

Watershed Report

Big Creek-Francois Creek

0804020306

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-Francois Creek (0804020306)

Area Summary

Area - Square Miles.....	143.32
Area - Acres.....	92795.03

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	247.00	810.00
Elevation Minimum.....	58.00	190.00
Elevation Average.....	98.00	321.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.99	1.39%
Bare.....	.01	.01%
Water.....	.51	.36%
Herbaceous.....	4.88	3.42%
Forest.....	123.19	86.23%
Agri - Crops.....	.12	.08%
Agri - pasture.....	12.16	8.51%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.23	3.66%
Bare.....	.07	.05%
Water.....	.75	.52%
Herbaceous.....	4.28	3.00%
Forest.....	116.53	81.56%
Agri - Crops.....	.18	.13%
Agri - pasture.....	15.84	11.09%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	6.86	4.67%
Bare.....	.26	.18%
Water.....	.56	.38%
Herbaceous.....	8.53	5.81%
Forest.....	114.58	77.98%
Agri - Crops.....	.31	.21%

Agri - pasture.....: 11.77 8.01%

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	2.81	-.--	0.00	0.00	.60	0.00	.40
Water	10.44	1.40	-.--	9.43	56.00	.60	19.47
FROM Herb	276.38	7.43	17.06	-.--	787.59	9.63	1453.75
Forest	1457.56	12.04	102.76	1884.47	-.--	28.10	2133.15
Agri-Crops	4.01	.20	.60	5.82	32.72	-.--	10.04
Agri-Pasture	447.58	3.81	12.64	410.65	624.21	19.67	-.--

Sub-Watershed Summary (12 Digit HUC)

Brushy Creek-Francois Creek (080402030601)

Area Summary

Area - Square Miles.....	14.01
Area - Acres.....	9072.68

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	184.00	604.00
Elevation Minimum.....	72.00	236.00
Elevation Average.....	99.00	325.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.20	1.43%
Bare.....	.00	-.--%
Water.....	.04	.29%
Herbaceous.....	.81	5.79%
Forest.....	11.88	84.92%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.06	7.58%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.75	5.35%
Bare.....	.02	.14%
Water.....	.07	.50%
Herbaceous.....	.65	4.64%
Forest.....	10.74	76.66%
Agri - Crops.....	.02	.14%
Agri - pasture.....	1.76	12.56%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.01	7.21%
Bare.....	.05	.36%
Water.....	.05	.36%
Herbaceous.....	.96	6.85%
Forest.....	10.70	76.37%
Agri - Crops.....	.04	.29%
Agri - pasture.....	1.20	8.57%

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	.40	-.--	0.00	0.00	0.00	0.00	0.00
Water	1.81	0.00	-.--	.80	7.83	0.00	3.01
FROM Herb	70.85	1.40	.40	-.--	115.41	1.00	230.01
Forest	250.49	.40	12.04	313.71	-.--	.80	357.47
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	.20
Agri-Pasture	67.04	.40	.60	14.65	57.60	1.81	-.--

**Big Creek-Francois Creek
(080402030604)**

Area Summary

Area - Square Miles.....	27.23
Area - Acres.....	17630.45

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	156.00	512.00
Elevation Minimum.....	58.00	190.00
Elevation Average.....	77.00	253.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.31	1.19%
Bare.....	.00	-.--%
Water.....	.08	.31%
Herbaceous.....	.57	2.18%
Forest.....	23.43	89.60%
Agri - Crops.....	.01	.04%
Agri - pasture.....	1.75	6.69%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.62	2.37%
Bare.....	.01	.04%
Water.....	.10	.38%
Herbaceous.....	.65	2.49%
Forest.....	22.42	85.74%
Agri - Crops.....	.02	.08%
Agri - pasture.....	2.33	8.91%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.74	2.83%
Bare.....	.01	.04%
Water.....	.15	.57%
Herbaceous.....	1.39	5.32%
Forest.....	21.97	84.05%
Agri - Crops.....	.06	.23%
Agri - pasture.....	1.82	6.96%

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	2.21	1.00	-.--	4.01	3.21	0.00	3.01
FROM Herb	41.55	2.21	.60	-.--	83.90	.40	146.52
Forest	116.01	2.81	12.04	307.29	-.--	0.00	333.98
Agri-Crops	0.0	0.00	0.00	.80	2.41	-.--	3.01
Agri-Pasture	54.19	.80	1.61	79.68	52.99	.20	-.--

**Tenmile Creek-Francois Creek
(080402030602)**

Area Summary

Area - Square Miles.....	49.93
Area - Acres.....	32327.52

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	247.00	810.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	114.00	374.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.86	1.70%
Bare.....	.01	.02%
Water.....	.30	.59%
Herbaceous.....	1.40	2.77%
Forest.....	41.94	83.00%
Agri - Crops.....	.04	.08%
Agri - pasture.....	5.98	11.83%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.53	5.01%
Bare.....	.02	.04%
Water.....	.41	.81%
Herbaceous.....	.89	1.76%
Forest.....	40.08	79.35%
Agri - Crops.....	.11	.22%
Agri - pasture.....	6.47	12.81%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.44	6.81%
Bare.....	.14	.28%
Water.....	.22	.44%
Herbaceous.....	2.16	4.28%
Forest.....	39.47	78.13%
Agri - Crops.....	.14	.28%
Agri - pasture.....	4.95	9.80%

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	2.41	-.--	0.00	0.00	.20	0.00	.40
Water	3.81	.20	-.--	.80	29.71	.40	7.63
FROM Herb	87.31	.80	11.24	-.--	250.49	6.42	470.26
Forest	819.30	5.02	57.40	206.33	-.--	25.69	683.62
Agri-Crops	0.0	0.00	0.00	0.00	2.21	-.--	1.81
Agri-Pasture	272.16	1.81	8.23	118.22	342.41	14.65	-.--

**Thunder Branch-Big Creek
(080402030603)**

Area Summary

Area - Square Miles.....	52.15
Area - Acres.....	33764.38

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	163.00	535.00
Elevation Minimum.....	62.00	203.00
Elevation Average.....	94.00	308.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.62	1.19%
Bare.....	.00	-.--%
Water.....	.09	.17%
Herbaceous.....	2.10	4.02%
Forest.....	45.94	88.02%
Agri - Crops.....	.07	.13%
Agri - pasture.....	3.37	6.46%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.33	2.55%
Bare.....	.02	.04%
Water.....	.17	.33%
Herbaceous.....	2.09	4.00%
Forest.....	43.29	82.92%
Agri - Crops.....	.03	.06%
Agri - pasture.....	5.28	10.11%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.67	3.20%
Bare.....	.06	.11%
Water.....	.14	.27%
Herbaceous.....	4.02	7.70%
Forest.....	42.44	81.30%
Agri - Crops.....	.07	.13%
Agri - pasture.....	3.80	7.28%

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	.40	0.00	0.00
Water	2.61	.20	-.--	3.81	15.25	.20	5.82
FROM Herb	76.67	3.01	4.82	-.--	337.80	1.81	606.95
Forest	271.76	3.81	21.28	1057.14	-.--	1.61	758.08
Agri-Crops	4.01	.20	.60	5.02	28.10	-.--	5.02
Agri-Pasture	54.19	.80	2.21	198.10	171.21	3.01	-.--