

Watershed Report

Willow Ditch-Cache River

0802030203

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)

Willow Ditch-Cache River (0802030203)

Area Summary

Area - Square Miles.....	242.58
Area - Acres.....	157067.92

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	162.00	531.00
Elevation Minimum.....	68.00	223.00
Elevation Average.....	81.00	266.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.45	1.01%
Bare.....	.01	.00%
Water.....	2.83	1.17%
Herbaceous.....	.79	.33%
Forest.....	26.32	10.85%
Agri - Crops.....	199.06	82.03%
Agri - pasture.....	11.20	4.62%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.06	2.09%
Bare.....	2.25	.93%
Water.....	2.35	.97%
Herbaceous.....	.79	.33%
Forest.....	23.27	9.59%
Agri - Crops.....	197.81	81.52%
Agri - pasture.....	11.11	4.58%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.74	2.31%
Bare.....	.55	.22%
Water.....	2.02	.81%
Herbaceous.....	10.91	4.40%
Forest.....	24.91	10.04%
Agri - Crops.....	192.97	77.74%

Agri - pasture.....:

5.55

2.24%

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	4.82	0.00
Water	25.29	17.26	-.--	0.00	98.95	1408.19	9.43
FROM Herb	6.42	.40	14.85	-.--	24.49	345.22	22.28
Forest	221.18	41.95	64.23	5.62	-.--	2534.97	410.45
Agri-Crops	1209.08	40.94	338.20	10.04	667.16	-.--	80.48
Agri-Pasture	103.97	2.41	5.02	8.03	92.53	275.78	-.--

Sub-Watershed Summary (12 Digit HUC)

Gum Slough Ditch (080203020302)

Area Summary

Area - Square Miles.....	28.23
Area - Acres.....	18278.31

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	140.00	459.00
Elevation Minimum.....	72.00	236.00
Elevation Average.....	85.00	279.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.84%
Bare.....	.00	-.--%
Water.....	.13	.46%
Herbaceous.....	.11	.39%
Forest.....	4.99	17.54%
Agri - Crops.....	21.22	74.59%
Agri - pasture.....	1.76	6.19%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.62	2.18%
Bare.....	.27	.95%
Water.....	.14	.49%
Herbaceous.....	.13	.46%
Forest.....	4.30	15.12%
Agri - Crops.....	21.19	74.51%
Agri - pasture.....	1.79	6.29%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.68	2.39%
Bare.....	.04	.14%
Water.....	.14	.49%
Herbaceous.....	1.38	4.85%
Forest.....	4.56	16.03%
Agri - Crops.....	20.35	71.53%
Agri - pasture.....	1.30	4.57%

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	0.00	-.--	0.00	2.41	70.45	.40
FROM Herb	0.0	0.00	0.00	-.--	1.81	42.35	5.02
Forest	14.45	6.02	1.00	1.81	-.--	388.58	83.29
Agri-Crops	213.96	2.81	14.45	.80	50.98	-.--	12.44
Agri-Pasture	3.61	.80	0.00	2.21	30.51	29.91	-.--

**Whaley Slough Ditch-Cache River
(080203020304)**

Area Summary

Area - Square Miles.....	42.97
Area - Acres.....	27824.55

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	136.00	446.00
Elevation Minimum.....	71.00	233.00
Elevation Average.....	79.00	259.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.73	1.70%
Bare.....	.00	-.--%
Water.....	.63	1.46%
Herbaceous.....	.13	.30%
Forest.....	3.63	8.44%
Agri - Crops.....	36.09	83.89%
Agri - pasture.....	1.81	4.21%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.55	3.60%
Bare.....	.47	1.09%
Water.....	.32	.74%
Herbaceous.....	.14	.33%
Forest.....	3.18	7.39%
Agri - Crops.....	35.78	83.17%
Agri - pasture.....	1.58	3.67%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.71	3.98%
Bare.....	.08	.19%
Water.....	.56	1.30%
Herbaceous.....	1.93	4.49%
Forest.....	3.51	8.16%
Agri - Crops.....	34.41	80.00%
Agri - pasture.....	.81	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	11.04	7.23	-.--	0.00	21.48	332.18	1.20
FROM Herb	2.21	0.00	1.81	-.--	2.21	59.81	1.20
Forest	115.41	7.23	4.21	0.00	-.--	349.24	53.99
Agri-Crops	348.23	11.04	34.52	2.01	95.94	-.--	8.43
Agri-Pasture	54.19	0.00	0.00	2.41	8.43	124.64	-.--

**Willow Ditch
(080203020305)**

Area Summary

Area - Square Miles.....	44.14
Area - Acres.....	28582.59

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	84.00	276.00
Elevation Minimum.....	68.00	223.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.24	.54%
Bare.....	.00	-.--%
Water.....	.62	1.40%
Herbaceous.....	.21	.48%
Forest.....	2.51	5.68%
Agri - Crops.....	38.40	86.96%
Agri - pasture.....	2.18	4.94%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.25	.57%
Bare.....	.35	.79%
Water.....	.51	1.16%
Herbaceous.....	.19	.43%
Forest.....	2.32	5.25%
Agri - Crops.....	38.28	86.70%
Agri - pasture.....	2.25	5.10%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.43	.97%
Bare.....	.18	.41%
Water.....	.52	1.18%
Herbaceous.....	2.10	4.76%
Forest.....	2.53	5.73%
Agri - Crops.....	37.59	85.12%
Agri - pasture.....	.81	1.83%

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	1.61	-.--	0.00	7.43	303.47	2.01
FROM Herb	.20	0.00	6.82	-.--	7.43	87.51	9.23
Forest	0.0	5.02	27.10	0.00	-.--	334.58	40.54
Agri-Crops	2.61	5.82	65.23	3.61	136.28	-.--	33.12
Agri-Pasture	.80	0.00	0.00	0.00	0.00	5.22	-.--

**Number Twenty Six Ditch-Cache River
(080203020301)**

Area Summary

Area - Square Miles.....: 51.97
 Area - Acres.....: 33647.61

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	162.00	531.00
Elevation Minimum.....:	73.00	239.00
Elevation Average.....:	95.00	312.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.54	1.04%
Bare.....:	.01	.02%
Water.....:	.34	.66%
Herbaceous.....:	.10	.19%
Forest.....:	12.14	23.41%
Agri - Crops.....:	36.30	70.00%
Agri - pasture.....:	2.43	4.69%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.23	2.37%
Bare.....:	.45	.87%
Water.....:	.41	.79%
Herbaceous.....:	.11	.21%
Forest.....:	10.39	20.04%
Agri - Crops.....:	36.66	70.72%
Agri - pasture.....:	2.59	5.00%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.23	2.37%
Bare.....:	.06	.12%
Water.....:	.18	.35%
Herbaceous.....:	2.26	4.36%
Forest.....:	10.71	20.66%
Agri - Crops.....:	35.60	68.66%
Agri - pasture.....:	1.81	3.49%

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	4.82	0.00
Water	5.82	.20	-.--	0.00	19.87	117.42	3.01
FROM Herb	2.41	.20	.60	-.--	5.02	43.75	1.61
Forest	75.87	18.26	9.03	3.01	-.--	1034.06	219.78
Agri-Crops	226.20	6.62	12.24	0.00	86.91	-.--	7.23
Agri-Pasture	44.56	1.61	5.02	0.00	53.59	4.62	-.--

**Podo Creek-Cache River
(080203020306)**

Area Summary

Area - Square Miles.....	56.06
Area - Acres.....	36296.71

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	79.00	259.00
Elevation Minimum.....	68.00	223.00
Elevation Average.....	74.00	243.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.44	.79%
Bare.....	.00	-.--%
Water.....	.98	1.75%
Herbaceous.....	.19	.34%
Forest.....	2.40	4.28%
Agri - Crops.....	49.53	88.40%
Agri - pasture.....	2.49	4.44%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.83	1.48%
Bare.....	.47	.84%
Water.....	.79	1.41%
Herbaceous.....	.17	.30%
Forest.....	2.36	4.21%
Agri - Crops.....	49.05	87.54%
Agri - pasture.....	2.36	4.21%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.04	1.86%
Bare.....	.15	.27%
Water.....	.56	1.00%
Herbaceous.....	2.43	4.34%
Forest.....	2.85	5.09%
Agri - Crops.....	48.35	86.31%
Agri - pasture.....	.64	1.14%

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	3.61	7.43	-.--	0.00	46.97	519.04	2.41
FROM Herb	.60	.20	2.41	-.--	6.82	90.92	4.42
Forest	5.62	4.21	22.88	.40	-.--	346.02	10.84
Agri-Crops	240.05	12.44	170.80	1.00	244.06	-.--	13.65
Agri-Pasture	.60	0.00	0.00	3.41	0.00	111.39	-.--