

Watershed Report

Sulphur River Outlet

1114030207

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)

Sulphur River Outlet (1114030207)

Area Summary

Area - Square Miles.....	187.39
Area - Acres.....	121335.09

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	151.00	495.00
Elevation Minimum.....	49.00	161.00
Elevation Average.....	80.00	262.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.25	6.01%
Bare.....	.19	.10%
Water.....	3.76	2.01%
Herbaceous.....	7.72	4.12%
Forest.....	126.94	67.78%
Agri - Crops.....	3.87	2.07%
Agri - pasture.....	33.54	17.91%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	16.47	8.80%
Bare.....	.71	.38%
Water.....	4.25	2.27%
Herbaceous.....	4.66	2.49%
Forest.....	125.31	66.92%
Agri - Crops.....	4.11	2.19%
Agri - pasture.....	31.75	16.96%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	20.73	10.36%
Bare.....	.47	.23%
Water.....	1.53	.76%
Herbaceous.....	17.29	8.64%
Forest.....	124.13	62.01%
Agri - Crops.....	4.27	2.13%

Agri - pasture.....: 18.83 9.41%

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	5.42	-.--	0.00	0.00	.40	0.00	3.41
Water	28.70	35.12	-.--	20.47	694.06	104.57	140.10
FROM Herb	637.66	92.53	109.39	-.--	1164.72	218.57	2273.05
Forest	1545.27	97.14	959.20	433.74	-.--	97.55	2381.03
Agri-Crops	51.18	31.51	22.48	13.05	140.10	-.--	28.30
Agri-Pasture	1569.16	84.10	27.30	512.41	1810.41	290.63	-.--

Sub-Watershed Summary (12 Digit HUC)

Boggy Creek-Sulphur River Outlet (111403020706)

Area Summary

Area - Square Miles.....	33.12
Area - Acres.....	21442.19

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	105.00	344.00
Elevation Minimum.....	58.00	190.00
Elevation Average.....	82.00	269.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.96	2.90%
Bare.....	.00	-.--%
Water.....	.16	.48%
Herbaceous.....	1.95	5.89%
Forest.....	21.80	65.80%
Agri - Crops.....	.01	.03%
Agri - pasture.....	8.25	24.90%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.83	5.53%
Bare.....	.08	.24%
Water.....	.15	.45%
Herbaceous.....	.96	2.90%
Forest.....	22.02	66.49%
Agri - Crops.....	.23	.69%
Agri - pasture.....	7.85	23.70%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.30	6.94%
Bare.....	.09	.27%
Water.....	.09	.27%
Herbaceous.....	3.92	11.83%
Forest.....	21.87	66.01%
Agri - Crops.....	.30	.91%
Agri - pasture.....	4.56	13.76%

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	1.61	1.00	-.--	2.41	26.29	.40	15.05
FROM Herb	158.76	42.95	3.41	-.--	289.42	14.85	615.18
Forest	132.47	14.65	14.65	97.14	-.--	7.63	558.78
Agri-Crops	.40	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	214.36	17.06	10.64	127.05	515.42	114.00	-.--

**Lower Days Creek
(111403020707)**

Area Summary

Area - Square Miles.....	42.16
Area - Acres.....	27300.98

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	131.00	430.00
Elevation Minimum.....	57.00	187.00
Elevation Average.....	83.00	272.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.93	2.21%
Bare.....	.02	.05%
Water.....	.53	1.26%
Herbaceous.....	1.93	4.59%
Forest.....	29.61	70.38%
Agri - Crops.....	.09	.21%
Agri - pasture.....	8.96	21.30%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.37	5.63%
Bare.....	.10	.24%
Water.....	.56	1.33%
Herbaceous.....	.86	2.04%
Forest.....	29.21	69.45%
Agri - Crops.....	.07	.17%
Agri - pasture.....	8.89	21.14%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.17	7.54%
Bare.....	.10	.24%
Water.....	.29	.69%
Herbaceous.....	4.52	10.75%
Forest.....	28.57	67.94%
Agri - Crops.....	.22	.52%
Agri - pasture.....	5.18	12.32%

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	4.42	-.--	0.00	0.00	.40	0.00	2.01
Water	2.21	3.21	-.--	3.01	98.15	.60	46.56
FROM Herb	100.96	24.49	11.44	-.--	301.67	6.82	750.66
Forest	327.36	15.25	68.84	65.43	-.--	6.02	845.19
Agri-Crops	23.88	2.01	.20	0.00	13.85	-.--	12.24
Agri-Pasture	463.04	25.69	8.23	107.58	472.47	17.66	-.--

**Mercer Bayou
(111403020708)**

Area Summary

Area - Square Miles.....	37.00
Area - Acres.....	23958.09

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	138.00	453.00
Elevation Minimum.....	50.00	164.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	.73%
Bare.....	.00	-.--%
Water.....	1.28	3.45%
Herbaceous.....	1.07	2.89%
Forest.....	30.85	83.27%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.58	9.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.33	.89%
Bare.....	.01	.03%
Water.....	1.83	4.94%
Herbaceous.....	.92	2.48%
Forest.....	30.25	81.65%
Agri - Crops.....	.07	.19%
Agri - pasture.....	3.64	9.82%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.37	1.00%
Bare.....	.01	.03%
Water.....	.39	1.05%
Herbaceous.....	2.74	7.40%
Forest.....	31.11	83.97%
Agri - Crops.....	.07	.19%
Agri - pasture.....	2.36	6.37%

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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	2.61	-.--	0.00	133.27	0.00	13.85
FROM Herb	.60	2.01	59.81	-.--	245.27	8.23	280.99
Forest	3.01	3.01	475.88	114.61	-.--	6.22	245.07
Agri-Crops	0.0	0.00	0.00	0.00	.20	-.--	.20
Agri-Pasture	2.21	.20	2.81	110.99	295.65	17.66	-.--

**Sulphur River Outlet
(111403020709)**

Area Summary

Area - Square Miles.....	43.18
Area - Acres.....	27957.00

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	103.00	338.00
Elevation Minimum.....	49.00	161.00
Elevation Average.....	68.00	223.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.54	1.25%
Bare.....	.00	-.--%
Water.....	1.38	3.20%
Herbaceous.....	1.26	2.92%
Forest.....	32.13	74.53%
Agri - Crops.....	3.60	8.35%
Agri - pasture.....	4.20	9.74%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.90	2.09%
Bare.....	.22	.51%
Water.....	1.44	3.34%
Herbaceous.....	.85	1.97%
Forest.....	31.83	73.83%
Agri - Crops.....	3.51	8.14%
Agri - pasture.....	4.36	10.11%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.28	2.97%
Bare.....	.04	.09%
Water.....	.55	1.28%
Herbaceous.....	3.20	7.42%
Forest.....	31.78	73.72%
Agri - Crops.....	3.24	7.52%
Agri - pasture.....	3.02	7.01%

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	6.22	5.02	-.--	7.83	387.57	103.37	32.92
FROM Herb	7.63	14.65	31.11	-.--	155.75	180.24	338.40
Forest	80.48	52.99	387.37	87.51	-.--	62.02	343.82
Agri-Crops	25.69	21.88	22.28	12.44	107.98	-.--	4.62
Agri-Pasture	101.56	18.67	3.21	42.95	197.10	94.33	-.--

**Cypress Creek-Cypress Slough
(111403020702)**

Area Summary

Area - Square Miles.....:	3.15
Area - Acres.....:	2037.19

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	121.00	397.00
Elevation Minimum.....:	60.00	197.00
Elevation Average.....:	79.00	259.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.02	.64%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.11	3.50%
Forest.....:	2.84	90.45%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.17	5.41%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.02	.64%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.11	3.51%
Forest.....:	2.82	90.10%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.18	5.75%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.03	.96%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.19	6.05%
Forest.....:	2.78	88.54%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.14	4.46%

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	0.0	0.00	-.--	0.00	.20	0.00	0.00
FROM Herb	0.0	0.00	0.00	-.--	26.69	.60	17.86
Forest	.80	0.00	1.61	17.86	-.--	.40	10.64
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	1.00	0.00	0.00	5.02	18.87	1.00	-.--

**Cypress Creek-Sulphur River
(111403020703)**

Area Summary

Area - Square Miles.....:	3.10
Area - Acres.....:	2008.26

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	90.00	295.00
Elevation Minimum.....:	60.00	197.00
Elevation Average.....:	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.09	2.90%
Bare.....:	.01	.32%
Water.....:	.18	5.81%
Herbaceous.....:	.16	5.16%
Forest.....:	1.91	61.61%
Agri - Crops.....:	.07	2.26%
Agri - pasture.....:	.68	21.94%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.10	3.23%
Bare.....:	.06	1.94%
Water.....:	.09	2.90%
Herbaceous.....:	.10	3.23%
Forest.....:	2.13	68.71%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.62	20.00%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.12	3.87%
Bare.....:	.04	1.29%
Water.....:	.07	2.26%
Herbaceous.....:	.28	9.03%
Forest.....:	2.21	71.29%
Agri - Crops.....:	.05	1.61%
Agri - pasture.....:	.33	10.65%

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	1.00
Water	0.0	17.66	-.--	4.62	34.32	0.00	9.83
FROM Herb	.60	0.00	0.00	-.--	48.97	.60	33.72
Forest	3.21	.20	2.01	2.01	-.--	.40	22.88
Agri-Crops	0.0	7.63	0.00	.60	18.06	-.--	10.44
Agri-Pasture	3.81	2.61	0.00	6.62	49.37	.60	-.--

**Upper Days Creek
(111403020704)**

Area Summary

Area - Square Miles.....	13.08
Area - Acres.....	8472.11

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	134.00	440.00
Elevation Minimum.....	78.00	256.00
Elevation Average.....	101.00	331.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.21	55.12%
Bare.....	.14	1.07%
Water.....	.16	1.22%
Herbaceous.....	.52	3.98%
Forest.....	2.49	19.04%
Agri - Crops.....	.07	.54%
Agri - pasture.....	2.49	19.04%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.83	59.82%
Bare.....	.17	1.30%
Water.....	.13	.99%
Herbaceous.....	.40	3.06%
Forest.....	2.06	15.74%
Agri - Crops.....	.12	.92%
Agri - pasture.....	2.38	18.18%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	9.22	70.54%
Bare.....	.12	.92%
Water.....	.10	.77%
Herbaceous.....	.79	6.04%
Forest.....	1.47	11.25%
Agri - Crops.....	.23	1.76%
Agri - pasture.....	1.14	8.72%

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	14.05	3.81	-.--	1.40	7.43	.20	15.25
FROM Herb	189.07	2.61	1.00	-.--	33.52	2.61	66.44
Forest	486.52	6.42	4.21	10.04	-.--	7.83	150.13
Agri-Crops	1.20	0.00	0.00	0.00	0.00	-.--	.60
Agri-Pasture	96.94	7.23	2.41	15.66	44.76	17.26	-.--

**Middle Days Creek
(111403020705)**

Area Summary

Area - Square Miles.....	12.60
Area - Acres.....	8159.27

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	151.00	495.00
Elevation Minimum.....	72.00	236.00
Elevation Average.....	104.00	341.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.23	9.77%
Bare.....	.02	.16%
Water.....	.07	.56%
Herbaceous.....	.72	5.72%
Forest.....	5.31	42.18%
Agri - Crops.....	.03	.24%
Agri - pasture.....	5.21	41.38%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.09	24.52%
Bare.....	.07	.56%
Water.....	.05	.40%
Herbaceous.....	.46	3.65%
Forest.....	4.99	39.60%
Agri - Crops.....	.11	.87%
Agri - pasture.....	3.83	30.40%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.24	33.65%
Bare.....	.07	.56%
Water.....	.04	.32%
Herbaceous.....	1.65	13.10%
Forest.....	4.34	34.44%
Agri - Crops.....	.16	1.27%
Agri - pasture.....	2.10	16.67%

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	0.00	.40
Water	4.62	1.81	-.--	1.20	6.82	0.00	6.62
FROM Herb	180.04	5.82	2.61	-.--	63.42	4.62	169.80
Forest	511.41	4.62	4.62	39.14	-.--	7.02	204.52
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.20
Agri-Pasture	686.23	12.64	0.00	96.54	216.77	28.10	-.--