

Watershed Report

South Fork Spring River

1101001003

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)

South Fork Spring River (1101001003)

Area Summary

Area - Square Miles.....	225.56
Area - Acres.....	146054.41

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	338.00	1109.00
Elevation Minimum.....	102.00	335.00
Elevation Average.....	219.00	718.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.49	2.44%
Bare.....	.02	.01%
Water.....	1.67	.74%
Herbaceous.....	.28	.12%
Forest.....	143.98	64.02%
Agri - Crops.....	.01	.00%
Agri - pasture.....	73.45	32.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.29	5.02%
Bare.....	.05	.02%
Water.....	1.60	.71%
Herbaceous.....	2.16	.96%
Forest.....	128.36	57.07%
Agri - Crops.....	.07	.03%
Agri - pasture.....	81.39	36.19%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.78	5.17%
Bare.....	.17	.07%
Water.....	2.14	.94%
Herbaceous.....	6.25	2.74%
Forest.....	124.90	54.85%
Agri - Crops.....	1.09	.48%

Agri - pasture.....: 78.57 34.50%

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	-.--	0.00	.20	0.00	0.00	1.00
Water	40.74	0.00	-.--	1.40	168.40	0.00	64.23
FROM Herb	41.35	0.00	.40	-.--	50.58	0.00	73.46
Forest	3670.80	5.62	135.68	665.96	-.--	0.00	7374.71
Agri-Crops	6.02	1.00	1.61	0.00	.40	-.--	2.21
Agri-Pasture	885.13	5.62	21.48	639.06	1412.00	0.00	-.--

Sub-Watershed Summary (12 Digit HUC)

Pine Hill Creek-South Fork Spring River (110100100304)

Area Summary

Area - Square Miles.....	37.05
Area - Acres.....	23991.13

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	338.00	1109.00
Elevation Minimum.....	193.00	633.00
Elevation Average.....	252.00	827.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.26	.72%
Bare.....	.00	-.--%
Water.....	.09	.25%
Herbaceous.....	.04	.11%
Forest.....	23.66	65.34%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	12.16	33.58%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.54	1.49%
Bare.....	.01	.03%
Water.....	.10	.28%
Herbaceous.....	.40	1.10%
Forest.....	21.28	58.75%
Agri - Crops.....	.02	.06%
Agri - pasture.....	13.87	38.29%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.69	1.91%
Bare.....	.04	.11%
Water.....	.18	.50%
Herbaceous.....	1.06	2.93%
Forest.....	20.52	56.65%
Agri - Crops.....	.23	.64%
Agri - pasture.....	13.50	37.27%

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	.20	0.00	-.--	.20	7.63	0.00	10.44
FROM Herb	3.21	0.00	0.00	-.--	7.63	0.00	13.65
Forest	82.29	2.21	4.42	157.76	-.--	0.00	1422.84
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	96.54	1.20	4.62	157.76	278.59	0.00	-.--

**Bay Creek-South Fork Spring River
(110100100303)**

Area Summary

Area - Square Miles.....	32.28
Area - Acres.....	20901.15

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	327.00	1073.00
Elevation Minimum.....	202.00	663.00
Elevation Average.....	257.00	843.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.08	.25%
Bare.....	.00	-.--%
Water.....	.03	.09%
Herbaceous.....	.03	.09%
Forest.....	21.16	65.45%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	11.03	34.12%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.18	.56%
Bare.....	.00	-.--%
Water.....	.03	.09%
Herbaceous.....	.26	.80%
Forest.....	19.33	59.77%
Agri - Crops.....	.01	.03%
Agri - pasture.....	12.53	38.74%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.26	.80%
Bare.....	.01	.03%
Water.....	.05	.15%
Herbaceous.....	.92	2.84%
Forest.....	19.06	58.94%
Agri - Crops.....	.22	.68%
Agri - pasture.....	11.82	36.55%

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	9.23	0.00	2.61
FROM Herb	.80	0.00	0.00	-.--	5.82	0.00	11.44
Forest	21.28	0.00	0.00	36.93	-.--	0.00	1144.25
Agri-Crops	0.0	.20	0.00	0.00	0.00	-.--	.20
Agri-Pasture	28.70	0.00	0.00	20.87	155.15	0.00	-.--

**Wild Horse Creek-South Fork Spring River
(110100100307)**

Area Summary

Area - Square Miles.....:	40.92
Area - Acres.....:	26496.34

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	280.00	918.00
Elevation Minimum.....:	134.00	440.00
Elevation Average.....:	196.00	643.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.31	.77%
Bare.....:	.00	-.--%
Water.....:	.07	.17%
Herbaceous.....:	.04	.10%
Forest.....:	25.18	62.65%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	14.59	36.30%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.80	1.99%
Bare.....:	.01	.02%
Water.....:	.08	.20%
Herbaceous.....:	.39	.97%
Forest.....:	22.47	55.90%
Agri - Crops.....:	.01	.02%
Agri - pasture.....:	16.44	40.90%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.94	2.34%
Bare.....:	.03	.07%
Water.....:	.13	.32%
Herbaceous.....:	1.20	2.99%
Forest.....:	21.59	53.72%
Agri - Crops.....:	.26	.65%
Agri - pasture.....:	16.04	39.91%

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	.20	0.00	0.00	.20
Water	.40	0.00	-.--	0.00	19.87	0.00	11.84
FROM Herb	2.21	0.00	0.00	-.--	7.43	0.00	12.85
Forest	209.34	0.00	8.03	120.83	-.--	0.00	1502.52
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.60
Agri-Pasture	99.55	.80	8.43	132.87	274.37	0.00	-.--

**Camp Creek-South Fork Spring River
(110100100306)**

Area Summary

Area - Square Miles.....:	41.16
Area - Acres.....:	26650.97

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	298.00	977.00
Elevation Minimum.....:	158.00	518.00
Elevation Average.....:	211.00	692.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.19	.45%
Bare.....:	.00	-.--%
Water.....:	.05	.12%
Herbaceous.....:	.05	.12%
Forest.....:	23.29	55.26%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	18.57	44.06%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.46	1.09%
Bare.....:	.00	-.--%
Water.....:	.06	.14%
Herbaceous.....:	.47	1.12%
Forest.....:	20.89	49.56%
Agri - Crops.....:	.01	.02%
Agri - pasture.....:	20.26	48.07%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.60	1.42%
Bare.....:	.03	.07%
Water.....:	.11	.26%
Herbaceous.....:	1.46	3.46%
Forest.....:	20.11	47.71%
Agri - Crops.....:	.17	.40%
Agri - pasture.....:	19.67	46.67%

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	0.0	0.00	-.--	0.00	13.45	0.00	10.64
FROM Herb	1.20	0.00	0.00	-.--	11.84	0.00	16.26
Forest	27.90	.20	2.21	152.94	-.--	0.00	1728.12
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.40
Agri-Pasture	118.82	.40	.60	156.96	347.23	0.00	-.--

**Town Creek-South Fork Spring River
(110100100305)**

Area Summary

Area - Square Miles.....	40.65
Area - Acres.....	26321.36

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	337.00	1105.00
Elevation Minimum.....	175.00	574.00
Elevation Average.....	229.00	751.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.01	2.47%
Bare.....	.01	.02%
Water.....	.25	.61%
Herbaceous.....	.06	.15%
Forest.....	24.63	60.12%
Agri - Crops.....	.01	.02%
Agri - pasture.....	15.00	36.61%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.26	5.52%
Bare.....	.02	.05%
Water.....	.25	.61%
Herbaceous.....	.44	1.07%
Forest.....	22.15	54.08%
Agri - Crops.....	.02	.05%
Agri - pasture.....	15.82	38.62%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.45	5.98%
Bare.....	.05	.12%
Water.....	.39	.95%
Herbaceous.....	1.24	3.03%
Forest.....	21.46	52.39%
Agri - Crops.....	.17	.42%
Agri - pasture.....	15.20	37.11%

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	1.00	-.--	0.00	0.00	0.00	0.00	.40
Water	7.63	0.00	-.--	1.20	36.13	0.00	19.07
FROM Herb	15.25	0.00	0.00	-.--	7.02	0.00	10.64
Forest	473.48	2.21	17.06	174.22	-.--	0.00	1294.78
Agri-Crops	4.42	.80	1.40	0.00	0.00	-.--	.40
Agri-Pasture	439.56	2.61	5.42	152.74	298.26	0.00	-.--

**Big Otter Creek-South Fork Spring River
(110100100308)**

Area Summary

Area - Square Miles.....:	33.50
Area - Acres.....:	21693.46

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	261.00	856.00
Elevation Minimum.....:	102.00	335.00
Elevation Average.....:	171.00	561.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	3.64	11.01%
Bare.....:	.01	.03%
Water.....:	1.18	3.57%
Herbaceous.....:	.06	.18%
Forest.....:	26.06	78.85%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	2.10	6.35%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	7.05	21.33%
Bare.....:	.01	.03%
Water.....:	1.08	3.27%
Herbaceous.....:	.20	.61%
Forest.....:	22.24	67.29%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	2.47	7.47%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	6.84	20.70%
Bare.....:	.01	.03%
Water.....:	1.28	3.87%
Herbaceous.....:	.37	1.12%
Forest.....:	22.16	67.07%
Agri - Crops.....:	.04	.12%
Agri - pasture.....:	2.34	7.08%

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	1.40	-.--	0.00	0.00	0.00	0.00	.40
Water	32.52	0.00	-.--	0.00	82.09	0.00	9.63
FROM Herb	18.67	0.00	.40	-.--	10.84	0.00	8.63
Forest	2856.51	1.00	103.97	23.28	-.--	0.00	282.20
Agri-Crops	1.61	0.00	.20	0.00	.40	-.--	.60
Agri-Pasture	101.96	.60	2.41	17.86	58.41	0.00	-.--