

Watershed Report

Upper Cadron Creek

1111020501

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)

Upper Cadron Creek (1111020501)

Area Summary

Area - Square Miles.....	322.97
Area - Acres.....	209124.97

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	365.00	1197.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	199.00	653.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.54	1.10%
Bare.....	.02	.01%
Water.....	.92	.29%
Herbaceous.....	1.53	.48%
Forest.....	185.15	57.49%
Agri - Crops.....	.78	.24%
Agri - pasture.....	130.09	40.40%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	10.94	3.40%
Bare.....	.11	.03%
Water.....	1.92	.60%
Herbaceous.....	7.56	2.35%
Forest.....	182.63	56.71%
Agri - Crops.....	.25	.08%
Agri - pasture.....	118.66	36.84%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	13.04	3.79%
Bare.....	.23	.07%
Water.....	1.51	.44%
Herbaceous.....	29.50	8.57%
Forest.....	179.88	52.25%
Agri - Crops.....	1.42	.41%

Agri - pasture.....: 96.42 28.01%

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	8.23	-.--	1.00	3.81	.40	.60	4.01
Water	10.64	.60	-.--	17.06	146.52	.20	88.71
FROM Herb	69.85	.60	3.61	-.--	240.05	.40	252.69
Forest	1547.48	5.42	325.75	1575.18	-.--	12.64	6247.12
Agri-Crops	128.66	12.04	20.27	66.44	166.19	-.--	96.14
Agri-Pasture	2731.07	17.06	126.25	6412.70	5950.06	51.58	-.--

Sub-Watershed Summary (12 Digit HUC)

North Fork Cadron Creek (111102050101)

Area Summary

Area - Square Miles.....	74.75
Area - Acres.....	48400.26

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	365.00	1197.00
Elevation Minimum.....	154.00	505.00
Elevation Average.....	243.00	797.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.52	.70%
Bare.....	.00	-.--%
Water.....	.11	.15%
Herbaceous.....	.15	.20%
Forest.....	50.59	67.73%
Agri - Crops.....	.03	.04%
Agri - pasture.....	23.29	31.18%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.84	1.12%
Bare.....	.03	.04%
Water.....	.19	.25%
Herbaceous.....	1.24	1.66%
Forest.....	48.76	65.29%
Agri - Crops.....	.03	.04%
Agri - pasture.....	23.59	31.59%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.18	1.58%
Bare.....	.03	.04%
Water.....	.20	.27%
Herbaceous.....	5.61	7.51%
Forest.....	48.08	64.37%
Agri - Crops.....	.20	.27%
Agri - pasture.....	19.39	25.96%

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	.40	.20	-.--	1.61	15.86	0.00	13.85
FROM Herb	3.01	0.00	0.00	-.--	18.26	0.00	37.93
Forest	25.49	1.20	18.26	396.20	-.--	.20	1818.84
Agri-Crops	0.0	11.24	0.00	0.00	1.40	-.--	2.81
Agri-Pasture	46.56	3.21	9.23	1325.09	936.72	.60	-.--

**Pine Mountain Creek
(111102050105)**

Area Summary

Area - Square Miles.....	32.41
Area - Acres.....	20985.58

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	345.00	1132.00
Elevation Minimum.....	122.00	400.00
Elevation Average.....	211.00	692.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.47	1.45%
Bare.....	.00	-.--%
Water.....	.07	.22%
Herbaceous.....	.24	.74%
Forest.....	14.09	43.39%
Agri - Crops.....	.05	.15%
Agri - pasture.....	17.55	54.05%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.40	4.31%
Bare.....	.01	.03%
Water.....	.13	.40%
Herbaceous.....	.83	2.56%
Forest.....	14.64	45.09%
Agri - Crops.....	.02	.06%
Agri - pasture.....	15.44	47.55%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.58	4.87%
Bare.....	.03	.09%
Water.....	.16	.49%
Herbaceous.....	3.70	11.40%
Forest.....	14.48	44.62%
Agri - Crops.....	.03	.09%
Agri - pasture.....	12.47	38.43%

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	.40	0.00	0.00	0.00
Water	1.00	0.00	-.--	1.61	10.04	0.00	10.64
FROM Herb	27.90	0.00	.20	-.--	42.35	0.00	36.13
Forest	173.41	0.00	16.06	100.15	-.--	.20	406.04
Agri-Crops	6.22	0.00	0.00	3.21	16.86	-.--	4.42
Agri-Pasture	348.03	3.41	17.46	927.08	707.91	8.63	-.--

**Cove Creek-Cadron Creek
(111102050106)**

Area Summary

Area - Square Miles.....	54.10
Area - Acres.....	35029.73

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	244.00	800.00
Elevation Minimum.....	82.00	269.00
Elevation Average.....	164.00	538.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.49	.92%
Bare.....	.01	.02%
Water.....	.10	.19%
Herbaceous.....	.35	.65%
Forest.....	32.93	61.53%
Agri - Crops.....	.20	.37%
Agri - pasture.....	19.44	36.32%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.23	4.17%
Bare.....	.02	.04%
Water.....	.21	.39%
Herbaceous.....	1.63	3.05%
Forest.....	32.80	61.29%
Agri - Crops.....	.02	.04%
Agri - pasture.....	16.61	31.04%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.83	5.29%
Bare.....	.07	.13%
Water.....	.15	.28%
Herbaceous.....	5.46	10.21%
Forest.....	31.91	59.66%
Agri - Crops.....	.07	.13%
Agri - pasture.....	13.00	24.30%

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	6.22	-.--	0.00	0.00	.20	0.00	.40
Water	4.01	0.00	-.--	1.61	20.07	0.00	8.43
FROM Herb	10.24	.60	.80	-.--	53.79	0.00	52.39
Forest	449.19	1.00	20.47	319.73	-.--	1.61	733.20
Agri-Crops	47.17	0.00	2.61	20.67	29.10	-.--	25.69
Agri-Pasture	628.22	2.61	7.63	1024.83	1191.82	7.63	-.--

**Hogans Creek
(111102050104)**

Area Summary

Area - Square Miles.....:	20.93
Area - Acres.....:	13551.88

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	334.00	1096.00
Elevation Minimum.....:	121.00	397.00
Elevation Average.....:	220.00	722.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.24	1.12%
Bare.....:	.00	-.--%
Water.....:	.03	.14%
Herbaceous.....:	.16	.74%
Forest.....:	13.49	62.77%
Agri - Crops.....:	.01	.05%
Agri - pasture.....:	7.56	35.18%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.38	1.77%
Bare.....:	.01	.05%
Water.....:	.06	.28%
Herbaceous.....:	.72	3.35%
Forest.....:	13.41	62.37%
Agri - Crops.....:	.01	.05%
Agri - pasture.....:	6.91	32.14%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.58	2.70%
Bare.....:	.02	.09%
Water.....:	.06	.28%
Herbaceous.....:	2.19	10.19%
Forest.....:	13.67	63.61%
Agri - Crops.....:	.01	.05%
Agri - pasture.....:	4.96	23.08%

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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	0.00	-.--	.60	6.82	0.00	2.81
FROM Herb	0.0	0.00	.20	-.--	48.57	0.00	26.69
Forest	1.40	0.00	5.62	147.92	-.--	.20	333.38
Agri-Crops	0.0	.60	0.00	0.00	5.62	-.--	1.20
Agri-Pasture	11.84	.80	8.03	442.57	373.52	2.41	-.--

**Wolf Branch-Cadron Creek
(111102050103)**

Area Summary

Area - Square Miles.....	34.92
Area - Acres.....	22612.71

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	255.00	836.00
Elevation Minimum.....	110.00	361.00
Elevation Average.....	190.00	623.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.44	1.28%
Bare.....	.01	.03%
Water.....	.23	.67%
Herbaceous.....	.17	.49%
Forest.....	16.08	46.72%
Agri - Crops.....	.15	.44%
Agri - pasture.....	17.34	50.38%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.00	5.81%
Bare.....	.02	.06%
Water.....	.46	1.34%
Herbaceous.....	.86	2.50%
Forest.....	16.33	47.40%
Agri - Crops.....	.05	.15%
Agri - pasture.....	14.73	42.76%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.32	6.74%
Bare.....	.03	.09%
Water.....	.32	.93%
Herbaceous.....	2.65	7.70%
Forest.....	16.64	48.33%
Agri - Crops.....	.19	.55%
Agri - pasture.....	12.28	35.67%

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	1.20	-.--	1.00	2.41	0.00	.60	3.01
Water	1.00	.40	-.--	4.21	37.13	0.00	14.65
FROM Herb	13.45	0.00	1.00	-.--	8.43	.20	25.69
Forest	269.35	1.61	63.63	171.61	-.--	4.21	571.02
Agri-Crops	30.31	0.00	8.63	18.87	25.49	-.--	13.85
Agri-Pasture	715.13	3.41	31.51	1195.23	743.83	10.04	-.--

**Jacks Fork-Upper Cadron Creek
(111102050107)**

Area Summary

Area - Square Miles.....	42.99
Area - Acres.....	27834.76

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	211.00	692.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	121.00	397.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.29	.68%
Bare.....	.00	-.--%
Water.....	.16	.38%
Herbaceous.....	.36	.85%
Forest.....	22.41	52.64%
Agri - Crops.....	.27	.63%
Agri - pasture.....	19.08	44.82%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.72	4.04%
Bare.....	.01	.02%
Water.....	.50	1.17%
Herbaceous.....	1.60	3.76%
Forest.....	21.47	50.43%
Agri - Crops.....	.04	.09%
Agri - pasture.....	17.23	40.47%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.96	4.60%
Bare.....	.04	.09%
Water.....	.20	.47%
Herbaceous.....	5.11	12.00%
Forest.....	21.61	50.76%
Agri - Crops.....	.33	.78%
Agri - pasture.....	13.32	31.29%

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	.80	-.--	0.00	1.00	0.00	0.00	.20
Water	1.20	0.00	-.--	2.21	30.11	0.00	8.03
FROM Herb	14.05	0.00	1.20	-.--	55.60	.20	59.61
Forest	343.62	.60	171.81	326.56	-.--	4.82	1027.84
Agri-Crops	38.34	.20	2.01	5.42	79.68	-.--	42.95
Agri-Pasture	527.07	2.01	9.43	619.99	812.07	13.25	-.--

**Headwaters Cadron Creek
(111102050102)**

Area Summary

Area - Square Miles.....:	62.87
Area - Acres.....:	40710.05

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	333.00	1092.00
Elevation Minimum.....:	157.00	515.00
Elevation Average.....:	223.00	731.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.09	1.73%
Bare.....:	.00	-.--%
Water.....:	.22	.35%
Herbaceous.....:	.10	.16%
Forest.....:	35.56	56.56%
Agri - Crops.....:	.07	.11%
Agri - pasture.....:	25.83	41.08%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.37	3.77%
Bare.....:	.01	.02%
Water.....:	.37	.59%
Herbaceous.....:	.68	1.08%
Forest.....:	35.22	56.01%
Agri - Crops.....:	.08	.13%
Agri - pasture.....:	24.15	38.41%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.59	4.12%
Bare.....:	.01	.02%
Water.....:	.42	.67%
Herbaceous.....:	4.78	7.60%
Forest.....:	33.49	53.26%
Agri - Crops.....:	.59	.94%
Agri - pasture.....:	21.00	33.40%

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	.20	0.00	.40
Water	3.01	0.00	-.--	5.22	26.49	.20	30.31
FROM Herb	1.20	0.00	.20	-.--	13.05	0.00	14.25
Forest	285.01	1.00	29.91	113.00	-.--	1.40	1356.80
Agri-Crops	6.62	0.00	7.02	18.26	8.03	-.--	5.22
Agri-Pasture	454.21	1.61	42.95	877.91	1184.19	9.03	-.--