### Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>All buildings using fuel oil</th>
<th>Total fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of buildings (thousand)</td>
<td>Total floorspace (million square feet)</td>
</tr>
<tr>
<td>All buildings</td>
<td>467</td>
</tr>
</tbody>
</table>

#### Building floorspace (square feet)

| 1,001 to 5,000 | 204 | 604 | 3.0 | 21 | 151 | 522 |
| 5,001 to 10,000 | 74 | 559 | 7.6 | 10 | 74 | 253 |
| 10,001 to 25,000 | 67 | 1,123 | 16.7 | 20 | 147 | 494 |
| 25,001 to 50,000 | 39 | 1,490 | 38.3 | 14 | 102 | 329 |
| 50,001 to 100,000 | 39 | 2,822 | 71.5 | 23 | 171 | 559 |
| 100,001 to 200,000 | 19 | 2,858 | 148.6 | 20 | 147 | 461 |
| 200,001 to 500,000 | 18 | 5,370 | 303.4 | 14 | 98 | 329 |
| Over 500,000 | 6 | 5,374 | 924.0 | 12 | 84 | 284 |

#### Principal building activity

| Education | 30 | 2,185 | 71.9 | 28 | 205 | 658 |
| Food sales | Q | Q | Q | Q | Q | Q |
| Food service | Q | Q | Q | Q | Q | Q |
| Health care | 23 | 2,776 | 118.5 | 20 | 142 | 444 |
| Inpatient | 9 | 2,257 | 264.4 | 16 | 117 | 362 |
| Outpatient | 15 | 520 | 34.9 | Q | Q | Q |
| Lodging | 28 | 2,051 | 74.0 | 8 | 61 | 204 |
| Mercantile | 44 | 1,119 | 25.6 | 9 | 69 | 241 |
| Retail (other than mall) | 37 | 454 | 12.3 | 7 | 53 | 188 |
| Enclosed and strip malls | 7 | 665 | 97.8 | Q | Q | Q |
| Office | 86 | 5,328 | 62.2 | 18 | 131 | 449 |
| Public assembly | 27 | 1,663 | Q | 7 | 48 | 160 |
| Public order and safety | 34 | 908 | 26.9 | 2 | 17 | 59 |
| Religious worship | 23 | 391 | 16.6 | 5 | 39 | 134 |
| Service | 86 | 733 | 8.6 | 16 | 118 | 394 |
| Warehouse and storage | 26 | 1,773 | 68.1 | 5 | 38 | 129 |
| Other | 28 | 738 | 26.5 | 10 | 71 | 243 |
| Vacant | Q | Q | Q | Q | Q | Q |

#### Year constructed

| Before 1920 | 56 | 1,099 | 19.7 | 16 | 119 | 398 |
| 1920 to 1945 | 44 | 1,447 | 32.8 | 14 | 105 | 355 |
| 1946 to 1959 | 53 | 1,530 | 28.9 | 18 | 133 | 428 |
| 1960 to 1969 | 75 | 2,407 | 32.2 | 20 | 144 | 478 |
| 1970 to 1979 | 58 | 2,614 | 45.1 | 16 | 118 | 383 |
| 1980 to 1989 | 50 | 3,806 | 75.5 | 16 | 114 | 385 |
| 1990 to 1999 | 51 | 3,201 | 62.4 | 14 | 98 | 330 |
| 2000 to 2003 | 35 | 1,467 | 42.4 | 10 | 75 | 253 |
| 2004 to 2007 | 18 | 1,497 | 82.0 | 3 | 22 | 74 |
| 2008 to 2012 | 27 | 1,133 | 42.7 | 6 | 46 | 145 |
### Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>All buildings using fuel oil</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of buildings (thousand)</td>
<td>Total floorspace (million square feet)</td>
</tr>
<tr>
<td>All buildings</td>
<td>467</td>
</tr>
</tbody>
</table>

#### Census region and division

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast</td>
<td>217</td>
<td>6,079</td>
<td>28.1</td>
<td>90</td>
<td>652</td>
<td>2,146</td>
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<tr>
<td>New England</td>
<td>115</td>
<td>1,866</td>
<td>16.3</td>
<td>47</td>
<td>344</td>
<td>1,119</td>
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<tr>
<td>Middle Atlantic</td>
<td>102</td>
<td>4,213</td>
<td>41.4</td>
<td>42</td>
<td>308</td>
<td>1,027</td>
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<tr>
<td>Midwest</td>
<td>77</td>
<td>3,935</td>
<td>51.1</td>
<td>15</td>
<td>108</td>
<td>367</td>
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<tr>
<td>East North Central</td>
<td>46</td>
<td>2,619</td>
<td>57.3</td>
<td>10</td>
<td>70</td>
<td>237</td>
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<tr>
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<td>1,316</td>
<td>42.1</td>
<td>5</td>
<td>38</td>
<td>130</td>
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<tr>
<td>South</td>
<td>131</td>
<td>7,051</td>
<td>54.0</td>
<td>23</td>
<td>167</td>
<td>553</td>
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<tr>
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<td>4,419</td>
<td>64.0</td>
<td>16</td>
<td>118</td>
<td>387</td>
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<tr>
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<td>797</td>
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<td>21</td>
<td>73</td>
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<tr>
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<td>57.5</td>
<td>4</td>
<td>28</td>
<td>94</td>
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<tr>
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<td>43</td>
<td>3,135</td>
<td>73.6</td>
<td>7</td>
<td>48</td>
<td>164</td>
</tr>
<tr>
<td>Mountain</td>
<td>8</td>
<td>1,092</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Pacific</td>
<td>35</td>
<td>2,043</td>
<td>59.2</td>
<td>5</td>
<td>34</td>
<td>117</td>
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</table>

#### Climate region

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very cold/Cold</td>
<td>271</td>
<td>8,008</td>
<td>29.6</td>
<td>81</td>
<td>592</td>
<td>1,967</td>
</tr>
<tr>
<td>Mixed-humid</td>
<td>131</td>
<td>7,287</td>
<td>55.5</td>
<td>43</td>
<td>314</td>
<td>1,043</td>
</tr>
<tr>
<td>Mixed-dry/Hot-dry</td>
<td>22</td>
<td>1,605</td>
<td>72.7</td>
<td>2</td>
<td>18</td>
<td>62</td>
</tr>
<tr>
<td>Hot-humid</td>
<td>36</td>
<td>2,597</td>
<td>72.6</td>
<td>6</td>
<td>43</td>
<td>133</td>
</tr>
<tr>
<td>Marine</td>
<td>7</td>
<td>703</td>
<td>100.0</td>
<td>1</td>
<td>8</td>
<td>26</td>
</tr>
</tbody>
</table>

#### Number of floors

<table>
<thead>
<tr>
<th>Floors</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>256</td>
<td>4,139</td>
<td>16.1</td>
<td>42</td>
<td>306</td>
<td>1,009</td>
</tr>
<tr>
<td>Two</td>
<td>105</td>
<td>3,375</td>
<td>32.0</td>
<td>32</td>
<td>233</td>
<td>783</td>
</tr>
<tr>
<td>Three</td>
<td>58</td>
<td>2,091</td>
<td>36.2</td>
<td>23</td>
<td>167</td>
<td>553</td>
</tr>
<tr>
<td>Four to nine</td>
<td>38</td>
<td>6,246</td>
<td>164.6</td>
<td>28</td>
<td>207</td>
<td>679</td>
</tr>
<tr>
<td>Ten or more</td>
<td>9</td>
<td>4,349</td>
<td>477.7</td>
<td>8</td>
<td>62</td>
<td>207</td>
</tr>
</tbody>
</table>

#### Number of workers (main shift)

<table>
<thead>
<tr>
<th>Workers</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 5</td>
<td>214</td>
<td>1,489</td>
<td>7.0</td>
<td>31</td>
<td>227</td>
<td>767</td>
</tr>
<tr>
<td>5 to 9</td>
<td>73</td>
<td>717</td>
<td>9.8</td>
<td>9</td>
<td>65</td>
<td>222</td>
</tr>
<tr>
<td>10 to 19</td>
<td>45</td>
<td>765</td>
<td>17.0</td>
<td>11</td>
<td>83</td>
<td>270</td>
</tr>
<tr>
<td>20 to 49</td>
<td>44</td>
<td>1,824</td>
<td>41.2</td>
<td>17</td>
<td>122</td>
<td>409</td>
</tr>
<tr>
<td>50 to 99</td>
<td>39</td>
<td>3,137</td>
<td>79.6</td>
<td>21</td>
<td>153</td>
<td>514</td>
</tr>
<tr>
<td>100 to 249</td>
<td>30</td>
<td>4,040</td>
<td>136.5</td>
<td>22</td>
<td>161</td>
<td>526</td>
</tr>
<tr>
<td>250 or more</td>
<td>21</td>
<td>8,229</td>
<td>389.8</td>
<td>22</td>
<td>162</td>
<td>523</td>
</tr>
</tbody>
</table>

#### Weekly operating hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 40</td>
<td>58</td>
<td>538</td>
<td>9.3</td>
<td>10</td>
<td>70</td>
<td>241</td>
</tr>
<tr>
<td>40 to 48</td>
<td>125</td>
<td>2,668</td>
<td>21.3</td>
<td>27</td>
<td>194</td>
<td>635</td>
</tr>
<tr>
<td>49 to 60</td>
<td>102</td>
<td>3,910</td>
<td>38.4</td>
<td>25</td>
<td>181</td>
<td>604</td>
</tr>
<tr>
<td>61 to 84</td>
<td>49</td>
<td>3,104</td>
<td>63.4</td>
<td>20</td>
<td>143</td>
<td>477</td>
</tr>
<tr>
<td>85 to 167</td>
<td>30</td>
<td>1,868</td>
<td>62.0</td>
<td>9</td>
<td>64</td>
<td>211</td>
</tr>
<tr>
<td>Open continuously</td>
<td>102</td>
<td>8,113</td>
<td>79.2</td>
<td>44</td>
<td>322</td>
<td>1,062</td>
</tr>
</tbody>
</table>
### Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All buildings</strong></td>
<td>467</td>
<td>20,200</td>
<td>43.3</td>
<td>134</td>
<td>974</td>
</tr>
<tr>
<td><strong>Ownership and occupancy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nongovernment owned</td>
<td>365</td>
<td>14,057</td>
<td>38.5</td>
<td>91</td>
<td>663</td>
</tr>
<tr>
<td>Owner occupied</td>
<td>223</td>
<td>6,308</td>
<td>28.3</td>
<td>56</td>
<td>411</td>
</tr>
<tr>
<td>Leased to tenant(s)</td>
<td>108</td>
<td>4,749</td>
<td>43.8</td>
<td>23</td>
<td>171</td>
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<tr>
<td>Owner occupied and leased</td>
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<td>2,928</td>
<td>101.6</td>
<td>11</td>
<td>79</td>
</tr>
<tr>
<td>Unoccupied</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td>Government owned</td>
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<td>6,143</td>
<td>60.6</td>
<td>43</td>
<td>311</td>
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<tr>
<td>Federal</td>
<td>Q</td>
<td>1,083</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td>State</td>
<td>15</td>
<td>1,400</td>
<td>95.8</td>
<td>5</td>
<td>39</td>
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<tr>
<td>Local</td>
<td>83</td>
<td>3,660</td>
<td>44.2</td>
<td>34</td>
<td>250</td>
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<tr>
<td><strong>Party responsible for operation and maintenance of energy systems</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Building owner</td>
<td>412</td>
<td>18,105</td>
<td>43.9</td>
<td>121</td>
<td>879</td>
</tr>
<tr>
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<td>1,420</td>
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<td>70</td>
</tr>
<tr>
<td>Property management</td>
<td>3</td>
<td>454</td>
<td>Q</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td><strong>Provider of direct input on energy-related equipment purchases</strong></td>
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<td></td>
<td></td>
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<td></td>
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<tr>
<td>Building owner</td>
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<td>18,292</td>
<td>43.8</td>
<td>123</td>
<td>895</td>
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<tr>
<td>Business owner or tenant</td>
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<td>1,142</td>
<td>39.1</td>
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<td>47</td>
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<td>Property management</td>
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<td>353</td>
<td>83.1</td>
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<td>12</td>
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<tr>
<td>Other</td>
<td>15</td>
<td>414</td>
<td>26.9</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td><strong>Number of establishments</strong></td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>One</td>
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<td>11,534</td>
<td>32.4</td>
<td>98</td>
<td>716</td>
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<tr>
<td>2 to 5</td>
<td>89</td>
<td>4,944</td>
<td>55.7</td>
<td>25</td>
<td>179</td>
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<td>6 to 10</td>
<td>7</td>
<td>873</td>
<td>129.1</td>
<td>5</td>
<td>38</td>
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<tr>
<td>11 to 20</td>
<td>4</td>
<td>884</td>
<td>203.4</td>
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<td>8</td>
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<tr>
<td>More than 20</td>
<td>5</td>
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<td>32</td>
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<tr>
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<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td><strong>Predominant exterior wall material</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brick, stone, or stucco</td>
<td>156</td>
<td>8,798</td>
<td>56.3</td>
<td>59</td>
<td>432</td>
</tr>
<tr>
<td>Concrete (block or poured)</td>
<td>106</td>
<td>4,462</td>
<td>42.2</td>
<td>28</td>
<td>203</td>
</tr>
<tr>
<td>Concrete panels</td>
<td>12</td>
<td>3,015</td>
<td>245.5</td>
<td>7</td>
<td>51</td>
</tr>
<tr>
<td>Siding or shingles</td>
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<td>1,092</td>
<td>10.1</td>
<td>21</td>
<td>154</td>
</tr>
<tr>
<td>Metal panels</td>
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<td>16.4</td>
<td>13</td>
<td>98</td>
</tr>
<tr>
<td>Window glass</td>
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<td>865</td>
<td>221.8</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>491</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>No one major type</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>
### Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>All buildings using fuel oil</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of buildings (thousand)</td>
<td>Total floorspace (million square feet)</td>
</tr>
<tr>
<td>All buildings</td>
<td>467</td>
</tr>
</tbody>
</table>

**Predominant roof material**

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Number of Buildings</th>
<th>Total Floorspace (million square feet)</th>
<th>Floorspace per Building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal surfacing</td>
<td>124</td>
<td>2,024</td>
<td>16.4</td>
<td>23</td>
<td>167</td>
<td>562</td>
</tr>
<tr>
<td>Synthetic or rubber</td>
<td>104</td>
<td>7,980</td>
<td>76.9</td>
<td>40</td>
<td>288</td>
<td>958</td>
</tr>
<tr>
<td>Built-up</td>
<td>63</td>
<td>5,780</td>
<td>92.2</td>
<td>31</td>
<td>229</td>
<td>748</td>
</tr>
<tr>
<td>Slate or tile shingles</td>
<td>18</td>
<td>724</td>
<td>40.6</td>
<td>4</td>
<td>32</td>
<td>117</td>
</tr>
</tbody>
</table>

**Wooden materials (including shingles)**

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Number of Buildings</th>
<th>Total Floorspace (million square feet)</th>
<th>Floorspace per Building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>

**Asphalt, fiberglass, or other shingles**

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Number of Buildings</th>
<th>Total Floorspace (million square feet)</th>
<th>Floorspace per Building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>3</td>
<td>620</td>
<td>195.7</td>
<td>3</td>
<td>22</td>
<td>60</td>
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<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<td>Q</td>
<td>Q</td>
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</table>

**Roof characteristics**

**Roof tilt**

<table>
<thead>
<tr>
<th>Roof Type</th>
<th>Number of Buildings</th>
<th>Total Floorspace (million square feet)</th>
<th>Floorspace per Building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>171</td>
<td>14,380</td>
<td>84.3</td>
<td>68</td>
<td>496</td>
<td>1,644</td>
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<tr>
<td>Shallow pitch</td>
<td>155</td>
<td>3,891</td>
<td>25.1</td>
<td>34</td>
<td>248</td>
<td>822</td>
</tr>
<tr>
<td>Steeper pitch</td>
<td>141</td>
<td>1,929</td>
<td>13.7</td>
<td>32</td>
<td>230</td>
<td>764</td>
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<tr>
<td>Cool roof</td>
<td>80</td>
<td>6,090</td>
<td>76.6</td>
<td>33</td>
<td>237</td>
<td>791</td>
</tr>
</tbody>
</table>

**Renovations in buildings constructed before 2008**

**(more than one may apply)**

<table>
<thead>
<tr>
<th>Type of Renovation</th>
<th>Number of Buildings</th>
<th>Total Floorspace (million square feet)</th>
<th>Floorspace per Building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any type of renovation</td>
<td>233</td>
<td>12,546</td>
<td>53.8</td>
<td>80</td>
<td>584</td>
<td>1,934</td>
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<tr>
<td>Addition or annex</td>
<td>65</td>
<td>4,629</td>
<td>71.6</td>
<td>34</td>
<td>248</td>
<td>795</td>
</tr>
<tr>
<td>Reduction in floorspace</td>
<td>9</td>
<td>549</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td>Roof replacement</td>
<td>130</td>
<td>7,374</td>
<td>56.7</td>
<td>55</td>
<td>398</td>
<td>1,313</td>
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<tr>
<td>Exterior wall replacement</td>
<td>22</td>
<td>1,636</td>
<td>72.8</td>
<td>11</td>
<td>82</td>
<td>263</td>
</tr>
<tr>
<td>Interior wall reconfiguration</td>
<td>107</td>
<td>7,620</td>
<td>71.4</td>
<td>39</td>
<td>283</td>
<td>920</td>
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<tr>
<td>Window replacement</td>
<td>70</td>
<td>4,239</td>
<td>60.4</td>
<td>35</td>
<td>255</td>
<td>824</td>
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<tr>
<td>HVAC equipment upgrade</td>
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<td>78.7</td>
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<td>350</td>
<td>1,151</td>
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<tr>
<td>Lighting upgrade</td>
<td>105</td>
<td>8,632</td>
<td>82.0</td>
<td>52</td>
<td>378</td>
<td>1,245</td>
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<tr>
<td>Electrical upgrade</td>
<td>82</td>
<td>5,588</td>
<td>68.4</td>
<td>38</td>
<td>277</td>
<td>911</td>
</tr>
<tr>
<td>Plumbing system upgrade</td>
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<td>4,912</td>
<td>70.8</td>
<td>33</td>
<td>243</td>
<td>818</td>
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<td>Insulation upgrade</td>
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<td>2,510</td>
<td>74.0</td>
<td>13</td>
<td>96</td>
<td>320</td>
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<tr>
<td>Fire, safety, or security upgrade</td>
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<td>6,775</td>
<td>86.1</td>
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<td>932</td>
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<tr>
<td>Structural upgrade</td>
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<td>75.0</td>
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<td>68</td>
<td>226</td>
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<tr>
<td>Other</td>
<td>Q</td>
<td>371</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td>No renovations</td>
<td>207</td>
<td>6,521</td>
<td>31.5</td>
<td>47</td>
<td>344</td>
<td>1,151</td>
</tr>
<tr>
<td>Buildings constructed 2008 or later</td>
<td>27</td>
<td>1,133</td>
<td>42.7</td>
<td>6</td>
<td>46</td>
<td>145</td>
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</table>
Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>Energy sources</th>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Fuel oil expenditures (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All buildings</td>
<td>467</td>
<td>20,200</td>
<td>43.3</td>
<td>134</td>
<td>974</td>
</tr>
<tr>
<td><strong>Energy sources</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity</td>
<td>467</td>
<td>20,200</td>
<td>43.3</td>
<td>134</td>
<td>974</td>
</tr>
<tr>
<td>Natural gas</td>
<td>164</td>
<td>13,663</td>
<td>83.4</td>
<td>41</td>
<td>298</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>467</td>
<td>20,200</td>
<td>43.3</td>
<td>134</td>
<td>974</td>
</tr>
<tr>
<td>District heat</td>
<td>10</td>
<td>3,110</td>
<td>307.5</td>
<td>6</td>
<td>47</td>
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<tr>
<td>District chilled water</td>
<td>8</td>
<td>2,134</td>
<td>263.2</td>
<td>4</td>
<td>32</td>
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<tr>
<td>Propane</td>
<td>90</td>
<td>3,080</td>
<td>34.3</td>
<td>43</td>
<td>314</td>
</tr>
<tr>
<td>Other</td>
<td>41</td>
<td>1,133</td>
<td>27.6</td>
<td>8</td>
<td>59</td>
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<tr>
<td><strong>Space-heating energy sources</strong></td>
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<tr>
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<td>270</td>
<td>4,351</td>
<td>16.1</td>
<td>104</td>
<td>753</td>
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<td>2,542</td>
<td>12.4</td>
<td>98</td>
<td>715</td>
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<tr>
<td>Fuel oil secondary</td>
<td>65</td>
<td>1,809</td>
<td>28.0</td>
<td>5</td>
<td>39</td>
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<tr>
<td>Other excluding fuel oil</td>
<td>185</td>
<td>15,319</td>
<td>82.8</td>
<td>29</td>
<td>207</td>
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<tr>
<td>Buildings without fuel oil</td>
<td>12</td>
<td>530</td>
<td>Q</td>
<td>2</td>
<td>13</td>
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<td><strong>Primary space-heating energy source</strong></td>
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<tr>
<td>Electricity</td>
<td>85</td>
<td>4,651</td>
<td>54.4</td>
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<td>71</td>
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<td>9,022</td>
<td>79.0</td>
<td>16</td>
<td>117</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>205</td>
<td>2,542</td>
<td>12.4</td>
<td>98</td>
<td>715</td>
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<tr>
<td>District heat</td>
<td>10</td>
<td>2,991</td>
<td>304.7</td>
<td>5</td>
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</tr>
<tr>
<td>Propane</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td><strong>Cooling energy sources</strong></td>
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<tr>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>360</td>
<td>19,241</td>
<td>53.4</td>
<td>109</td>
<td>794</td>
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<tr>
<td>Buildings without cooling</td>
<td>106</td>
<td>891</td>
<td>8.4</td>
<td>22</td>
<td>161</td>
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<tr>
<td><strong>Water-heating energy sources</strong></td>
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<td></td>
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<tr>
<td>Fuel oil</td>
<td>77</td>
<td>1,911</td>
<td>24.7</td>
<td>60</td>
<td>433</td>
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<tr>
<td>Other excluding fuel oil</td>
<td>334</td>
<td>17,797</td>
<td>53.3</td>
<td>66</td>
<td>477</td>
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<tr>
<td>Buildings without water heating</td>
<td>56</td>
<td>492</td>
<td>8.9</td>
<td>9</td>
<td>64</td>
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<td><strong>Cooking energy sources</strong></td>
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</tr>
<tr>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>163</td>
<td>12,628</td>
<td>77.5</td>
<td>74</td>
<td>540</td>
</tr>
<tr>
<td>Buildings without cooking</td>
<td>300</td>
<td>7,506</td>
<td>25.0</td>
<td>58</td>
<td>423</td>
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<tr>
<td><strong>Energy end uses</strong></td>
<td></td>
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</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Buildings with space heating</td>
<td>455</td>
<td>19,670</td>
<td>43.2</td>
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<td>961</td>
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<td>Buildings with cooling</td>
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<td>813</td>
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<td>Buildings with water heating</td>
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<td>Buildings with cooking</td>
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<td>76</td>
<td>551</td>
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<td>Buildings with manufacturing</td>
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<td>863</td>
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<td>Buildings with electricity generation</td>
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<td>17,073</td>
<td>79.8</td>
<td>68</td>
<td>491</td>
</tr>
</tbody>
</table>
Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>Number of buildings (thousand)</th>
<th>Total floorspace (million square feet)</th>
<th>Floorspace per building (thousand square feet)</th>
<th>Total (trillion Btu)</th>
<th>Total (million gallons)</th>
<th>Total (million dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All buildings</td>
<td>467</td>
<td>20,200</td>
<td>43.3</td>
<td>134</td>
<td>974</td>
</tr>
<tr>
<td>Percent of floorspace heated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not heated</td>
<td>12</td>
<td>530</td>
<td>Q</td>
<td>2</td>
<td>13</td>
</tr>
<tr>
<td>1 to 50</td>
<td>65</td>
<td>2,005</td>
<td>30.9</td>
<td>10</td>
<td>69</td>
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<tr>
<td>51 to 99</td>
<td>58</td>
<td>3,815</td>
<td>65.8</td>
<td>18</td>
<td>132</td>
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<tr>
<td>100</td>
<td>332</td>
<td>13,849</td>
<td>41.7</td>
<td>104</td>
<td>759</td>
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<tr>
<td>Heating equipment</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Heat pumps</td>
<td>44</td>
<td>3,047</td>
<td>68.9</td>
<td>12</td>
<td>88</td>
</tr>
<tr>
<td>Furnaces</td>
<td>42</td>
<td>870</td>
<td>20.8</td>
<td>7</td>
<td>54</td>
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<tr>
<td>Individual space heaters</td>
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<td>33.1</td>
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<td>275</td>
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<td>Boilers</td>
<td>139</td>
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<tr>
<td>Packaged heating units</td>
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<td>9,580</td>
<td>44.0</td>
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<td>335</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Water-heating equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centralized system</td>
<td>314</td>
<td>10,979</td>
<td>34.9</td>
<td>85</td>
<td>616</td>
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<tr>
<td>Distributed system</td>
<td>52</td>
<td>2,510</td>
<td>48.4</td>
<td>13</td>
<td>98</td>
</tr>
<tr>
<td>Combination of centralized and distributed system</td>
<td>45</td>
<td>6,219</td>
<td>138.0</td>
<td>27</td>
<td>197</td>
</tr>
<tr>
<td>Food preparation or serving areas in non-food service buildings</td>
<td>(more than one may apply)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snack bar or concession stand</td>
<td>24</td>
<td>4,868</td>
<td>202.6</td>
<td>16</td>
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<tr>
<td>Fast food or small restaurant</td>
<td>19</td>
<td>3,624</td>
<td>192.9</td>
<td>8</td>
<td>60</td>
</tr>
<tr>
<td>Cafeteria or large restaurant</td>
<td>35</td>
<td>7,093</td>
<td>204.0</td>
<td>42</td>
<td>306</td>
</tr>
<tr>
<td>Commercial kitchen/food preparation area</td>
<td>49</td>
<td>6,678</td>
<td>135.2</td>
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<td>237</td>
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<td>Small kitchen area</td>
<td>82</td>
<td>4,666</td>
<td>57.2</td>
<td>31</td>
<td>225</td>
</tr>
<tr>
<td>HVAC conservation features</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Economizer cycle</td>
<td>86</td>
<td>11,271</td>
<td>131.6</td>
<td>43</td>
<td>313</td>
</tr>
<tr>
<td>Regular HVAC maintenance</td>
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<td>18,901</td>
<td>59.5</td>
<td>111</td>
<td>809</td>
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<tr>
<td>Building automation system (BAS)</td>
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<td>13,867</td>
<td>116.3</td>
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<td>423</td>
</tr>
<tr>
<td>Equipment usage reduced when building not in full use</td>
<td>(more than one may apply)</td>
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<td></td>
<td></td>
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<tr>
<td>Heating</td>
<td>320</td>
<td>14,165</td>
<td>44.3</td>
<td>92</td>
<td>673</td>
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<td>Cooling</td>
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<td>54.9</td>
<td>78</td>
<td>566</td>
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<tr>
<td>Lighting</td>
<td>427</td>
<td>18,903</td>
<td>44.3</td>
<td>123</td>
<td>897</td>
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</tbody>
</table>
### Table C33. Total fuel oil consumption and expenditures, 2012

<table>
<thead>
<tr>
<th>All buildings using fuel oil</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of buildings (thousand)</td>
<td>Total floorspace (million square feet)</td>
</tr>
<tr>
<td>All buildings</td>
<td>467</td>
</tr>
<tr>
<td>Annual consumption (gallons)</td>
<td></td>
</tr>
<tr>
<td>1,000 or less</td>
<td>311</td>
</tr>
<tr>
<td>1,001 to 5,000</td>
<td>111</td>
</tr>
<tr>
<td>5,001 to 10,000</td>
<td>29</td>
</tr>
<tr>
<td>10,001 to 25,000</td>
<td>10</td>
</tr>
<tr>
<td>Over 25,000</td>
<td>5</td>
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</table>

1These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE).

2In earlier CBECS publications, BAS was referred to as Energy Management and Control System (EMCS).

\[ Q = \text{Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.} \]

\[ N = \text{No cases in reporting sample.} \]

Notes: ● Because of rounding, data may not sum to totals. ● See the Guide to the 2012 CBECS Detailed Tables or CBECS Terminology for definitions of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from http://www.eia.gov/consumption/commercial/data/2012/ ● Statistics for the Energy end uses category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, ventilation, and air conditioning.

Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,087</td>
</tr>
<tr>
<td>Building floorspace (square feet)</td>
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</tr>
<tr>
<td>1,001 to 5,000</td>
<td>740</td>
</tr>
<tr>
<td>5,001 to 10,000</td>
<td>1,011</td>
</tr>
<tr>
<td>10,001 to 25,000</td>
<td>2,179</td>
</tr>
<tr>
<td>25,001 to 50,000</td>
<td>2,607</td>
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<tr>
<td>50,001 to 100,000</td>
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<td>100,001 to 200,000</td>
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<tr>
<td>200,001 to 500,000</td>
<td>5,551</td>
</tr>
<tr>
<td>Over 500,000</td>
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<td>Principal building activity</td>
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<td>Education</td>
<td>6,763</td>
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<td>Health care</td>
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<td>Outpatient</td>
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<td>Enclosed and strip malls</td>
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<td>1946 to 1959</td>
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<td>1990 to 1999</td>
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<td>2000 to 2003</td>
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<td>2004 to 2007</td>
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<td>2008 to 2012</td>
<td>1,736</td>
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</table>
# Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
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<tr>
<td>All buildings</td>
<td>2,087</td>
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### Census region and division

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>Northeast</td>
<td>3,008</td>
<td>0.11</td>
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<tr>
<td>New England</td>
<td>2,994</td>
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<tr>
<td>Middle Atlantic</td>
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<tr>
<td>Midwest</td>
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<td>0.03</td>
</tr>
<tr>
<td>East North Central</td>
<td>1,521</td>
<td>0.03</td>
</tr>
<tr>
<td>West North Central</td>
<td>1,222</td>
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<tr>
<td>South</td>
<td>1,277</td>
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<tr>
<td>South Atlantic</td>
<td>1,706</td>
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<tr>
<td>East South Central</td>
<td>722</td>
<td>0.03</td>
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<tr>
<td>West South Central</td>
<td>863</td>
<td>0.02</td>
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<tr>
<td>West</td>
<td>1,128</td>
<td>0.02</td>
</tr>
<tr>
<td>Mountain</td>
<td>Q</td>
<td>0.01</td>
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<tr>
<td>Pacific</td>
<td>987</td>
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### Climate region

<table>
<thead>
<tr>
<th></th>
<th>Fuel oil consumption</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>Very cold/Cold</td>
<td>2,189</td>
<td>0.07</td>
</tr>
<tr>
<td>Mixed-humid</td>
<td>2,391</td>
<td>0.04</td>
</tr>
<tr>
<td>Mixed-dry/Hot-dry</td>
<td>811</td>
<td>0.01</td>
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<tr>
<td>Hot-humid</td>
<td>1,189</td>
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<tr>
<td>Marine</td>
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</tbody>
</table>

### Number of floors

<table>
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<tr>
<th></th>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>One</td>
<td>1,193</td>
<td>0.07</td>
</tr>
<tr>
<td>Two</td>
<td>2,208</td>
<td>0.07</td>
</tr>
<tr>
<td>Three</td>
<td>2,887</td>
<td>0.08</td>
</tr>
<tr>
<td>Four to nine</td>
<td>5,455</td>
<td>0.03</td>
</tr>
<tr>
<td>Ten or more</td>
<td>6,786</td>
<td>0.01</td>
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</tbody>
</table>

### Number of workers (main shift)

<table>
<thead>
<tr>
<th></th>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>Fewer than 5</td>
<td>1,060</td>
<td>0.15</td>
</tr>
<tr>
<td>5 to 9</td>
<td>887</td>
<td>0.09</td>
</tr>
<tr>
<td>10 to 19</td>
<td>1,838</td>
<td>0.11</td>
</tr>
<tr>
<td>20 to 49</td>
<td>2,766</td>
<td>0.07</td>
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<tr>
<td>50 to 99</td>
<td>3,891</td>
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<tr>
<td>100 to 249</td>
<td>5,453</td>
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<tr>
<td>250 or more</td>
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### Weekly operating hours

<table>
<thead>
<tr>
<th></th>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>Fewer than 40</td>
<td>1,207</td>
<td>0.13</td>
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<tr>
<td>40 to 48</td>
<td>1,544</td>
<td>0.07</td>
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<tr>
<td>49 to 60</td>
<td>1,782</td>
<td>0.05</td>
</tr>
<tr>
<td>61 to 84</td>
<td>2,919</td>
<td>0.05</td>
</tr>
<tr>
<td>85 to 167</td>
<td>2,128</td>
<td>0.03</td>
</tr>
<tr>
<td>Open continuously</td>
<td>3,146</td>
<td>0.04</td>
</tr>
</tbody>
</table>
## Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th></th>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
<th>per building (gallons)</th>
<th>per square foot (gallons)</th>
<th>per worker (gallons)</th>
<th>per building (thousand dollars)</th>
<th>per square foot (dollars)</th>
<th>per gallon (dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All buildings</strong></td>
<td></td>
<td></td>
<td>2,087</td>
<td>0.05</td>
<td>38.0</td>
<td>6.9</td>
<td>0.16</td>
<td>3.32</td>
</tr>
<tr>
<td><strong>Ownership and occupancy</strong></td>
<td></td>
<td></td>
<td>1,815</td>
<td>0.05</td>
<td>35.5</td>
<td>6.1</td>
<td>0.16</td>
<td>3.35</td>
</tr>
<tr>
<td>Nongovernment owned</td>
<td></td>
<td></td>
<td>1,846</td>
<td>0.07</td>
<td>58.3</td>
<td>6.2</td>
<td>0.22</td>
<td>3.34</td>
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<tr>
<td>Owner occupied</td>
<td></td>
<td></td>
<td>1,576</td>
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<td>5.3</td>
<td>0.12</td>
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<tr>
<td>Leased to tenant(s)</td>
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<td>21.1</td>
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<td>0.09</td>
<td>3.37</td>
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<tr>
<td>Owner occupied and leased</td>
<td></td>
<td></td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>N</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Unoccupied</td>
<td></td>
<td></td>
<td>3,070</td>
<td>0.05</td>
<td>44.7</td>
<td>9.9</td>
<td>0.16</td>
<td>3.23</td>
</tr>
<tr>
<td>Government owned</td>
<td></td>
<td></td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>N</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Federal</td>
<td></td>
<td></td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>State</td>
<td></td>
<td></td>
<td>2,649</td>
<td>0.03</td>
<td>27.1</td>
<td>8.5</td>
<td>0.09</td>
<td>3.22</td>
</tr>
<tr>
<td>Local</td>
<td></td>
<td></td>
<td>3,026</td>
<td>0.07</td>
<td>61.5</td>
<td>9.8</td>
<td>0.22</td>
<td>3.23</td>
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<tr>
<td><strong>Party responsible for operation and maintenance of energy systems</strong></td>
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<td></td>
<td>2,130</td>
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<td>37.9</td>
<td>7.1</td>
<td>0.16</td>
<td>3.31</td>
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<tr>
<td>Building owner</td>
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<td></td>
<td>1,700</td>
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<td>5.7</td>
<td>0.16</td>
<td>3.33</td>
</tr>
<tr>
<td>Business owner or tenant</td>
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<td></td>
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<td>Q</td>
<td>0.05</td>
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<tr>
<td>Other</td>
<td></td>
<td></td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
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<td><strong>Provider of direct input on energy-related equipment purchases</strong></td>
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<td>3.31</td>
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<td></td>
<td>1,599</td>
<td>0.04</td>
<td>37.2</td>
<td>5.4</td>
<td>0.14</td>
<td>3.35</td>
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<td>Business owner or tenant</td>
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<td>27.0</td>
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<td>55.0</td>
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<td>0.21</td>
<td>3.31</td>
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<tr>
<td>One</td>
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<td>30.6</td>
<td>6.6</td>
<td>0.12</td>
<td>3.29</td>
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<tr>
<td>2 to 5</td>
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<td>5,561</td>
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<td>21.9</td>
<td>18.3</td>
<td>0.14</td>
<td>3.30</td>
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<tr>
<td>6 to 10</td>
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<td>1,765</td>
<td>0.01</td>
<td>4.7</td>
<td>6.0</td>
<td>0.03</td>
<td>3.39</td>
</tr>
<tr>
<td>More than 20</td>
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<td>23.9</td>
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<td>Currently unoccupied</td>
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<td>Q</td>
<td>Q</td>
<td>N</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td><strong>Predominant exterior wall material</strong></td>
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<td>37.4</td>
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<td>3.28</td>
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<td>Brick, stone, or stucco</td>
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<tr>
<td>No one major type</td>
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<td></td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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</table>
Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,087</td>
</tr>
<tr>
<td>Predominant roof material</td>
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<tr>
<td>Metal surfacing</td>
<td>1,349</td>
</tr>
<tr>
<td>Synthetic or rubber</td>
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<tr>
<td>Built-up</td>
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<tr>
<td>Slate or tile shingles</td>
<td>1,820</td>
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<tr>
<td>Wooden materials (including shingles)</td>
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<td>Asphalt, fiberglass, or other shingles</td>
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<td>Other</td>
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<tr>
<td>No one major type</td>
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<tr>
<td>Roof characteristics</td>
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<td>Roof tilt</td>
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<td>Flat</td>
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<td>Shallow pitch</td>
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<td>Steeper pitch</td>
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<td>Cool roof</td>
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<td>Renovations in buildings constructed before 2008 (more than one may apply)</td>
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<tr>
<td>Any type of renovation</td>
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</tr>
<tr>
<td>Addition or annex</td>
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</tr>
<tr>
<td>Reduction in floorspace</td>
<td>Q</td>
</tr>
<tr>
<td>Roof replacement</td>
<td>3,058</td>
</tr>
<tr>
<td>Exterior wall replacement</td>
<td>3,640</td>
</tr>
<tr>
<td>Interior wall reconfiguration</td>
<td>2,651</td>
</tr>
<tr>
<td>Window replacement</td>
<td>3,634</td>
</tr>
<tr>
<td>HVAC equipment upgrade</td>
<td>3,124</td>
</tr>
<tr>
<td>Lighting upgrade</td>
<td>3,591</td>
</tr>
<tr>
<td>Electrical upgrade</td>
<td>3,396</td>
</tr>
<tr>
<td>Plumbing system upgrade</td>
<td>3,503</td>
</tr>
<tr>
<td>Insulation upgrade</td>
<td>2,836</td>
</tr>
<tr>
<td>Fire, safety, or security upgrade</td>
<td>3,602</td>
</tr>
<tr>
<td>Structural upgrade</td>
<td>2,914</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
</tr>
<tr>
<td>No renovations</td>
<td>1,663</td>
</tr>
<tr>
<td>Buildings constructed 2008 or later</td>
<td>1,736</td>
</tr>
</tbody>
</table>
Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Energy end uses (more than one may apply)</th>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,087</td>
<td>0.05</td>
</tr>
<tr>
<td>Energy sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>District heat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>District chilled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space-heating energy sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil main</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil secondary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings without fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary space-heating energy source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>District heat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>District chilled water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling energy sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings without cooling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water-heating energy sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings without water heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooking energy sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings without cooking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy end uses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with space heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with cooling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with water heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with cooking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with manufacturing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings with electricity generation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per building (gallons)</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,087</td>
</tr>
<tr>
<td>Percent of floorspace heated</td>
<td></td>
</tr>
<tr>
<td>Not heated</td>
<td>1,155</td>
</tr>
<tr>
<td>1 to 50</td>
<td>1,067</td>
</tr>
<tr>
<td>51 to 99</td>
<td>2,283</td>
</tr>
<tr>
<td>100</td>
<td>2,285</td>
</tr>
<tr>
<td>Heating equipment</td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
</tr>
<tr>
<td>Heat pumps</td>
<td>1,991</td>
</tr>
<tr>
<td>Furnaces</td>
<td>1,284</td>
</tr>
<tr>
<td>Individual space heaters</td>
<td></td>
</tr>
<tr>
<td>1,553</td>
<td>0.05</td>
</tr>
<tr>
<td>District heat</td>
<td>4,378</td>
</tr>
<tr>
<td>Boilers</td>
<td>4,197</td>
</tr>
<tr>
<td>Packaged heating units</td>
<td>1,541</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
</tr>
<tr>
<td>Water-heating equipment</td>
<td></td>
</tr>
<tr>
<td>Centralized system</td>
<td>1,960</td>
</tr>
<tr>
<td>Distributed system</td>
<td>1,886</td>
</tr>
<tr>
<td>Combination of centralized and distributed system</td>
<td>4,374</td>
</tr>
<tr>
<td>Food preparation or serving areas in non-food service buildings (more than one may apply)</td>
<td></td>
</tr>
<tr>
<td>Snack bar or concession stand</td>
<td>4,760</td>
</tr>
<tr>
<td>Fast food or small restaurant</td>
<td>3,176</td>
</tr>
<tr>
<td>Cafeteria or large restaurant</td>
<td>8,807</td>
</tr>
<tr>
<td>Commercial kitchen/food preparation area</td>
<td>4,790</td>
</tr>
<tr>
<td>Small kitchen area</td>
<td>2,756</td>
</tr>
<tr>
<td>HVAC conservation features (more than one may apply)</td>
<td></td>
</tr>
<tr>
<td>Economizer cycle</td>
<td>3,658</td>
</tr>
<tr>
<td>Regular HVAC maintenance</td>
<td>2,545</td>
</tr>
<tr>
<td>Building automation system (BAS)²</td>
<td>3,547</td>
</tr>
<tr>
<td>Equipment usage reduced when building not in full use (more than one may apply)</td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>2,103</td>
</tr>
<tr>
<td>Cooling</td>
<td>2,229</td>
</tr>
<tr>
<td>Lighting</td>
<td>2,103</td>
</tr>
</tbody>
</table>
Table C34. Fuel oil consumption and expenditure intensities, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption</th>
<th>Fuel oil expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>per building (gallons)</td>
<td>per square foot (gallons)</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,087</td>
</tr>
</tbody>
</table>

**Annual consumption (gallons)**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 or less</td>
<td>316</td>
<td>0.01</td>
<td>8.3</td>
<td>1.1</td>
<td>0.04</td>
<td>3.54</td>
</tr>
<tr>
<td>1,001 to 5,000</td>
<td>2,157</td>
<td>0.05</td>
<td>38.1</td>
<td>7.3</td>
<td>0.17</td>
<td>3.39</td>
</tr>
<tr>
<td>5,001 to 10,000</td>
<td>6,522</td>
<td>0.08</td>
<td>62.6</td>
<td>21.3</td>
<td>0.25</td>
<td>3.27</td>
</tr>
<tr>
<td>10,001 to 25,000</td>
<td>15,386</td>
<td>0.07</td>
<td>57.6</td>
<td>51.1</td>
<td>0.23</td>
<td>3.32</td>
</tr>
<tr>
<td>Over 25,000</td>
<td>54,423</td>
<td>0.19</td>
<td>161.8</td>
<td>174.4</td>
<td>0.62</td>
<td>3.20</td>
</tr>
</tbody>
</table>

1These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE).

2In earlier CBECS publications, BAS was referred to as Energy Management and Control System (EMCS).

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See the Guide to the 2012 CBECS Detailed Tables or CBECS Terminology for definitions of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from http://www.eia.gov/consumption/commercial/data/2012/ ● Statistics for the Energy end uses category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, ventilation, and air conditioning.

### Table C35. Fuel oil consumption and conditional energy intensity by Census region, 2012

<table>
<thead>
<tr>
<th>Year constructed</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>Total fuel oil consumption (million gallons)</th>
<th>Total floorspace of buildings using fuel oil (million square feet)</th>
<th>Fuel oil energy intensity (gallons/square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before 1945</td>
<td>196</td>
<td>5</td>
<td>16.0</td>
<td>Q</td>
<td>1,530</td>
<td>352</td>
<td>589</td>
</tr>
<tr>
<td>1946 to 1979</td>
<td>299</td>
<td>31</td>
<td>51.0</td>
<td>15</td>
<td>2,296</td>
<td>1,355</td>
<td>1,942</td>
</tr>
<tr>
<td>1980 to 1999</td>
<td>122</td>
<td>26</td>
<td>45.0</td>
<td>19</td>
<td>1,620</td>
<td>1,232</td>
<td>2,741</td>
</tr>
<tr>
<td>2000 to 2012</td>
<td>35</td>
<td>Q</td>
<td>55.0</td>
<td>Q</td>
<td>633</td>
<td>997</td>
<td>1,779</td>
</tr>
</tbody>
</table>

### Climate region

<table>
<thead>
<tr>
<th>Climate region</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very cold/Cold</td>
<td>478</td>
<td>91</td>
<td>23</td>
<td>N</td>
</tr>
<tr>
<td>Mixed-humid</td>
<td>173</td>
<td>Q</td>
<td>124.0</td>
<td>N</td>
</tr>
<tr>
<td>Mixed-dry/Hot-dry</td>
<td>N</td>
<td>N</td>
<td>Q</td>
<td>13</td>
</tr>
<tr>
<td>Hot-humid</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Q</td>
</tr>
<tr>
<td>Marine</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>8</td>
</tr>
</tbody>
</table>

### Number of floors

<table>
<thead>
<tr>
<th>Number of floors</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>146</td>
<td>61</td>
<td>83.0</td>
<td>16</td>
</tr>
<tr>
<td>Two</td>
<td>177</td>
<td>17</td>
<td>31.0</td>
<td>8</td>
</tr>
<tr>
<td>Three</td>
<td>152</td>
<td>Q</td>
<td>7.0</td>
<td>2</td>
</tr>
<tr>
<td>Four to nine</td>
<td>142</td>
<td>15</td>
<td>34.0</td>
<td>16</td>
</tr>
<tr>
<td>Ten or more</td>
<td>35</td>
<td>8</td>
<td>12.0</td>
<td>Q</td>
</tr>
</tbody>
</table>

### Number of workers (main shift)

<table>
<thead>
<tr>
<th>Number of workers (main shift)</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 10</td>
<td>182</td>
<td>61</td>
<td>38.0</td>
<td>Q</td>
</tr>
<tr>
<td>10 to 99</td>
<td>263</td>
<td>20</td>
<td>65.0</td>
<td>11</td>
</tr>
<tr>
<td>100 or more</td>
<td>206</td>
<td>27</td>
<td>64.0</td>
<td>27</td>
</tr>
</tbody>
</table>

### Weekly operating hours

<table>
<thead>
<tr>
<th>Weekly operating hours</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 48</td>
<td>192</td>
<td>16</td>
<td>53.0</td>
<td>3</td>
</tr>
<tr>
<td>49 to 84</td>
<td>223</td>
<td>30</td>
<td>51.0</td>
<td>21</td>
</tr>
<tr>
<td>85 to 167</td>
<td>43</td>
<td>10</td>
<td>7.0</td>
<td>Q</td>
</tr>
<tr>
<td>Open continuously</td>
<td>194</td>
<td>51</td>
<td>56.0</td>
<td>20</td>
</tr>
</tbody>
</table>

### Ownership and occupancy

<table>
<thead>
<tr>
<th>Ownership and occupancy</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nongovernment owned</td>
<td>464</td>
<td>63</td>
<td>99.0</td>
<td>37</td>
</tr>
<tr>
<td>Owner occupied</td>
<td>306</td>
<td>34</td>
<td>48.0</td>
<td>23</td>
</tr>
<tr>
<td>Leased to tenant(s)</td>
<td>110</td>
<td>18</td>
<td>36.0</td>
<td>8</td>
</tr>
<tr>
<td>Owner occupied and leased</td>
<td>48</td>
<td>10</td>
<td>15.0</td>
<td>7</td>
</tr>
<tr>
<td>Unoccupied</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>N</td>
</tr>
<tr>
<td>Government owned</td>
<td>188</td>
<td>Q</td>
<td>68.0</td>
<td>11</td>
</tr>
<tr>
<td>Federal</td>
<td>Q</td>
<td>6.0</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>State</td>
<td>Q</td>
<td>5</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Local</td>
<td>155</td>
<td>Q</td>
<td>53.0</td>
<td>5</td>
</tr>
</tbody>
</table>

Notes:
- All values are rounded to the nearest whole number.
- N/A indicates not applicable or data not available.
### Table C35. Fuel oil consumption and conditional energy intensity by Census region, 2012

<table>
<thead>
<tr>
<th>Predominant roof material</th>
<th>Total fuel oil consumption (million gallons)</th>
<th>Total floorspace of buildings using fuel oil (million square feet)</th>
<th>Fuel oil energy intensity (gallons/square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>North-east</td>
<td>Mid-west</td>
<td>South</td>
</tr>
<tr>
<td>Brick, stone, or stucco</td>
<td>301</td>
<td>22</td>
<td>92.0</td>
</tr>
<tr>
<td>Concrete (block or poured)</td>
<td>144</td>
<td>16</td>
<td>27.0</td>
</tr>
<tr>
<td>Concrete panels</td>
<td>15</td>
<td>9</td>
<td>19.0</td>
</tr>
<tr>
<td>Siding or shingles</td>
<td>126</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Metal panels</td>
<td>15</td>
<td>9</td>
<td>19.0</td>
</tr>
<tr>
<td>Window glass</td>
<td>15</td>
<td>9</td>
<td>19.0</td>
</tr>
<tr>
<td>Other</td>
<td>31</td>
<td>12</td>
<td>13.0</td>
</tr>
<tr>
<td>No one major type</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Predominant exterior wall material</td>
<td>301</td>
<td>22</td>
<td>92.0</td>
</tr>
<tr>
<td>Metal surfaced</td>
<td>88</td>
<td>37</td>
<td>40.0</td>
</tr>
<tr>
<td>Synthetic or rubber</td>
<td>186</td>
<td>Q</td>
<td>33.0</td>
</tr>
<tr>
<td>Built-up</td>
<td>162</td>
<td>17</td>
<td>38.0</td>
</tr>
<tr>
<td>Slate or tile shingles</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Wooden materials (including shingles)</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Asphalt, fiberglass, or other shingles</td>
<td>147</td>
<td>Q</td>
<td>38.0</td>
</tr>
<tr>
<td>Concrete</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>No one major type</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>

### Roof characteristics

<table>
<thead>
<tr>
<th>Roof tilt</th>
<th>Total fuel oil consumption (million gallons)</th>
<th>Total floorspace of buildings using fuel oil (million square feet)</th>
<th>Fuel oil energy intensity (gallons/square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>345</td>
<td>40</td>
<td>79.0</td>
</tr>
<tr>
<td>Shallow pitch</td>
<td>115</td>
<td>Q</td>
<td>71.0</td>
</tr>
<tr>
<td>Steeper pitch</td>
<td>192</td>
<td>18</td>
<td>17.0</td>
</tr>
<tr>
<td>Cool roof</td>
<td>146</td>
<td>26</td>
<td>45.0</td>
</tr>
</tbody>
</table>
Table C35. Fuel oil consumption and conditional energy intensity by Census region, 2012

<table>
<thead>
<tr>
<th>Energy sources</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>652</td>
<td>108</td>
<td>167.0</td>
<td>48</td>
<td>6,079</td>
<td>3,935</td>
<td>7,051</td>
<td>3,135</td>
<td>0.11</td>
<td>0.03</td>
<td>0.02</td>
<td>0.02</td>
</tr>
<tr>
<td>Natural gas</td>
<td>161</td>
<td>36</td>
<td>68.0</td>
<td>34</td>
<td>3,508</td>
<td>3,071</td>
<td>4,455</td>
<td>2,629</td>
<td>0.05</td>
<td>0.01</td>
<td>0.02</td>
<td>0.01</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>652</td>
<td>108</td>
<td>167.0</td>
<td>48</td>
<td>6,079</td>
<td>3,935</td>
<td>7,051</td>
<td>3,135</td>
<td>0.11</td>
<td>0.03</td>
<td>0.02</td>
<td>0.02</td>
</tr>
<tr>
<td>District heat</td>
<td>12</td>
<td>9</td>
<td>17.0</td>
<td>9</td>
<td>966</td>
<td>428</td>
<td>1,198</td>
<td>517</td>
<td>0.01</td>
<td>0.02</td>
<td>0.01</td>
<td>0.02</td>
</tr>
<tr>
<td>District chilled water</td>
<td>5</td>
<td>Q</td>
<td>11.0</td>
<td>Q</td>
<td>279</td>
<td>352</td>
<td>1,084</td>
<td>Q</td>
<td>0.02</td>
<td>Q</td>
<td>0.01</td>
<td>0.02</td>
</tr>
<tr>
<td>Propane</td>
<td>229</td>
<td>Q</td>
<td>40.0</td>
<td>11</td>
<td>1,008</td>
<td>725</td>
<td>845</td>
<td>502</td>
<td>0.23</td>
<td>Q</td>
<td>0.05</td>
<td>0.02</td>
</tr>
<tr>
<td>Other</td>
<td>40</td>
<td>Q</td>
<td>4</td>
<td>367</td>
<td>329</td>
<td>211</td>
<td>Q</td>
<td>Q</td>
<td>0.11</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>

Table continued...

<table>
<thead>
<tr>
<th>Energy sources</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary space-heating energy source</td>
<td>Electricity</td>
<td>11</td>
<td>7</td>
<td>47.0</td>
<td>6</td>
<td>642</td>
<td>678</td>
<td>2,739</td>
<td>591</td>
<td>0.02</td>
<td>0.01</td>
<td>0.02</td>
</tr>
<tr>
<td>Natural gas</td>
<td>39</td>
<td>29</td>
<td>29.0</td>
<td>19</td>
<td>2,271</td>
<td>2,385</td>
<td>2,569</td>
<td>1,797</td>
<td>0.02</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>569</td>
<td>Q</td>
<td>74.0</td>
<td>Q</td>
<td>1,988</td>
<td>Q</td>
<td>299</td>
<td>Q</td>
<td>0.29</td>
<td>Q</td>
<td>0.25</td>
<td>Q</td>
</tr>
<tr>
<td>District heat</td>
<td>11</td>
<td>8</td>
<td>12.0</td>
<td>Q</td>
<td>939</td>
<td>418</td>
<td>1,119</td>
<td>515</td>
<td>0.01</td>
<td>0.02</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>Propane</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>

Table continued...

<table>
<thead>
<tr>
<th>Energy sources</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling energy sources</td>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>513</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td></td>
</tr>
<tr>
<td>Buildings without cooling</td>
<td>121</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>0.21</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
</tbody>
</table>
### Table C35. Fuel oil consumption and conditional energy intensity by Census region, 2012

<table>
<thead>
<tr>
<th>Fuel oil consumption (million gallons)</th>
<th>Total floorspace of buildings using fuel oil (million square feet)</th>
<th>Fuel oil energy intensity (gallons/square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>North-east</td>
<td>Mid-west</td>
<td>South</td>
</tr>
<tr>
<td>All buildings</td>
<td>652</td>
<td>108</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>6,079</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7,051</td>
</tr>
</tbody>
</table>

#### Water-heating energy sources

<table>
<thead>
<tr>
<th>Sources</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>Percent of floorspace heated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>383</td>
<td>Q</td>
<td>Q</td>
<td>1,401</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>235</td>
<td>87</td>
<td>114.0</td>
<td>42</td>
<td>Q</td>
</tr>
<tr>
<td>Buildings without water heating</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>191</td>
<td>Q</td>
</tr>
</tbody>
</table>

#### Cooking energy sources

<table>
<thead>
<tr>
<th>Sources</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>Percent of floorspace heated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>373</td>
<td>36</td>
<td>100.0</td>
<td>32</td>
<td>Q</td>
</tr>
<tr>
<td>Buildings without cooking</td>
<td>269</td>
<td>72</td>
<td>66.0</td>
<td>16</td>
<td>Q</td>
</tr>
</tbody>
</table>

#### Energy end uses (more than one may apply)

| Buildings with space heating                      | 647        | 108      | 163.0 | 43   | 2,108                         |
| Buildings with cooling                            | 531        | 77       | 162.0 | 43   | Q                             |
| Buildings with water heating                       | 617        | 91       | 156.0 | 46   | Q                             |
| Buildings with cooking                            | 383        | 36       | 100.0 | 32   | Q                             |
| Buildings with manufacturing                       | 36         | Q        | Q     | Q    | Q                             |

#### Percent of floorspace heated

| Buildings with heating                            | Q          | Q        | 4.0   | Q    | Q                             |
| NOT HEATED                                        | 35         | 20.0     | 6     | 486  | Q                             |
| 1 to 50                                           | 93         | 7        | 25.0  | 7    | 1,270                         |
| 51 to 99                                          | 519        | 91       | 118.0 | 31   | 4,284                         |

#### Heating equipment (more than one may apply)

| Heat pumps                                        | 46         | 4        | 33.0  | 5    | Q                             |
| Furnaces                                          | Q          | Q        | Q     | Q    | Q                             |
| Individual space heaters                          | 185        | 33       | 43.0  | Q    | 910                           |
| District heat                                      | 12         | 9        | 17.0  | Q    | Q                             |
| Boilers                                           | 454        | 30       | 82.0  | 17   | Q                             |
| Packaged heating units                            | 184        | 62       | 70.0  | 19   | Q                             |
| Other                                             | Q          | Q        | Q     | Q    | Q                             |

#### Water-heating equipment

| Centralized system                                | 421        | 71       | 91.0  | 33   | 3,556                         |
| Distributed system                                | 71         | 6        | 16.0  | 4    | 869                           |
| Combination of centralized and distributed system | 125        | 14       | 50.0  | 9    | 1,464                         |

#### Food preparation or serving areas in non-food service buildings (more than one may apply)

| Snack bar or concession stand                     | 52         | 11       | 37.0  | 15   | 1,131                         |
| Fast food or small restaurant                     | 22         | 9        | 19.0  | Q    | 749                           |
| Cafeteria or large restaurant                     | 208        | 15       | 65.0  | 18   | 2,115                         |
| Commercial kitchen/food preparation area          | 148        | 21       | 50.0  | 17   | 1,728                         |
| Small kitchen area                                | 153        | 16       | 45.0  | 11   | 1,495                         |
Table C35. Fuel oil consumption and conditional energy intensity by Census region, 2012

<table>
<thead>
<tr>
<th>Total fuel oil consumption (million gallons)</th>
<th>Total floorspace of buildings using fuel oil (million square feet)</th>
<th>Fuel oil energy intensity (gallons/square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>North-east Mid-west South West</td>
<td>North-east Mid-west South West</td>
<td>North-east Mid-west South West</td>
</tr>
<tr>
<td>All buildings</td>
<td>652 108 167.0 48 6,079 3,935 7,051 3,135 0.11 0.03 0.02 0.02</td>
<td></td>
</tr>
</tbody>
</table>

HVAC conservation features

(more than one may apply)

<table>
<thead>
<tr>
<th>Economizer cycle</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>31</td>
<td>76.0</td>
<td>26</td>
</tr>
<tr>
<td>2,974</td>
<td>2,495</td>
<td>3,546</td>
<td>2,257</td>
</tr>
<tr>
<td>0.06</td>
<td>0.01</td>
<td>0.02</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Regular HVAC maintenance

<table>
<thead>
<tr>
<th>Building automation system (BAS)</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>550</td>
<td>75</td>
<td>142.0</td>
<td>41</td>
</tr>
<tr>
<td>5,603</td>
<td>3,565</td>
<td>6,687</td>
<td>3,046</td>
</tr>
<tr>
<td>0.10</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
</tbody>
</table>

Equipment usage reduced when building not in full use

(more than one may apply)

<table>
<thead>
<tr>
<th>Heating</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>460</td>
<td>57</td>
<td>123.0</td>
<td>33</td>
</tr>
<tr>
<td>4,707</td>
<td>2,843</td>
<td>4,513</td>
<td>2,103</td>
</tr>
<tr>
<td>0.10</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cooling</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>375</td>
<td>40</td>
<td>123.0</td>
<td>29</td>
</tr>
<tr>
<td>4,170</td>
<td>2,779</td>
<td>4,863</td>
<td>2,151</td>
</tr>
<tr>
<td>0.09</td>
<td>0.01</td>
<td>0.03</td>
<td>0.01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lighting</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>614</td>
<td>84</td>
<td>155.0</td>
<td>33</td>
</tr>
<tr>
<td>5,596</td>
<td>3,719</td>
<td>6,609</td>
<td>2,980</td>
</tr>
<tr>
<td>0.11</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
</tbody>
</table>

Annual consumption (gallons)

<table>
<thead>
<tr>
<th>1,000 or less</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>17</td>
<td>29.0</td>
<td>9</td>
</tr>
<tr>
<td>1,964</td>
<td>2,000</td>
<td>3,466</td>
<td>1,612</td>
</tr>
<tr>
<td>0.02</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1,001 to 5,000</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>144</td>
<td>Q</td>
<td>43.0</td>
<td>13</td>
</tr>
<tr>
<td>1,645</td>
<td>908</td>
<td>1,605</td>
<td>673</td>
</tr>
<tr>
<td>0.09</td>
<td>Q</td>
<td>0.03</td>
<td>0.02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5,001 to 10,000</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>33</td>
<td>28.0</td>
<td>12</td>
</tr>
<tr>
<td>837</td>
<td>451</td>
<td>835</td>
<td>406</td>
</tr>
<tr>
<td>0.14</td>
<td>0.07</td>
<td>0.03</td>
<td>0.03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10,001 to 25,000</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>Q</td>
<td>17.0</td>
<td>Q</td>
</tr>
<tr>
<td>905</td>
<td>436</td>
<td>794</td>
<td>Q</td>
</tr>
<tr>
<td>0.13</td>
<td>0.03</td>
<td>0.02</td>
<td>Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Over 25,000</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
<th>North-east Mid-west South West</th>
</tr>
</thead>
<tbody>
<tr>
<td>227</td>
<td>Q</td>
<td>50.0</td>
<td>Q</td>
</tr>
<tr>
<td>729</td>
<td>Q</td>
<td>351</td>
<td>Q</td>
</tr>
<tr>
<td>0.31</td>
<td>Q</td>
<td>0.14</td>
<td>Q</td>
</tr>
</tbody>
</table>

1These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE).

2In earlier CBECs publications, BAS was referred to as Energy Management and Control System (EMCS).

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See the Guide to the 2012 CBECs Detailed Tables or CBECs Terminology for definitions of terms used in these tables and/or comparison of differences with prior CBECs tables. Both references can be accessed from http://www.eia.gov/consumption/commercial/data/2012/

● Statistics for the Energy end uses category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ●

HVAC = Heating, ventilation, and air conditioning.

Table C36. Fuel oil expenditures by Census region, 2012

<table>
<thead>
<tr>
<th>Building floorspace (square feet)</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,001 to 10,000</td>
<td>551</td>
<td>79</td>
<td>106</td>
<td>Q</td>
<td>3.45</td>
<td>3.43</td>
<td>3.34</td>
<td>Q</td>
<td>0.94</td>
<td>0.48</td>
<td>0.33</td>
<td>Q</td>
</tr>
<tr>
<td>10,001 to 100,000</td>
<td>977</td>
<td>182</td>
<td>194</td>
<td>29</td>
<td>3.29</td>
<td>3.40</td>
<td>3.19</td>
<td>3.44</td>
<td>0.45</td>
<td>0.17</td>
<td>0.12</td>
<td>0.05</td>
</tr>
<tr>
<td>Over 100,000</td>
<td>619</td>
<td>106</td>
<td>253</td>
<td>97</td>
<td>3.16</td>
<td>3.40</td>
<td>3.42</td>
<td>3.42</td>
<td>0.19</td>
<td>0.04</td>
<td>0.05</td>
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</table>

<table>
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<tr>
<th>Principal building activity</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
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<td>Education</td>
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<td>42</td>
<td>148</td>
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<td>0.08</td>
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<td>37</td>
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<td>0.04</td>
<td>0.04</td>
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<td>316</td>
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<td>37</td>
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<td>3.42</td>
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<td>3.41</td>
<td>0.19</td>
<td>0.03</td>
<td>0.04</td>
<td>0.04</td>
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<table>
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<th>Year constructed</th>
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<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
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<tbody>
<tr>
<td>Before 1945</td>
<td>662</td>
<td>19</td>
<td>51</td>
<td>26</td>
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<td>Q</td>
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<td>0.06</td>
<td>0.09</td>
<td>Q</td>
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<tr>
<td>1946 to 1979</td>
<td>961</td>
<td>106</td>
<td>172</td>
<td>50</td>
<td>3.22</td>
<td>3.41</td>
<td>3.41</td>
<td>3.42</td>
<td>0.42</td>
<td>0.08</td>
<td>0.09</td>
<td>0.05</td>
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<td>1980 to 1999</td>
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<td>89</td>
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<td>3.41</td>
<td>3.42</td>
<td>0.25</td>
<td>0.07</td>
<td>0.06</td>
<td>0.05</td>
</tr>
<tr>
<td>2000 to 2012</td>
<td>115</td>
<td>Q</td>
<td>176</td>
<td>Q</td>
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<td>3.40</td>
<td>3.18</td>
<td>3.44</td>
<td>0.18</td>
<td>Q</td>
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<table>
<thead>
<tr>
<th>Climate region</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very cold/Cold</td>
<td>1,579</td>
<td>310</td>
<td>N</td>
<td>78</td>
<td>3.30</td>
<td>3.41</td>
<td>N</td>
<td>3.38</td>
<td>0.45</td>
<td>0.09</td>
<td>0.08</td>
<td>N</td>
</tr>
<tr>
<td>Mixed-humid</td>
<td>567</td>
<td>Q</td>
<td>418</td>
<td>N</td>
<td>3.27</td>
<td>3.36</td>
<td>3.38</td>
<td>N</td>
<td>0.22</td>
<td>Q</td>
<td>0.10</td>
<td>N</td>
</tr>
<tr>
<td>Mixed-dry/Hot-dry</td>
<td>N</td>
<td>N</td>
<td>Q</td>
<td>46</td>
<td>N</td>
<td>N</td>
<td>Q</td>
<td>3.46</td>
<td>N</td>
<td>N</td>
<td>Q</td>
<td>0.03</td>
</tr>
<tr>
<td>Hot-humid</td>
<td>N</td>
<td>N</td>
<td>120</td>
<td>Q</td>
<td>N</td>
<td>N</td>
<td>3.10</td>
<td>Q</td>
<td>N</td>
<td>0.05</td>
<td>Q</td>
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<tr>
<td>Marine</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>26</td>
<td>N</td>
<td>N</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>0.04</td>
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</table>

<table>
<thead>
<tr>
<th>Number of floors</th>
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<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>481</td>
<td>207</td>
<td>266</td>
<td>55</td>
<td>3.29</td>
<td>3.40</td>
<td>3.22</td>
<td>3.39</td>
<td>0.47</td>
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<td>0.14</td>
<td>0.12</td>
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<tr>
<td>Two</td>
<td>591</td>
<td>60</td>
<td>107</td>
<td>26</td>
<td>3.33</td>
<td>3.45</td>
<td>3.49</td>
<td>3.39</td>
<td>0.54</td>
<td>0.07</td>
<td>0.12</td>
<td>0.04</td>
</tr>
<tr>
<td>Three</td>
<td>503</td>
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<td>23</td>
<td>5</td>
<td>3.31</td>
<td>3.37</td>
<td>3.38</td>
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<td>0.03</td>
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<td>Four to nine</td>
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<td>116</td>
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<td>3.37</td>
<td>3.46</td>
<td>0.26</td>
<td>0.04</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Ten or more</td>
<td>114</td>
<td>28</td>
<td>42</td>
<td>Q</td>
<td>3.31</td>
<td>3.40</td>
<td>3.39</td>
<td>3.40</td>
<td>0.09</td>
<td>0.05</td>
<td>0.03</td>
<td>Q</td>
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<table>
<thead>
<tr>
<th>Number of workers (main shift)</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 10</td>
<td>617</td>
<td>209</td>
<td>128</td>
<td>Q</td>
<td>3.38</td>
<td>3.42</td>
<td>3.37</td>
<td>Q</td>
<td>0.63</td>
<td>0.40</td>
<td>0.21</td>
<td>Q</td>
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<tr>
<td>10 to 99</td>
<td>882</td>
<td>67</td>
<td>207</td>
<td>36</td>
<td>3.35</td>
<td>3.35</td>
<td>3.19</td>
<td>3.43</td>
<td>0.48</td>
<td>0.06</td>
<td>0.11</td>
<td>0.04</td>
</tr>
<tr>
<td>100 or more</td>
<td>647</td>
<td>91</td>
<td>218</td>
<td>92</td>
<td>3.14</td>
<td>3.42</td>
<td>3.42</td>
<td>3.42</td>
<td>0.20</td>
<td>0.04</td>
<td>0.05</td>
<td>0.04</td>
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<table>
<thead>
<tr>
<th>Weekly operating hours</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fewer than 48</td>
<td>643</td>
<td>56</td>
<td>166</td>
<td>11</td>
<td>3.35</td>
<td>3.47</td>
<td>3.15</td>
<td>3.42</td>
<td>0.46</td>
<td>0.08</td>
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<td>0.03</td>
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<tr>
<td>49 to 84</td>
<td>735</td>
<td>102</td>
<td>173</td>
<td>70</td>
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<td>3.40</td>
<td>3.41</td>
<td>3.42</td>
<td>0.33</td>
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<td>0.07</td>
<td>0.06</td>
</tr>
<tr>
<td>85 to 167</td>
<td>139</td>
<td>34</td>
<td>24</td>
<td>Q</td>
<td>3.23</td>
<td>3.40</td>
<td>3.41</td>
<td>Q</td>
<td>0.29</td>
<td>0.06</td>
<td>0.04</td>
<td>Q</td>
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<tr>
<td>Open continuously</td>
<td>629</td>
<td>174</td>
<td>190</td>
<td>69</td>
<td>3.23</td>
<td>3.39</td>
<td>3.39</td>
<td>3.43</td>
<td>0.33</td>
<td>0.13</td>
<td>0.06</td>
<td>0.05</td>
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</table>
Table C36. Fuel oil expenditures by Census region, 2012

<table>
<thead>
<tr>
<th>Ownership and occupancy</th>
<th>Total fuel oil expenditures (million dollars)</th>
<th>Fuel oil expenditures (dollars) per gallon</th>
<th>Fuel oil expenditures (dollars) per square foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>North-</td>
<td>Mid-</td>
<td>South</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,146</td>
<td>367</td>
<td>553</td>
</tr>
<tr>
<td>Ownership and occupancy</td>
<td>Nongovernment owned</td>
<td>1,546</td>
<td>214</td>
</tr>
<tr>
<td></td>
<td>Owner occupied</td>
<td>1,014</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>Leased to tenant(s)</td>
<td>372</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>Owner occupied and leased</td>
<td>160</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Unoccupied</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Government owned</td>
<td>600</td>
<td>Q</td>
<td>218</td>
</tr>
<tr>
<td></td>
<td>Federal</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>State</td>
<td>Q</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td>495</td>
<td>Q</td>
</tr>
<tr>
<td>Party responsible for operation and maintenance of energy systems</td>
<td>Building owner</td>
<td>1,947</td>
<td>336</td>
</tr>
<tr>
<td></td>
<td>Business owner or tenant</td>
<td>138</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>Property management</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Provider of direct input on energy-related equipment purchases</td>
<td>Building owner</td>
<td>1,983</td>
<td>349</td>
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<tr>
<td></td>
<td>Business owner or tenant</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>Property management</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Number of establishments</td>
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<tr>
<td></td>
<td>2 to 5</td>
<td>255</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>6 to 10</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td></td>
<td>11 to 20</td>
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<td>Q</td>
</tr>
<tr>
<td></td>
<td>More than 20</td>
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<td>Q</td>
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<tr>
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<td>Currently unoccupied</td>
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<td>Q</td>
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<td>Predominant exterior wall material</td>
<td>Brick, stone, or stucco</td>
<td>976</td>
<td>75</td>
</tr>
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<td></td>
<td>Concrete (block or poured)</td>
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<td>55</td>
</tr>
<tr>
<td></td>
<td>Concrete panels</td>
<td>50</td>
<td>31</td>
</tr>
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<td></td>
<td>Siding or shingles</td>
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<td>Q</td>
</tr>
<tr>
<td></td>
<td>Metal panels</td>
<td>Q</td>
<td>121</td>
</tr>
<tr>
<td></td>
<td>Window glass</td>
<td>Q</td>
<td>Q</td>
</tr>
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<td></td>
<td>Other</td>
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<td>Q</td>
</tr>
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<td></td>
<td>No one major type</td>
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Table C36. Fuel oil expenditures by Census region, 2012

<table>
<thead>
<tr>
<th>Energy sources</th>
<th>Total fuel oil expenditures (million dollars)</th>
<th>Fuel oil expenditures (dollars)</th>
</tr>
</thead>
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<tr>
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<td>Electricity</td>
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<td>367</td>
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<td>Natural gas</td>
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<td>121</td>
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<td>Fuel oil</td>
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<td>367</td>
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<tr>
<td>District heat</td>
<td>41</td>
<td>29</td>
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<tr>
<td>District chilled water</td>
<td>16</td>
<td>38</td>
</tr>
<tr>
<td>Propane</td>
<td>725</td>
<td>Q</td>
</tr>
<tr>
<td>Other</td>
<td>137</td>
<td>Q</td>
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</table>

<table>
<thead>
<tr>
<th>Renovations in buildings constructed before 2008 (more than one may apply)</th>
<th>Total</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any type of renovation</td>
<td>1,315</td>
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<td>289</td>
<td>120</td>
<td>3.28</td>
<td>3.39</td>
<td>3.37</td>
<td>3.41</td>
<td>0.33</td>
<td>0.09</td>
<td>0.07</td>
<td>0.06</td>
<td>0.06</td>
</tr>
<tr>
<td>Addition or annex</td>
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<td>101</td>
<td>42</td>
<td>3.12</td>
<td>3.38</td>
<td>3.41</td>
<td>3.39</td>
<td>0.40</td>
<td>Q</td>
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<td>0.06</td>
<td>0.06</td>
</tr>
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<td>Reduction in floorspace</td>
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<td>25</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>3.52</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>0.10</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Roof replacement</td>
<td>933</td>
<td>178</td>
<td>149</td>
<td>53</td>
<td>3.27</td>
<td>3.40</td>
<td>3.39</td>
<td>3.38</td>
<td>0.37</td>
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<td>0.05</td>
<td>0.05</td>
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<td>Exterior wall replacement</td>
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<td>19</td>
<td>Q</td>
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<td>3.41</td>
<td>3.60</td>
<td>Q</td>
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<td>0.04</td>
<td>Q</td>
<td>Q</td>
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<td>Interior wall reconfiguration</td>
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<td>192</td>
<td>69</td>
<td>3.19</td>
<td>3.42</td>
<td>3.36</td>
<td>3.40</td>
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<td>0.08</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Window replacement</td>
<td>672</td>
<td>32</td>
<td>93</td>
<td>75</td>
<td>3.26</td>
<td>3.41</td>
<td>3.36</td>
<td>3.41</td>
<td>0.28</td>
<td>0.07</td>
<td>0.04</td>
<td>0.04</td>
<td>0.04</td>
</tr>
<tr>
<td>HVAC equipment upgrade</td>
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<td>188</td>
<td>75</td>
<td>3.26</td>
<td>3.41</td>
<td>3.36</td>
<td>3.41</td>
<td>0.32</td>
<td>0.07</td>
<td>0.06</td>
<td>0.05</td>
<td>0.05</td>
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<tr>
<td>Lighting upgrade</td>
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<td>667</td>
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<td>55</td>
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<td>3.39</td>
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<td>0.10</td>
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<tr>
<td>Fire, safety, or security upgrade</td>
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<td>0.03</td>
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<td>0.06</td>
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<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<td>Q</td>
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<tr>
<td>No renovations</td>
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<td>37</td>
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<td>Buildings constructed 2008 or later</td>
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<td>Q</td>
<td>Q</td>
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<table>
<thead>
<tr>
<th>Energy sources (more than one may apply)</th>
<th>Total</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>2,146</td>
<td>367</td>
<td>553</td>
<td>164</td>
<td>3.29</td>
<td>3.41</td>
<td>3.32</td>
<td>3.42</td>
<td>0.35</td>
<td>0.09</td>
<td>0.08</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Natural gas</td>
<td>532</td>
<td>121</td>
<td>233</td>
<td>115</td>
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<td>3.40</td>
<td>3.42</td>
<td>3.42</td>
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<td>0.04</td>
<td>0.05</td>
<td>0.04</td>
<td>0.04</td>
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<td>0.05</td>
<td>0.05</td>
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<td>District heat</td>
<td>41</td>
<td>29</td>
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<td>31</td>
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<td>3.36</td>
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<td>0.07</td>
<td>0.05</td>
<td>0.06</td>
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<tr>
<td>District chilled water</td>
<td>16</td>
<td>Q</td>
<td>38</td>
<td>Q</td>
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<td>3.38</td>
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<td>Q</td>
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<td>0.07</td>
<td>0.03</td>
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<tr>
<td>Propane</td>
<td>725</td>
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<td>134</td>
<td>37</td>
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<td>Other</td>
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<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>0.06</td>
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</table>

### Table C36. Fuel oil expenditures by Census region, 2012

#### Total fuel oil expenditures (million dollars)

- North-east
- Mid-west
- South
- West

#### Fuel oil expenditures (dollars)

- Per gallon
- Per square foot

### Energy sources (more than one may apply)

- Electricity
- Natural gas
- Fuel oil
- District heat
- District chilled water
- Propane
- Other
### Table C36. Fuel oil expenditures by Census region, 2012

<table>
<thead>
<tr>
<th>Total fuel oil expenditures (million dollars)</th>
<th>Fuel oil expenditures (dollars) per gallon per square foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>North-east</td>
<td>Mid-west</td>
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<tr>
<td>All buildings</td>
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#### Space-heating energy sources

<table>
<thead>
<tr>
<th>Energy source</th>
<th>North-east</th>
<th>Mid-west</th>
<th>South</th>
<th>West</th>
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</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>1,946</td>
<td>231</td>
<td>270</td>
<td>Q</td>
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<tr>
<td>Fuel oil main</td>
<td>1,863</td>
<td>Q</td>
<td>252</td>
<td>Q</td>
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<tr>
<td>Fuel oil secondary</td>
<td>82</td>
<td>24</td>
<td>18</td>
<td>Q</td>
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<tr>
<td>Other excluding fuel oil</td>
<td>176</td>
<td>136</td>
<td>269</td>
<td>111</td>
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<tr>
<td>Buildings without heating</td>
<td>Q</td>
<td>Q</td>
<td>14</td>
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#### Primary space-heating energy source

<table>
<thead>
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</thead>
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<tr>
<td>Electricity</td>
<td>36</td>
<td>22</td>
<td>145</td>
<td>22</td>
</tr>
<tr>
<td>Natural gas</td>
<td>132</td>
<td>98</td>
<td>100</td>
<td>66</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>1,863</td>
<td>Q</td>
<td>252</td>
<td>Q</td>
</tr>
<tr>
<td>District heat</td>
<td>40</td>
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<td>39</td>
<td>Q</td>
</tr>
<tr>
<td>Propane</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other</td>
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#### Cooling energy sources

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<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>1,692</td>
<td>263</td>
<td>534</td>
<td>146</td>
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<tr>
<td>Buildings without cooling</td>
<td>403</td>
<td>Q</td>
<td>Q</td>
<td>3.33</td>
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#### Water-heating energy sources

<table>
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<th>Mid-west</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>1,231</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>803</td>
<td>295</td>
<td>391</td>
<td>143</td>
</tr>
<tr>
<td>Buildings without water heating</td>
<td>403</td>
<td>Q</td>
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#### Cooking energy sources

<table>
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<th>South</th>
<th>West</th>
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</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
</tr>
<tr>
<td>Other excluding fuel oil</td>
<td>1,203</td>
<td>121</td>
<td>339</td>
<td>109</td>
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<tr>
<td>Buildings without cooking</td>
<td>909</td>
<td>245</td>
<td>213</td>
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#### Energy end uses (more than one may apply)

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<th>South</th>
<th>West</th>
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</thead>
<tbody>
<tr>
<td>Buildings with space heating</td>
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<td>367</td>
<td>540</td>
<td>148</td>
</tr>
<tr>
<td>Buildings with cooling</td>
<td>1,743</td>
<td>264</td>
<td>536</td>
<td>146</td>
</tr>
<tr>
<td>Buildings with water heating</td>
<td>2,034</td>
<td>310</td>
<td>530</td>
<td>158</td>
</tr>
<tr>
<td>Buildings with cooking</td>
<td>1,237</td>
<td>122</td>
<td>340</td>
<td>109</td>
</tr>
<tr>
<td>Buildings with manufacturing</td>
<td>117</td>
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<td>Q</td>
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<tr>
<td>Buildings with electricity generation</td>
<td>921</td>
<td>142</td>
<td>423</td>
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#### Percent of floorspace heated

<table>
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<th>West</th>
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</thead>
<tbody>
<tr>
<td>Not heated</td>
<td>Q</td>
<td>Q</td>
<td>14</td>
<td>Q</td>
</tr>
<tr>
<td>1 to 50</td>
<td>113</td>
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<td>52</td>
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<td>51 to 99</td>
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<td>84</td>
<td>24</td>
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<tr>
<td>100</td>
<td>1,702</td>
<td>309</td>
<td>403</td>
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Table C36. Fuel oil expenditures by Census region, 2012

<table>
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<th></th>
<th>Total fuel oil expenditures (million dollars)</th>
<th>Fuel oil expenditures (dollars) per gallon</th>
<th>Fuel oil expenditures (dollars) per square foot</th>
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<tbody>
<tr>
<td></td>
<td>North-east</td>
<td>Midwest</td>
<td>South</td>
</tr>
<tr>
<td>All buildings</td>
<td>2,146</td>
<td>367</td>
<td>553</td>
</tr>
<tr>
<td><strong>Heating equipment</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(more than one may apply)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Heat pumps</td>
<td>153</td>
<td>12</td>
<td>109</td>
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<tr>
<td>Furnaces</td>
<td>Q</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td>Individual space heaters</td>
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<td>District heat</td>
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<td>Boilers</td>
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<td>Packaged heating units</td>
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<td>Other</td>
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<td>Q</td>
<td>Q</td>
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<tr>
<td><strong>Water-heating equipment</strong></td>
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<td></td>
</tr>
<tr>
<td>Centralized system</td>
<td>1,410</td>
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<td>306</td>
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<tr>
<td>Distributed system</td>
<td>233</td>
<td>22</td>
<td>55</td>
</tr>
<tr>
<td>Combination of centralized and distributed system</td>
<td>391</td>
<td>46</td>
<td>170</td>
</tr>
<tr>
<td><strong>Food preparation or serving areas in non-food service buildings</strong></td>
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<tr>
<td>(more than one may apply)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Snack bar or concession stand</td>
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<td>37</td>
<td>127</td>
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<tr>
<td>Fast food or small restaurant</td>
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<td>30</td>
<td>67</td>
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<tr>
<td>Cafeteria or large restaurant</td>
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<td>223</td>
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<tr>
<td>Commercial kitchen/ food preparation area</td>
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<tr>
<td>Small kitchen area</td>
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<td><strong>HVAC conservation features</strong></td>
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<td>(more than one may apply)</td>
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<tr>
<td>Economizer cycle</td>
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<td>260</td>
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<tr>
<td>Regular HVAC maintenance</td>
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<td>Building automation system (BAS)</td>
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<tr>
<td><strong>Equipment usage reduced when building not in full use</strong></td>
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<td>(more than one may apply)</td>
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<tr>
<td>Heating</td>
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<td><strong>Annual consumption (gallons)</strong></td>
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<td>1,000 or less</td>
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<td>59</td>
<td>102</td>
</tr>
<tr>
<td>1,001 to 5,000</td>
<td>490</td>
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<td>144</td>
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<tr>
<td>5,001 to 10,000</td>
<td>390</td>
<td>111</td>
<td>80</td>
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<tr>
<td>10,001 to 25,000</td>
<td>395</td>
<td>Q</td>
<td>57</td>
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<tr>
<td>Over 25,000</td>
<td>716</td>
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Table C36. Fuel oil expenditures by Census region, 2012

<table>
<thead>
<tr>
<th></th>
<th>Total fuel expenditures (million dollars)</th>
<th>Fuel oil expenditures (dollars)</th>
<th></th>
<th></th>
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<td>South</td>
<td>West</td>
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<tr>
<td>All buildings</td>
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<td>367</td>
<td>553</td>
<td>164</td>
<td>3.29</td>
<td>3.41</td>
<td>3.32</td>
<td>3.42</td>
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</table>

1These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

2In earlier CBECs publications, BAS was referred to as Energy Management and Control System (EMCS).

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See the Guide to the 2012 CBECs Detailed Tables or CBECs Terminology for definitions of terms used in these tables and/or comparison of differences with prior CBECs tables. Both references can be accessed from http://www.eia.gov/consumption/commercial/data/2012/ ● Statistics for the Energy end uses category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, ventilation, and air conditioning.