

Watershed Report

Departee Creek

1101001304

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)

Departee Creek (1101001304)

Area Summary

Area - Square Miles.....	167.67
Area - Acres.....	108562.97

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	275.00	902.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	117.00	384.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.78	1.06%
Bare.....	.00	--%
Water.....	1.81	1.08%
Herbaceous.....	1.01	.60%
Forest.....	88.31	52.64%
Agri - Crops.....	35.71	21.29%
Agri - pasture.....	39.15	23.34%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.34	1.99%
Bare.....	.05	.03%
Water.....	1.36	.81%
Herbaceous.....	1.87	1.11%
Forest.....	88.42	52.70%
Agri - Crops.....	33.57	20.01%
Agri - pasture.....	39.18	23.35%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.16	2.35%
Bare.....	.19	.11%
Water.....	1.72	.97%
Herbaceous.....	4.86	2.75%
Forest.....	91.25	51.54%
Agri - Crops.....	35.68	20.15%

Agri - pasture.....: 29.93 16.91%

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	.40	-.--	0.00	0.00	.80	2.41	.20
Water	8.83	.40	-.--	4.62	156.35	262.53	48.37
FROM Herb	23.48	0.00	4.01	-.--	139.09	150.13	112.60
Forest	376.33	1.00	95.14	198.30	-.--	1157.30	2678.68
Agri-Crops	199.51	3.81	61.22	238.85	2238.52	-.--	412.86
Agri-Pasture	430.52	7.02	6.62	319.33	756.68	764.11	-.--

Sub-Watershed Summary (12 Digit HUC)

Oats Creek-Deartee Creek (110100130404)

Area Summary

Area - Square Miles.....	43.68
Area - Acres.....	28282.38

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	248.00	813.00
Elevation Minimum.....	54.00	177.00
Elevation Average.....	103.00	338.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.79	1.80%
Bare.....	.00	-.--%
Water.....	.92	2.10%
Herbaceous.....	.36	.82%
Forest.....	21.33	48.69%
Agri - Crops.....	9.98	22.78%
Agri - pasture.....	10.43	23.81%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.70	3.88%
Bare.....	.00	-.--%
Water.....	.73	1.67%
Herbaceous.....	.55	1.26%
Forest.....	21.30	48.61%
Agri - Crops.....	9.98	22.77%
Agri - pasture.....	9.56	21.82%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.86	4.25%
Bare.....	.04	.09%
Water.....	.75	1.71%
Herbaceous.....	1.87	4.27%
Forest.....	21.44	48.94%
Agri - Crops.....	10.32	23.56%
Agri - pasture.....	7.53	17.19%

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	.20	-.--	0.00	0.00	.60	.60	0.00
Water	7.43	0.00	-.--	4.62	69.45	103.57	16.46
FROM Herb	19.47	0.00	1.40	-.--	54.79	77.67	22.48
Forest	294.04	0.00	57.60	36.93	-.--	436.95	679.41
Agri-Crops	62.02	.20	18.26	58.01	553.96	-.--	72.06
Agri-Pasture	260.72	.60	5.02	106.38	311.50	351.44	-.--

**Blue Creek-Departee Creek
(110100130403)**

Area Summary

Area - Square Miles.....	46.15
Area - Acres.....	29881.22

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	240.00	787.00
Elevation Minimum.....	56.00	184.00
Elevation Average.....	93.00	305.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.29	.62%
Bare.....	.00	-.--%
Water.....	.72	1.55%
Herbaceous.....	.46	.99%
Forest.....	20.65	44.38%
Agri - Crops.....	15.59	33.51%
Agri - pasture.....	8.82	18.96%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.61	1.31%
Bare.....	.01	.02%
Water.....	.51	1.10%
Herbaceous.....	.73	1.57%
Forest.....	21.60	46.42%
Agri - Crops.....	14.01	30.11%
Agri - pasture.....	9.06	19.47%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.99	2.13%
Bare.....	.05	.11%
Water.....	.77	1.65%
Herbaceous.....	1.34	2.88%
Forest.....	21.93	47.11%
Agri - Crops.....	14.87	31.94%
Agri - pasture.....	6.60	14.18%

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	.20	1.40	0.00
Water	.60	.40	-.--	0.00	57.80	130.86	8.03
FROM Herb	2.01	0.00	2.61	-.--	61.02	41.95	58.61
Forest	24.49	0.00	33.12	67.24	-.--	524.66	388.58
Agri-Crops	125.64	2.01	41.55	130.06	1039.08	-.--	249.08
Agri-Pasture	3.21	.40	.40	102.56	118.42	140.10	-.--

**Piney Creek-Departee Creek
(110100130401)**

Area Summary

Area - Square Miles.....	33.03
Area - Acres.....	21387.08

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	247.00	810.00
Elevation Minimum.....	72.00	236.00
Elevation Average.....	176.00	577.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.26	.79%
Bare.....	.00	-.--%
Water.....	.04	.12%
Herbaceous.....	.01	.03%
Forest.....	23.90	72.34%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	8.83	26.73%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.50	1.51%
Bare.....	.02	.06%
Water.....	.05	.15%
Herbaceous.....	.28	.85%
Forest.....	22.57	68.27%
Agri - Crops.....	.01	.03%
Agri - pasture.....	9.63	29.13%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.60	1.82%
Bare.....	.02	.06%
Water.....	.08	.24%
Herbaceous.....	.74	2.24%
Forest.....	23.08	69.85%
Agri - Crops.....	.13	.39%
Agri - pasture.....	8.39	25.39%

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	.20
Water	.20	0.00	-.--	0.00	9.03	0.00	11.24
FROM Herb	.40	0.00	0.00	-.--	1.40	0.00	5.42
Forest	36.33	1.00	2.01	41.15	-.--	0.00	969.43
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	1.40
Agri-Pasture	122.83	4.82	.60	58.81	129.06	0.00	-.--

**Fife Slough-Depatee Creek
(110100130402)**

Area Summary

Area - Square Miles.....	44.81
Area - Acres.....	29012.29

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	275.00	902.00
Elevation Minimum.....	63.00	207.00
Elevation Average.....	114.00	374.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.44	.99%
Bare.....	.00	-.--%
Water.....	.13	.29%
Herbaceous.....	.18	.41%
Forest.....	22.43	50.53%
Agri - Crops.....	10.14	22.84%
Agri - pasture.....	11.07	24.94%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.53	1.19%
Bare.....	.02	.05%
Water.....	.07	.16%
Herbaceous.....	.31	.70%
Forest.....	22.95	51.71%
Agri - Crops.....	9.57	21.56%
Agri - pasture.....	10.93	24.63%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.71	1.60%
Bare.....	.08	.18%
Water.....	.12	.27%
Herbaceous.....	.91	2.05%
Forest.....	24.80	55.87%
Agri - Crops.....	10.36	23.34%
Agri - pasture.....	7.41	16.69%

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	.20	-.--	0.00	0.00	0.00	.40	0.00
Water	.60	0.00	-.--	0.00	20.07	28.10	12.64
FROM Herb	1.61	0.00	0.00	-.--	21.88	30.51	26.09
Forest	21.48	0.00	2.41	52.99	-.--	195.69	641.27
Agri-Crops	11.84	1.61	1.40	50.78	645.49	-.--	90.32
Agri-Pasture	43.75	1.20	.60	51.58	197.70	272.56	-.--