

Watershed Report

Vache Grasse Creek

1111020102

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)

Vache Grasse Creek (1111020102)

Area Summary

Area - Square Miles.....	113.01
Area - Acres.....	73174.27

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	312.00	1023.00
Elevation Minimum.....	112.00	367.00
Elevation Average.....	178.00	584.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.56	3.14%
Bare.....	.09	.08%
Water.....	1.03	.91%
Herbaceous.....	3.57	3.14%
Forest.....	56.01	49.33%
Agri - Crops.....	.37	.33%
Agri - pasture.....	48.92	43.08%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	12.39	10.91%
Bare.....	.25	.22%
Water.....	1.03	.91%
Herbaceous.....	16.37	14.42%
Forest.....	47.05	41.44%
Agri - Crops.....	.79	.70%
Agri - pasture.....	35.67	31.41%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	16.89	14.33%
Bare.....	.06	.05%
Water.....	.87	.74%
Herbaceous.....	21.78	18.48%
Forest.....	41.98	35.62%
Agri - Crops.....	.60	.51%

Agri - pasture.....: 31.35 26.60%

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	12.44	-.--	0.00	12.44	2.21	4.21	4.82
Water	23.48	3.01	-.--	57.80	41.15	3.61	30.71
FROM Herb	164.58	4.82	7.63	-.--	195.89	15.86	170.40
Forest	3083.72	66.03	114.81	5593.80	-.--	49.58	1271.50
Agri-Crops	30.91	14.25	8.03	57.00	94.94	-.--	4.21
Agri-Pasture	1985.83	45.56	38.74	11927.43	1018.00	311.50	-.--

Sub-Watershed Summary (12 Digit HUC)

Upper Vache Grasse Creek (111102010201)

Area Summary

Area - Square Miles.....	41.57
Area - Acres.....	26916.81

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	312.00	1023.00
Elevation Minimum.....	145.00	476.00
Elevation Average.....	199.00	653.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.68	4.02%
Bare.....	.02	.05%
Water.....	.31	.74%
Herbaceous.....	1.28	3.06%
Forest.....	21.00	50.20%
Agri - Crops.....	.06	.14%
Agri - pasture.....	17.48	41.79%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.35	10.40%
Bare.....	.10	.24%
Water.....	.35	.84%
Herbaceous.....	4.88	11.66%
Forest.....	16.34	39.05%
Agri - Crops.....	.29	.69%
Agri - pasture.....	15.53	37.12%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.88	14.05%
Bare.....	.03	.07%
Water.....	.29	.69%
Herbaceous.....	7.58	18.12%
Forest.....	14.17	33.87%
Agri - Crops.....	.18	.43%
Agri - pasture.....	13.71	32.77%

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	4.21	-.--	0.00	.80	0.00	.80	.40
Water	6.82	1.00	-.--	9.63	18.06	.40	6.82
FROM Herb	69.25	2.81	4.21	-.--	65.43	7.63	106.98
Forest	959.40	36.13	52.39	2649.18	-.--	27.90	690.44
Agri-Crops	20.47	1.00	3.41	.20	.40	-.--	2.01
Agri-Pasture	547.14	15.25	13.85	2120.51	348.43	104.97	-.--

**Middle Vache Grasse Creek
(111102010202)**

Area Summary

Area - Square Miles.....	43.23
Area - Acres.....	27992.68

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	267.00	876.00
Elevation Minimum.....	125.00	410.00
Elevation Average.....	175.00	574.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	1.24	2.85%
Bare.....	.05	.11%
Water.....	.60	1.38%
Herbaceous.....	1.51	3.47%
Forest.....	18.73	43.00%
Agri - Crops.....	.21	.48%
Agri - pasture.....	21.22	48.71%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	4.25	9.76%
Bare.....	.11	.25%
Water.....	.54	1.24%
Herbaceous.....	6.99	16.05%
Forest.....	16.79	38.54%
Agri - Crops.....	.34	.78%
Agri - pasture.....	14.54	33.38%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.76	13.23%
Bare.....	.02	.05%
Water.....	.51	1.17%
Herbaceous.....	8.86	20.34%
Forest.....	15.14	34.76%
Agri - Crops.....	.22	.51%
Agri - pasture.....	13.04	29.94%

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>
FROM Urban	-.--	-.--	-.--	-.--	-.--	-.--	-.--
Bare	6.22	-.--	0.00	10.04	0.00	1.20	3.41
Water	12.24	2.01	-.--	43.96	17.46	3.21	17.26
FROM Herb	56.20	1.40	1.40	-.--	98.55	3.81	40.94
Forest	914.44	22.28	33.72	1629.37	-.--	17.06	436.75
Agri-Crops	3.01	12.85	4.62	7.63	91.72	-.--	.60
Agri-Pasture	718.74	22.08	20.87	6661.78	487.73	145.92	-.--

**Lower Vache Grasse Creek
(111102010203)**

Area Summary

Area - Square Miles.....	28.21
Area - Acres.....	18264.78

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	261.00	856.00
Elevation Minimum.....	112.00	367.00
Elevation Average.....	151.00	495.00

Land Use / Land Cover for 1999

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	.64	2.27%
Bare.....	.02	.07%
Water.....	.12	.43%
Herbaceous.....	.78	2.77%
Forest.....	16.28	57.81%
Agri - Crops.....	.10	.36%
Agri - pasture.....	10.22	36.29%

Land Use / Land Cover for 2004

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	3.79	13.46%
Bare.....	.04	.14%
Water.....	.14	.50%
Herbaceous.....	4.50	15.99%
Forest.....	13.92	49.45%
Agri - Crops.....	.16	.57%
Agri - pasture.....	5.60	19.89%

Land Use / Land Cover for 2006

	<u>Sq. Miles</u>	<u>% of Total</u>
Urban.....	5.25	18.66%
Bare.....	.01	.04%
Water.....	.07	.25%
Herbaceous.....	5.34	18.98%
Forest.....	12.67	45.02%
Agri - Crops.....	.20	.71%
Agri - pasture.....	4.60	16.35%

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	2.01	-.--	0.00	1.61	2.21	2.21	1.00
Water	4.42	0.00	-.--	4.21	5.62	0.00	6.62
FROM Herb	39.14	.60	2.01	-.--	31.91	4.42	22.48
Forest	1209.88	7.63	28.70	1315.26	-.--	4.62	144.31
Agri-Crops	7.43	.40	0.00	49.17	2.81	-.--	1.61
Agri-Pasture	719.95	8.23	4.01	3145.13	181.84	60.61	-.--