

# Watershed Report

## North Big Creek-Strawberry River

### 1101001203

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)

### *North Big Creek-Strawberry River (1101001203)*

#### **Area Summary**

Area - Square Miles.....	191.98
Area - Acres.....	124309.45

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	274.00	899.00
Elevation Minimum.....	74.00	243.00
Elevation Average.....	162.00	531.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.91	.99%
Bare.....	.01	.01%
Water.....	.52	.27%
Herbaceous.....	.21	.11%
Forest.....	140.93	73.23%
Agri - Crops.....	.21	.11%
Agri - pasture.....	48.66	25.28%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.97	2.58%
Bare.....	.09	.05%
Water.....	.36	.19%
Herbaceous.....	1.57	.82%
Forest.....	134.05	69.64%
Agri - Crops.....	.75	.39%
Agri - pasture.....	50.69	26.34%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.28	2.69%
Bare.....	.25	.13%
Water.....	.60	.31%
Herbaceous.....	4.05	2.07%
Forest.....	133.20	67.98%
Agri - Crops.....	1.87	.95%

Agri - pasture.....: 47.24 24.11%

**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	.80	-.--	0.00	0.00	.80	0.00	6.02
Water	5.62	0.00	-.--	.20	241.45	.60	45.96
FROM Herb	21.68	0.00	0.00	-.--	48.37	0.00	45.96
Forest	1100.70	4.01	13.05	247.28	-.--	87.11	4102.52
Agri-Crops	18.06	1.00	.60	1.40	68.04	-.--	14.65
Agri-Pasture	911.83	11.84	9.03	414.07	1209.08	319.13	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Hackney Creek-North Big Creek (110100120301)

### Area Summary

Area - Square Miles.....	34.08
Area - Acres.....	22067.27

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	274.00	899.00
Elevation Minimum.....	149.00	489.00
Elevation Average.....	208.00	682.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.13	3.26%
Bare.....	.01	.03%
Water.....	.06	.17%
Herbaceous.....	.07	.20%
Forest.....	16.24	46.81%
Agri - Crops.....	.05	.14%
Agri - pasture.....	17.13	49.38%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.43	9.88%
Bare.....	.06	.17%
Water.....	.07	.20%
Herbaceous.....	.42	1.21%
Forest.....	14.24	41.04%
Agri - Crops.....	.03	.09%
Agri - pasture.....	16.45	47.41%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.60	10.37%
Bare.....	.17	.49%
Water.....	.12	.35%
Herbaceous.....	1.02	2.94%
Forest.....	13.79	39.74%
Agri - Crops.....	.56	1.61%
Agri - pasture.....	15.44	44.50%

### 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	.60	-.--	0.00	0.00	0.00	0.00	2.61
Water	4.42	0.00	-.--	0.00	4.01	0.00	5.42
FROM Herb	16.06	0.00	0.00	-.--	13.85	0.00	12.64
Forest	887.14	1.00	7.63	90.92	-.--	0.00	861.85
Agri-Crops	17.66	1.00	.60	0.00	2.01	-.--	6.42
Agri-Pasture	745.24	5.42	7.02	119.42	274.57	0.00	-.--

**Whaley Creek-Strawberry River  
(110100120304)**

**Area Summary**

Area - Square Miles.....:	37.05
Area - Acres.....:	23992.40

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	246.00	807.00
Elevation Minimum.....:	92.00	302.00
Elevation Average.....:	151.00	495.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.18	.49%
Bare.....:	.00	-.--%
Water.....:	.13	.35%
Herbaceous.....:	.04	.11%
Forest.....:	28.74	78.03%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	7.74	21.02%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.23	.62%
Bare.....:	.00	-.--%
Water.....:	.07	.19%
Herbaceous.....:	.24	.65%
Forest.....:	27.44	74.52%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	8.83	23.98%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.26	.71%
Bare.....:	.01	.03%
Water.....:	.14	.38%
Herbaceous.....:	.77	2.09%
Forest.....:	27.05	73.47%
Agri - Crops.....:	.09	.24%
Agri - pasture.....:	8.50	23.09%

**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	0.0	-.--	0.00	0.00	0.00	0.00	.40
Water	0.0	0.00	-.--	0.00	71.65	0.00	8.03
FROM Herb	0.0	0.00	0.00	-.--	10.24	0.00	8.63
Forest	.80	.60	1.40	35.33	-.--	0.00	894.97
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	.80	.20	.80	63.42	265.54	0.00	-.--

**Mill Creek-Strawberry River  
(110100120305)**

**Area Summary**

Area - Square Miles.....:	23.87
Area - Acres.....:	15456.00

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	234.00	768.00
Elevation Minimum.....:	86.00	282.00
Elevation Average.....:	163.00	535.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.05	.21%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.01	.04%
Forest.....:	21.07	89.43%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	2.43	10.31%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.07	.30%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.08	.34%
Forest.....:	20.63	87.56%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	2.78	11.80%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.07	.30%
Bare.....:	.00	-.--%
Water.....:	.01	.04%
Herbaceous.....:	.28	1.19%
Forest.....:	20.61	87.48%
Agri - Crops.....:	.03	.13%
Agri - pasture.....:	2.56	10.87%

**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	-.--	0.00	1.61	0.00	1.40
FROM Herb	0.0	0.00	0.00	-.--	3.61	0.00	5.02
Forest	0.0	0.00	0.00	3.61	-.--	0.00	286.41
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	0.0	.20	0.00	8.03	72.06	0.00	-.--

**Clayton Creek-Strawberry River  
(110100120307)**

**Area Summary**

Area - Square Miles.....:	29.48
Area - Acres.....:	19088.82

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	203.00	666.00
Elevation Minimum.....:	74.00	243.00
Elevation Average.....:	120.00	394.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.04	.13%
Bare.....:	.00	-.--%
Water.....:	.20	.67%
Herbaceous.....:	.03	.10%
Forest.....:	22.79	75.84%
Agri - Crops.....:	.16	.53%
Agri - pasture.....:	6.83	22.73%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.06	.20%
Bare.....:	.02	.07%
Water.....:	.13	.43%
Herbaceous.....:	.20	.67%
Forest.....:	22.06	73.41%
Agri - Crops.....:	.69	2.30%
Agri - pasture.....:	6.89	22.93%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.12	.40%
Bare.....:	.03	.10%
Water.....:	.17	.57%
Herbaceous.....:	.57	1.90%
Forest.....:	22.35	74.38%
Agri - Crops.....:	.91	3.03%
Agri - pasture.....:	5.90	19.63%

**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>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	0.00	-.--	.20	99.15	.60	14.85
FROM Herb	0.0	0.00	0.00	-.--	7.43	0.00	8.03
Forest	0.0	1.61	3.21	19.47	-.--	87.11	623.61
Agri-Crops	0.0	0.00	0.00	1.40	65.03	-.--	5.42
Agri-Pasture	.20	4.21	1.20	43.35	159.16	319.13	-.--

**Little Creek-North Big Creek  
(110100120302)**

**Area Summary**

Area - Square Miles.....	23.07
Area - Acres.....	14936.93

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	263.00	863.00
Elevation Minimum.....	118.00	387.00
Elevation Average.....	182.00	597.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.29	1.29%
Bare.....	.00	-.--%
Water.....	.01	.04%
Herbaceous.....	.03	.13%
Forest.....	16.52	73.65%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	5.58	24.88%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.89	3.97%
Bare.....	.01	.04%
Water.....	.02	.09%
Herbaceous.....	.30	1.34%
Forest.....	15.35	68.44%
Agri - Crops.....	.01	.04%
Agri - pasture.....	5.85	26.08%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.95	4.24%
Bare.....	.02	.09%
Water.....	.03	.13%
Herbaceous.....	.59	2.63%
Forest.....	15.22	67.86%
Agri - Crops.....	.14	.62%
Agri - pasture.....	5.48	24.43%

**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	.20	-.--	0.00	0.00	0.00	0.00	.40
Water	1.20	0.00	-.--	0.00	4.21	0.00	1.20
FROM Herb	5.62	0.00	0.00	-.--	6.02	0.00	6.02
Forest	212.55	.80	.60	33.32	-.--	0.00	496.96
Agri-Crops	.40	0.00	0.00	0.00	.40	-.--	.60
Agri-Pasture	165.39	1.61	0.00	68.44	177.43	0.00	-.--

**Meeks Branch-Strawberry River  
(110100120306)**

**Area Summary**

Area - Square Miles.....:	22.34
Area - Acres.....:	14465.20

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	249.00	817.00
Elevation Minimum.....:	85.00	279.00
Elevation Average.....:	144.00	472.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.15	.66%
Bare.....:	.00	-.--%
Water.....:	.10	.44%
Herbaceous.....:	.01	.04%
Forest.....:	18.22	80.55%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	4.14	18.30%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.19	.84%
Bare.....:	.00	-.--%
Water.....:	.05	.22%
Herbaceous.....:	.12	.53%
Forest.....:	17.65	77.96%
Agri - Crops.....:	.01	.04%
Agri - pasture.....:	4.62	20.41%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.18	.79%
Bare.....:	.01	.04%
Water.....:	.09	.40%
Herbaceous.....:	.41	1.81%
Forest.....:	17.49	77.22%
Agri - Crops.....:	.09	.40%
Agri - pasture.....:	4.38	19.34%

**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	0.0	-.--	0.00	0.00	0.00	0.00	2.61
Water	0.0	0.00	-.--	0.00	52.59	0.00	9.83
FROM Herb	0.0	0.00	0.00	-.--	3.21	0.00	1.40
Forest	.20	0.00	.20	11.84	-.--	0.00	452.00
Agri-Crops	0.0	0.00	0.00	0.00	.60	-.--	2.21
Agri-Pasture	0.0	.20	0.00	19.87	122.43	0.00	-.--

**Barnes Branch-North Big Creek  
(110100120303)**

**Area Summary**

Area - Square Miles.....	22.09
Area - Acres.....	14302.83

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	256.00	840.00
Elevation Minimum.....	92.00	302.00
Elevation Average.....	164.00	538.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.07	.31%
Bare.....	.00	-.--%
Water.....	.02	.09%
Herbaceous.....	.02	.09%
Forest.....	17.35	77.91%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.81	21.60%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.10	.45%
Bare.....	.00	-.--%
Water.....	.02	.09%
Herbaceous.....	.21	.94%
Forest.....	16.68	74.87%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	5.27	23.65%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.10	.45%
Bare.....	.01	.04%
Water.....	.04	.18%
Herbaceous.....	.41	1.84%
Forest.....	16.69	74.91%
Agri - Crops.....	.05	.22%
Agri - pasture.....	4.98	22.35%

**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	.80	0.00	0.00
Water	0.0	0.00	-.--	0.00	8.23	0.00	5.22
FROM Herb	0.0	0.00	0.00	-.--	4.01	0.00	4.21
Forest	0.0	0.00	0.00	52.79	-.--	0.00	486.72
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	.20	0.00	0.00	91.52	137.89	0.00	-.--