

Watershed Report

Hurricane Creek-Cornie Bayou

0804020601

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)

Hurricane Creek-Cornie Bayou (0804020601)

Area Summary

Area - Square Miles.....	221.24
Area - Acres.....	143251.67

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	120.00	394.00
Elevation Minimum.....	42.00	138.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.42	1.08%
Bare.....	.00	-.--%
Water.....	.50	.22%
Herbaceous.....	8.41	3.77%
Forest.....	205.65	92.10%
Agri - Crops.....	.03	.01%
Agri - pasture.....	6.28	2.81%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.78	1.69%
Bare.....	.09	.04%
Water.....	.55	.25%
Herbaceous.....	10.66	4.77%
Forest.....	200.97	90.01%
Agri - Crops.....	.13	.06%
Agri - pasture.....	7.10	3.18%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.99	1.76%
Bare.....	.16	.07%
Water.....	.36	.16%
Herbaceous.....	12.34	5.45%
Forest.....	202.13	89.26%
Agri - Crops.....	.37	.16%

Agri - pasture.....: 3.88 1.71%

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	0.00	0.00
Water	1.61	0.00	-.--	43.75	113.80	0.00	12.24
FROM Herb	71.25	21.88	14.85	-.--	1128.80	7.02	845.99
Forest	440.96	13.05	56.40	4100.92	-.--	10.04	999.14
Agri-Crops	0.0	.40	0.00	3.41	2.81	-.--	3.61
Agri-Pasture	147.12	6.62	7.83	824.72	414.07	17.06	-.--

Sub-Watershed Summary (12 Digit HUC)

Village Creek-Cornie Bayou (080402060103)

Area Summary

Area - Square Miles.....	24.74
Area - Acres.....	16020.57

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	109.00	358.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.36	1.47%
Bare.....	.00	-.--%
Water.....	.10	.41%
Herbaceous.....	.93	3.80%
Forest.....	22.23	90.92%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.83	3.39%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.56	2.29%
Bare.....	.01	.04%
Water.....	.08	.33%
Herbaceous.....	1.12	4.58%
Forest.....	21.96	89.85%
Agri - Crops.....	.02	.08%
Agri - pasture.....	.69	2.82%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.63	2.58%
Bare.....	.02	.08%
Water.....	.03	.12%
Herbaceous.....	1.49	6.10%
Forest.....	21.76	89.07%
Agri - Crops.....	.04	.16%
Agri - pasture.....	.46	1.88%

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	0.00	-.--	21.07	22.28	0.00	.60
FROM Herb	13.45	2.81	1.40	-.--	182.45	1.61	64.63
Forest	67.64	2.41	7.63	438.95	-.--	.40	61.82
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	33.72	1.20	1.61	171.61	66.44	.80	-.--

**Hurricane Creek-Cornie Bayou
(080402060104)**

Area Summary

Area - Square Miles.....	25.55
Area - Acres.....	16545.63

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	113.00	371.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	76.00	249.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.82%
Bare.....	.00	-.--%
Water.....	.05	.20%
Herbaceous.....	.77	3.02%
Forest.....	23.92	93.95%
Agri - Crops.....	.01	.04%
Agri - pasture.....	.50	1.96%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.42	1.65%
Bare.....	.00	-.--%
Water.....	.06	.24%
Herbaceous.....	.95	3.73%
Forest.....	23.45	92.18%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.56	2.20%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.49	1.93%
Bare.....	.00	-.--%
Water.....	.03	.12%
Herbaceous.....	1.27	4.99%
Forest.....	23.43	92.10%
Agri - Crops.....	.02	.08%
Agri - pasture.....	.20	.79%

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	0.00	0.00
Water	.60	0.00	-.--	2.01	11.04	0.00	1.20
FROM Herb	15.05	1.00	3.41	-.--	71.25	.20	108.58
Forest	79.28	0.00	2.61	357.87	-.--	0.00	74.06
Agri-Crops	0.0	0.00	0.00	1.00	2.21	-.--	0.00
Agri-Pasture	25.29	1.61	1.00	96.74	17.06	.60	-.--

**Garner Creek-Cornie Bayou
(080402060105)**

Area Summary

Area - Square Miles.....	50.93
Area - Acres.....	32974.43

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	110.00	361.00
Elevation Minimum.....	48.00	157.00
Elevation Average.....	69.00	226.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.33	.64%
Bare.....	.00	-.--%
Water.....	.04	.08%
Herbaceous.....	1.54	3.00%
Forest.....	48.68	94.82%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.75	1.46%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.47	.92%
Bare.....	.01	.02%
Water.....	.06	.12%
Herbaceous.....	1.75	3.41%
Forest.....	48.16	93.79%
Agri - Crops.....	.01	.02%
Agri - pasture.....	.89	1.73%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.49	.95%
Bare.....	.01	.02%
Water.....	.02	.04%
Herbaceous.....	1.99	3.88%
Forest.....	48.39	94.24%
Agri - Crops.....	.03	.06%
Agri - pasture.....	.42	.82%

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	0.00	0.00
Water	0.0	0.00	-.--	2.41	16.26	0.00	2.21
FROM Herb	10.84	2.41	3.41	-.--	257.51	.60	127.85
Forest	37.73	1.00	8.43	695.66	-.--	0.00	160.37
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	20.47	.20	0.00	65.03	64.83	.60	-.--

**Black Branch-Cornie Bayou
(080402060108)**

Area Summary

Area - Square Miles.....:	23.88
Area - Acres.....:	15459.34

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	82.00	269.00
Elevation Minimum.....:	42.00	138.00
Elevation Average.....:	56.00	184.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.19	.79%
Bare.....:	.00	-.--%
Water.....:	.06	.25%
Herbaceous.....:	.59	2.47%
Forest.....:	22.75	95.07%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.34	1.42%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.28	1.17%
Bare.....:	.01	.04%
Water.....:	.07	.29%
Herbaceous.....:	1.24	5.18%
Forest.....:	21.43	89.48%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.92	3.84%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.20	.84%
Bare.....:	.00	-.--%
Water.....:	.10	.42%
Herbaceous.....:	1.78	7.44%
Forest.....:	21.41	89.51%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.43	1.80%

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	0.00	0.00
Water	0.0	0.00	-.--	.20	9.63	0.00	.80
FROM Herb	.80	1.81	.60	-.--	81.29	0.00	122.43
Forest	3.61	1.00	3.61	429.32	-.--	0.00	272.16
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	1.20	.60	1.61	31.11	20.27	0.00	-.--

**Beene Creek-Little Cornie Bayou
(080402060106)**

Area Summary

Area - Square Miles.....:	33.76
Area - Acres.....:	21861.72

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	111.00	364.00
Elevation Minimum.....:	51.00	167.00
Elevation Average.....:	76.00	249.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.26	.78%
Bare.....:	.00	-.--%
Water.....:	.10	.30%
Herbaceous.....:	1.34	4.02%
Forest.....:	30.87	92.67%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.74	2.22%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.40	1.20%
Bare.....:	.00	-.--%
Water.....:	.12	.36%
Herbaceous.....:	1.64	4.92%
Forest.....:	30.40	91.26%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.75	2.25%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.37	1.11%
Bare.....:	.00	-.--%
Water.....:	.07	.21%
Herbaceous.....:	1.47	4.42%
Forest.....:	31.01	93.15%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	.36	1.08%

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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	0.00	-.--	3.61	23.08	0.00	2.01
FROM Herb	4.01	.80	2.41	-.--	183.45	.20	67.24
Forest	36.53	.60	20.67	594.71	-.--	.60	117.82
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	11.04	1.20	1.40	86.51	106.78	0.00	-.--

**Brushy Branch-Beech Creek
(080402060102)**

Area Summary

Area - Square Miles.....:	16.76
Area - Acres.....:	10854.03

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	110.00	361.00
Elevation Minimum.....:	54.00	177.00
Elevation Average.....:	80.00	262.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.30	1.61%
Bare.....:	.00	-.--%
Water.....:	.02	.11%
Herbaceous.....:	1.05	5.64%
Forest.....:	16.80	90.18%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	.46	2.47%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.39	2.09%
Bare.....:	.00	-.--%
Water.....:	.02	.11%
Herbaceous.....:	1.24	6.66%
Forest.....:	16.53	88.78%
Agri - Crops.....:	.01	.05%
Agri - pasture.....:	.43	2.31%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.40	2.15%
Bare.....:	.00	-.--%
Water.....:	.01	.05%
Herbaceous.....:	1.07	5.75%
Forest.....:	16.87	90.60%
Agri - Crops.....:	.02	.11%
Agri - pasture.....:	.25	1.34%

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	-.--	.40	7.83	0.00	.40
FROM Herb	8.43	1.81	0.00	-.--	121.43	1.20	51.18
Forest	31.31	.40	.40	436.55	-.--	.20	47.17
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	5.42	0.00	0.00	98.95	35.12	.80	-.--

**Baker Branch-Cornie Bayou
(080402060101)**

Area Summary

Area - Square Miles.....	44.75
Area - Acres.....	28975.36

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	120.00	394.00
Elevation Minimum.....	60.00	197.00
Elevation Average.....	87.00	285.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.74	1.63%
Bare.....	.00	-.--%
Water.....	.13	.29%
Herbaceous.....	2.18	4.81%
Forest.....	39.59	87.40%
Agri - Crops.....	.02	.04%
Agri - pasture.....	2.64	5.83%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.22	2.69%
Bare.....	.06	.13%
Water.....	.14	.31%
Herbaceous.....	2.70	5.96%
Forest.....	38.26	84.44%
Agri - Crops.....	.09	.20%
Agri - pasture.....	2.84	6.27%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.37	3.02%
Bare.....	.13	.29%
Water.....	.10	.22%
Herbaceous.....	3.24	7.15%
Forest.....	38.47	84.90%
Agri - Crops.....	.25	.55%
Agri - pasture.....	1.75	3.86%

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	0.00	0.00
Water	0.0	0.00	-.--	14.05	23.28	0.00	5.02
FROM Herb	18.47	11.24	3.61	-.--	227.41	3.21	302.67
Forest	184.45	7.63	13.05	1147.86	-.--	8.83	262.93
Agri-Crops	0.0	.40	0.00	2.41	.60	-.--	3.61
Agri-Pasture	49.98	1.61	2.21	274.77	101.36	14.25	-.--

**Steep Creek-Little Cornie Creek
(080402060107)**

Area Summary

Area - Square Miles.....	.87
Area - Acres.....	560.59

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	79.00	259.00
Elevation Minimum.....	52.00	171.00
Elevation Average.....	64.00	210.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.03	3.45%
Bare.....	.00	-.--%
Water.....	.00	-.--%
Herbaceous.....	.01	1.15%
Forest.....	.81	93.10%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.02	2.30%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.04	4.65%
Bare.....	.00	-.--%
Water.....	.00	-.--%
Herbaceous.....	.02	2.33%
Forest.....	.78	90.70%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.02	2.33%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.04	4.60%
Bare.....	.00	-.--%
Water.....	.00	-.--%
Herbaceous.....	.03	3.45%
Forest.....	.79	90.80%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.01	1.15%

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	-.--	0.00	.40	0.00	0.00
FROM Herb	.20	0.00	0.00	-.--	4.01	0.00	1.40
Forest	.40	0.00	0.00	0.00	-.--	0.00	2.81
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	0.0	.20	0.00	0.00	2.21	0.00	-.--