LOCATION.--Lat 38°25'17.2", long 92°12'29.7" referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.1, T.42 N., R.12 W., Cole County, MO, Hydrologic Unit 10290111, on downstream bridge pier of State Highway B, 3.8 mi north of St. Thomas, and at mile 34.5.

DRAINAGE AREA.--14,584 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1, 1996 to current year. August 1931 to Sept. 30, 1996, records collected at site 8.6 mi upstream, published as Osage River near St. Thomas (06926500).

GAGE.--Water-stage recorder. Datum of gage is 525.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records good. Considerable regulation by Lake of the Ozarks (06925500), 47.2 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68,800 ft³/s, June 17, gage height, 20.94 ft; minimum discharge, 1,360 ft³/s, Aug. 6, 7, 8, gage height, 2.60 ft.
### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2009, BY WATER YEAR (WY)

<table>
<thead>
<tr>
<th></th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
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<tbody>
<tr>
<td><strong>Mean</strong></td>
<td>6,241</td>
<td>7,094</td>
<td>7,258</td>
<td>10,030</td>
<td>12,400</td>
<td>15,440</td>
<td>16,610</td>
<td>20,860</td>
<td>21,300</td>
<td>14,280</td>
<td>5,864</td>
<td>5,892</td>
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<tr>
<td><strong>Max</strong></td>
<td>41,410</td>
<td>35,360</td>
<td>42,780</td>
<td>43,980</td>
<td>32,230</td>
<td>35,430</td>
<td>47,980</td>
<td>46,510</td>
<td>37,210</td>
<td>49,200</td>
<td>19,670</td>
<td>24,680</td>
</tr>
<tr>
<td><strong>Min</strong></td>
<td>661</td>
<td>583</td>
<td>647</td>
<td>687</td>
<td>2,229</td>
<td>2,384</td>
<td>894</td>
<td>1,334</td>
<td>1,909</td>
<td>2,341</td>
<td>1,127</td>
<td>857</td>
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### SUMMARY STATISTICS

<table>
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<tr>
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<th>Calendar Year 2008</th>
<th>Water Year 2009</th>
<th>Water Years 1996 - 2009</th>
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<tr>
<td><strong>Annual mean</strong></td>
<td>21,920</td>
<td>15,690</td>
<td>11,980</td>
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<tr>
<td><strong>Highest annual mean</strong></td>
<td></td>
<td></td>
<td>22,740 1999</td>
</tr>
<tr>
<td><strong>Lowest annual mean</strong></td>
<td></td>
<td></td>
<td>2,297 2006</td>
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<tr>
<td><strong>Highest daily mean</strong></td>
<td>65,600 Apr 1</td>
<td>65,400 Jun 17</td>
<td>79,600 Jan 6, 2005</td>
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<tr>
<td><strong>Lowest daily mean</strong></td>
<td>1,500 Aug 31</td>
<td>1,370 Aug 6</td>
<td>320 Sep 24, 1999</td>
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<tr>
<td><strong>Annual seven-day minimum</strong></td>
<td>1,650 Dec 9</td>
<td>1,430 Aug 3</td>
<td>486 Nov 8, 2006</td>
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<tr>
<td><strong>Maximum peak flow</strong></td>
<td>68,800 Jun 17</td>
<td>82,600 Jan 6</td>
<td>23.37 Jan 6, 2005</td>
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<tr>
<td><strong>Maximum peak stage</strong></td>
<td>20.94 Jun 17</td>
<td></td>
<td>320 Sep 24, 1999</td>
</tr>
<tr>
<td><strong>Instantaneous low flow</strong></td>
<td>1,360 Aug 6</td>
<td></td>
<td>320 Sep 24, 1999</td>
</tr>
<tr>
<td><strong>Annual runoff (inches)</strong></td>
<td>20.46</td>
<td>14.61</td>
<td>11.17</td>
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<tr>
<td><strong>10 percent exceeds</strong></td>
<td>47,200</td>
<td>34,500</td>
<td>34,700</td>
</tr>
<tr>
<td><strong>50 percent exceeds</strong></td>
<td>21,600</td>
<td>8,990</td>
<td>5,070</td>
</tr>
<tr>
<td><strong>90 percent exceeds</strong></td>
<td>2,210</td>
<td>1,740</td>
<td>675</td>
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</tbody>
</table>

*a Also Aug 7, 8*
PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--


EXTREMES FOR PERIOD OF DAILY RECORD.--

## WATER-QUALITY DATA
### WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 4

[Remark codes: <, less than; >, greater than; E, estimated; M, presence verified but not quantified.]

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Medium name</th>
<th>Instantaneous discharge, ft³/s (00061)</th>
<th>Dissolved oxygen, mg/L (00300)</th>
<th>Dissolved oxygen, percent of saturation (00301)</th>
<th>pH, water, unfltrd field, std units (00400)</th>
<th>Specific conductance, wat unf @ 25 degC (00095)</th>
<th>Temperature, water, deg C (00010)</th>
<th>Dissolved solids dried @ 180degC wat flt mg/L (70300)</th>
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</thead>
<tbody>
<tr>
<td>Oct 20...</td>
<td>0945</td>
<td>Surface water</td>
<td>2,190</td>
<td>7.7</td>
<td>81</td>
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<td>279</td>
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<td>157</td>
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<tr>
<td>Jan 12...</td>
<td>1030</td>
<td>Surface water</td>
<td>4,050</td>
<td>12.8</td>
<td>100</td>
<td>7.5</td>
<td>247</td>
<td>4.1</td>
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<tr>
<td>Mar 09...</td>
<td>1100</td>
<td>Surface water</td>
<td>4,100</td>
<td>13.9</td>
<td>125</td>
<td>8.0</td>
<td>277</td>
<td>9.8</td>
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<tr>
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<td>1101</td>
<td>QC sample - Surface water</td>
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<td>13.9</td>
<td>126</td>
<td>8.0</td>
<td>277</td>
<td>9.8</td>
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<tr>
<td>Jul 04...</td>
<td>1020</td>
<td>Surface water</td>
<td>31,900</td>
<td>9.3</td>
<td>91</td>
<td>7.7</td>
<td>303</td>
<td>13.2</td>
<td>177</td>
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<tr>
<td>Jul 27...</td>
<td>1540</td>
<td>Surface water</td>
<td>2,280</td>
<td>11.8</td>
<td>158</td>
<td>7.5</td>
<td>266</td>
<td>29.6</td>
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<tr>
<td>Sep 02...</td>
<td>1630</td>
<td>Surface water</td>
<td>1,990</td>
<td>8.3</td>
<td>103</td>
<td>7.6</td>
<td>260</td>
<td>25.1</td>
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</tbody>
</table>
## WATER-QUALITY DATA
### WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

**Part 2 of 4**

[Remark codes: \(<\), less than; \(>\), greater than; E, estimated; M, presence verified but not quantified.]

<table>
<thead>
<tr>
<th>Date</th>
<th>Hardness, water, mg/L as CaCO&lt;sub&gt;3&lt;/sub&gt; (00900)</th>
<th>Suspended solids, water, unfltrd mg/L (00530)</th>
<th>Calcium, water, fltrd mg/L (00915)</th>
<th>Magnesium, water, fltrd mg/L (00925)</th>
<th>Potassium, water, fltrd mg/L (00935)</th>
<th>Sodium, water, fltrd mg/L (00930)</th>
<th>Calcium, water, CaCO&lt;sub&gt;3&lt;/sub&gt;(00419)</th>
<th>Bicarbonate, water, unfltrd titr. field, mg/L (00450)</th>
<th>Carbonate, water, unfltrd titr. field, mg/L as CaCO&lt;sub&gt;3&lt;/sub&gt; (00447)</th>
<th>Chloride, water, fltrd mg/L (00940)</th>
<th>Fluoride, water, fltrd mg/L (00950)</th>
<th>Sulfate, water, fltrd mg/L (00945)</th>
<th>Ammonia + org-N, water, mg/L as N (00625)</th>
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</thead>
<tbody>
<tr>
<td>Oct</td>
<td>20...</td>
<td>130</td>
<td>&lt;15</td>
<td>35.8</td>
<td>9.56</td>
<td>3.32</td>
<td>4.79</td>
<td>117</td>
<td>141</td>
<td>.6</td>
<td>5.76</td>
<td>.11</td>
<td>14.5</td>
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<tr>
<td>Jan</td>
<td>12...</td>
<td>--</td>
<td>&lt;15</td>
<td>--</td>
<td>--</td>
<td>--</td>
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</tr>
<tr>
<td>Mar</td>
<td>09...</td>
<td>--</td>
<td>&lt;15</td>
<td>--</td>
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<tr>
<td>May</td>
<td>04...</td>
<td>140</td>
<td>17</td>
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<td>Jul</td>
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</tr>
<tr>
<td>Sep</td>
<td>02...</td>
<td>--</td>
<td>&lt;15</td>
<td>--</td>
<td>--</td>
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<td>--</td>
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## WATER-QUALITY DATA
### WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

**Part 3 of 4**

[Remark codes: \(<\), less than; \(>\), greater than; E, estimated; M, presence verified but not quantified. Microbiology results with a remark code of E are based on non-ideal colony counts.]

<table>
<thead>
<tr>
<th>Date</th>
<th>Ammonia water, fltrd mg/L as N (00608)</th>
<th>Nitrate water, fltrd mg/L as N (00613)</th>
<th>Orthophosphate water, fltrd mg/L as P (00666)</th>
<th>Phosphorus water, fltrd mg/L as P (00665)</th>
<th>Phosphorus water, unfltrd mg/L as P (00661)</th>
<th>E coli, m-modif, MF/col/100 mL (90909)</th>
<th>Fecal coliform, M-FC/100 mL (31623)</th>
<th>Aluminum water, fltrd recoverable µg/L (01015)</th>
<th>Cadmium water, fltrd mg/L (01025)</th>
<th>Cadmium water, unfltrd µg/L (01027)</th>
<th>Copper water, fltrd mg/L (01040)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct</td>
<td>20...</td>
<td>.019</td>
<td>.31</td>
<td>&lt;.002</td>
<td>.035</td>
<td>.04</td>
<td>.04</td>
<td>&gt;400</td>
<td>&gt;300</td>
<td>&lt;4.0</td>
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<tr>
<td>Jan</td>
<td>12...</td>
<td>&lt;.020</td>
<td>.41</td>
<td>E.001</td>
<td>.031</td>
<td>.04</td>
<td>E.04</td>
<td>M</td>
<td>120</td>
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</tr>
<tr>
<td>Mar</td>
<td>09...</td>
<td>&lt;.020</td>
<td>.24</td>
<td>E.002</td>
<td>.031</td>
<td>.04</td>
<td>E.02</td>
<td>E3</td>
<td>E2</td>
<td>--</td>
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</tr>
<tr>
<td>May</td>
<td>04...</td>
<td>&lt;.020</td>
<td>.25</td>
<td>E.006</td>
<td>&lt;.04</td>
<td>.04</td>
<td>E.03</td>
<td>E2</td>
<td>E3</td>
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<tr>
<td>Jul</td>
<td>27...</td>
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<td>.43</td>
<td>.008</td>
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<td>Sep</td>
<td>02...</td>
<td>&lt;.020</td>
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<td>.055</td>
<td>.07</td>
<td>.08</td>
<td>54</td>
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### WATER QUALITY DATA
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 4

[Remark codes: <, less than; >, greater than; E, estimated; M, presence verified but not quantified.]

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<tr>
<th>Date</th>
<th>Iron, water, fltrd, µg/L (01046)</th>
<th>Lead, water, fltrd, µg/L (01049)</th>
<th>Lead, water, unfltrd recover-able, µg/L (01051)</th>
<th>Lithium, water, fltrd, µg/L (01130)</th>
<th>Manganese, water, fltrd, µg/L (01056)</th>
<th>Mercury, water, fltrd, µg/L (71900)</th>
<th>Strontium, water, fltrd, µg/L (01080)</th>
<th>Zinc, water, fltrd, µg/L (01090)</th>
<th>Zinc, water, unfltrd recover-able, µg/L (01092)</th>
<th>Arsenic, water, fltrd, µg/L (01000)</th>
<th>Boron, water, fltrd, µg/L (01020)</th>
<th>Selenium, water, fltrd, µg/L (01145)</th>
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<tbody>
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<td>E3</td>
<td>E.04</td>
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<td>&lt;.010</td>
<td>101</td>
<td>E1.9</td>
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<td>17</td>
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</tr>
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<td>--</td>
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<td>--</td>
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<td>Mar 09...</td>
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<td>Sep 02...</td>
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