

Watershed Report

Salado Creek-White River

1101000407

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)

Salado Creek-White River (1101000407)

Area Summary

Area - Square Miles.....	213.40
Area - Acres.....	138172.67

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	367.00	1204.00
Elevation Minimum.....	60.00	197.00
Elevation Average.....	146.00	479.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.53	2.12%
Bare.....	.17	.08%
Water.....	5.17	2.42%
Herbaceous.....	.79	.37%
Forest.....	113.27	53.08%
Agri - Crops.....	27.56	12.91%
Agri - pasture.....	61.92	29.01%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.44	3.96%
Bare.....	.42	.20%
Water.....	4.12	1.93%
Herbaceous.....	1.75	.82%
Forest.....	108.24	50.72%
Agri - Crops.....	30.41	14.25%
Agri - pasture.....	60.02	28.13%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	10.01	4.49%
Bare.....	.31	.14%
Water.....	4.72	2.12%
Herbaceous.....	4.41	1.98%
Forest.....	110.20	49.43%
Agri - Crops.....	33.25	14.92%

Agri - pasture.....: 50.52 22.66%

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	8.43	-.--	1.40	0.00	2.21	9.23	9.43
Water	24.49	8.03	-.--	1.00	253.70	292.03	102.96
FROM Herb	36.93	0.00	4.62	-.--	77.67	59.61	173.61
Forest	1389.12	6.82	136.48	158.16	-.--	1139.84	4456.18
Agri-Crops	136.08	34.32	34.72	87.91	826.53	-.--	191.48
Agri-Pasture	1389.92	47.97	21.07	227.61	1033.86	2132.95	-.--

Sub-Watershed Summary (12 Digit HUC)

Upper Salado Creek (110100040701)

Area Summary

Area - Square Miles.....	47.13
Area - Acres.....	30516.84

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	367.00	1204.00
Elevation Minimum.....	129.00	423.00
Elevation Average.....	251.00	823.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	.57%
Bare.....	.00	-.--%
Water.....	.05	.11%
Herbaceous.....	.04	.08%
Forest.....	36.79	78.01%
Agri - Crops.....	.09	.19%
Agri - pasture.....	9.92	21.03%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.73	1.55%
Bare.....	.01	.02%
Water.....	.05	.11%
Herbaceous.....	.29	.62%
Forest.....	34.75	73.70%
Agri - Crops.....	.01	.02%
Agri - pasture.....	11.31	23.99%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.82	1.74%
Bare.....	.02	.04%
Water.....	.11	.23%
Herbaceous.....	1.20	2.54%
Forest.....	34.19	72.50%
Agri - Crops.....	.29	.61%
Agri - pasture.....	10.53	22.33%

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	.80	0.00	-.--	0.00	12.64	0.00	10.04
FROM Herb	3.41	0.00	0.00	-.--	7.63	0.00	13.05
Forest	142.10	.80	2.21	59.81	-.--	0.00	1246.61
Agri-Crops	0.0	.40	0.00	46.16	2.81	-.--	8.43
Agri-Pasture	139.09	1.20	.40	61.22	156.55	0.00	-.--

**Middle Salado Creek
(110100040702)**

Area Summary

Area - Square Miles.....	36.39
Area - Acres.....	23565.49

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	295.00	968.00
Elevation Minimum.....	72.00	236.00
Elevation Average.....	180.00	590.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.22	.60%
Bare.....	.00	-.--%
Water.....	.08	.22%
Herbaceous.....	.43	1.18%
Forest.....	29.03	79.49%
Agri - Crops.....	.03	.08%
Agri - pasture.....	6.73	18.43%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.57	1.56%
Bare.....	.00	-.--%
Water.....	.09	.25%
Herbaceous.....	.48	1.31%
Forest.....	27.74	75.96%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	7.64	20.92%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.64	1.75%
Bare.....	.00	-.--%
Water.....	.14	.38%
Herbaceous.....	.60	1.64%
Forest.....	28.36	77.66%
Agri - Crops.....	.14	.38%
Agri - pasture.....	6.64	18.18%

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	.20	-.--	0.00	0.00	0.00	0.00	0.00
Water	.40	0.00	-.--	0.00	13.85	0.00	13.45
FROM Herb	2.41	0.00	0.00	-.--	36.93	0.00	124.04
Forest	115.01	0.00	3.21	53.39	-.--	0.00	797.82
Agri-Crops	6.82	0.00	0.00	4.62	2.41	-.--	3.81
Agri-Pasture	116.21	.40	1.40	56.40	159.56	0.00	-.--

**Big Creek-White River
(110100040704)**

Area Summary

Area - Square Miles.....:	41.94
Area - Acres.....:	27153.29

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	189.00	620.00
Elevation Minimum.....:	63.00	207.00
Elevation Average.....:	104.00	341.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.96	4.69%
Bare.....:	.09	.22%
Water.....:	1.70	4.07%
Herbaceous.....:	.08	.19%
Forest.....:	17.53	41.96%
Agri - Crops.....:	3.34	7.99%
Agri - pasture.....:	17.08	40.88%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	3.50	8.38%
Bare.....:	.17	.41%
Water.....:	1.37	3.28%
Herbaceous.....:	.29	.69%
Forest.....:	15.78	37.77%
Agri - Crops.....:	6.38	15.27%
Agri - pasture.....:	14.29	34.20%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	3.94	9.43%
Bare.....:	.10	.24%
Water.....:	1.57	3.76%
Herbaceous.....:	.70	1.68%
Forest.....:	16.87	40.38%
Agri - Crops.....:	6.64	15.89%
Agri - pasture.....:	11.96	28.63%

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	4.82	-.--	1.20	0.00	.40	5.22	.40
Water	13.45	4.21	-.--	0.00	76.27	82.89	31.51
FROM Herb	17.06	0.00	.40	-.--	10.24	3.81	14.45
Forest	736.81	3.01	49.58	9.23	-.--	347.23	894.57
Agri-Crops	24.89	4.01	4.82	0.00	20.27	-.--	7.83
Agri-Pasture	431.93	32.52	14.25	29.30	258.52	1565.14	-.--

**Mud Creek-White River
(110100040706)**

Area Summary

Area - Square Miles.....:	32.54
Area - Acres.....:	21069.78

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	160.00	525.00
Elevation Minimum.....:	60.00	197.00
Elevation Average.....:	77.00	253.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.97	2.96%
Bare.....:	.04	.12%
Water.....:	1.64	5.00%
Herbaceous.....:	.15	.46%
Forest.....:	4.94	15.07%
Agri - Crops.....:	16.61	50.67%
Agri - pasture.....:	8.43	25.72%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.83	5.58%
Bare.....:	.14	.43%
Water.....:	1.29	3.94%
Herbaceous.....:	.29	.88%
Forest.....:	6.04	18.43%
Agri - Crops.....:	15.73	47.99%
Agri - pasture.....:	7.46	22.76%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.32	7.08%
Bare.....:	.09	.27%
Water.....:	1.41	4.30%
Herbaceous.....:	.77	2.35%
Forest.....:	6.24	19.03%
Agri - Crops.....:	16.75	51.08%
Agri - pasture.....:	5.21	15.89%

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	-.--	.20	0.00	1.61	3.21	8.83
Water	5.02	3.21	-.--	.80	61.02	101.16	16.26
FROM Herb	8.03	0.00	.80	-.--	13.45	39.14	10.84
Forest	172.01	.60	34.72	10.64	-.--	451.80	251.89
Agri-Crops	75.47	25.69	21.48	34.92	746.84	-.--	126.45
Agri-Pasture	391.59	.60	0.00	32.11	137.49	248.88	-.--

**Lower Salado Creek
(110100040703)**

Area Summary

Area - Square Miles.....:	28.87
Area - Acres.....:	18690.34

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	299.00	981.00
Elevation Minimum.....:	71.00	233.00
Elevation Average.....:	121.00	397.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.84	2.91%
Bare.....:	.04	.14%
Water.....:	.07	.24%
Herbaceous.....:	.03	.10%
Forest.....:	14.95	51.87%
Agri - Crops.....:	.08	.28%
Agri - pasture.....:	12.81	44.45%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.38	4.79%
Bare.....:	.09	.31%
Water.....:	.05	.17%
Herbaceous.....:	.24	.83%
Forest.....:	14.27	49.53%
Agri - Crops.....:	.02	.07%
Agri - pasture.....:	12.76	44.29%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.76	6.11%
Bare.....:	.08	.28%
Water.....:	.11	.38%
Herbaceous.....:	.78	2.71%
Forest.....:	14.23	49.39%
Agri - Crops.....:	.59	2.05%
Agri - pasture.....:	11.26	39.08%

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	2.41	-.--	0.00	0.00	0.00	0.00	0.00
Water	.60	.20	-.--	0.00	16.86	1.61	17.06
FROM Herb	4.82	0.00	0.00	-.--	5.62	0.00	7.02
Forest	196.70	2.41	3.21	17.26	-.--	7.43	892.16
Agri-Crops	10.04	4.01	0.00	.60	13.45	-.--	22.08
Agri-Pasture	266.95	12.24	2.41	31.51	214.36	3.01	-.--

**Goodie Creek-White River
(110100040705)**

Area Summary

Area - Square Miles.....	26.53
Area - Acres.....	17176.93

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	261.00	856.00
Elevation Minimum.....	60.00	197.00
Elevation Average.....	91.00	298.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	1.02%
Bare.....	.00	-.--%
Water.....	1.63	6.19%
Herbaceous.....	.06	.23%
Forest.....	10.03	38.06%
Agri - Crops.....	7.41	28.12%
Agri - pasture.....	6.95	26.38%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.43	1.63%
Bare.....	.01	.04%
Water.....	1.27	4.82%
Herbaceous.....	.16	.61%
Forest.....	9.66	36.65%
Agri - Crops.....	8.27	31.37%
Agri - pasture.....	6.56	24.89%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.53	2.01%
Bare.....	.02	.08%
Water.....	1.38	5.24%
Herbaceous.....	.36	1.37%
Forest.....	10.31	39.11%
Agri - Crops.....	8.84	33.54%
Agri - pasture.....	4.92	18.66%

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	.20	.80	.20
Water	4.21	.40	-.--	.20	73.06	106.38	14.65
FROM Herb	1.20	0.00	3.41	-.--	3.81	16.66	4.21
Forest	26.49	0.00	43.55	7.83	-.--	333.38	373.12
Agri-Crops	18.87	.20	8.43	1.61	40.74	-.--	22.88
Agri-Pasture	44.16	1.00	2.61	17.06	107.38	315.92	-.--