

# Watershed Report

## Upper Cossatot River

### 1114010905

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)

### *Upper Cossatot River (1114010905)*

#### **Area Summary**

Area - Square Miles.....	165.75
Area - Acres.....	107314.98

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....	287.00	941.00
Elevation Minimum.....	86.00	282.00
Elevation Average.....	150.00	492.00

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.57	.95%
Bare.....	.10	.06%
Water.....	.39	.24%
Herbaceous.....	1.04	.63%
Forest.....	126.89	77.08%
Agri - Crops.....	.01	.01%
Agri - pasture.....	34.62	21.03%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.13	3.12%
Bare.....	.41	.25%
Water.....	.41	.25%
Herbaceous.....	4.33	2.63%
Forest.....	124.67	75.72%
Agri - Crops.....	.65	.39%
Agri - pasture.....	29.05	17.64%

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

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	7.73	4.62%
Bare.....	.43	.26%
Water.....	.28	.17%
Herbaceous.....	14.94	8.93%
Forest.....	113.50	67.88%
Agri - Crops.....	1.28	.77%

Agri - pasture.....: 26.48 15.84%

**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	2.41	-.--	.40	1.40	15.86	21.88	14.25
Water	17.66	4.82	-.--	1.61	101.56	1.81	19.47
FROM Herb	37.73	7.83	.40	-.--	230.82	4.01	216.97
Forest	1081.83	158.56	36.53	2236.12	-.--	74.06	1751.80
Agri-Crops	.40	0.00	0.00	0.00	0.00	-.--	.40
Agri-Pasture	1095.48	61.62	45.56	876.90	2602.01	235.83	-.--

# Sub-Watershed Summary (12 Digit HUC)

## Hale Creek-Cossatot River (111401090502)

### Area Summary

Area - Square Miles.....	53.98
Area - Acres.....	34949.52

### Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	245.00	804.00
Elevation Minimum.....	98.00	321.00
Elevation Average.....	141.00	462.00

### Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.18	.34%
Bare.....	.08	.15%
Water.....	.11	.21%
Herbaceous.....	.14	.26%
Forest.....	43.11	81.00%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	9.60	18.04%

### Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.70	1.32%
Bare.....	.11	.21%
Water.....	.12	.23%
Herbaceous.....	1.36	2.56%
Forest.....	42.18	79.27%
Agri - Crops.....	.17	.32%
Agri - pasture.....	8.57	16.11%

### Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.58	2.97%
Bare.....	.11	.21%
Water.....	.08	.15%
Herbaceous.....	5.56	10.45%
Forest.....	36.88	69.30%
Agri - Crops.....	.44	.83%
Agri - pasture.....	8.57	16.10%

### 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	1.20	15.86	19.47	13.65
Water	.40	0.00	-.--	0.00	46.56	0.00	2.81
FROM Herb	.20	.40	0.00	-.--	43.15	0.00	11.44
Forest	133.07	39.34	8.83	758.69	-.--	18.87	474.28
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	77.07	18.87	21.07	152.74	801.44	39.14	-.--

**Bellville Creek-Cossatot River  
(111401090503)**

**Area Summary**

Area - Square Miles.....:	60.34
Area - Acres.....:	39067.14

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	188.00	617.00
Elevation Minimum.....:	86.00	282.00
Elevation Average.....:	118.00	387.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.92	1.54%
Bare.....:	.01	.02%
Water.....:	.19	.32%
Herbaceous.....:	.33	.55%
Forest.....:	42.34	70.93%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	15.90	26.64%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	2.93	4.91%
Bare.....:	.12	.20%
Water.....:	.19	.32%
Herbaceous.....:	1.22	2.04%
Forest.....:	43.21	72.37%
Agri - Crops.....:	.15	.25%
Agri - pasture.....:	11.89	19.91%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	3.82	6.40%
Bare.....:	.21	.35%
Water.....:	.15	.25%
Herbaceous.....:	5.12	8.58%
Forest.....:	40.94	68.58%
Agri - Crops.....:	.31	.52%
Agri - pasture.....:	9.15	15.33%

**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	2.01	-.--	.40	0.00	0.00	.40	.20
Water	16.86	3.81	-.--	1.00	22.68	1.61	5.82
FROM Herb	20.67	.20	0.00	-.--	86.10	1.61	16.26
Forest	537.50	47.57	19.07	573.43	-.--	13.05	475.88
Agri-Crops	.20	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	818.70	19.07	20.87	509.00	1288.56	59.01	-.--

**Carters Creek-Cossatot River  
(111401090501)**

**Area Summary**

Area - Square Miles.....	51.43
Area - Acres.....	33298.32

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	287.00	941.00
Elevation Minimum.....	120.00	394.00
Elevation Average.....	197.00	646.00

**Land Use / Land Cover for 1999**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.47	.91%
Bare.....	.01	.02%
Water.....	.09	.17%
Herbaceous.....	.57	1.10%
Forest.....	41.44	80.14%
Agri - Crops.....	.01	.02%
Agri - pasture.....	9.12	17.64%

**Land Use / Land Cover for 2004**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.50	2.90%
Bare.....	.18	.35%
Water.....	.10	.19%
Herbaceous.....	1.75	3.38%
Forest.....	39.28	75.93%
Agri - Crops.....	.33	.64%
Agri - pasture.....	8.59	16.61%

**Land Use / Land Cover for 2006**

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.33	4.51%
Bare.....	.11	.21%
Water.....	.05	.10%
Herbaceous.....	4.26	8.24%
Forest.....	35.68	68.99%
Agri - Crops.....	.53	1.02%
Agri - pasture.....	8.76	16.94%

**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	.20	0.00	2.01	.40
Water	.40	1.00	-.--	.60	32.31	.20	10.84
FROM Herb	16.86	7.23	.40	-.--	101.56	2.41	189.27
Forest	411.26	71.65	8.63	904.00	-.--	42.15	801.64
Agri-Crops	.20	0.00	0.00	0.00	0.00	-.--	.40
Agri-Pasture	199.71	23.68	3.61	215.16	512.01	137.69	-.--