

# Watershed Report

## Little Bodeau Creek-Bodeau Creek

### 1114020501

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)

### *Little Bodeau Creek-Bodeau Creek (1114020501)*

#### **Area Summary**

Area - Square Miles.....	221.74
Area - Acres.....	143577.16

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	154.00	505.00
Elevation Minimum.....	75.00	246.00
Elevation Average.....	99.00	325.00

#### **Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.95	.88%
Bare.....	.01	.00%
Water.....	.65	.29%
Herbaceous.....	12.91	5.81%
Forest.....	167.92	75.63%
Agri - Crops.....	.02	.01%
Agri - pasture.....	38.58	17.38%

#### **Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.37	1.52%
Bare.....	.25	.11%
Water.....	1.21	.54%
Herbaceous.....	8.47	3.81%
Forest.....	162.30	73.10%
Agri - Crops.....	.88	.40%
Agri - pasture.....	45.54	20.51%

#### **Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.11	1.74%
Bare.....	.16	.07%
Water.....	.71	.30%
Herbaceous.....	24.91	10.57%
Forest.....	158.77	67.37%
Agri - Crops.....	1.47	.62%

Agri - pasture.....: 31.89 13.53%

**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	2.21	11.04	-.--	8.43	93.33	1.00	118.02
FROM Herb	136.48	41.35	12.44	-.--	1480.64	117.21	4955.54
Forest	228.21	20.07	320.53	2235.71	-.--	95.94	4425.67
Agri-Crops	0.0	0.00	0.00	2.61	.80	-.--	7.23
Agri-Pasture	292.84	47.17	17.86	753.67	1325.89	250.69	-.--

# Sub-Watershed Summary (12 Digit HUC)

## White Oak Creek-Bodeau Creek (111402050102)

### Area Summary

Area - Square Miles.....	48.19
Area - Acres.....	31204.00

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	142.00	466.00
Elevation Minimum.....	81.00	266.00
Elevation Average.....	103.00	338.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.30	.61%
Bare.....	.00	-.--%
Water.....	.13	.27%
Herbaceous.....	2.22	4.53%
Forest.....	36.59	74.66%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.77	19.93%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.60	1.22%
Bare.....	.04	.08%
Water.....	.26	.53%
Herbaceous.....	1.64	3.35%
Forest.....	36.29	74.06%
Agri - Crops.....	.17	.35%
Agri - pasture.....	10.00	20.41%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.74	1.51%
Bare.....	.03	.06%
Water.....	.15	.31%
Herbaceous.....	5.58	11.39%
Forest.....	35.47	72.37%
Agri - Crops.....	.25	.51%
Agri - pasture.....	6.79	13.85%

### 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	.20	3.21	-.--	0.00	28.10	0.00	24.89
FROM Herb	16.26	5.02	.40	-.--	327.96	19.67	724.97
Forest	42.95	2.61	80.28	324.75	-.--	14.05	697.27
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	80.08	9.83	2.81	126.45	399.21	63.22	-.--

**Thomas Branch-Bodeau Creek  
(111402050106)**

**Area Summary**

Area - Square Miles.....	42.37
Area - Acres.....	27435.43

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	136.00	446.00
Elevation Minimum.....	75.00	246.00
Elevation Average.....	91.00	298.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.42	.98%
Bare.....	.00	-.--%
Water.....	.08	.19%
Herbaceous.....	1.95	4.57%
Forest.....	35.19	82.45%
Agri - Crops.....	.01	.02%
Agri - pasture.....	5.03	11.79%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.65	1.52%
Bare.....	.04	.09%
Water.....	.21	.49%
Herbaceous.....	1.31	3.07%
Forest.....	34.10	79.86%
Agri - Crops.....	.12	.28%
Agri - pasture.....	6.27	14.68%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.73	1.71%
Bare.....	.01	.02%
Water.....	.06	.14%
Herbaceous.....	4.56	10.68%
Forest.....	33.47	78.40%
Agri - Crops.....	.16	.37%
Agri - pasture.....	3.70	8.67%

**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	1.40	1.20	-.--	1.20	15.05	0.00	18.06
FROM Herb	18.47	5.62	.60	-.--	216.77	15.05	794.01
Forest	43.35	4.01	50.98	327.56	-.--	17.66	670.57
Agri-Crops	0.0	0.00	0.00	2.61	0.00	-.--	6.22
Agri-Pasture	38.34	9.23	.40	94.13	150.13	30.31	-.--

**Flat Bois d'Arc Creek  
(111402050103)**

**Area Summary**

Area - Square Miles.....	24.56
Area - Acres.....	15904.22

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	136.00	446.00
Elevation Minimum.....	82.00	269.00
Elevation Average.....	101.00	331.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.25	1.01%
Bare.....	.01	.04%
Water.....	.06	.24%
Herbaceous.....	2.71	10.95%
Forest.....	15.97	64.55%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	5.74	23.20%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.34	1.38%
Bare.....	.07	.28%
Water.....	.08	.32%
Herbaceous.....	1.12	4.53%
Forest.....	14.64	59.22%
Agri - Crops.....	.15	.61%
Agri - pasture.....	8.32	33.66%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.51	2.06%
Bare.....	.06	.24%
Water.....	.08	.32%
Herbaceous.....	3.22	13.03%
Forest.....	13.77	55.70%
Agri - Crops.....	.38	1.54%
Agri - pasture.....	6.70	27.10%

**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	1.20	-.--	.80	5.22	.60	9.83
FROM Herb	1.61	16.06	6.82	-.--	215.16	27.10	1303.62
Forest	.60	4.01	10.04	238.24	-.--	17.66	1014.79
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	1.81	7.63	4.62	44.56	127.45	35.53	-.--

**Headwaters Little Bodeau Creek  
(111402050104)**

**Area Summary**

Area - Square Miles.....	29.05
Area - Acres.....	18812.05

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	143.00	469.00
Elevation Minimum.....	82.00	269.00
Elevation Average.....	105.00	344.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.30	1.03%
Bare.....	.00	-.--%
Water.....	.14	.48%
Herbaceous.....	1.98	6.82%
Forest.....	17.60	60.59%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.03	31.08%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.50	1.72%
Bare.....	.04	.14%
Water.....	.13	.45%
Herbaceous.....	.92	3.17%
Forest.....	17.20	59.25%
Agri - Crops.....	.20	.69%
Agri - pasture.....	10.04	34.58%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.70	2.41%
Bare.....	.03	.10%
Water.....	.14	.48%
Herbaceous.....	4.07	14.01%
Forest.....	16.54	56.94%
Agri - Crops.....	.35	1.20%
Agri - pasture.....	7.22	24.85%

**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	4.62	-.--	3.01	17.26	0.00	25.29
FROM Herb	10.44	2.21	.60	-.--	210.34	19.87	907.01
Forest	26.69	3.41	25.49	75.27	-.--	19.67	818.50
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	72.86	10.04	5.42	60.82	297.25	69.04	-.--

**Outlet Little Bodeau Creek  
(111402050105)**

**Area Summary**

Area - Square Miles.....:	26.23
Area - Acres.....:	16980.85

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	121.00	397.00
Elevation Minimum.....:	75.00	246.00
Elevation Average.....:	88.00	289.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.23	.88%
Bare.....:	.00	-.--%
Water.....:	.03	.12%
Herbaceous.....:	1.30	5.00%
Forest.....:	20.65	79.36%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	3.81	14.64%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.30	1.15%
Bare.....:	.03	.12%
Water.....:	.28	1.08%
Herbaceous.....:	.89	3.42%
Forest.....:	19.61	75.34%
Agri - Crops.....:	.11	.42%
Agri - pasture.....:	4.81	18.48%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.38	1.46%
Bare.....:	.02	.08%
Water.....:	.03	.12%
Herbaceous.....:	2.73	10.49%
Forest.....:	19.34	74.33%
Agri - Crops.....:	.18	.69%
Agri - pasture.....:	3.34	12.84%

**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	.60	-.--	1.40	7.23	.20	7.83
FROM Herb	1.40	5.02	2.01	-.--	155.95	13.45	532.28
Forest	1.81	2.61	128.25	252.09	-.--	14.85	525.66
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	3.41	6.02	3.41	15.66	122.43	31.51	-.--

**Barbaree Branch  
(111402050101)**

**Area Summary**

Area - Square Miles.....	51.34
Area - Acres.....	33240.61

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	154.00	505.00
Elevation Minimum.....	81.00	266.00
Elevation Average.....	102.00	335.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.45	.89%
Bare.....	.00	-.--%
Water.....	.21	.42%
Herbaceous.....	2.75	5.44%
Forest.....	41.92	82.94%
Agri - Crops.....	.01	.02%
Agri - pasture.....	5.20	10.29%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.98	1.94%
Bare.....	.03	.06%
Water.....	.25	.49%
Herbaceous.....	2.59	5.12%
Forest.....	40.46	80.06%
Agri - Crops.....	.13	.26%
Agri - pasture.....	6.10	12.07%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.05	2.08%
Bare.....	.01	.02%
Water.....	.25	.49%
Herbaceous.....	4.75	9.40%
Forest.....	40.18	79.52%
Agri - Crops.....	.15	.30%
Agri - pasture.....	4.14	8.19%

**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	.20	-.--	2.01	20.47	.20	32.11
FROM Herb	88.31	7.43	2.01	-.--	354.45	22.08	693.66
Forest	112.80	3.41	25.49	1017.80	-.--	12.04	698.87
Agri-Crops	0.0	0.00	0.00	0.00	.80	-.--	1.00
Agri-Pasture	96.34	4.42	1.20	412.06	229.41	21.07	-.--