

Watershed Report

Glaise Creek-White River

1101001306

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)

Glaise Creek-White River (1101001306)

Area Summary

Area - Square Miles.....	97.27
Area - Acres.....	62977.76

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	224.00	735.00
Elevation Minimum.....	52.00	171.00
Elevation Average.....	94.00	308.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.20	1.23%
Bare.....	.01	.01%
Water.....	3.34	3.44%
Herbaceous.....	1.71	1.76%
Forest.....	53.52	55.06%
Agri - Crops.....	21.14	21.75%
Agri - pasture.....	16.28	16.75%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.29	2.36%
Bare.....	.03	.03%
Water.....	4.13	4.25%
Herbaceous.....	1.89	1.94%
Forest.....	55.57	57.17%
Agri - Crops.....	16.80	17.28%
Agri - pasture.....	16.49	16.97%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.75	2.73%
Bare.....	.13	.13%
Water.....	3.09	3.06%
Herbaceous.....	5.08	5.04%
Forest.....	55.68	55.21%
Agri - Crops.....	17.63	17.48%

Agri - pasture.....: 12.85 12.74%

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	0.0	-.--	.80	0.00	.80	.80	0.00
Water	11.04	2.61	-.--	17.26	126.05	133.27	22.68
FROM Herb	19.07	0.00	11.24	-.--	209.14	205.53	45.76
Forest	300.26	.60	674.99	94.33	-.--	622.60	1126.99
Agri-Crops	328.36	.40	48.97	340.20	2480.58	-.--	84.10
Agri-Pasture	125.24	3.01	9.83	148.53	326.56	178.03	-.--

Sub-Watershed Summary (12 Digit HUC)

Caney Creek-White River (110100130603)

Area Summary

Area - Square Miles.....	24.69
Area - Acres.....	15984.10

Elevation Summary

	Meters	Feet
Elevation Maximum.....	69.00	226.00
Elevation Minimum.....	52.00	171.00
Elevation Average.....	61.00	200.00

Land Use / Land Cover for 1999

	Sq. Miles	% of Total
Urban.....	.81	3.25%
Bare.....	.01	.04%
Water.....	2.37	9.52%
Herbaceous.....	.36	1.45%
Forest.....	9.71	39.01%
Agri - Crops.....	9.86	39.61%
Agri - pasture.....	1.77	7.11%

Land Use / Land Cover for 2004

	Sq. Miles	% of Total
Urban.....	1.20	4.82%
Bare.....	.02	.08%
Water.....	2.59	10.40%
Herbaceous.....	.31	1.24%
Forest.....	11.68	46.89%
Agri - Crops.....	7.29	29.27%
Agri - pasture.....	1.82	7.31%

Land Use / Land Cover for 2006

	Sq. Miles	% of Total
Urban.....	1.38	5.54%
Bare.....	.05	.20%
Water.....	2.25	9.03%
Herbaceous.....	1.16	4.66%
Forest.....	11.23	45.08%
Agri - Crops.....	7.88	31.63%
Agri - pasture.....	.96	3.85%

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	-.--	.80	0.00	.80	.20	0.00
Water	6.22	0.00	-.--	3.41	73.26	59.81	4.82
FROM Herb	7.63	0.00	9.03	-.--	78.28	62.02	12.85
Forest	58.81	0.00	319.93	6.82	-.--	276.78	6.22
Agri-Crops	203.72	.40	28.50	98.95	1433.47	-.--	33.72
Agri-Pasture	8.83	0.00	2.41	1.00	.40	21.07	-.--

**Headwaters Glaise Creek
(110100130601)**

Area Summary

Area - Square Miles.....: 46.99
 Area - Acres.....: 30423.02

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	224.00	735.00
Elevation Minimum.....:	54.00	177.00
Elevation Average.....:	129.00	423.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.34	.72%
Bare.....:	.00	-.--%
Water.....:	.24	.51%
Herbaceous.....:	.99	2.10%
Forest.....:	26.52	56.38%
Agri - Crops.....:	5.02	10.67%
Agri - pasture.....:	13.93	29.61%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.88	1.87%
Bare.....:	.01	.02%
Water.....:	.16	.34%
Herbaceous.....:	1.32	2.81%
Forest.....:	26.44	56.21%
Agri - Crops.....:	4.08	8.67%
Agri - pasture.....:	14.15	30.08%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.07	2.27%
Bare.....:	.06	.13%
Water.....:	.22	.47%
Herbaceous.....:	3.04	6.46%
Forest.....:	26.87	57.11%
Agri - Crops.....:	4.20	8.93%
Agri - pasture.....:	11.59	24.63%

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>
Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	.40	0.00
Water	1.61	2.61	-.--	13.65	23.68	38.54	17.66
FROM Herb	10.24	0.00	.60	-.--	97.95	49.37	29.91
Forest	128.86	.20	12.04	87.11	-.--	179.03	1118.76
Agri-Crops	96.94	0.00	3.81	133.27	588.68	-.--	42.55
Agri-Pasture	116.41	3.01	5.42	145.72	317.32	121.23	-.--

**Outlet Glaise Creek
(110100130602)**

Area Summary

Area - Square Miles.....	25.59
Area - Acres.....	16570.64

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	69.00	226.00
Elevation Minimum.....	53.00	174.00
Elevation Average.....	61.00	200.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.05	.20%
Bare.....	.00	-.--%
Water.....	.73	2.89%
Herbaceous.....	.36	1.42%
Forest.....	17.29	68.42%
Agri - Crops.....	6.26	24.77%
Agri - pasture.....	.58	2.30%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.83%
Bare.....	.00	-.--%
Water.....	1.38	5.47%
Herbaceous.....	.26	1.03%
Forest.....	17.45	69.11%
Agri - Crops.....	5.43	21.50%
Agri - pasture.....	.52	2.06%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.30	1.19%
Bare.....	.02	.08%
Water.....	.62	2.46%
Herbaceous.....	.88	3.49%
Forest.....	17.58	69.62%
Agri - Crops.....	5.55	21.98%
Agri - pasture.....	.30	1.19%

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	.20	0.00
Water	3.21	0.00	-.--	.20	29.10	34.92	.20
FROM Herb	1.20	0.00	1.61	-.--	32.92	94.13	3.01
Forest	112.60	.40	343.01	.40	-.--	166.79	2.01
Agri-Crops	27.70	0.00	16.66	107.98	458.42	-.--	7.83
Agri-Pasture	0.0	0.00	2.01	1.81	8.83	35.73	-.--