

Watershed Report

Big Creek Ditch-Bayou DeView

0802030205

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 Creek Ditch-Bayou DeView (0802030205)

Area Summary

Area - Square Miles.....	225.69
Area - Acres.....	146140.60

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	161.00	528.00
Elevation Minimum.....	68.00	223.00
Elevation Average.....	90.00	295.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	9.79	4.34%
Bare.....	.07	.03%
Water.....	7.53	3.33%
Herbaceous.....	.87	.39%
Forest.....	65.92	29.19%
Agri - Crops.....	119.95	53.12%
Agri - pasture.....	21.67	9.60%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	18.07	8.00%
Bare.....	1.15	.51%
Water.....	6.09	2.70%
Herbaceous.....	1.12	.50%
Forest.....	54.86	24.29%
Agri - Crops.....	125.07	55.38%
Agri - pasture.....	19.50	8.63%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	18.69	8.11%
Bare.....	.45	.20%
Water.....	5.51	2.39%
Herbaceous.....	9.51	4.13%
Forest.....	58.13	25.22%
Agri - Crops.....	118.66	51.49%

Agri - pasture.....: 14.84 6.44%

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	.60	-.--	0.00	0.00	0.00	6.82	.20
Water	93.53	33.32	-.--	1.40	151.74	1705.84	58.41
FROM Herb	45.36	.60	14.25	-.--	36.53	275.17	28.90
Forest	2462.12	58.41	258.31	89.52	-.--	5330.67	990.11
Agri-Crops	1828.07	26.09	175.22	6.82	397.01	-.--	101.16
Agri-Pasture	1592.84	15.86	64.03	159.56	703.29	211.75	-.--

Sub-Watershed Summary (12 Digit HUC)

Whitsle Ditch-Big Creek Ditch (080203020505)

Area Summary

Area - Square Miles.....	40.30
Area - Acres.....	26094.77

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	111.00	364.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.26	.65%
Bare.....	.00	-.--%
Water.....	1.51	3.75%
Herbaceous.....	.19	.47%
Forest.....	2.68	6.65%
Agri - Crops.....	34.44	85.50%
Agri - pasture.....	1.20	2.98%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.38	.94%
Bare.....	.29	.72%
Water.....	1.09	2.71%
Herbaceous.....	.18	.45%
Forest.....	2.16	5.36%
Agri - Crops.....	35.06	87.06%
Agri - pasture.....	1.11	2.76%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.45	1.12%
Bare.....	.05	.12%
Water.....	.97	2.41%
Herbaceous.....	1.19	2.96%
Forest.....	2.51	6.23%
Agri - Crops.....	34.71	86.19%
Agri - pasture.....	.39	.97%

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	15.86	-.--	0.00	19.27	388.37	3.41
FROM Herb	.40	0.00	.20	-.--	.60	68.84	.20
Forest	5.62	6.02	46.56	1.61	-.--	398.61	13.85
Agri-Crops	60.61	4.42	49.78	.60	37.73	-.--	9.63
Agri-Pasture	1.20	.40	2.01	.80	1.20	85.50	-.--

**Mud Creek-Big Creek Ditch
(080203020501)**

Area Summary

Area - Square Miles.....	43.94
Area - Acres.....	28453.58

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	161.00	528.00
Elevation Minimum.....	87.00	285.00
Elevation Average.....	120.00	394.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.42	.95%
Bare.....	.00	-.--%
Water.....	1.43	3.23%
Herbaceous.....	.15	.34%
Forest.....	25.37	57.29%
Agri - Crops.....	9.74	22.00%
Agri - pasture.....	7.17	16.19%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.62	1.40%
Bare.....	.08	.18%
Water.....	1.58	3.57%
Herbaceous.....	.32	.72%
Forest.....	21.18	47.80%
Agri - Crops.....	13.01	29.36%
Agri - pasture.....	7.52	16.97%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.68	1.54%
Bare.....	.12	.27%
Water.....	1.25	2.82%
Herbaceous.....	3.13	7.07%
Forest.....	21.96	49.58%
Agri - Crops.....	10.68	24.11%
Agri - pasture.....	6.47	14.61%

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	2.21	0.00
Water	1.00	1.40	-.--	.40	53.59	116.01	20.27
FROM Herb	.80	.20	2.21	-.--	15.86	48.17	11.84
Forest	59.21	23.68	56.00	54.99	-.--	2445.86	559.98
Agri-Crops	20.07	.80	20.67	2.21	84.10	-.--	13.45
Agri-Pasture	19.27	6.02	23.28	73.26	384.96	0.00	-.--

**Rogers Bayou-Big Creek Ditch
(080203020503)**

Area Summary

Area - Square Miles.....:	26.70
Area - Acres.....:	17290.73

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	133.00	436.00
Elevation Minimum.....:	74.00	243.00
Elevation Average.....:	97.00	318.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.51	5.63%
Bare.....:	.03	.11%
Water.....:	.65	2.42%
Herbaceous.....:	.09	.34%
Forest.....:	9.73	36.25%
Agri - Crops.....:	9.27	34.54%
Agri - pasture.....:	5.56	20.72%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	4.67	17.39%
Bare.....:	.13	.48%
Water.....:	.68	2.53%
Herbaceous.....:	.16	.60%
Forest.....:	7.47	27.81%
Agri - Crops.....:	9.49	35.33%
Agri - pasture.....:	4.26	15.86%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	4.84	18.03%
Bare.....:	.12	.45%
Water.....:	.65	2.42%
Herbaceous.....:	1.52	5.66%
Forest.....:	8.13	30.28%
Agri - Crops.....:	8.09	30.13%
Agri - pasture.....:	3.50	13.04%

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	.40	-.--	0.00	0.00	0.00	4.21	.20
Water	44.36	1.40	-.--	0.00	32.52	62.22	7.83
FROM Herb	11.84	0.00	.20	-.--	4.62	25.69	6.22
Forest	968.23	7.83	37.73	3.41	-.--	817.90	165.39
Agri-Crops	543.12	6.82	17.86	.40	62.02	-.--	21.07
Agri-Pasture	704.69	7.43	19.87	8.43	169.00	94.53	-.--

**OK Lake-Bayou DeView
(080203020506)**

Area Summary

Area - Square Miles.....:	29.31
Area - Acres.....:	18978.96

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	78.00	256.00
Elevation Minimum.....:	69.00	226.00
Elevation Average.....:	73.00	239.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.20	.68%
Bare.....:	.00	-.--%
Water.....:	1.24	4.24%
Herbaceous.....:	.06	.21%
Forest.....:	9.16	31.33%
Agri - Crops.....:	18.04	61.70%
Agri - pasture.....:	.54	1.85%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.37	1.26%
Bare.....:	.17	.58%
Water.....:	.72	2.46%
Herbaceous.....:	.05	.17%
Forest.....:	8.50	29.06%
Agri - Crops.....:	18.83	64.38%
Agri - pasture.....:	.61	2.09%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.40	1.37%
Bare.....:	.02	.07%
Water.....:	.75	2.57%
Herbaceous.....:	.64	2.19%
Forest.....:	8.94	30.59%
Agri - Crops.....:	18.28	62.54%
Agri - pasture.....:	.20	.68%

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	.40	5.22	-.--	0.00	17.46	457.42	4.82
FROM Herb	0.0	.40	3.81	-.--	2.81	32.92	.20
Forest	1.20	8.03	65.63	0.00	-.--	275.98	37.93
Agri-Crops	95.14	7.43	18.26	0.00	32.52	-.--	11.44
Agri-Pasture	0.0	0.00	0.00	0.00	.60	13.45	-.--

**Lost Creek Ditch
(080203020502)**

Area Summary

Area - Square Miles.....	59.55
Area - Acres.....	38559.32

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	159.00	522.00
Elevation Minimum.....	70.00	230.00
Elevation Average.....	93.00	305.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.88	11.62%
Bare.....	.04	.07%
Water.....	1.60	2.70%
Herbaceous.....	.35	.59%
Forest.....	12.50	21.12%
Agri - Crops.....	31.21	52.73%
Agri - pasture.....	6.61	11.17%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.05	18.67%
Bare.....	.34	.57%
Water.....	1.22	2.06%
Herbaceous.....	.38	.64%
Forest.....	9.53	16.10%
Agri - Crops.....	31.36	52.98%
Agri - pasture.....	5.31	8.97%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	11.29	19.08%
Bare.....	.11	.19%
Water.....	1.13	1.91%
Herbaceous.....	2.42	4.09%
Forest.....	10.30	17.40%
Agri - Crops.....	29.90	50.52%
Agri - pasture.....	4.03	6.81%

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	.40	0.00
Water	38.74	7.63	-.--	1.00	17.86	413.66	19.87
FROM Herb	31.11	0.00	6.82	-.--	9.63	86.51	9.23
Forest	1365.63	10.44	21.88	29.50	-.--	1140.44	188.87
Agri-Crops	870.08	5.02	49.37	3.41	115.61	-.--	32.52
Agri-Pasture	867.07	2.01	18.87	77.07	147.52	18.26	-.--