	156.15	68.44	8.23	49.37	282.20	957.59	-.--