

Watershed Report

Lower Lake Hamilton

0804010108

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)

Lower Lake Hamilton (0804010108)

Area Summary

Area - Square Miles.....: 229.55
 Area - Acres.....: 148631.44

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	425.00	1394.00
Elevation Minimum.....:	83.00	272.00
Elevation Average.....:	177.00	581.00

Population Summary

Population Estimate for 1990.....: 51577.00
 Population Density for 1990 (persons/sq mi)...: 224.69
 Population Estimate for 2000.....: 59251.00
 Population Density for 2000 (persons/sq mi)...: 258.12
 Population Percent Change.....: 14.88%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	32.33	14.08%	28.13	12.25%	-12.99%
0-5	21.48	9.36%	2.26	.98%	-89.48%
5-10	33.09	14.42%	12.97	5.65%	-60.80%
10-25	24.41	10.63%	49.96	21.76%	104.67%
25-50	26.93	11.73%	36.12	15.74%	34.13%
50-100	23.99	10.45%	24.45	10.65%	1.92%
100-500	44.27	19.29%	48.78	21.25%	10.19%
500-1000	11.26	4.91%	12.57	5.48%	11.63%
> 1000	11.31	4.93%	13.82	6.02%	22.19%

Sub-Watershed Summary (12 Digit HUC)

Lake Hamilton Dam (080401010806)

Area Summary

Area - Square Miles..... 47.14
Area - Acres..... 30525.82

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	283.00	928.00
Elevation Minimum.....	83.00	272.00
Elevation Average.....	151.00	495.00

Population Summary

Population Estimate for 1990..... 4556.00
Population Density for 1990 (persons/sq mi)... 96.65
Population Estimate for 2000..... 5560.00
Population Density for 2000 (persons/sq mi)... 117.95
Population Percent Change..... 22.04%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	7.81	16.57%	5.09	10.80%	-34.83%
0-5	4.30	9.12%	.24	.51%	-94.42%
5-10	7.20	15.27%	.28	.59%	-96.11%
10-25	4.99	10.59%	13.88	29.44%	178.16%
25-50	8.11	17.20%	11.06	23.46%	36.37%
50-100	5.35	11.35%	4.57	9.69%	-14.58%
100-500	7.62	16.16%	8.93	18.94%	17.19%
500-1000	1.00	2.12%	2.12	4.50%	112.00%
> 1000	.58	1.23%	.80	1.70%	37.93%

**Little Mazarn Creek-Lake Hamilton
(080401010802)**

Area Summary

Area - Square Miles.....: 35.74
 Area - Acres.....: 23142.05

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	399.00	1309.00
Elevation Minimum.....:	119.00	390.00
Elevation Average.....:	181.00	594.00

Population Summary

Population Estimate for 1990.....: 3910.00
 Population Density for 1990 (persons/sq mi)...: 109.40
 Population Estimate for 2000.....: 5352.00
 Population Density for 2000 (persons/sq mi)...: 149.75
 Population Percent Change.....: 36.88%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	2.00	5.60%	1.58	4.42%	-21.00%
0-5	3.02	8.45%	.00	-.--%	-.--%
5-10	3.20	8.95%	.12	.34%	-96.25%
10-25	3.49	9.76%	7.70	21.54%	120.63%
25-50	7.20	20.15%	4.44	12.42%	-38.33%
50-100	3.94	11.02%	5.68	15.89%	44.16%
100-500	11.91	33.32%	15.01	42.00%	26.03%
500-1000	.92	2.57%	.60	1.68%	-34.78%
> 1000	.35	.98%	.90	2.52%	157.14%

**Hot Springs Creek-Lake Hamilton
(080401010804)**

Area Summary

Area - Square Miles.....:	32.11
Area - Acres.....:	20791.37

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	425.00	1394.00
Elevation Minimum.....:	101.00	331.00
Elevation Average.....:	152.00	499.00

Population Summary

Population Estimate for 1990.....:	25760.00
Population Density for 1990 (persons/sq mi)....:	802.24
Population Estimate for 2000.....:	28944.00
Population Density for 2000 (persons/sq mi)....:	901.40
Population Percent Change.....:	12.36%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	6.34	19.74%	6.46	20.12%	1.89%
0-5	.00	-.--%	.00	-.--%	-.--%
5-10	.00	-.--%	.55	1.71%	-.--%
10-25	1.24	3.86%	.16	.50%	-87.10%
25-50	1.05	3.27%	2.13	6.63%	102.86%
50-100	2.04	6.35%	.60	1.87%	-70.59%
100-500	9.61	29.93%	9.07	28.25%	-5.62%
500-1000	5.09	15.85%	5.13	15.98%	.79%
> 1000	6.58	20.49%	7.85	24.45%	19.30%

**Gulpha Creek-Lake Hamilton
(080401010805)**

Area Summary

Area - Square Miles.....	46.09
Area - Acres.....	29840.71

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	424.00	1391.00
Elevation Minimum.....	92.00	302.00
Elevation Average.....	191.00	626.00

Population Summary

Population Estimate for 1990.....	14674.00
Population Density for 1990 (persons/sq mi)...	318.38
Population Estimate for 2000.....	15611.00
Population Density for 2000 (persons/sq mi)...	338.71
Population Percent Change.....	6.39%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	5.29	11.48%	5.88	12.76%	11.15%
0-5	7.45	16.16%	.53	1.15%	-92.89%
5-10	.80	1.74%	5.56	12.06%	595.00%
10-25	3.53	7.66%	4.84	10.50%	37.11%
25-50	3.93	8.53%	2.86	6.21%	-27.23%
50-100	6.73	14.60%	8.87	19.24%	31.80%
100-500	10.66	23.13%	9.07	19.68%	-14.92%
500-1000	3.92	8.51%	4.43	9.61%	13.01%
> 1000	3.40	7.38%	3.68	7.98%	8.24%

**Little Mazarn Creek
(080401010801)**

Area Summary

Area - Square Miles.....: 39.33
 Area - Acres.....: 25465.85

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	376.00	1233.00
Elevation Minimum.....:	137.00	449.00
Elevation Average.....:	201.00	659.00

Population Summary

Population Estimate for 1990.....: 894.00
 Population Density for 1990 (persons/sq mi)...: 22.73
 Population Estimate for 2000.....: 1388.00
 Population Density for 2000 (persons/sq mi)...: 35.29
 Population Percent Change.....: 55.26%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.25	10.81%	1.68	4.27%	-60.47%
0-5	1.94	4.93%	.44	1.12%	-77.32%
5-10	13.16	33.46%	3.93	9.99%	-70.14%
10-25	9.53	24.23%	14.26	36.26%	49.63%
25-50	6.65	16.91%	11.14	28.32%	67.52%
50-100	2.38	6.05%	3.89	9.89%	63.45%
100-500	1.11	2.82%	3.70	9.41%	233.33%
500-1000	.00	-.--%	.00	-.--%	-.--%
> 1000	.00	-.--%	.00	-.--%	-.--%

**Fourche a Loupe Creek-Lake Hamilton
(080401010803)**

Area Summary

Area - Square Miles.....:	29.14
Area - Acres.....:	18865.64

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	392.00	1286.00
Elevation Minimum.....:	121.00	397.00
Elevation Average.....:	191.00	626.00

Population Summary

Population Estimate for 1990.....:	1783.00
Population Density for 1990 (persons/sq mi)....:	61.19
Population Estimate for 2000.....:	2396.00
Population Density for 2000 (persons/sq mi)....:	82.22
Population Percent Change.....:	34.38%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	6.65	22.82%	7.45	25.57%	12.03%
0-5	4.76	16.33%	1.05	3.60%	-77.94%
5-10	8.72	29.92%	2.53	8.68%	-70.99%
10-25	1.63	5.59%	9.12	31.30%	459.51%
25-50	.00	-.--%	4.49	15.41%	-.--%
50-100	3.55	12.18%	.84	2.88%	-76.34%
100-500	3.35	11.50%	2.99	10.26%	-10.75%
500-1000	.32	1.10%	.30	1.03%	-6.25%
> 1000	.40	1.37%	.59	2.02%	47.50%
