

Watershed Report

East Fork Cadron Creek

1111020503

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)

East Fork Cadron Creek (1111020503)

Area Summary

Area - Square Miles.....	313.42
Area - Acres.....	202936.30

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	279.00	915.00
Elevation Minimum.....	75.00	246.00
Elevation Average.....	151.00	495.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.03	1.28%
Bare.....	.02	.01%
Water.....	2.63	.83%
Herbaceous.....	2.10	.67%
Forest.....	144.98	45.92%
Agri - Crops.....	4.78	1.51%
Agri - pasture.....	157.16	49.78%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	12.18	3.86%
Bare.....	.81	.26%
Water.....	2.90	.92%
Herbaceous.....	7.27	2.30%
Forest.....	143.88	45.58%
Agri - Crops.....	4.01	1.27%
Agri - pasture.....	144.62	45.81%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	13.49	4.05%
Bare.....	.39	.12%
Water.....	3.01	.90%
Herbaceous.....	25.28	7.59%
Forest.....	139.60	41.91%
Agri - Crops.....	6.69	2.01%

Agri - pasture.....: 127.22 38.20%

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	3.81	-.--	0.00	0.00	.20	1.00	1.61
Water	32.31	28.10	-.--	16.26	183.65	62.42	142.71
FROM Herb	68.44	5.02	8.43	-.--	146.92	169.00	286.01
Forest	2225.48	224.80	226.80	1456.76	-.--	203.32	6536.34
Agri-Crops	176.83	11.04	43.96	76.07	506.99	-.--	208.14
Agri-Pasture	3202.74	218.77	76.67	8391.71	6399.86	175.82	-.--

Sub-Watershed Summary (12 Digit HUC)

Muddy Bayou-East Fork Cadron Creek (111102050304)

Area Summary

Area - Square Miles.....	78.87
Area - Acres.....	51065.76

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	253.00	830.00
Elevation Minimum.....	78.00	256.00
Elevation Average.....	126.00	413.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.77	.97%
Bare.....	.00	-.--%
Water.....	.29	.37%
Herbaceous.....	.54	.68%
Forest.....	29.65	37.43%
Agri - Crops.....	.24	.30%
Agri - pasture.....	47.73	60.25%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.06	2.60%
Bare.....	.28	.35%
Water.....	.30	.38%
Herbaceous.....	2.24	2.83%
Forest.....	29.55	37.31%
Agri - Crops.....	.09	.11%
Agri - pasture.....	44.69	56.42%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.25	2.84%
Bare.....	.10	.13%
Water.....	.42	.53%
Herbaceous.....	7.03	8.88%
Forest.....	28.08	35.45%
Agri - Crops.....	.70	.88%
Agri - pasture.....	40.63	51.29%

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	1.00	13.05	-.--	5.62	33.92	0.00	40.14
FROM Herb	10.84	1.00	.80	-.--	26.90	0.00	83.50
Forest	234.03	79.88	29.91	474.28	-.--	1.00	1686.17
Agri-Crops	19.67	4.62	7.02	25.09	48.57	-.--	44.76
Agri-Pasture	578.65	77.67	12.24	2948.04	1697.61	4.01	-.--

**Needs Creek-East Fork Cadron Creek
(111102050305)**

Area Summary

Area - Square Miles.....:	50.19
Area - Acres.....:	32497.76

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	252.00	827.00
Elevation Minimum.....:	81.00	266.00
Elevation Average.....:	145.00	476.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.89	1.72%
Bare.....:	.00	-.--%
Water.....:	.22	.43%
Herbaceous.....:	.38	.74%
Forest.....:	24.03	46.57%
Agri - Crops.....:	.17	.33%
Agri - pasture.....:	25.91	50.21%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.21	4.28%
Bare.....:	.19	.37%
Water.....:	.23	.45%
Herbaceous.....:	1.60	3.10%
Forest.....:	23.78	46.09%
Agri - Crops.....:	.07	.14%
Agri - pasture.....:	23.51	45.57%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.35	4.55%
Bare.....:	.09	.17%
Water.....:	.31	.60%
Herbaceous.....:	5.25	10.17%
Forest.....:	22.52	43.64%
Agri - Crops.....:	.36	.70%
Agri - pasture.....:	20.72	40.16%

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	.20
Water	1.00	4.62	-.--	3.21	22.88	0.00	23.48
FROM Herb	17.46	3.21	.40	-.--	31.11	.20	80.69
Forest	201.11	53.19	12.24	280.39	-.--	1.81	1211.29
Agri-Crops	29.30	2.01	1.40	11.24	28.70	-.--	30.71
Agri-Pasture	635.25	49.37	8.63	1489.27	1138.43	8.43	-.--

**Outlet East Fork Cadron Creek
(111102050306)**

Area Summary

Area - Square Miles.....:	60.02
Area - Acres.....:	38865.72

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	185.00	607.00
Elevation Minimum.....:	75.00	246.00
Elevation Average.....:	103.00	338.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.43	2.34%
Bare.....:	.01	.02%
Water.....:	1.84	3.01%
Herbaceous.....:	.62	1.01%
Forest.....:	31.17	50.92%
Agri - Crops.....:	4.14	6.76%
Agri - pasture.....:	22.00	35.94%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	4.53	7.40%
Bare.....:	.16	.26%
Water.....:	1.91	3.12%
Herbaceous.....:	1.14	1.86%
Forest.....:	30.90	50.47%
Agri - Crops.....:	3.68	6.01%
Agri - pasture.....:	18.90	30.87%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	5.05	8.25%
Bare.....:	.14	.23%
Water.....:	1.83	2.99%
Herbaceous.....:	3.66	5.98%
Forest.....:	30.29	49.48%
Agri - Crops.....:	4.48	7.32%
Agri - pasture.....:	15.77	25.76%

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	3.61	-.--	0.00	0.00	.20	.40	1.00
Water	23.88	4.42	-.--	2.61	80.69	62.42	24.49
FROM Herb	32.11	.60	7.23	-.--	54.59	168.80	45.16
Forest	1154.49	40.74	137.69	167.79	-.--	198.50	887.14
Agri-Crops	105.77	2.61	34.72	15.25	386.77	-.--	87.91
Agri-Pasture	1069.79	43.15	27.90	788.39	966.62	153.14	-.--

**Headwaters East Fork Cadron Creek
(111102050301)**

Area Summary

Area - Square Miles.....	53.70
Area - Acres.....	34771.15

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	279.00	915.00
Elevation Minimum.....	129.00	423.00
Elevation Average.....	217.00	712.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.56	1.05%
Bare.....	.01	.02%
Water.....	.14	.26%
Herbaceous.....	.10	.19%
Forest.....	23.72	44.28%
Agri - Crops.....	.09	.17%
Agri - pasture.....	28.95	54.04%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.14	3.99%
Bare.....	.04	.07%
Water.....	.19	.35%
Herbaceous.....	.64	1.19%
Forest.....	23.82	44.47%
Agri - Crops.....	.08	.15%
Agri - pasture.....	26.66	49.77%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.43	4.54%
Bare.....	.01	.02%
Water.....	.19	.35%
Herbaceous.....	3.93	7.34%
Forest.....	23.77	44.38%
Agri - Crops.....	.52	.97%
Agri - pasture.....	22.71	42.40%

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	-.--	0.00	0.00	0.00	.60	.40
Water	5.82	.80	-.--	2.41	21.68	0.00	27.90
FROM Herb	2.61	0.00	0.00	-.--	8.23	0.00	19.87
Forest	464.04	8.23	10.04	138.09	-.--	1.00	1072.00
Agri-Crops	18.47	.20	0.00	7.23	7.83	-.--	20.07
Agri-Pasture	607.95	9.63	13.45	1093.27	1137.63	5.82	-.--

**Turkey Creek-East Fork Cadron Creek
(111102050303)**

Area Summary

Area - Square Miles.....:	35.72
Area - Acres.....:	23127.14

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	227.00	745.00
Elevation Minimum.....:	83.00	272.00
Elevation Average.....:	148.00	485.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.15	.42%
Bare.....:	.00	-.--%
Water.....:	.07	.20%
Herbaceous.....:	.41	1.14%
Forest.....:	17.43	48.65%
Agri - Crops.....:	.10	.28%
Agri - pasture.....:	17.67	49.32%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.49	1.37%
Bare.....:	.13	.36%
Water.....:	.11	.31%
Herbaceous.....:	1.28	3.57%
Forest.....:	16.75	46.75%
Agri - Crops.....:	.04	.11%
Agri - pasture.....:	17.03	47.53%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.51	1.42%
Bare.....:	.05	.14%
Water.....:	.11	.31%
Herbaceous.....:	3.35	9.35%
Forest.....:	16.08	44.88%
Agri - Crops.....:	.25	.70%
Agri - pasture.....:	15.48	43.20%

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	.20	4.82	-.--	1.81	13.85	0.00	11.84
FROM Herb	3.61	.20	0.00	-.--	23.28	0.00	49.98
Forest	56.00	40.14	6.42	280.59	-.--	.40	923.07
Agri-Crops	2.81	1.61	.60	9.83	27.50	-.--	20.27
Agri-Pasture	132.07	36.53	.40	1307.83	667.36	1.81	-.--

**Clear Creek-East Fork Cadron Creek
(111102050302)**

Area Summary

Area - Square Miles.....	34.92
Area - Acres.....	22608.77

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	272.00	892.00
Elevation Minimum.....	128.00	420.00
Elevation Average.....	201.00	659.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.23	.67%
Bare.....	.00	-.--%
Water.....	.07	.20%
Herbaceous.....	.05	.15%
Forest.....	18.98	55.38%
Agri - Crops.....	.04	.12%
Agri - pasture.....	14.90	43.48%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.75	2.19%
Bare.....	.01	.03%
Water.....	.16	.47%
Herbaceous.....	.37	1.08%
Forest.....	19.08	55.71%
Agri - Crops.....	.05	.15%
Agri - pasture.....	13.83	40.38%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.90	2.63%
Bare.....	.00	-.--%
Water.....	.15	.44%
Herbaceous.....	2.06	6.01%
Forest.....	18.86	55.05%
Agri - Crops.....	.38	1.11%
Agri - pasture.....	11.91	34.76%

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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	.40	.40	-.--	.60	10.64	0.00	14.85
FROM Herb	1.81	0.00	0.00	-.--	2.81	0.00	6.82
Forest	115.81	2.61	30.51	115.61	-.--	.60	756.68
Agri-Crops	.80	0.00	.20	7.43	7.63	-.--	4.42
Agri-Pasture	179.03	2.41	14.05	764.91	792.20	2.61	-.--