

Watershed Report

Big Running Water Creek-Black River

1101000902

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)

Big Running Water Creek-Black River (1101000902)

Area Summary

Area - Square Miles.....	260.82
Area - Acres.....	168879.84

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	182.00	597.00
Elevation Minimum.....	66.00	216.00
Elevation Average.....	85.00	279.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.99	1.92%
Bare.....	.03	.01%
Water.....	8.03	3.10%
Herbaceous.....	1.44	.56%
Forest.....	72.67	28.03%
Agri - Crops.....	132.40	51.07%
Agri - pasture.....	39.69	15.31%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	8.91	3.44%
Bare.....	.90	.35%
Water.....	6.74	2.60%
Herbaceous.....	2.00	.77%
Forest.....	70.58	27.22%
Agri - Crops.....	131.17	50.58%
Agri - pasture.....	39.01	15.04%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	9.99	3.71%
Bare.....	.50	.19%
Water.....	7.09	2.63%
Herbaceous.....	8.95	3.33%
Forest.....	70.67	26.26%
Agri - Crops.....	132.95	49.39%

Agri - pasture.....: 29.12 10.82%

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	1.00	-.--	0.00	0.00	0.00	.60	.60
Water	35.73	1.40	-.--	1.00	404.23	698.47	80.89
FROM Herb	17.86	0.00	11.84	-.--	56.40	481.71	31.31
Forest	1181.98	26.49	390.78	77.07	-.--	2550.23	2750.14
Agri-Crops	996.73	20.67	119.02	18.67	1987.64	-.--	128.66
Agri-Pasture	602.73	15.86	17.06	136.48	531.88	987.90	-.--

Sub-Watershed Summary (12 Digit HUC)

Mill Creek-Black River (110100090201)

Area Summary

Area - Square Miles.....	31.42
Area - Acres.....	20346.53

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	165.00	541.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	94.00	308.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.89	9.44%
Bare.....	.02	.07%
Water.....	1.36	4.44%
Herbaceous.....	.09	.29%
Forest.....	8.97	29.29%
Agri - Crops.....	10.52	34.36%
Agri - pasture.....	6.77	22.11%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.46	14.57%
Bare.....	.10	.33%
Water.....	1.16	3.79%
Herbaceous.....	.18	.59%
Forest.....	7.52	24.56%
Agri - Crops.....	10.31	33.67%
Agri - pasture.....	6.89	22.50%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.61	15.06%
Bare.....	.09	.29%
Water.....	1.11	3.63%
Herbaceous.....	1.08	3.53%
Forest.....	8.22	26.85%
Agri - Crops.....	10.05	32.82%
Agri - pasture.....	5.46	17.83%

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	20.67	.20	-.--	0.00	63.63	115.01	25.09
FROM Herb	8.63	0.00	1.61	-.--	5.22	23.88	4.21
Forest	536.10	4.62	77.88	11.84	-.--	187.46	692.05
Agri-Crops	285.41	6.22	22.28	1.00	104.17	-.--	18.47
Agri-Pasture	344.62	5.02	1.20	41.75	39.94	43.55	-.--

**Little Running Water Ditch-Big Running Water Creek
(110100090202)**

Area Summary

Area - Square Miles.....:	35.70
Area - Acres.....:	23117.00

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	86.00	282.00
Elevation Minimum.....:	76.00	249.00
Elevation Average.....:	81.00	266.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.40	1.13%
Bare.....:	.00	-.--%
Water.....:	.11	.31%
Herbaceous.....:	.29	.82%
Forest.....:	.22	.62%
Agri - Crops.....:	32.42	91.74%
Agri - pasture.....:	1.90	5.38%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.71	2.01%
Bare.....:	.18	.51%
Water.....:	.08	.23%
Herbaceous.....:	.29	.82%
Forest.....:	.24	.68%
Agri - Crops.....:	32.09	90.78%
Agri - pasture.....:	1.76	4.98%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.83	2.35%
Bare.....:	.04	.11%
Water.....:	.06	.17%
Herbaceous.....:	1.34	3.79%
Forest.....:	.36	1.02%
Agri - Crops.....:	32.12	90.86%
Agri - pasture.....:	.60	1.70%

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	.60	0.00	-.--	0.00	0.00	70.65	0.00
FROM Herb	1.20	0.00	1.20	-.--	.60	90.52	4.62
Forest	1.81	.80	0.00	0.00	-.--	78.48	1.61
Agri-Crops	236.64	3.41	3.41	1.40	12.64	-.--	4.21
Agri-Pasture	6.22	.20	0.00	0.00	0.00	94.53	-.--

**Swan Pond Ditch-Big Running Water Creek
(110100090206)**

Area Summary

Area - Square Miles.....:	58.08
Area - Acres.....:	37607.10

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	84.00	276.00
Elevation Minimum.....:	66.00	216.00
Elevation Average.....:	76.00	249.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.37	.64%
Bare.....:	.00	-.--%
Water.....:	.20	.35%
Herbaceous.....:	.49	.85%
Forest.....:	4.75	8.26%
Agri - Crops.....:	48.74	84.78%
Agri - pasture.....:	2.94	5.11%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.86	1.50%
Bare.....:	.43	.75%
Water.....:	.20	.35%
Herbaceous.....:	.50	.87%
Forest.....:	5.20	9.04%
Agri - Crops.....:	47.54	82.66%
Agri - pasture.....:	2.78	4.83%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.02	1.77%
Bare.....:	.12	.21%
Water.....:	.12	.21%
Herbaceous.....:	2.68	4.66%
Forest.....:	4.50	7.82%
Agri - Crops.....:	47.97	83.41%
Agri - pasture.....:	1.10	1.91%

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	1.20	0.00	-.--	0.00	19.27	90.12	.80
FROM Herb	1.20	0.00	.40	-.--	13.45	194.29	7.02
Forest	6.22	2.61	4.62	.20	-.--	546.53	16.26
Agri-Crops	292.03	6.02	9.03	7.02	376.13	-.--	18.06
Agri-Pasture	2.01	0.00	0.00	.20	1.40	127.05	-.--

**Horseshoe Lake-Black River
(110100090207)**

Area Summary

Area - Square Miles.....	38.44
Area - Acres.....	24888.24

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	119.00	390.00
Elevation Minimum.....	66.00	216.00
Elevation Average.....	74.00	243.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.05	.13%
Bare.....	.00	-.--%
Water.....	2.52	6.44%
Herbaceous.....	.19	.49%
Forest.....	20.62	52.70%
Agri - Crops.....	13.60	34.76%
Agri - pasture.....	2.15	5.49%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.08	.20%
Bare.....	.03	.08%
Water.....	2.00	5.11%
Herbaceous.....	.21	.54%
Forest.....	21.02	53.72%
Agri - Crops.....	13.72	35.06%
Agri - pasture.....	2.07	5.29%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.25	.64%
Bare.....	.05	.13%
Water.....	2.31	5.90%
Herbaceous.....	.58	1.48%
Forest.....	20.54	52.51%
Agri - Crops.....	14.02	35.84%
Agri - pasture.....	1.37	3.50%

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	.60	0.00
Water	0.0	1.00	-.--	.40	142.91	147.92	16.86
FROM Herb	0.0	0.00	2.21	-.--	9.63	57.60	2.81
Forest	8.83	.80	112.60	.20	-.--	559.38	104.57
Agri-Crops	2.21	1.40	32.92	1.61	425.71	-.--	53.79
Agri-Pasture	12.44	1.00	1.61	0.00	19.27	161.57	-.--

**Cypress Creek-Black River
(110100090205)**

Area Summary

Area - Square Miles.....:	29.67
Area - Acres.....:	19211.18

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	153.00	502.00
Elevation Minimum.....:	69.00	226.00
Elevation Average.....:	95.00	312.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.22	.76%
Bare.....:	.00	-.--%
Water.....:	.21	.73%
Herbaceous.....:	.03	.10%
Forest.....:	13.86	48.06%
Agri - Crops.....:	5.10	17.68%
Agri - pasture.....:	9.42	32.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.40	1.39%
Bare.....:	.03	.10%
Water.....:	.20	.69%
Herbaceous.....:	.26	.90%
Forest.....:	13.33	46.19%
Agri - Crops.....:	5.04	17.46%
Agri - pasture.....:	9.60	33.26%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.50	1.73%
Bare.....:	.03	.10%
Water.....:	.27	.94%
Herbaceous.....:	1.03	3.57%
Forest.....:	13.30	46.13%
Agri - Crops.....:	5.94	20.60%
Agri - pasture.....:	7.76	26.92%

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	.60
Water	.20	0.00	-.--	0.00	32.92	5.22	12.85
FROM Herb	.60	0.00	0.00	-.--	6.42	8.83	3.61
Forest	58.21	8.43	10.64	23.48	-.--	395.00	825.92
Agri-Crops	0.0	0.00	8.83	.80	316.12	-.--	8.63
Agri-Pasture	33.72	5.22	3.21	37.33	224.60	38.14	-.--

**Bay Creek-Black River
(110100090204)**

Area Summary

Area - Square Miles.....	46.36
Area - Acres.....	30015.27

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	136.00	446.00
Elevation Minimum.....	67.00	220.00
Elevation Average.....	82.00	269.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.90	1.93%
Bare.....	.01	.02%
Water.....	2.53	5.43%
Herbaceous.....	.29	.62%
Forest.....	13.28	28.52%
Agri - Crops.....	21.00	45.09%
Agri - pasture.....	8.56	18.38%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.12	4.55%
Bare.....	.11	.24%
Water.....	2.04	4.38%
Herbaceous.....	.31	.67%
Forest.....	12.65	27.16%
Agri - Crops.....	21.43	46.02%
Agri - pasture.....	7.91	16.99%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.44	5.24%
Bare.....	.15	.32%
Water.....	2.21	4.75%
Herbaceous.....	1.74	3.74%
Forest.....	12.58	27.01%
Agri - Crops.....	21.61	46.40%
Agri - pasture.....	5.84	12.54%

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	.40	-.--	0.00	0.00	0.00	0.00	0.00
Water	13.05	.20	-.--	.40	116.41	269.55	14.85
FROM Herb	6.22	0.00	4.42	-.--	16.26	99.95	6.22
Forest	539.91	6.42	154.95	21.28	-.--	754.87	530.68
Agri-Crops	180.44	3.61	42.55	3.81	733.60	-.--	24.09
Agri-Pasture	180.04	1.61	7.43	17.26	92.53	481.10	-.--

**Flat Creek-Black River
(110100090203)**

Area Summary

Area - Square Miles.....:	21.15
Area - Acres.....:	13694.52

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	182.00	597.00
Elevation Minimum.....:	68.00	223.00
Elevation Average.....:	110.00	361.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.16	.75%
Bare.....:	.00	-.--%
Water.....:	1.10	5.17%
Herbaceous.....:	.06	.28%
Forest.....:	10.97	51.60%
Agri - Crops.....:	1.02	4.80%
Agri - pasture.....:	7.95	37.39%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.28	1.32%
Bare.....:	.02	.09%
Water.....:	1.06	4.98%
Herbaceous.....:	.25	1.18%
Forest.....:	10.62	49.93%
Agri - Crops.....:	1.04	4.89%
Agri - pasture.....:	8.00	37.61%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.34	1.60%
Bare.....:	.02	.09%
Water.....:	1.01	4.75%
Herbaceous.....:	.50	2.35%
Forest.....:	11.17	52.52%
Agri - Crops.....:	1.24	5.83%
Agri - pasture.....:	6.99	32.86%

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	0.0	0.00	-.--	.20	29.10	0.00	10.44
FROM Herb	0.0	0.00	2.01	-.--	4.82	6.62	2.81
Forest	30.91	2.81	30.11	20.07	-.--	28.50	579.05
Agri-Crops	0.0	0.00	0.00	3.01	19.27	-.--	1.40
Agri-Pasture	23.68	2.81	3.61	39.94	154.15	41.95	-.--