

**Table F-10**  
**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**  
**Part I — (expenditures in million nominal dollars)**

|                                   | <b>1970</b>    | <b>1971</b>    | <b>1972</b>    | <b>1973</b>    | <b>1974</b>    | <b>1975</b>    | <b>1976</b>    | <b>1977</b>    | <b>1978</b>    | <b>1979</b>    |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total Primary Energy <sup>d</sup> | 224.8          | 230.3          | 256.4          | 306.4          | 317.1          | 370.8          | 431.0          | 513.1          | 533.8          | 675.3          |
| Coal                              | 1.0            | 0.9            | 0.9            | 1.3            | 2.1            | 1.7            | 1.8            | 1.3            | 2.5            | 2.5            |
| Natural Gas <sup>a</sup>          | 150.9          | 155.8          | 175.6          | 178.3          | 194.1          | 232.0          | 272.2          | 336.5          | 364.0          | 444.6          |
| Total Petroleum                   | 71.5           | 72.3           | 78.6           | 125.6          | 118.7          | 134.3          | 153.5          | 170.6          | 161.7          | 218.1          |
| Distillate Fuel                   | 9.1            | 9.9            | 11.6           | 12.7           | 19.8           | 21.9           | 25.7           | 27.3           | 31.6           | 50.7           |
| Kerosene                          | 0.6            | 0.7            | 0.4            | 0.4            | 0.6            | 0.5            | 0.8            | 0.8            | 0.7            | 1.4            |
| LPG <sup>b</sup>                  | 61.9           | 61.7           | 66.6           | 112.4          | 98.3           | 112.0          | 127.0          | 142.5          | 129.4          | 166.0          |
| Biomass - Wood <sup>c</sup>       | 1.4            | 1.3            | 1.3            | 1.4            | 2.3            | 2.8            | 3.5            | 4.7            | 5.7            | 10.0           |
| Retail Electricity                | 259.5          | 279.6          | 306.8          | 336.6          | 370.1          | 468.8          | 503.6          | 582.6          | 709.9          | 763.1          |
| <b>Total Energy<sup>d</sup></b>   | <b>484.3</b>   | <b>509.9</b>   | <b>563.2</b>   | <b>643.1</b>   | <b>687.1</b>   | <b>839.7</b>   | <b>934.6</b>   | <b>1,095.7</b> | <b>1,243.8</b> | <b>1,438.4</b> |
|                                   | <b>1980</b>    | <b>1981</b>    | <b>1982</b>    | <b>1983</b>    | <b>1984</b>    | <b>1985</b>    | <b>1986</b>    | <b>1987</b>    | <b>1988</b>    | <b>1989</b>    |
| Total Primary Energy <sup>d</sup> | 660.3          | 716.6          | 920.5          | 979.8          | 903.9          | 851.2          | 727.6          | 678.0          | 735.9          | 801.4          |
| Coal                              | 0.6            | 0.7            | 0.5            | 0.9            | 1.1            | 1.4            | 0.8            | 1.7            | 1.3            | 1.7            |
| Natural Gas <sup>a</sup>          | 471.2          | 516.9          | 707.3          | 775.2          | 763.9          | 703.3          | 606.9          | 552.4          | 610.8          | 624.5          |
| Total Petroleum                   | 179.2          | 188.7          | 200.8          | 193.0          | 125.5          | 133.2          | 110.2          | 116.1          | 115.3          | 165.7          |
| Distillate Fuel                   | 49.7           | 66.5           | 51.4           | 29.5           | 35.6           | 33.1           | 24.9           | 19.5           | 18.3           | 18.9           |
| Kerosene                          | 2.6            | 4.2            | 6.8            | 2.7            | 3.7            | 5.4            | 3.6            | 1.9            | 2.1            | 2.6            |
| LPG <sup>b</sup>                  | 126.9          | 118.0          | 142.6          | 160.8          | 86.2           | 94.7           | 81.7           | 94.6           | 94.9           | 144.1          |
| Biomass - Wood <sup>c</sup>       | 9.2            | 10.2           | 11.9           | 10.7           | 13.4           | 13.2           | 9.7            | 7.9            | 8.5            | 9.5            |
| Retail Electricity                | 967.9          | 914.4          | 1,021.8        | 1,236.3        | 1,131.8        | 1,215.3        | 1,386.2        | 1,496.5        | 1,565.0        | 1,545.0        |
| <b>Total Energy<sup>d</sup></b>   | <b>1,628.2</b> | <b>1,630.9</b> | <b>1,942.3</b> | <b>2,216.1</b> | <b>2,035.7</b> | <b>2,066.5</b> | <b>2,113.8</b> | <b>2,174.5</b> | <b>2,300.9</b> | <b>2,346.4</b> |

**Table F-10 (continued)**  
**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**  
**Part I — (expenditures in million nominal dollars)**

|                                   | <b>1990</b>    | <b>1991</b>    | <b>1992</b>    | <b>1993</b>    | <b>1994</b>    | <b>1995</b>    | <b>1996</b>    | <b>1997</b>    | <b>1998</b>    | <b>1999</b>    |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Total Primary Energy <sup>d</sup> | 785.3          | 824.1          | 773.4          | 901.0          | 847.5          | 830.9          | 1,115.7        | 1,100.1        | 886.7          | 923.8          |
| Coal                              | 1.9            | 1.5            | 1.2            | 1.8            | 0.7            | 0.6            | 0.6            | 0.6            | 0.4            | 0.6            |
| Natural Gas <sup>a</sup>          | 603.9          | 620.2          | 595.6          | 720.1          | 665.4          | 645.9          | 818.7          | 843.6          | 727.8          | 712.6          |
| Total Petroleum                   | 164.4          | 187.2          | 162.0          | 167.2          | 170.4          | 173.6          | 283.6          | 245.9          | 150.8          | 202.5          |
| Distillate Fuel                   | 17.4           | 16.9           | 11.1           | 13.2           | 11.9           | 13.6           | 13.0           | 12.4           | 9.8            | 11.0           |
| Kerosene                          | 1.9            | 1.6            | 0.8            | 1.3            | 0.8            | 0.9            | 1.9            | 1.4            | 1.2            | 1.5            |
| LPG <sup>b</sup>                  | 145.1          | 168.8          | 150.1          | 152.7          | 157.7          | 159.1          | 268.7          | 232.1          | 139.7          | 190.0          |
| Biomass - Wood <sup>c</sup>       | 15.1           | 15.1           | 14.5           | 11.9           | 11.0           | 10.7           | 12.8           | 10.0           | 7.7            | 8.1            |
| Retail Electricity                | 1,592.7        | 1,727.7        | 1,583.5        | 1,756.7        | 1,754.4        | 1,842.9        | 1,872.8        | 1,885.0        | 2,001.4        | 1,976.5        |
| <b>Total Energy<sup>d</sup></b>   | <b>2,378.1</b> | <b>2,551.8</b> | <b>2,356.9</b> | <b>2,657.7</b> | <b>2,601.8</b> | <b>2,673.8</b> | <b>2,988.5</b> | <b>2,985.1</b> | <b>2,888.1</b> | <b>2,900.3</b> |
|                                   | <b>2000</b>    | <b>2001</b>    | <b>2002</b>    | <b>2003</b>    | <b>2004</b>    | <b>2005</b>    | <b>2006</b>    | <b>2007</b>    | <b>2008</b>    | <b>2009</b>    |
| Total Primary Energy <sup>d</sup> | 1,171.5        | 1,649.0        | 1,184.7        | 1,397.7        | 1,507.4        | 1,696.2        | 1,697.1        | 1,778.9        | 2,137.8        | 1,785.0        |
| Coal                              | 0.4            | 0.6            | 0.5            | 0.6            | 0.5            | 0.9            | 0.7            | 1.1            | —              | —              |
| Natural Gas <sup>a</sup>          | 906.4          | 1,216.5        | 913.5          | 1,087.1        | 1,209.3        | 1,353.9        | 1,359.4        | 1,363.5        | 1,523.4        | 1,340.5        |
| Total Petroleum                   | 251.6          | 419.4          | 259.1          | 295.4          | 280.6          | 301.1          | 295.8          | 364.0          | 545.0          | 377.9          |
| Distillate Fuel                   | 16.1           | 20.6           | 13.2           | 11.1           | 12.3           | 14.1           | 15.1           | 16.0           | 14.0           | 7.0            |
| Kerosene                          | 3.6            | 4.0            | 2.4            | 4.0            | 5.5            | 6.8            | 7.3            | 6.7            | 2.9            | 3.3            |
| LPG <sup>b</sup>                  | 232.0          | 394.8          | 243.5          | 280.3          | 262.8          | 280.1          | 273.4          | 341.3          | 528.1          | 367.6          |
| Biomass - Wood <sup>c</sup>       | 13.1           | 12.5           | 11.5           | 14.6           | 17.0           | 40.3           | 41.2           | 50.3           | 69.4           | 66.6           |
| Retail Electricity                | 2,083.9        | 2,113.3        | 2,238.1        | 2,186.0        | 2,185.0        | 2,436.9        | 2,519.5        | 2,758.4        | 2,831.6        | 2,924.1        |
| <b>Total Energy<sup>d</sup></b>   | <b>3,255.4</b> | <b>3,762.2</b> | <b>3,422.7</b> | <b>3,583.6</b> | <b>3,692.3</b> | <b>4,133.0</b> | <b>4,216.6</b> | <b>4,537.4</b> | <b>4,969.3</b> | <b>4,709.1</b> |

**Table F-10**

**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**

**Part I — (expenditures in million nominal dollars)**

|                                   | <b>2010</b>     | <b>2011</b>     | <b>2012</b>     | <b>2013</b>     | <b>2014</b>     | <b>2015</b>     | <b>2016</b>    |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Total Primary Energy <sup>d</sup> | R1,713.2        | R1,683.1        | R1,358.5        | R1,573.4        | R1,795.7        | R1,405.7        | 1,193.3        |
| Coal                              | —               | —               | —               | —               | —               | —               | —              |
| Natural Gas <sup>a</sup>          | 1,252.2         | 1,232.6         | 1,018.0         | 1,158.1         | 1,251.0         | 1,107.8         | 954.7          |
| Total Petroleum                   | R391.9          | R365.6          | R252.1          | R295.9          | R426.9          | R237.6          | 197.4          |
| Distillate Fuel                   | 7.1             | 8.6             | 7.2             | 7.1             | 6.4             | 2.7             | 1.7            |
| Kerosene                          | 4.4             | 2.1             | 0.7             | 0.8             | 1.4             | 0.6             | 0.8            |
| LPG <sup>b</sup>                  | 381.0           | 381.2           | 291.8           | 373.0           | 448.3           | 275.8           | N/A            |
| Biomass - Wood <sup>c</sup>       | 69.1            | 85.0            | 88.3            | 119.4           | R117.8          | R60.2           | 7.21           |
| Retail Electricity                | 3,385.6         | 3,502.9         | 3,491.8         | 3,745.0         | 3,807.8         | 3,800.0         | 3,850.7        |
| <b>Total Energy<sup>d</sup></b>   | <b>R5,098.7</b> | <b>R5,186.1</b> | <b>R4,850.3</b> | <b>R5,318.4</b> | <b>R5,603.5</b> | <b>R5,205.6</b> | <b>5,044.0</b> |

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**Table F-10 (continued)**  
**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**  
**Part II — (prices in nominal dollars per million BTU)**

|                                   | <b>1970</b> | <b>1971</b> | <b>1972</b> | <b>1973</b> | <b>1974</b> | <b>1975</b> | <b>1976</b> | <b>1977</b>  | <b>1978</b>  | <b>1979</b>  |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Total Primary Energy <sup>d</sup> | 1.12        | 1.16        | 1.23        | 1.54        | 1.59        | 1.83        | 2.07        | 2.56         | 2.58         | 3.38         |
| Coal                              | 0.86        | 1.04        | 1.05        | 0.77        | 1.40        | 1.72        | 1.63        | 2.00         | 2.04         | 1.88         |
| Natural Gas <sup>a</sup>          | 0.96        | 1.01        | 1.08        | 1.16        | 1.26        | 1.48        | 1.69        | 2.17         | 2.27         | 2.82         |
| Total Petroleum                   | 1.78        | 1.78        | 1.81        | 2.92        | 2.87        | 3.14        | 3.58        | 4.05         | 3.86         | 6.06         |
| Distillate Fuel                   | 1.19        | 1.29        | 1.30        | 1.41        | 2.43        | 2.62        | 2.86        | 3.22         | 3.30         | 4.91         |
| Kerosene                          | 1.43        | 1.56        | 1.58        | 1.83        | 2.78        | 2.88        | 3.15        | 3.66         | 3.89         | 5.36         |
| LPG <sup>b</sup>                  | 1.92        | 1.89        | 1.95        | 3.34        | 2.98        | 3.26        | 3.78        | 4.26         | 4.03         | 6.53         |
| Biomass - Wood <sup>c</sup>       | 0.61        | 0.64        | 0.64        | 0.74        | 1.14        | 1.20        | 1.28        | 1.45         | 1.53         | 2.20         |
| Retail Electricity                | 7.86        | 7.85        | 8.05        | 8.27        | 9.17        | 10.06       | 11.10       | 11.75        | 12.92        | 13.66        |
| <b>Total Energy<sup>d</sup></b>   | <b>2.07</b> | <b>2.18</b> | <b>2.29</b> | <b>2.68</b> | <b>2.87</b> | <b>3.37</b> | <b>3.69</b> | <b>4.38</b>  | <b>4.75</b>  | <b>5.63</b>  |
|                                   | <b>1980</b> | <b>1981</b> | <b>1982</b> | <b>1983</b> | <b>1984</b> | <b>1985</b> | <b>1986</b> | <b>1987</b>  | <b>1988</b>  | <b>1989</b>  |
| Total Primary Energy <sup>d</sup> | 3.78        | 4.50        | 5.53        | 6.18        | 5.87        | 5.56        | 5.01        | 4.82         | 4.86         | 5.13         |
| Coal                              | 1.70        | 1.73        | 1.66        | 2.10        | 2.04        | 1.73        | 1.54        | 1.37         | 1.25         | 1.43         |
| Natural Gas <sup>a</sup>          | 3.23        | 3.96        | 5.11        | 5.96        | 5.75        | 5.40        | 4.98        | 4.71         | 4.73         | 4.80         |
| Total Petroleum                   | 7.01        | 7.43        | 8.16        | 7.67        | 7.43        | 7.38        | 5.67        | 6.03         | 6.35         | 7.68         |
| Distillate Fuel                   | 6.85        | 8.12        | 7.84        | 7.22        | 7.08        | 6.70        | 4.95        | 4.66         | 4.71         | 5.88         |
| Kerosene                          | 7.95        | 9.73        | 9.73        | 6.80        | 8.07        | 10.06       | 11.02       | 6.39         | 6.27         | 6.79         |
| LPG <sup>b</sup>                  | 7.06        | 7.04        | 8.21        | 7.78        | 7.56        | 7.53        | 5.81        | 6.41         | 6.82         | 8.02         |
| Biomass - Wood <sup>c</sup>       | 3.06        | 3.77        | 3.66        | 3.54        | 3.60        | 3.46        | 2.78        | 2.65         | 2.67         | 2.95         |
| Retail Electricity                | 15.21       | 16.30       | 17.92       | 19.07       | 17.94       | 19.27       | 20.87       | 21.59        | 21.49        | 21.50        |
| <b>Total Energy<sup>d</sup></b>   | <b>6.83</b> | <b>7.58</b> | <b>8.69</b> | <b>9.92</b> | <b>9.38</b> | <b>9.56</b> | <b>9.98</b> | <b>10.35</b> | <b>10.26</b> | <b>10.29</b> |

**Table F-10 (continued)**  
**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**  
**Part II — (prices in nominal dollars per million BTU)**

|                                   | <b>1990</b>  | <b>1991</b>  | <b>1992</b>  | <b>1993</b>  | <b>1994</b>  | <b>1995</b>  | <b>1996</b>  | <b>1997</b>  | <b>1998</b>  | <b>1999</b>  |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Total Primary Energy <sup>d</sup> | 5.60         | 5.51         | 5.35         | 5.51         | 5.63         | 5.39         | 6.43         | 6.86         | 6.55         | 6.43         |
| Coal                              | 1.56         | 1.53         | 1.33         | 1.72         | 0.98         | 0.95         | 1.04         | 0.97         | 1.01         | 1.01         |
| Natural Gas <sup>a</sup>          | 5.15         | 5.09         | 5.10         | 5.35         | 5.40         | 5.13         | 5.90         | 6.55         | 6.50         | 6.28         |
| Total Petroleum                   | 9.31         | 8.33         | 7.31         | 7.04         | 7.48         | 7.31         | 9.31         | 8.84         | 7.40         | 7.57         |
| Distillate Fuel                   | 7.27         | 6.75         | 5.36         | 5.46         | 6.33         | 5.34         | 6.76         | 6.84         | 5.75         | 6.19         |
| Kerosene                          | 11.50        | 7.47         | 7.08         | 6.24         | 5.96         | 4.93         | 5.96         | 5.58         | 4.28         | 4.85         |
| LPG <sup>b</sup>                  | 9.61         | 8.54         | 7.52         | 7.23         | 7.59         | 7.57         | 9.52         | 9.02         | 7.60         | 7.70         |
| Biomass - Wood <sup>c</sup>       | 3.56         | 3.41         | 3.12         | 3.05         | 2.96         | 2.90         | 3.32         | 3.31         | 2.87         | 2.94         |
| Retail Electricity                | 21.56        | 21.65        | 21.80        | 21.29        | 21.37        | 21.26        | 20.75        | 20.77        | 20.75        | 20.86        |
| <b>Total Energy<sup>d</sup></b>   | <b>11.10</b> | <b>11.12</b> | <b>10.85</b> | <b>10.81</b> | <b>11.18</b> | <b>11.11</b> | <b>11.33</b> | <b>11.89</b> | <b>12.46</b> | <b>12.17</b> |
|                                   | <b>2000</b>  | <b>2001</b>  | <b>2002</b>  | <b>2003</b>  | <b>2004</b>  | <b>2005</b>  | <b>2006</b>  | <b>2007</b>  | <b>2008</b>  | <b>2009</b>  |
| Total Primary Energy <sup>d</sup> | 8.12         | 10.60        | 8.14         | 9.63         | 11.04        | 12.65        | 14.18        | 13.85        | 14.79        | 13.20        |
| Coal                              | 1.02         | 1.12         | 0.97         | 1.04         | 1.20         | 2.23         | 1.55         | 2.53         | —            | —            |
| Natural Gas <sup>a</sup>          | 7.73         | 10.40        | 7.90         | 9.36         | 10.81        | 12.42        | 13.96        | 13.16        | 13.28        | 12.54        |
| Total Petroleum                   | 10.60        | 11.92        | 9.81         | 11.71        | 13.38        | 15.94        | 17.73        | 19.51        | 23.32        | 18.83        |
| Distillate Fuel                   | 8.97         | 8.75         | 7.82         | 9.25         | 10.96        | 15.05        | 17.24        | 19.32        | 23.66        | 15.98        |
| Kerosene                          | 9.11         | 9.13         | 8.38         | 9.92         | 11.01        | 15.23        | 19.36        | 21.95        | 23.08        | 23.30        |
| LPG <sup>b</sup>                  | 10.76        | 12.19        | 9.96         | 11.87        | 13.58        | 16.01        | 17.72        | 19.48        | 23.31        | 18.86        |
| Biomass - Wood <sup>c</sup>       | 4.41         | 4.22         | 3.82         | 4.59         | 5.21         | 6.91         | 7.96         | 8.79         | 10.83        | 8.07         |
| Retail Electricity                | 20.65        | 20.53        | 20.70        | 20.39        | 20.43        | 20.75        | 21.80        | 22.54        | 23.45        | 25.04        |
| <b>Total Energy<sup>d</sup></b>   | <b>13.27</b> | <b>14.55</b> | <b>13.49</b> | <b>14.20</b> | <b>15.16</b> | <b>16.43</b> | <b>17.92</b> | <b>18.09</b> | <b>18.73</b> | <b>18.69</b> |

**Table F-10**

**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**

**Part II — (prices in nominal dollars per million BTU)**

|                                   | <b>2010</b>       | <b>2011</b>        | <b>2012</b>        | <b>2013</b>        | <b>2014</b>        | <b>2015</b>        | <b>2016</b> |
|-----------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|
| Total Primary Energy <sup>d</sup> | 12.75             | <sup>R</sup> 13.19 | <sup>R</sup> 13.10 | <sup>R</sup> 11.85 | <sup>R</sup> 12.47 | <sup>R</sup> 11.92 | 10.94       |
| Coal                              | —                 | —                  | —                  | —                  | —                  | —                  | —           |
| Natural Gas <sup>a</sup>          | 11.60             | 11.92              | 12.15              | 10.73              | 10.69              | 11.5               | 10.69       |
| Total Petroleum                   | 20.41             | <sup>R</sup> 21.65 | <sup>R</sup> 19.39 | <sup>R</sup> 19.26 | <sup>R</sup> 24.66 | <sup>R</sup> 16.41 | 14.04       |
| Distillate Fuel                   | 19.31             | 26.88              | 26.80              | 27.79              | 26.86              | 17.58              | 15.21       |
| Kerosene                          | 24.75             | 28.01              | 29.39              | 30.03              | 32.32              | 16.69              | 13.30       |
| LPG <sup>b</sup>                  | 20.39             | 23.41              | 22.58              | 24.34              | 27.88              | 20.39              | N/A         |
| Biomass - Wood <sup>c</sup>       | <sup>R</sup> 9.59 | 11.53              | 12.84              | 12.57              | 12.26              | 8.44               | 7.21        |
| Retail Electricity                | 26.60             | 28.56              | 29.80              | 31.08              | 31.18              | 32.84              | 32.85       |
| <b>Total Energy<sup>d</sup></b>   | 19.49             | <sup>R</sup> 20.72 | <sup>R</sup> 21.96 | <sup>R</sup> 21.00 | <sup>R</sup> 21.06 | <sup>R</sup> 22.28 | 22.29       |

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**Table F-10**

**Missouri Residential Sector Energy Price and Expenditure Estimates by Source: 1970-2016**

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Liquefied petroleum gases.

<sup>c</sup> Wood and wood-derived fuels.

<sup>d</sup> There are no direct fuel costs for geothermal, photovoltaic, or solar thermal energy.

R = Revised data

N/A = Not available

Note: Expenditure totals may not equal sum of components due to independent rounding.

This table has been produced by  
The State & Regional Fiscal Studies Unit,  
University of Missouri-Columbia

Retail Electricity

**Total Energy<sup>d</sup>**