

Watershed Report

Hudgin Creek

0804020402

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)

Hudgin Creek (0804020402)

Area Summary

Area - Square Miles.....	226.98
Area - Acres.....	146970.68

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	125.00	410.00
Elevation Minimum.....	30.00	98.00
Elevation Average.....	68.00	223.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.63	.72%
Bare.....	.00	--%
Water.....	3.02	1.33%
Herbaceous.....	10.14	4.47%
Forest.....	188.21	83.01%
Agri - Crops.....	.11	.05%
Agri - pasture.....	23.61	10.41%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.07	1.35%
Bare.....	.23	.10%
Water.....	3.50	1.54%
Herbaceous.....	13.84	6.10%
Forest.....	182.96	80.69%
Agri - Crops.....	.09	.04%
Agri - pasture.....	23.05	10.17%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.06	1.29%
Bare.....	.06	.03%
Water.....	2.94	1.24%
Herbaceous.....	22.57	9.52%
Forest.....	185.16	78.12%
Agri - Crops.....	.17	.07%

Agri - pasture.....: 12.78 5.39%

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	.20	0.00
Water	9.83	6.42	-.--	55.80	177.83	0.00	57.80
FROM Herb	152.94	65.23	30.31	-.--	1893.90	6.62	1668.91
Forest	355.46	68.64	232.82	3166.81	-.--	3.81	1893.90
Agri-Crops	0.0	0.00	0.00	50.18	20.67	-.--	1.20
Agri-Pasture	265.94	39.54	43.55	2607.83	1428.06	14.45	-.--

Sub-Watershed Summary (12 Digit HUC)

Hungry Run Creek (080402040204)

Area Summary

Area - Square Miles.....	38.04
Area - Acres.....	24631.26

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	122.00	400.00
Elevation Minimum.....	39.00	128.00
Elevation Average.....	67.00	220.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.23	.56%
Bare.....	.00	-.--%
Water.....	2.41	5.92%
Herbaceous.....	1.80	4.42%
Forest.....	31.82	78.12%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.47	10.97%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.50	1.23%
Bare.....	.01	.02%
Water.....	2.44	5.99%
Herbaceous.....	3.69	9.06%
Forest.....	30.40	74.62%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.70	9.08%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.45	1.10%
Bare.....	.01	.02%
Water.....	2.39	5.87%
Herbaceous.....	5.24	12.87%
Forest.....	30.98	76.06%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.66	4.08%

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	4.62	.60	-.--	15.25	44.36	0.00	18.47
FROM Herb	20.07	3.41	5.22	-.--	280.19	0.00	192.28
Forest	79.08	1.61	82.09	820.10	-.--	0.00	236.84
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	42.35	1.20	12.24	836.36	202.92	.80	-.--

**Sevenmile Creek-Hudgin Creek
(080402040206)**

Area Summary

Area - Square Miles.....:	40.25
Area - Acres.....:	26063.69

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	88.00	289.00
Elevation Minimum.....:	30.00	98.00
Elevation Average.....:	50.00	164.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.21	.54%
Bare.....:	.00	-.--%
Water.....:	.11	.28%
Herbaceous.....:	2.00	5.13%
Forest.....:	33.01	84.62%
Agri - Crops.....:	.06	.15%
Agri - pasture.....:	3.62	9.28%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.28	.72%
Bare.....:	.01	.03%
Water.....:	.13	.33%
Herbaceous.....:	3.42	8.77%
Forest.....:	31.59	80.98%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	3.58	9.18%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.26	.67%
Bare.....:	.00	-.--%
Water.....:	.12	.31%
Herbaceous.....:	4.90	12.56%
Forest.....:	32.15	82.41%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	1.58	4.05%

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	0.0	0.00	-.--	17.46	25.09	0.00	5.42
FROM Herb	4.21	3.81	1.81	-.--	304.28	0.00	289.42
Forest	4.01	4.01	6.82	973.85	-.--	0.00	269.96
Agri-Crops	0.0	0.00	0.00	28.10	11.04	-.--	.60
Agri-Pasture	14.25	1.40	2.21	508.60	175.82	1.00	-.--

**Browning Creek-Hudgin Creek
(080402040202)**

Area Summary

Area - Square Miles.....	45.95
Area - Acres.....	29750.38

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	125.00	410.00
Elevation Minimum.....	51.00	167.00
Elevation Average.....	73.00	239.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.45	.98%
Bare.....	.00	-.--%
Water.....	.18	.39%
Herbaceous.....	1.89	4.14%
Forest.....	36.70	80.32%
Agri - Crops.....	.05	.11%
Agri - pasture.....	6.42	14.05%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.77	1.68%
Bare.....	.10	.22%
Water.....	.28	.61%
Herbaceous.....	1.89	4.14%
Forest.....	36.58	80.04%
Agri - Crops.....	.02	.04%
Agri - pasture.....	6.06	13.26%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.81	1.77%
Bare.....	.02	.04%
Water.....	.15	.33%
Herbaceous.....	3.75	8.21%
Forest.....	37.13	81.27%
Agri - Crops.....	.05	.11%
Agri - pasture.....	3.78	8.27%

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	.20	0.00
Water	.80	2.01	-.--	3.61	37.33	0.00	10.64
FROM Herb	27.70	25.29	5.42	-.--	458.02	1.00	378.54
Forest	58.01	22.88	22.88	288.62	-.--	.80	392.19
Agri-Crops	0.0	0.00	0.00	22.08	7.23	-.--	0.00
Agri-Pasture	61.62	22.28	11.84	419.08	442.57	5.22	-.--

**New Home-Hudgin Creek
(080402040201)**

Area Summary

Area - Square Miles.....	40.18
Area - Acres.....	26018.65

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	94.00	308.00
Elevation Minimum.....	57.00	187.00
Elevation Average.....	75.00	246.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.36	.92%
Bare.....	.00	-.--%
Water.....	.13	.33%
Herbaceous.....	1.53	3.90%
Forest.....	32.46	82.81%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	4.72	12.04%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.69	1.76%
Bare.....	.07	.18%
Water.....	.18	.46%
Herbaceous.....	1.84	4.70%
Forest.....	31.10	79.36%
Agri - Crops.....	.06	.15%
Agri - pasture.....	5.25	13.40%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.71	1.81%
Bare.....	.03	.08%
Water.....	.14	.36%
Herbaceous.....	3.20	8.16%
Forest.....	31.14	79.40%
Agri - Crops.....	.12	.31%
Agri - pasture.....	3.88	9.89%

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	1.00	3.01	-.--	3.01	25.69	0.00	12.44
FROM Herb	48.17	19.87	9.63	-.--	319.13	.40	380.75
Forest	88.31	25.29	22.48	680.41	-.--	.80	621.40
Agri-Crops	0.0	0.00	0.00	0.00	2.41	-.--	.60
Agri-Pasture	64.63	9.83	5.62	331.17	370.31	4.21	-.--

**Twomile Creek-Tenmile Creek
(080402040203)**

Area Summary

Area - Square Miles.....	26.68
Area - Acres.....	17275.73

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	121.00	397.00
Elevation Minimum.....	42.00	138.00
Elevation Average.....	71.00	233.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.14	.53%
Bare.....	.00	-.--%
Water.....	.08	.30%
Herbaceous.....	1.72	6.55%
Forest.....	22.57	85.95%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.75	6.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.37	1.41%
Bare.....	.02	.08%
Water.....	.26	.99%
Herbaceous.....	1.80	6.85%
Forest.....	22.21	84.58%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	1.60	6.09%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.38	1.45%
Bare.....	.00	-.--%
Water.....	.06	.23%
Herbaceous.....	2.36	8.99%
Forest.....	22.76	86.67%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	.70	2.67%

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>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	3.41	0.00	-.--	5.82	20.67	0.00	5.82
FROM Herb	16.06	7.83	3.81	-.--	307.49	0.00	170.60
Forest	103.57	6.02	85.30	270.56	-.--	.20	130.86
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	37.73	3.01	3.21	302.87	101.36	1.81	-.--

**Melton Branch-Hudgin Creek
(080402040205)**

Area Summary

Area - Square Miles.....:	35.88
Area - Acres.....:	23230.97

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	122.00	400.00
Elevation Minimum.....:	44.00	144.00
Elevation Average.....:	70.00	230.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.24	.67%
Bare.....:	.00	-.--%
Water.....:	.11	.31%
Herbaceous.....:	1.20	3.35%
Forest.....:	31.65	88.33%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	2.63	7.34%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.46	1.28%
Bare.....:	.02	.06%
Water.....:	.21	.59%
Herbaceous.....:	1.20	3.35%
Forest.....:	31.08	86.72%
Agri - Crops.....:	.01	.03%
Agri - pasture.....:	2.86	7.98%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.45	1.26%
Bare.....:	.00	-.--%
Water.....:	.08	.22%
Herbaceous.....:	3.12	8.71%
Forest.....:	31.00	86.52%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	1.18	3.29%

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	.80	-.--	10.64	24.69	0.00	5.02
FROM Herb	36.73	5.02	4.42	-.--	224.80	5.22	257.31
Forest	22.48	8.83	13.25	133.27	-.--	2.01	242.66
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	45.36	1.81	8.43	209.74	135.08	1.40	-.--