

# Watershed Report

## Big Creek-Francois Creek

### 0804020306

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)

### *Big Creek-Francois Creek* *(0804020306)*

#### **Area Summary**

Area - Square Miles.....: 143.32  
 Area - Acres.....: 92795.03

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	247.00	810.00
Elevation Minimum.....:	58.00	190.00
Elevation Average.....:	98.00	321.00

#### **Population Summary**

Population Estimate for 1990.....: 4544.00  
 Population Density for 1990 (persons/sq mi)...: 31.71  
 Population Estimate for 2000.....: 6078.00  
 Population Density for 2000 (persons/sq mi)...: 42.41  
 Population Percent Change.....: 33.76%

#### **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	32.17	22.45%	25.58	17.85%	-20.48%
0-5	10.00	6.98%	9.80	6.84%	-2.00%
5-10	22.97	16.03%	10.60	7.40%	-53.85%
10-25	24.73	17.26%	31.44	21.94%	27.13%
25-50	31.00	21.63%	30.90	21.56%	-.32%
50-100	13.29	9.27%	18.83	13.14%	41.69%
100-500	8.49	5.92%	15.39	10.74%	81.27%
500-1000	.14	.10%	.29	.20%	107.14%
> 1000	.21	.15%	.16	.11%	-23.81%



# Sub-Watershed Summary (12 Digit HUC)

## *Brushy Creek-Francois Creek (080402030601)*

### **Area Summary**

Area - Square Miles.....: 14.01  
 Area - Acres.....: 9072.68

### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	184.00	604.00
Elevation Minimum.....:	72.00	236.00
Elevation Average.....:	99.00	325.00

### **Population Summary**

Population Estimate for 1990.....: 596.00  
 Population Density for 1990 (persons/sq mi)...: 42.54  
 Population Estimate for 2000.....: 786.00  
 Population Density for 2000 (persons/sq mi)...: 56.10  
 Population Percent Change.....: 31.88%

### **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	3.51	25.05%	2.59	18.49%	-26.21%
0-5	.01	.07%	1.77	12.63%	17600.00%
5-10	2.06	14.70%	.00	-.--%	-.--%
10-25	1.36	9.71%	2.26	16.13%	66.18%
25-50	3.01	21.48%	1.93	13.78%	-35.88%
50-100	2.50	17.84%	1.89	13.49%	-24.40%
100-500	1.52	10.85%	3.53	25.20%	132.24%
500-1000	.01	.07%	.02	.14%	100.00%
> 1000	.02	.14%	.03	.21%	50.00%

**Big Creek-Francois Creek  
(080402030604)**

**Area Summary**

Area - Square Miles.....:	<b>27.23</b>
Area - Acres.....:	<b>17630.45</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>156.00</b>	<b>512.00</b>
Elevation Minimum.....:	<b>58.00</b>	<b>190.00</b>
Elevation Average.....:	<b>77.00</b>	<b>253.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>422.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>15.50</b>
Population Estimate for 2000.....:	<b>475.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>17.44</b>
Population Percent Change.....:	<b>12.56%</b>

**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>
<b>0</b>	<b>9.35</b>	<b>34.34%</b>	<b>11.41</b>	<b>41.90%</b>	<b>22.03%</b>
<b>0-5</b>	<b>2.92</b>	<b>10.72%</b>	<b>1.24</b>	<b>4.55%</b>	<b>-57.53%</b>
<b>5-10</b>	<b>3.13</b>	<b>11.49%</b>	<b>.80</b>	<b>2.94%</b>	<b>-74.44%</b>
<b>10-25</b>	<b>7.44</b>	<b>27.32%</b>	<b>9.50</b>	<b>34.89%</b>	<b>27.69%</b>
<b>25-50</b>	<b>2.30</b>	<b>8.45%</b>	<b>1.05</b>	<b>3.86%</b>	<b>-54.35%</b>
<b>50-100</b>	<b>.78</b>	<b>2.86%</b>	<b>1.85</b>	<b>6.79%</b>	<b>137.18%</b>
<b>100-500</b>	<b>.20</b>	<b>.73%</b>	<b>.28</b>	<b>1.03%</b>	<b>40.00%</b>
<b>500-1000</b>	<b>.00</b>	<b>-.--%</b>	<b>.02</b>	<b>.07%</b>	<b>-.--%</b>
<b>&gt; 1000</b>	<b>.04</b>	<b>.15%</b>	<b>.04</b>	<b>.15%</b>	<b>.00%</b>

**Tenmile Creek-Francois Creek  
(080402030602)**

**Area Summary**

Area - Square Miles.....	<b>49.93</b>
Area - Acres.....	<b>32327.52</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	<b>247.00</b>	<b>810.00</b>
Elevation Minimum.....	<b>69.00</b>	<b>226.00</b>
Elevation Average.....	<b>114.00</b>	<b>374.00</b>

**Population Summary**

Population Estimate for 1990.....	<b>2227.00</b>
Population Density for 1990 (persons/sq mi)...	<b>44.60</b>
Population Estimate for 2000.....	<b>3264.00</b>
Population Density for 2000 (persons/sq mi)...	<b>65.37</b>
Population Percent Change.....	<b>46.56%</b>

**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	<b>6.79</b>	<b>13.60%</b>	<b>4.42</b>	<b>8.85%</b>	<b>-34.90%</b>
0-5	<b>2.18</b>	<b>4.37%</b>	<b>2.74</b>	<b>5.49%</b>	<b>25.69%</b>
5-10	<b>7.44</b>	<b>14.90%</b>	<b>1.43</b>	<b>2.86%</b>	<b>-80.78%</b>
10-25	<b>7.82</b>	<b>15.66%</b>	<b>8.95</b>	<b>17.93%</b>	<b>14.45%</b>
25-50	<b>13.73</b>	<b>27.50%</b>	<b>12.49</b>	<b>25.02%</b>	<b>-9.03%</b>
50-100	<b>6.95</b>	<b>13.92%</b>	<b>9.87</b>	<b>19.77%</b>	<b>42.01%</b>
100-500	<b>5.55</b>	<b>11.12%</b>	<b>10.48</b>	<b>20.99%</b>	<b>88.83%</b>
500-1000	<b>.08</b>	<b>.16%</b>	<b>.15</b>	<b>.30%</b>	<b>87.50%</b>
> 1000	<b>.01</b>	<b>.02%</b>	<b>.04</b>	<b>.08%</b>	<b>300.00%</b>

## **Thunder Branch-Big Creek (080402030603)**

### **Area Summary**

Area - Square Miles.....: **52.15**  
 Area - Acres.....: **33764.38**

### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>163.00</b>	<b>535.00</b>
Elevation Minimum.....:	<b>62.00</b>	<b>203.00</b>
Elevation Average.....:	<b>94.00</b>	<b>308.00</b>

### **Population Summary**

Population Estimate for 1990.....: **1299.00**  
 Population Density for 1990 (persons/sq mi)...: **24.91**  
 Population Estimate for 2000.....: **1553.00**  
 Population Density for 2000 (persons/sq mi)...: **29.78**  
 Population Percent Change.....: **19.55%**

### **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>
<b>0</b>	<b>12.52</b>	<b>24.01%</b>	<b>7.16</b>	<b>13.73%</b>	<b>-42.81%</b>
<b>0-5</b>	<b>4.88</b>	<b>9.36%</b>	<b>4.05</b>	<b>7.77%</b>	<b>-17.01%</b>
<b>5-10</b>	<b>10.34</b>	<b>19.83%</b>	<b>8.37</b>	<b>16.05%</b>	<b>-19.05%</b>
<b>10-25</b>	<b>8.11</b>	<b>15.55%</b>	<b>10.73</b>	<b>20.58%</b>	<b>32.31%</b>
<b>25-50</b>	<b>11.96</b>	<b>22.93%</b>	<b>15.44</b>	<b>29.61%</b>	<b>29.10%</b>
<b>50-100</b>	<b>3.05</b>	<b>5.85%</b>	<b>5.22</b>	<b>10.01%</b>	<b>71.15%</b>
<b>100-500</b>	<b>1.21</b>	<b>2.32%</b>	<b>1.11</b>	<b>2.13%</b>	<b>-8.26%</b>
<b>500-1000</b>	<b>.04</b>	<b>.08%</b>	<b>.11</b>	<b>.21%</b>	<b>175.00%</b>
<b>&gt; 1000</b>	<b>.14</b>	<b>.27%</b>	<b>.06</b>	<b>.12%</b>	<b>-57.14%</b>

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