

Watershed Report

Bayou Two Prairie

0802040202

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)

Bayou Two Prairie (0802040202)

Area Summary

Area - Square Miles.....	235.37
Area - Acres.....	152398.95

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	182.00	597.00
Elevation Minimum.....	57.00	187.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	12.02	5.11%
Bare.....	.19	.08%
Water.....	13.07	5.55%
Herbaceous.....	3.21	1.36%
Forest.....	74.37	31.59%
Agri - Crops.....	91.14	38.71%
Agri - pasture.....	41.42	17.59%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	17.63	7.49%
Bare.....	1.47	.62%
Water.....	11.28	4.79%
Herbaceous.....	4.59	1.95%
Forest.....	78.60	33.39%
Agri - Crops.....	85.96	36.52%
Agri - pasture.....	35.84	15.23%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	20.14	8.15%
Bare.....	1.38	.56%
Water.....	12.19	4.93%
Herbaceous.....	16.82	6.81%
Forest.....	73.82	29.88%
Agri - Crops.....	86.90	35.17%

Agri - pasture.....: 24.15 9.77%

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	22.68	-.--	.20	0.00	.60	1.61	5.82
Water	75.47	225.40	-.--	13.05	617.99	1108.12	133.27
FROM Herb	148.73	4.42	68.04	-.--	393.79	337.39	268.95
Forest	2183.33	160.17	884.33	262.13	-.--	981.88	1202.26
Agri-Crops	876.50	142.50	438.75	188.07	2635.13	-.--	430.12
Agri-Pasture	1509.74	111.80	66.64	858.44	1942.28	885.94	-.--

Sub-Watershed Summary (12 Digit HUC)

Jacks Bayou-Bayou Two Prairie (080204020202)

Area Summary

Area - Square Miles.....	40.48
Area - Acres.....	26210.81

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	134.00	440.00
Elevation Minimum.....	73.00	239.00
Elevation Average.....	84.00	276.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.97	9.82%
Bare.....	.07	.17%
Water.....	.70	1.73%
Herbaceous.....	.67	1.66%
Forest.....	24.55	60.75%
Agri - Crops.....	.85	2.10%
Agri - pasture.....	9.60	23.76%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.62	13.91%
Bare.....	.21	.52%
Water.....	.87	2.15%
Herbaceous.....	.90	2.23%
Forest.....	24.55	60.77%
Agri - Crops.....	.11	.27%
Agri - pasture.....	8.14	20.15%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.17	15.27%
Bare.....	.08	.20%
Water.....	.84	2.08%
Herbaceous.....	3.52	8.71%
Forest.....	23.07	57.10%
Agri - Crops.....	.35	.87%
Agri - pasture.....	6.37	15.77%

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	5.22	-.--	0.00	0.00	0.00	0.00	0.00
Water	3.61	8.23	-.--	.20	40.14	2.81	18.87
FROM Herb	55.40	1.00	7.02	-.--	136.48	0.00	60.01
Forest	998.74	47.17	81.69	64.63	-.--	7.83	479.70
Agri-Crops	110.59	7.02	2.81	19.27	310.90	-.--	74.26
Agri-Pasture	404.43	33.32	5.22	245.47	808.86	32.11	-.--

**White Oak Branch-Bayou Two Prairie
(080204020204)**

Area Summary

Area - Square Miles.....:	38.48
Area - Acres.....:	24914.13

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	76.00	249.00
Elevation Minimum.....:	62.00	203.00
Elevation Average.....:	70.00	230.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.39	3.59%
Bare.....:	.02	.05%
Water.....:	4.38	11.32%
Herbaceous.....:	.30	.78%
Forest.....:	5.08	13.13%
Agri - Crops.....:	24.25	62.68%
Agri - pasture.....:	3.27	8.45%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.85	4.78%
Bare.....:	.22	.57%
Water.....:	3.46	8.95%
Herbaceous.....:	.38	.98%
Forest.....:	6.51	16.83%
Agri - Crops.....:	23.13	59.81%
Agri - pasture.....:	3.12	8.07%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.13	5.51%
Bare.....:	.32	.83%
Water.....:	3.92	10.14%
Herbaceous.....:	1.58	4.09%
Forest.....:	5.63	14.56%
Agri - Crops.....:	23.30	60.25%
Agri - pasture.....:	1.79	4.63%

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	2.21	-.--	.20	0.00	0.00	1.20	0.00
Water	25.89	59.01	-.--	1.20	163.98	322.54	9.03
FROM Herb	13.65	.20	11.24	-.--	39.34	68.64	18.87
Forest	129.86	16.86	138.49	6.22	-.--	243.46	41.75
Agri-Crops	213.76	27.70	118.22	6.22	531.68	-.--	50.78
Agri-Pasture	21.88	5.02	6.22	10.44	48.77	79.08	-.--

**Bayou Two Prairie Outlet
(080204020206)**

Area Summary

Area - Square Miles.....	41.47
Area - Acres.....	26852.92

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	71.00	233.00
Elevation Minimum.....	57.00	187.00
Elevation Average.....	63.00	207.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.51%
Bare.....	.00	-.--%
Water.....	1.73	4.17%
Herbaceous.....	.70	1.69%
Forest.....	11.17	26.92%
Agri - Crops.....	24.25	58.43%
Agri - pasture.....	3.44	8.29%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.21	.51%
Bare.....	.29	.70%
Water.....	1.80	4.34%
Herbaceous.....	.82	1.98%
Forest.....	12.12	29.22%
Agri - Crops.....	22.72	54.77%
Agri - pasture.....	3.52	8.49%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.39	.94%
Bare.....	.19	.46%
Water.....	1.63	3.93%
Herbaceous.....	2.26	5.45%
Forest.....	11.59	27.93%
Agri - Crops.....	23.62	56.93%
Agri - pasture.....	1.81	4.36%

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	.20	0.00	0.00
Water	0.0	19.07	-.--	5.02	112.60	379.95	19.87
FROM Herb	1.40	1.40	16.06	-.--	78.48	123.04	41.35
Forest	.20	16.06	435.34	12.85	-.--	322.94	36.73
Agri-Crops	1.00	34.12	144.91	69.04	868.07	-.--	67.24
Agri-Pasture	.60	0.00	9.03	10.44	17.66	23.28	-.--

**Glade Branch-BayouTwo Prairie
(080204020201)**

Area Summary

Area - Square Miles.....	35.80
Area - Acres.....	23177.37

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	182.00	597.00
Elevation Minimum.....	75.00	246.00
Elevation Average.....	96.00	315.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.90	10.86%
Bare.....	.10	.28%
Water.....	.65	1.81%
Herbaceous.....	.24	.67%
Forest.....	19.13	53.26%
Agri - Crops.....	.61	1.70%
Agri - pasture.....	11.29	31.43%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.39	17.78%
Bare.....	.29	.81%
Water.....	.52	1.45%
Herbaceous.....	.85	2.37%
Forest.....	18.65	51.91%
Agri - Crops.....	.17	.47%
Agri - pasture.....	9.06	25.22%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.18	19.98%
Bare.....	.18	.50%
Water.....	.60	1.67%
Herbaceous.....	3.19	8.88%
Forest.....	17.72	49.32%
Agri - Crops.....	.62	1.73%
Agri - pasture.....	6.44	17.92%

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	14.85	-.--	0.00	0.00	.40	0.00	5.82
Water	18.47	27.30	-.--	5.22	50.78	.60	39.94
FROM Herb	51.38	.60	1.81	-.--	35.33	0.00	35.53
Forest	849.61	51.38	29.71	78.48	-.--	23.08	470.67
Agri-Crops	193.08	17.46	4.21	2.41	82.29	-.--	66.23
Agri-Pasture	890.75	50.18	6.82	405.23	719.55	29.30	-.--

**Burris Branch-Bayou Two Prairie
(080204020203)**

Area Summary

Area - Square Miles.....	32.59
Area - Acres.....	21099.98

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	98.00	321.00
Elevation Minimum.....	66.00	216.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.36	4.17%
Bare.....	.00	-.--%
Water.....	4.94	15.16%
Herbaceous.....	.77	2.36%
Forest.....	7.89	24.21%
Agri - Crops.....	8.37	25.68%
Agri - pasture.....	9.26	28.41%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.96	6.02%
Bare.....	.31	.95%
Water.....	3.90	11.97%
Herbaceous.....	.98	3.01%
Forest.....	9.02	27.69%
Agri - Crops.....	8.91	27.35%
Agri - pasture.....	7.50	23.02%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.36	7.24%
Bare.....	.41	1.26%
Water.....	4.46	13.68%
Herbaceous.....	2.95	9.05%
Forest.....	8.18	25.09%
Agri - Crops.....	8.77	26.90%
Agri - pasture.....	5.47	16.78%

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	.20	-.--	0.00	0.00	0.00	.40	0.00
Water	23.68	104.97	-.--	1.40	220.58	289.42	41.95
FROM Herb	16.26	1.00	24.49	-.--	59.41	31.91	82.69
Forest	138.69	15.25	86.51	84.10	-.--	141.70	132.67
Agri-Crops	159.77	37.73	130.06	25.49	145.72	-.--	68.64
Agri-Pasture	166.79	22.48	36.53	158.16	316.32	642.47	-.--

**Skinnners Branch-Bayou Two Prairie
(080204020205)**

Area Summary

Area - Square Miles.....	46.55
Area - Acres.....	30143.74

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	76.00	249.00
Elevation Minimum.....	60.00	197.00
Elevation Average.....	68.00	223.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.19	2.57%
Bare.....	.00	-.--%
Water.....	.67	1.45%
Herbaceous.....	.53	1.14%
Forest.....	6.55	14.14%
Agri - Crops.....	32.81	70.85%
Agri - pasture.....	4.56	9.85%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.60	3.45%
Bare.....	.15	.32%
Water.....	.73	1.58%
Herbaceous.....	.66	1.43%
Forest.....	7.75	16.74%
Agri - Crops.....	30.92	66.77%
Agri - pasture.....	4.50	9.72%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.91	4.12%
Bare.....	.20	.43%
Water.....	.74	1.60%
Herbaceous.....	3.32	7.17%
Forest.....	7.63	16.48%
Agri - Crops.....	30.24	65.30%
Agri - pasture.....	2.27	4.90%

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	3.81	6.82	-.--	0.00	29.91	112.80	3.61
FROM Herb	10.64	.20	7.43	-.--	44.76	113.80	30.51
Forest	66.23	13.45	112.60	15.86	-.--	242.86	40.74
Agri-Crops	198.30	18.47	38.54	65.63	696.47	-.--	102.96
Agri-Pasture	25.29	.80	2.81	28.70	31.11	79.68	-.--