

Watershed Report

Spavinaw-Eucha Lakes

1107020903

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)

Spavinaw-Eucha Lakes (1107020903)

Area Summary

Area - Square Miles.....	144.14
Area - Acres.....	93336.83

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	442.00	1450.00
Elevation Minimum.....	275.00	902.00
Elevation Average.....	367.00	1204.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	2.54	1.77%
Bare.....	.01	.01%
Water.....	.15	.10%
Herbaceous.....	.04	.03%
Forest.....	59.50	41.42%
Agri - Crops.....	.01	.01%
Agri - pasture.....	81.41	56.67%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.17	2.90%
Bare.....	1.07	.74%
Water.....	.14	.10%
Herbaceous.....	.75	.52%
Forest.....	61.25	42.64%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	76.28	53.10%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.84	3.95%
Bare.....	.62	.42%
Water.....	.20	.14%
Herbaceous.....	5.27	3.56%
Forest.....	59.75	40.38%
Agri - Crops.....	.00	-.--%

Agri - pasture.....: 72.00 48.66%

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	.40	0.00	0.00
Water	5.82	10.84	-.--	.60	15.25	0.00	11.64
FROM Herb	3.81	0.00	.60	-.--	6.82	0.00	10.84
Forest	345.02	250.09	15.66	15.66	-.--	0.00	2316.40
Agri-Crops	.60	2.81	0.00	0.00	2.21	-.--	5.22
Agri-Pasture	514.82	455.01	8.83	90.52	2490.22	0.00	-.--

Sub-Watershed Summary (12 Digit HUC)

Headwaters Spavinaw Creek (110702090302)

Area Summary

Area - Square Miles.....	28.52
Area - Acres.....	18467.37

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	426.00	1397.00
Elevation Minimum.....	319.00	1046.00
Elevation Average.....	389.00	1276.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.35	1.22%
Bare.....	.00	-.--%
Water.....	.01	.03%
Herbaceous.....	.00	-.--%
Forest.....	10.95	38.14%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	17.40	60.61%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.70	2.44%
Bare.....	.16	.56%
Water.....	.01	.03%
Herbaceous.....	.18	.63%
Forest.....	11.79	41.07%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	15.87	55.28%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.99	3.45%
Bare.....	.08	.28%
Water.....	.02	.07%
Herbaceous.....	1.09	3.80%
Forest.....	11.70	40.75%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	14.83	51.65%

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	0.00	0.00	0.00
Water	.60	.60	-.--	.60	0.00	0.00	2.01
FROM Herb	.20	0.00	.20	-.--	.60	0.00	.60
Forest	36.53	36.13	1.00	8.03	-.--	0.00	447.18
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	130.26	72.66	3.01	44.16	598.72	0.00	-.--

**Cherokee Creek
(110702090305)**

Area Summary

Area - Square Miles.....	3.26
Area - Acres.....	2113.61

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	369.00	1210.00
Elevation Minimum.....	334.00	1096.00
Elevation Average.....	360.00	1181.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.05	1.53%
Bare.....	.00	-.--%
Water.....	.00	-.--%
Herbaceous.....	.00	-.--%
Forest.....	.15	4.60%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	3.06	93.87%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.04	1.23%
Bare.....	.03	.92%
Water.....	.00	-.--%
Herbaceous.....	.01	.31%
Forest.....	.25	7.67%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.93	89.88%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.11	3.37%
Bare.....	.02	.61%
Water.....	.00	-.--%
Herbaceous.....	.09	2.76%
Forest.....	.18	5.52%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	2.86	87.73%

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	0.0	0.00	-.--	0.00	0.00	0.00	.40
FROM Herb	.20	0.00	0.00	-.--	0.00	0.00	0.00
Forest	2.41	.20	0.00	0.00	-.--	0.00	19.67
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	1.40	17.26	0.00	3.21	22.28	0.00	-.--

**Beaty Creek
(110702090307)**

Area Summary

Area - Square Miles.....	19.29
Area - Acres.....	12492.55

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	385.00	1263.00
Elevation Minimum.....	305.00	1000.00
Elevation Average.....	342.00	1122.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.30	1.55%
Bare.....	.00	-.--%
Water.....	.01	.05%
Herbaceous.....	.00	-.--%
Forest.....	2.52	13.03%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	16.51	85.37%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	1.40%
Bare.....	.14	.72%
Water.....	.01	.05%
Herbaceous.....	.09	.47%
Forest.....	3.11	16.09%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	15.71	81.27%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.55	2.84%
Bare.....	.09	.47%
Water.....	.02	.10%
Herbaceous.....	.72	3.72%
Forest.....	2.78	14.37%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	15.19	78.50%

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	1.40	-.--	0.00	.20	0.00	2.01
FROM Herb	0.0	0.00	0.00	-.--	0.00	0.00	0.00
Forest	1.00	13.85	.40	2.21	-.--	0.00	244.26
Agri-Crops	0.0	.20	0.00	0.00	0.00	-.--	1.00
Agri-Pasture	2.81	71.85	2.01	2.01	232.42	0.00	-.--

**Upper Spavinaw Creek
(110702090306)**

Area Summary

Area - Square Miles.....	34.09
Area - Acres.....	22072.27

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	438.00	1437.00
Elevation Minimum.....	275.00	902.00
Elevation Average.....	355.00	1164.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.60	1.76%
Bare.....	.00	-.--%
Water.....	.04	.12%
Herbaceous.....	.01	.03%
Forest.....	15.96	46.91%
Agri - Crops.....	.01	.03%
Agri - pasture.....	17.40	51.15%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.06	3.12%
Bare.....	.33	.97%
Water.....	.03	.09%
Herbaceous.....	.16	.47%
Forest.....	16.11	47.37%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	16.32	47.99%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.45	4.26%
Bare.....	.21	.62%
Water.....	.05	.15%
Herbaceous.....	1.13	3.32%
Forest.....	15.73	46.24%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	15.45	45.41%

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	.20	0.00	0.00
Water	.60	3.21	-.--	0.00	8.63	0.00	2.81
FROM Herb	1.20	0.00	0.00	-.--	1.61	0.00	.40
Forest	106.18	74.46	3.01	.40	-.--	0.00	518.23
Agri-Crops	.60	2.61	0.00	0.00	1.00	-.--	3.21
Agri-Pasture	149.93	135.68	1.00	11.24	569.22	0.00	-.--

**South Prong Spavinaw Creek
(110702090301)**

Area Summary

Area - Square Miles.....	17.80
Area - Acres.....	11526.60

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	442.00	1450.00
Elevation Minimum.....	319.00	1046.00
Elevation Average.....	393.00	1289.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.22	1.26%
Bare.....	.00	-.--%
Water.....	.01	.06%
Herbaceous.....	.00	-.--%
Forest.....	9.40	54.02%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	7.77	44.66%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.27	1.55%
Bare.....	.14	.80%
Water.....	.01	.06%
Herbaceous.....	.11	.63%
Forest.....	9.51	54.62%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	7.37	42.33%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.46	2.64%
Bare.....	.07	.40%
Water.....	.01	.06%
Herbaceous.....	.80	4.60%
Forest.....	9.29	53.39%
Agri - Crops.....	.00	-.--%
Agri - pasture.....	6.77	38.91%

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	0.0	-.--	0.00	0.00	0.00	0.00	0.00
Water	0.0	.60	-.--	0.00	1.20	0.00	.40
FROM Herb	0.0	0.00	0.00	-.--	.40	0.00	.60
Forest	2.41	50.38	.20	3.01	-.--	0.00	383.36
Agri-Crops	0.0	0.00	0.00	0.00	.40	-.--	.20
Agri-Pasture	14.65	48.57	.20	20.27	355.66	0.00	-.--

**Spring Branch-Spavinaw Creek
(110702090304)**

Area Summary

Area - Square Miles.....:	20.06
Area - Acres.....:	12991.81

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	401.00	1315.00
Elevation Minimum.....:	290.00	951.00
Elevation Average.....:	353.00	1158.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.15	.75%
Bare.....:	.00	-.--%
Water.....:	.00	-.--%
Herbaceous.....:	.02	.10%
Forest.....:	9.43	47.24%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	10.36	51.90%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.32	1.60%
Bare.....:	.12	.60%
Water.....:	.01	.05%
Herbaceous.....:	.10	.50%
Forest.....:	9.70	48.55%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	9.73	48.70%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.53	2.65%
Bare.....:	.07	.35%
Water.....:	.01	.05%
Herbaceous.....:	.80	4.01%
Forest.....:	9.40	47.07%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	9.16	45.87%

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	.20	-.--	0.00	0.00	.20	0.00	0.00
Water	0.0	.40	-.--	0.00	.60	0.00	0.00
FROM Herb	0.0	0.00	0.00	-.--	2.41	0.00	7.43
Forest	24.49	23.08	.80	1.00	-.--	0.00	353.65
Agri-Crops	0.0	0.00	0.00	0.00	.80	-.--	.80
Agri-Pasture	54.39	56.40	0.00	4.82	381.95	0.00	-.--

**Wolf Creek-Spavinaw Creek
(110702090303)**

Area Summary

Area - Square Miles.....:	21.12
Area - Acres.....:	13672.62

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	437.00	1433.00
Elevation Minimum.....:	304.00	997.00
Elevation Average.....:	370.00	1214.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	.87	4.15%
Bare.....:	.01	.05%
Water.....:	.08	.38%
Herbaceous.....:	.01	.05%
Forest.....:	11.09	52.89%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	8.91	42.49%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.51	7.20%
Bare.....:	.15	.72%
Water.....:	.07	.33%
Herbaceous.....:	.10	.48%
Forest.....:	10.78	51.43%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	8.35	39.84%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....:	1.75	8.35%
Bare.....:	.08	.38%
Water.....:	.09	.43%
Herbaceous.....:	.64	3.05%
Forest.....:	10.67	50.88%
Agri - Crops.....:	.00	-.--%
Agri - pasture.....:	7.74	36.91%

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	0.00	0.00	0.00
Water	4.62	4.62	-.--	0.00	4.62	0.00	4.01
FROM Herb	2.21	0.00	.40	-.--	1.81	0.00	1.81
Forest	172.01	51.98	10.24	1.00	-.--	0.00	350.04
Agri-Crops	0.0	0.00	0.00	0.00	0.00	-.--	0.00
Agri-Pasture	161.37	52.59	2.61	4.82	329.97	0.00	-.--