

# Watershed Report

## Big Creek-Bull Shoals Lake

### 1101000307

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-Bull Shoals Lake (1101000307)*

#### **Area Summary**

|                          |           |
|--------------------------|-----------|
| Area - Square Miles..... | 203.68    |
| Area - Acres.....        | 131874.90 |

#### **Elevation Summary**

|                        | <u>Meters</u> | <u>Feet</u> |
|------------------------|---------------|-------------|
| Elevation Maximun..... | 427.00        | 1401.00     |
| Elevation Minimum..... | 196.00        | 643.00      |
| Elevation Average..... | 266.00        | 872.00      |

#### **Septic Suitability**

|                                | <u>Sq. Miles</u> | <u>% of Total</u> |
|--------------------------------|------------------|-------------------|
| Septic Not Limited.....        | .00              | -.--%             |
| Septic Slightly Limited.....   | 20.06            | 9.86%             |
| Septic Somewhat Limited.....   | .00              | -.--%             |
| Septic Moderately Limited..... | .00              | -.--%             |
| Septic Limited.....            | 9.30             | 4.57%             |
| Septic Very Limited.....       | 149.47           | 73.47%            |
| Septic Not Rated.....          | 24.62            | 12.10%            |

#### **Hydric Soils**

|                           | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------|------------------|-------------------|
| Hydric Soils Yes.....     | .47              | .23%              |
| Hydric Soils No.....      | 178.36           | 87.67%            |
| Hydric Soils Unrated..... | 24.62            | 12.10%            |

#### **Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....                                    | .94              | .46%              |
| Prime Farmland if Drained.....                         | .00              | -.--%             |
| Prime Farmland if Drained and Protected from Flooding: | .00              | -.--%             |

|   |               |               |
|---|---------------|---------------|
| Prime Farmland if Protected from Flooding.....: | .00           | -.--%         |
| Prime Farmland of Statewide Importance.....:    | .00           | -.--%         |
| Not Prime Farmland.....:                        | <b>202.51</b> | <b>99.54%</b> |
| Unrated Farmland.....:                          | .00           | -.--%         |

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# Sub-Watershed Summary (12 Digit HUC)

## Outlet Big Creek-Bull Shoals Lake (110100030706)

### Area Summary

|                           |         |
|---------------------------|---------|
| Area - Square Miles.....: | 7.18    |
| Area - Acres.....:        | 4649.44 |

### Elevation Summary

|                         | <u>Meters</u> | <u>Feet</u> |
|-------------------------|---------------|-------------|
| Elevation Maximum.....: | 293.00        | 961.00      |
| Elevation Minimum.....: | 196.00        | 643.00      |
| Elevation Average.....: | 225.00        | 738.00      |

### Septic Suitability

|                                 | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------------|------------------|-------------------|
| Septic Not Limited.....:        | .00              | -.--%             |
| Septic Slightly Limited.....:   | .31              | 4.31%             |
| Septic Somewhat Limited.....:   | .00              | -.--%             |
| Septic Moderately Limited.....: | .00              | -.--%             |
| Septic Limited.....:            | .23              | 3.20%             |
| Septic Very Limited.....:       | 4.99             | 69.40%            |
| Septic Not Rated.....:          | 1.66             | 23.09%            |

### Hydric Soils

|                            | <u>Sq. Miles</u> | <u>% of Total</u> |
|----------------------------|------------------|-------------------|
| Hydric Soils Yes.....:     | .00              | -.--%             |
| Hydric Soils No.....:      | 5.52             | 76.88%            |
| Hydric Soils Unrated.....: | 1.66             | 23.12%            |

### Soil Productivity

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....:                                   | .00              | -.--%             |
| Prime Farmland if Drained.....:                        | .00              | -.--%             |
| Prime Farmland if Drained and Protected from Flooding: | .00              | -.--%             |
| Prime Farmland if Protected from Flooding.....:        | .00              | -.--%             |
| Prime Farmland of Statewide Importance.....:           | .00              | -.--%             |
| Not Prime Farmland.....:                               | 7.18             | 100.00%           |
| Unrated Farmland.....:                                 | .00              | -.--%             |

**Outlet Shoal Creek  
(110100030703)**

**Area Summary**

|                           |         |
|---------------------------|---------|
| Area - Square Miles.....: | 2.43    |
| Area - Acres.....:        | 1575.60 |

**Elevation Summary**

|                         | <u>Meters</u> | <u>Feet</u> |
|-------------------------|---------------|-------------|
| Elevation Maximun.....: | 260.00        | 853.00      |
| Elevation Minimum.....: | 198.00        | 649.00      |
| Elevation Average.....: | 219.00        | 718.00      |

**Septic Suitability**

|                                 | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------------|------------------|-------------------|
| Septic Not Limited.....:        | .00              | -.--%             |
| Septic Slightly Limited.....:   | .24              | 9.88%             |
| Septic Somewhat Limited.....:   | .00              | -.--%             |
| Septic Moderately Limited.....: | .00              | -.--%             |
| Septic Limited.....:            | .00              | -.--%             |
| Septic Very Limited.....:       | 1.56             | 64.20%            |
| Septic Not Rated.....:          | .63              | 25.93%            |

**Hydric Soils**

|                            | <u>Sq. Miles</u> | <u>% of Total</u> |
|----------------------------|------------------|-------------------|
| Hydric Soils Yes.....:     | .00              | -.--%             |
| Hydric Soils No.....:      | 1.80             | 74.07%            |
| Hydric Soils Unrated.....: | .63              | 25.93%            |

**Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....:                                   | .01              | .41%              |
| Prime Farmland if Drained.....:                        | .00              | -.--%             |
| Prime Farmland if Drained and Protected from Flooding: | .00              | -.--%             |
| Prime Farmland if Protected from Flooding.....:        | .00              | -.--%             |
| Prime Farmland of Statewide Importance.....:           | .00              | -.--%             |
| Not Prime Farmland.....:                               | 2.42             | 99.59%            |
| Unrated Farmland.....:                                 | .00              | -.--%             |

## **Buck Creek-Bull Shoals Lake (110100030707)**

### **Area Summary**

|                           |                 |
|---------------------------|-----------------|
| Area - Square Miles.....: | <b>35.33</b>    |
| Area - Acres.....:        | <b>22872.97</b> |

### **Elevation Summary**

|                         | <u>Meters</u> | <u>Feet</u>    |
|-------------------------|---------------|----------------|
| Elevation Maximun.....: | <b>396.00</b> | <b>1299.00</b> |
| Elevation Minimum.....: | <b>197.00</b> | <b>646.00</b>  |
| Elevation Average.....: | <b>227.00</b> | <b>745.00</b>  |

### **Septic Suitability**

|                                 | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------------|------------------|-------------------|
| Septic Not Limited.....:        | <b>.00</b>       | <b>-.--%</b>      |
| Septic Slightly Limited.....:   | <b>3.61</b>      | <b>10.00%</b>     |
| Septic Somewhat Limited.....:   | <b>.00</b>       | <b>-.--%</b>      |
| Septic Moderately Limited.....: | <b>.00</b>       | <b>-.--%</b>      |
| Septic Limited.....:            | <b>.92</b>       | <b>2.55%</b>      |
| Septic Very Limited.....:       | <b>21.51</b>     | <b>59.58%</b>     |
| Septic Not Rated.....:          | <b>10.06</b>     | <b>27.87%</b>     |

### **Hydric Soils**

|                            | <u>Sq. Miles</u> | <u>% of Total</u> |
|----------------------------|------------------|-------------------|
| Hydric Soils Yes.....:     | <b>.00</b>       | <b>-.--%</b>      |
| Hydric Soils No.....:      | <b>26.04</b>     | <b>72.13%</b>     |
| Hydric Soils Unrated.....: | <b>10.06</b>     | <b>27.87%</b>     |

### **Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....:                                   | <b>.02</b>       | <b>.06%</b>       |
| Prime Farmland if Drained.....:                        | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Drained and Protected from Flooding: | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Protected from Flooding.....:        | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland of Statewide Importance.....:           | <b>.00</b>       | <b>-.--%</b>      |
| Not Prime Farmland.....:                               | <b>36.09</b>     | <b>99.94%</b>     |
| Unrated Farmland.....:                                 | <b>.00</b>       | <b>-.--%</b>      |

## **West Sugarloaf Creek-Bull Shoals Lake (110100030701)**

### **Area Summary**

|                           |          |
|---------------------------|----------|
| Area - Square Miles.....: | 52.75    |
| Area - Acres.....:        | 34153.26 |

### **Elevation Summary**

|                         | <u>Meters</u> | <u>Feet</u> |
|-------------------------|---------------|-------------|
| Elevation Maximun.....: | 427.00        | 1401.00     |
| Elevation Minimum.....: | 198.00        | 649.00      |
| Elevation Average.....: | 288.00        | 945.00      |

### **Septic Suitability**

|                                 | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------------|------------------|-------------------|
| Septic Not Limited.....:        | .00              | -.--%             |
| Septic Slightly Limited.....:   | 3.94             | 7.58%             |
| Septic Somewhat Limited.....:   | .00              | -.--%             |
| Septic Moderately Limited.....: | .00              | -.--%             |
| Septic Limited.....:            | .19              | .37%              |
| Septic Very Limited.....:       | 46.62            | 89.71%            |
| Septic Not Rated.....:          | 1.22             | 2.35%             |

### **Hydric Soils**

|                            | <u>Sq. Miles</u> | <u>% of Total</u> |
|----------------------------|------------------|-------------------|
| Hydric Soils Yes.....:     | .04              | .08%              |
| Hydric Soils No.....:      | 50.71            | 97.58%            |
| Hydric Soils Unrated.....: | 1.22             | 2.35%             |

### **Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....:                                   | .42              | .81%              |
| Prime Farmland if Drained.....:                        | .00              | -.--%             |
| Prime Farmland if Drained and Protected from Flooding: | .00              | -.--%             |
| Prime Farmland if Protected from Flooding.....:        | .00              | -.--%             |
| Prime Farmland of Statewide Importance.....:           | .00              | -.--%             |
| Not Prime Farmland.....:                               | 51.55            | 99.19%            |
| Unrated Farmland.....:                                 | .00              | -.--%             |

## **East Sugarloaf Creek-Bull Shoals Lake (110100030702)**

### **Area Summary**

|                           |                 |
|---------------------------|-----------------|
| Area - Square Miles.....: | <b>56.78</b>    |
| Area - Acres.....:        | <b>36761.85</b> |

### **Elevation Summary**

|                         | <u>Meters</u> | <u>Feet</u>    |
|-------------------------|---------------|----------------|
| Elevation Maximun.....: | <b>411.00</b> | <b>1348.00</b> |
| Elevation Minimum.....: | <b>197.00</b> | <b>646.00</b>  |
| Elevation Average.....: | <b>291.00</b> | <b>954.00</b>  |

### **Septic Suitability**

|                                 | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------------|------------------|-------------------|
| Septic Not Limited.....:        | <b>.00</b>       | <b>-.--%</b>      |
| Septic Slightly Limited.....:   | <b>6.55</b>      | <b>11.65%</b>     |
| Septic Somewhat Limited.....:   | <b>.00</b>       | <b>-.--%</b>      |
| Septic Moderately Limited.....: | <b>.00</b>       | <b>-.--%</b>      |
| Septic Limited.....:            | <b>5.88</b>      | <b>10.46%</b>     |
| Septic Very Limited.....:       | <b>42.58</b>     | <b>75.75%</b>     |
| Septic Not Rated.....:          | <b>1.20</b>      | <b>2.13%</b>      |

### **Hydric Soils**

|                            | <u>Sq. Miles</u> | <u>% of Total</u> |
|----------------------------|------------------|-------------------|
| Hydric Soils Yes.....:     | <b>.43</b>       | <b>.77%</b>       |
| Hydric Soils No.....:      | <b>54.57</b>     | <b>97.10%</b>     |
| Hydric Soils Unrated.....: | <b>1.20</b>      | <b>2.14%</b>      |

### **Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....:                                   | <b>.49</b>       | <b>.87%</b>       |
| Prime Farmland if Drained.....:                        | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Drained and Protected from Flooding: | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Protected from Flooding.....:        | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland of Statewide Importance.....:           | <b>.00</b>       | <b>-.--%</b>      |
| Not Prime Farmland.....:                               | <b>55.71</b>     | <b>99.13%</b>     |
| Unrated Farmland.....:                                 | <b>.00</b>       | <b>-.--%</b>      |

**Big Music Creek-Bull Shoals Lake  
(110100030708)**

**Area Summary**

|                          |                 |
|--------------------------|-----------------|
| Area - Square Miles..... | <b>49.21</b>    |
| Area - Acres.....        | <b>31861.78</b> |

**Elevation Summary**

|                        | <u>Meters</u> | <u>Feet</u>    |
|------------------------|---------------|----------------|
| Elevation Maximun..... | <b>393.00</b> | <b>1289.00</b> |
| Elevation Minimum..... | <b>197.00</b> | <b>646.00</b>  |
| Elevation Average..... | <b>252.00</b> | <b>827.00</b>  |

**Septic Suitability**

|                                | <u>Sq. Miles</u> | <u>% of Total</u> |
|--------------------------------|------------------|-------------------|
| Septic Not Limited.....        | <b>.00</b>       | <b>-.--%</b>      |
| Septic Slightly Limited.....   | <b>5.42</b>      | <b>10.94%</b>     |
| Septic Somewhat Limited.....   | <b>.00</b>       | <b>-.--%</b>      |
| Septic Moderately Limited..... | <b>.00</b>       | <b>-.--%</b>      |
| Septic Limited.....            | <b>2.08</b>      | <b>4.20%</b>      |
| Septic Very Limited.....       | <b>32.21</b>     | <b>64.99%</b>     |
| Septic Not Rated.....          | <b>9.85</b>      | <b>19.87%</b>     |

**Hydric Soils**

|                           | <u>Sq. Miles</u> | <u>% of Total</u> |
|---------------------------|------------------|-------------------|
| Hydric Soils Yes.....     | <b>.00</b>       | <b>-.--%</b>      |
| Hydric Soils No.....      | <b>39.72</b>     | <b>80.13%</b>     |
| Hydric Soils Unrated..... | <b>9.85</b>      | <b>19.87%</b>     |

**Soil Productivity**

|  | <u>Sq. Miles</u> | <u>% of Total</u> |
|--|------------------|-------------------|
| Prime Farmland.....                                    | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Drained.....                         | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Drained and Protected from Flooding: | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland if Protected from Flooding.....         | <b>.00</b>       | <b>-.--%</b>      |
| Prime Farmland of Statewide Importance.....            | <b>.00</b>       | <b>-.--%</b>      |
| Not Prime Farmland.....                                | <b>49.56</b>     | <b>100.00%</b>    |
| Unrated Farmland.....                                  | <b>.00</b>       | <b>-.--%</b>      |

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