

# Watershed Report

## Big Creek-Dorcheat Bayou

### 1114020301

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-Dorcheat Bayou (1114020301)*

#### **Area Summary**

Area - Square Miles..... 361.96  
 Area - Acres..... 234366.51

#### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	145.00	476.00
Elevation Minimum.....	62.00	203.00
Elevation Average.....	93.00	305.00

#### **Population Summary**

Population Estimate for 1990..... 21237.00  
 Population Density for 1990 (persons/sq mi)... 58.67  
 Population Estimate for 2000..... 20972.00  
 Population Density for 2000 (persons/sq mi)... 57.94  
 Population Percent Change..... -1.25%

#### **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	49.34	13.63%	35.37	9.77%	-28.31%
0-5	65.95	18.22%	73.31	20.25%	11.16%
5-10	64.77	17.89%	67.60	18.68%	4.37%
10-25	105.09	29.03%	105.56	29.16%	.45%
25-50	42.26	11.68%	37.67	10.41%	-10.86%
50-100	20.24	5.59%	27.95	7.72%	38.09%
100-500	13.96	3.86%	13.52	3.74%	-3.15%
500-1000	1.89	.52%	2.80	.77%	48.15%
> 1000	4.07	1.12%	3.79	1.05%	-6.88%



# Sub-Watershed Summary (12 Digit HUC)

## *Brushy Creek-Cypress Creek (111402030101)*

### **Area Summary**

Area - Square Miles.....: 34.73  
 Area - Acres.....: 22488.27

### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	145.00	476.00
Elevation Minimum.....:	84.00	276.00
Elevation Average.....:	105.00	344.00

### **Population Summary**

Population Estimate for 1990.....: 468.00  
 Population Density for 1990 (persons/sq mi)...: 13.48  
 Population Estimate for 2000.....: 468.00  
 Population Density for 2000 (persons/sq mi)...: 13.48  
 Population Percent Change.....: .00%

### **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	8.23	23.70%	5.36	15.43%	-34.87%
0-5	6.84	19.69%	10.57	30.43%	54.53%
5-10	9.85	28.36%	4.65	13.39%	-52.79%
10-25	5.47	15.75%	11.19	32.22%	104.57%
25-50	2.29	6.59%	1.12	3.22%	-51.09%
50-100	.65	1.87%	.63	1.81%	-3.08%
100-500	1.21	3.48%	1.03	2.97%	-14.88%
500-1000	.00	-.--%	.00	-.--%	-.--%
> 1000	.00	-.--%	.00	-.--%	-.--%

**Clear Creek-Dorcheat Bayou  
(111402030103)**

**Area Summary**

Area - Square Miles.....:	<b>21.43</b>
Area - Acres.....:	<b>13873.50</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>134.00</b>	<b>440.00</b>
Elevation Minimum.....:	<b>75.00</b>	<b>246.00</b>
Elevation Average.....:	<b>97.00</b>	<b>318.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>335.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>15.63</b>
Population Estimate for 2000.....:	<b>335.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>15.63</b>
Population Percent Change.....:	<b>.00%</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>2.21</b>	<b>10.31%</b>	<b>2.42</b>	<b>11.29%</b>	<b>9.50%</b>
<b>0-5</b>	<b>3.34</b>	<b>15.59%</b>	<b>3.79</b>	<b>17.69%</b>	<b>13.47%</b>
<b>5-10</b>	<b>3.15</b>	<b>14.70%</b>	<b>6.06</b>	<b>28.28%</b>	<b>92.38%</b>
<b>10-25</b>	<b>12.94</b>	<b>60.38%</b>	<b>9.24</b>	<b>43.12%</b>	<b>-28.59%</b>
<b>25-50</b>	<b>1.60</b>	<b>7.47%</b>	<b>1.22</b>	<b>5.69%</b>	<b>-23.75%</b>
<b>50-100</b>	<b>.13</b>	<b>.61%</b>	<b>.57</b>	<b>2.66%</b>	<b>338.46%</b>
<b>100-500</b>	<b>.11</b>	<b>.51%</b>	<b>.19</b>	<b>.89%</b>	<b>72.73%</b>
<b>500-1000</b>	<b>.00</b>	<b>-.--%</b>	<b>.00</b>	<b>-.--%</b>	<b>-.--%</b>
<b>&gt; 1000</b>	<b>.00</b>	<b>-.--%</b>	<b>.00</b>	<b>-.--%</b>	<b>-.--%</b>

**Beech Creek-Dorcheat Bayou  
(111402030105)**

**Area Summary**

Area - Square Miles.....	<b>49.28</b>
Area - Acres.....	<b>31909.09</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	<b>122.00</b>	<b>400.00</b>
Elevation Minimum.....	<b>69.00</b>	<b>226.00</b>
Elevation Average.....	<b>94.00</b>	<b>308.00</b>

**Population Summary**

Population Estimate for 1990.....	<b>1556.00</b>
Population Density for 1990 (persons/sq mi)...	<b>31.57</b>
Population Estimate for 2000.....	<b>1578.00</b>
Population Density for 2000 (persons/sq mi)...	<b>32.02</b>
Population Percent Change.....	<b>1.41%</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>5.44</b>	<b>11.04%</b>	<b>5.04</b>	<b>10.23%</b>	<b>-7.35%</b>
<b>0-5</b>	<b>15.21</b>	<b>30.86%</b>	<b>10.04</b>	<b>20.37%</b>	<b>-33.99%</b>
<b>5-10</b>	<b>4.81</b>	<b>9.76%</b>	<b>11.64</b>	<b>23.62%</b>	<b>142.00%</b>
<b>10-25</b>	<b>13.16</b>	<b>26.70%</b>	<b>10.76</b>	<b>21.83%</b>	<b>-18.24%</b>
<b>25-50</b>	<b>6.06</b>	<b>12.30%</b>	<b>7.07</b>	<b>14.35%</b>	<b>16.67%</b>
<b>50-100</b>	<b>2.77</b>	<b>5.62%</b>	<b>3.35</b>	<b>6.80%</b>	<b>20.94%</b>
<b>100-500</b>	<b>1.53</b>	<b>3.10%</b>	<b>1.05</b>	<b>2.13%</b>	<b>-31.37%</b>
<b>500-1000</b>	<b>.12</b>	<b>.24%</b>	<b>.14</b>	<b>.28%</b>	<b>16.67%</b>
<b>&gt; 1000</b>	<b>.15</b>	<b>.30%</b>	<b>.15</b>	<b>.30%</b>	<b>.00%</b>

**Chaffin Branch-Big Creek  
(111402030109)**

**Area Summary**

Area - Square Miles.....:	<b>44.10</b>
Area - Acres.....:	<b>28554.81</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>121.00</b>	<b>397.00</b>
Elevation Minimum.....:	<b>62.00</b>	<b>203.00</b>
Elevation Average.....:	<b>82.00</b>	<b>269.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>1155.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>26.19</b>
Population Estimate for 2000.....:	<b>1298.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>29.43</b>
Population Percent Change.....:	<b>12.38%</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	3.75	8.50%	2.07	4.69%	-44.80%
0-5	5.58	12.65%	.89	2.02%	-84.05%
5-10	5.73	12.99%	6.44	14.60%	12.39%
10-25	15.65	35.49%	21.09	47.82%	34.76%
25-50	5.98	13.56%	6.20	14.06%	3.68%
50-100	6.44	14.60%	4.79	10.86%	-25.62%
100-500	.95	2.15%	2.55	5.78%	168.42%
500-1000	.00	-.--%	.02	.05%	-.--%
> 1000	.00	-.--%	.02	.05%	-.--%

**Holly Creek-Dorcheat Bayou  
(111402030110)**

**Area Summary**

Area - Square Miles.....:	<b>52.84</b>
Area - Acres.....:	<b>34215.69</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>124.00</b>	<b>407.00</b>
Elevation Minimum.....:	<b>62.00</b>	<b>203.00</b>
Elevation Average.....:	<b>82.00</b>	<b>269.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>768.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>14.53</b>
Population Estimate for 2000.....:	<b>826.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>15.63</b>
Population Percent Change.....:	<b>7.55%</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>6.25</b>	<b>11.83%</b>	<b>8.93</b>	<b>16.90%</b>	<b>42.88%</b>
<b>0-5</b>	<b>17.21</b>	<b>32.57%</b>	<b>14.63</b>	<b>27.69%</b>	<b>-14.99%</b>
<b>5-10</b>	<b>19.14</b>	<b>36.22%</b>	<b>19.26</b>	<b>36.45%</b>	<b>.63%</b>
<b>10-25</b>	<b>8.43</b>	<b>15.95%</b>	<b>8.26</b>	<b>15.63%</b>	<b>-2.02%</b>
<b>25-50</b>	<b>3.99</b>	<b>7.55%</b>	<b>4.04</b>	<b>7.65%</b>	<b>1.25%</b>
<b>50-100</b>	<b>.64</b>	<b>1.21%</b>	<b>.53</b>	<b>1.00%</b>	<b>-17.19%</b>
<b>100-500</b>	<b>.41</b>	<b>.78%</b>	<b>.49</b>	<b>.93%</b>	<b>19.51%</b>
<b>500-1000</b>	<b>.15</b>	<b>.28%</b>	<b>.07</b>	<b>.13%</b>	<b>-53.33%</b>
<b>&gt; 1000</b>	<b>.05</b>	<b>.09%</b>	<b>.05</b>	<b>.09%</b>	<b>.00%</b>

**Nations Creek  
(111402030107)**

**Area Summary**

Area - Square Miles.....:	<b>26.61</b>
Area - Acres.....:	<b>17227.96</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>127.00</b>	<b>417.00</b>
Elevation Minimum.....:	<b>69.00</b>	<b>226.00</b>
Elevation Average.....:	<b>96.00</b>	<b>315.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>3779.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>142.01</b>
Population Estimate for 2000.....:	<b>3961.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>148.85</b>
Population Percent Change.....:	<b>4.82%</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>2.33</b>	<b>8.76%</b>	<b>2.25</b>	<b>8.46%</b>	<b>-3.43%</b>
<b>0-5</b>	<b>.97</b>	<b>3.65%</b>	<b>.83</b>	<b>3.12%</b>	<b>-14.43%</b>
<b>5-10</b>	<b>.51</b>	<b>1.92%</b>	<b>.93</b>	<b>3.49%</b>	<b>82.35%</b>
<b>10-25</b>	<b>5.94</b>	<b>22.32%</b>	<b>1.00</b>	<b>3.76%</b>	<b>-83.16%</b>
<b>25-50</b>	<b>7.75</b>	<b>29.12%</b>	<b>5.87</b>	<b>22.06%</b>	<b>-24.26%</b>
<b>50-100</b>	<b>4.22</b>	<b>15.86%</b>	<b>9.81</b>	<b>36.87%</b>	<b>132.46%</b>
<b>100-500</b>	<b>3.31</b>	<b>12.44%</b>	<b>4.20</b>	<b>15.78%</b>	<b>26.89%</b>
<b>500-1000</b>	<b>.51</b>	<b>1.92%</b>	<b>.60</b>	<b>2.25%</b>	<b>17.65%</b>
<b>&gt; 1000</b>	<b>.71</b>	<b>2.67%</b>	<b>.74</b>	<b>2.78%</b>	<b>4.23%</b>



**Barlow Branch-Big Creek  
(111402030108)**

**Area Summary**

Area - Square Miles.....: 31.54  
 Area - Acres.....: 20422.61

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....:	121.00	397.00
Elevation Minimum.....:	69.00	226.00
Elevation Average.....:	92.00	302.00

**Population Summary**

Population Estimate for 1990.....: 11093.00  
 Population Density for 1990 (persons/sq mi)...: 351.71  
 Population Estimate for 2000.....: 10535.00  
 Population Density for 2000 (persons/sq mi)...: 334.02  
 Population Percent Change.....: -5.03%

**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	5.57	17.66%	2.37	7.51%	-57.45%
0-5	.50	1.59%	1.29	4.09%	158.00%
5-10	.48	1.52%	2.46	7.80%	412.50%
10-25	7.95	25.21%	8.66	27.46%	8.93%
25-50	5.65	17.91%	4.08	12.94%	-27.79%
50-100	3.45	10.94%	6.05	19.18%	75.36%
100-500	4.68	14.84%	2.90	9.19%	-38.03%
500-1000	1.07	3.39%	1.83	5.80%	71.03%
> 1000	2.88	9.13%	2.59	8.21%	-10.07%

## **Cypress Creek-Dorcheat Bayou (111402030102)**

### **Area Summary**

Area - Square Miles.....: **36.27**  
 Area - Acres.....: **23482.82**

### **Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>136.00</b>	<b>446.00</b>
Elevation Minimum.....:	<b>81.00</b>	<b>266.00</b>
Elevation Average.....:	<b>101.00</b>	<b>331.00</b>

### **Population Summary**

Population Estimate for 1990.....: **493.00**  
 Population Density for 1990 (persons/sq mi)...: **13.59**  
 Population Estimate for 2000.....: **437.00**  
 Population Density for 2000 (persons/sq mi)...: **12.05**  
 Population Percent Change.....: **-11.36%**

### **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>
<b>0</b>	<b>1.92</b>	<b>5.29%</b>	<b>.97</b>	<b>2.67%</b>	<b>-49.48%</b>
<b>0-5</b>	<b>7.21</b>	<b>19.88%</b>	<b>15.50</b>	<b>42.74%</b>	<b>114.98%</b>
<b>5-10</b>	<b>14.23</b>	<b>39.23%</b>	<b>5.52</b>	<b>15.22%</b>	<b>-61.21%</b>
<b>10-25</b>	<b>10.13</b>	<b>27.93%</b>	<b>12.97</b>	<b>35.76%</b>	<b>28.04%</b>
<b>25-50</b>	<b>1.71</b>	<b>4.71%</b>	<b>1.31</b>	<b>3.61%</b>	<b>-23.39%</b>
<b>50-100</b>	<b>1.23</b>	<b>3.39%</b>	<b>.68</b>	<b>1.87%</b>	<b>-44.72%</b>
<b>100-500</b>	<b>.56</b>	<b>1.54%</b>	<b>.05</b>	<b>.14%</b>	<b>-91.07%</b>
<b>500-1000</b>	<b>.00</b>	<b>-.--%</b>	<b>.00</b>	<b>-.--%</b>	<b>-.--%</b>
<b>&gt; 1000</b>	<b>.00</b>	<b>-.--%</b>	<b>.00</b>	<b>-.--%</b>	<b>-.--%</b>

**Green Creek-Big Creek  
(111402030106)**

**Area Summary**

Area - Square Miles.....:	<b>33.79</b>
Area - Acres.....:	<b>21878.03</b>

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	<b>131.00</b>	<b>430.00</b>
Elevation Minimum.....:	<b>84.00</b>	<b>276.00</b>
Elevation Average.....:	<b>104.00</b>	<b>341.00</b>

**Population Summary**

Population Estimate for 1990.....:	<b>1241.00</b>
Population Density for 1990 (persons/sq mi)....:	<b>36.73</b>
Population Estimate for 2000.....:	<b>1261.00</b>
Population Density for 2000 (persons/sq mi)....:	<b>37.32</b>
Population Percent Change.....:	<b>1.61%</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>8.56</b>	<b>25.33%</b>	<b>3.06</b>	<b>9.06%</b>	<b>-64.25%</b>
<b>0-5</b>	<b>.20</b>	<b>.59%</b>	<b>1.86</b>	<b>5.50%</b>	<b>830.00%</b>
<b>5-10</b>	<b>1.43</b>	<b>4.23%</b>	<b>7.35</b>	<b>21.75%</b>	<b>413.99%</b>
<b>10-25</b>	<b>14.53</b>	<b>43.00%</b>	<b>11.70</b>	<b>34.63%</b>	<b>-19.48%</b>
<b>25-50</b>	<b>6.42</b>	<b>19.00%</b>	<b>6.68</b>	<b>19.77%</b>	<b>4.05%</b>
<b>50-100</b>	<b>.41</b>	<b>1.21%</b>	<b>.95</b>	<b>2.81%</b>	<b>131.71%</b>
<b>100-500</b>	<b>1.11</b>	<b>3.28%</b>	<b>1.01</b>	<b>2.99%</b>	<b>-9.01%</b>
<b>500-1000</b>	<b>.04</b>	<b>.12%</b>	<b>.13</b>	<b>.38%</b>	<b>225.00%</b>
<b>&gt; 1000</b>	<b>.28</b>	<b>.83%</b>	<b>.24</b>	<b>.71%</b>	<b>-14.29%</b>

**Town of Jefferson-Dorcheat Bayou  
(111402030104)**

**Area Summary**

Area - Square Miles.....:	31.37
Area - Acres.....:	20313.73

**Elevation Summary**

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	122.00	400.00
Elevation Minimum.....:	73.00	239.00
Elevation Average.....:	90.00	295.00

**Population Summary**

Population Estimate for 1990.....:	349.00
Population Density for 1990 (persons/sq mi)....:	11.13
Population Estimate for 2000.....:	273.00
Population Density for 2000 (persons/sq mi)....:	8.70
Population Percent Change.....:	-21.78%

**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	5.06	16.13%	2.90	9.24%	-42.69%
0-5	8.90	28.37%	13.91	44.34%	56.29%
5-10	5.45	17.37%	3.27	10.42%	-40.00%
10-25	10.88	34.68%	10.70	34.11%	-1.65%
25-50	.81	2.58%	.07	.22%	-91.36%
50-100	.31	.99%	.61	1.94%	96.77%
100-500	.10	.32%	.05	.16%	-50.00%
500-1000	.01	.03%	.01	.03%	.00%
> 1000	.00	-.--%	.00	-.--%	-.--%

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