

**Table B4. Residential Sector Key Indicators and End-Use Consumption**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1996	Projections						
		2005						
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
<b>Key Indicators</b>								
<b>Households (millions)</b>								
Single-Family .....	69.61	77.46	77.46	77.43	77.40	77.38	77.38	77.37
Multifamily .....	24.76	26.54	26.54	26.52	26.50	26.49	26.49	26.48
Mobile Homes .....	6.00	7.08	7.08	7.08	7.07	7.07	7.07	7.07
<b>Total .....</b>	<b>100.37</b>	<b>111.08</b>	<b>111.08</b>	<b>111.02</b>	<b>110.97</b>	<b>110.95</b>	<b>110.94</b>	<b>110.92</b>
<b>Average House Square Footage .....</b>	<b>1649</b>	<b>1691</b>	<b>1691</b>	<b>1691</b>	<b>1691</b>	<b>1691</b>	<b>1691</b>	<b>1691</b>
<b>Energy Intensity (million Btu consumed per household)</b>								
Delivered Energy Consumption .....	110.92	106.30	105.97	103.34	101.50	100.88	100.59	100.05
Electricity Related Losses .....	81.78	82.08	80.85	77.75	75.07	74.40	74.35	73.50
<b>Total Energy Consumption .....</b>	<b>192.70</b>	<b>188.37</b>	<b>186.82</b>	<b>181.09</b>	<b>176.57</b>	<b>175.28</b>	<b>174.93</b>	<b>173.55</b>
<b>Delivered Energy Consumption by Fuel</b>								
<b>Electricity</b>								
Space Heating .....	0.47	0.48	0.48	0.46	0.45	0.45	0.45	0.44
Space Cooling .....	0.46	0.51	0.51	0.49	0.48	0.47	0.47	0.47
Water Heating .....	0.37	0.37	0.37	0.36	0.35	0.35	0.35	0.35
Refrigeration .....	0.41	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Cooking .....	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Clothes Dryers .....	0.19	0.21	0.21	0.21	0.20	0.20	0.20	0.20
Freezers .....	0.13	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Lighting .....	0.32	0.37	0.37	0.36	0.35	0.35	0.35	0.34
Clothes Washers <sup>1</sup> .....	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Dishwashers <sup>1</sup> .....	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Color Televisions .....	0.21	0.29	0.29	0.28	0.28	0.28	0.27	0.27
Personal Computers .....	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Furnace Fans .....	0.09	0.11	0.11	0.10	0.10	0.10	0.10	0.10
Other Uses <sup>2</sup> .....	0.79	1.35	1.34	1.30	1.27	1.26	1.26	1.25
<b>Delivered Energy .....</b>	<b>3.68</b>	<b>4.34</b>	<b>4.32</b>	<b>4.21</b>	<b>4.13</b>	<b>4.10</b>	<b>4.09</b>	<b>4.07</b>
<b>Natural Gas</b>								
Space Heating .....	3.77	3.86	3.85	3.73	3.65	3.62	3.61	3.58
Space Cooling .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating .....	1.31	1.35	1.35	1.31	1.28	1.27	1.27	1.26
Cooking .....	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Clothes Dryers .....	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Other Uses <sup>3</sup> .....	0.09	0.10	0.10	0.10	0.09	0.09	0.09	0.09
<b>Delivered Energy .....</b>	<b>5.39</b>	<b>5.53</b>	<b>5.52</b>	<b>5.35</b>	<b>5.25</b>	<b>5.21</b>	<b>5.19</b>	<b>5.16</b>
<b>Distillate</b>								
Space Heating .....	0.80	0.68	0.68	0.66	0.65	0.65	0.64	0.64
Water Heating .....	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Other Uses <sup>4</sup> .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Delivered Energy .....</b>	<b>0.89</b>	<b>0.77</b>	<b>0.77</b>	<b>0.75</b>	<b>0.74</b>	<b>0.74</b>	<b>0.73</b>	<b>0.73</b>
<b>Liquefied Petroleum Gas</b>								
Space Heating .....	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30
Water Heating .....	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Cooking .....	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Uses <sup>3</sup> .....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Delivered Energy .....</b>	<b>0.42</b>	<b>0.44</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>0.43</b>	<b>0.42</b>	<b>0.42</b>
Marketed Renewables (wood) <sup>5</sup> .....	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Other Fuels <sup>6</sup> .....	0.13	0.13	0.13	0.12	0.11	0.11	0.11	0.11

**Table B4. Residential Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Projections							Projections						
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
81.55	81.48	81.37	81.34	81.19	81.14	81.08	89.52	89.50	89.53	89.50	89.41	89.59	89.61
27.92	27.85	27.71	27.68	27.52	27.47	27.42	30.84	30.76	30.75	30.71	30.56	30.70	30.70
7.58	7.57	7.56	7.56	7.55	7.54	7.54	8.35	8.37	8.39	8.40	8.41	8.45	8.47
<b>117.04</b>	<b>116.90</b>	<b>116.64</b>	<b>116.58</b>	<b>116.26</b>	<b>116.15</b>	<b>116.04</b>	<b>128.71</b>	<b>128.62</b>	<b>128.68</b>	<b>128.60</b>	<b>128.38</b>	<b>128.74</b>	<b>128.78</b>
<b>1707</b>	<b>1707</b>	<b>1707</b>	<b>1707</b>	<b>1708</b>	<b>1708</b>	<b>1708</b>	<b>1732</b>	<b>1732</b>	<b>1732</b>	<b>1732</b>	<b>1733</b>	<b>1732</b>	<b>1732</b>
104.60	100.24	96.41	94.35	90.64	89.21	87.44	102.07	94.99	92.50	91.07	88.64	87.41	85.69
79.49	72.59	66.09	62.35	59.29	58.97	57.88	76.23	63.67	59.04	56.62	54.82	55.26	56.32
184.09	172.83	162.50	156.70	149.94	148.18	145.32	178.30	158.66	151.53	147.68	143.47	142.67	142.01
0.48	0.46	0.43	0.42	0.40	0.40	0.39	0.51	0.47	0.46	0.45	0.44	0.44	0.43
0.53	0.50	0.47	0.46	0.44	0.43	0.42	0.57	0.52	0.50	0.49	0.47	0.47	0.46
0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.41	0.38	0.37	0.37	0.36	0.35	0.34
0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17
0.23	0.22	0.21	0.20	0.20	0.20	0.19	0.26	0.24	0.24	0.23	0.23	0.23	0.23
0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
0.40	0.38	0.36	0.35	0.34	0.33	0.31	0.45	0.42	0.41	0.41	0.40	0.39	0.39
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.30	0.29	0.28	0.27	0.27	0.26	0.26	0.33	0.31	0.31	0.31	0.30	0.30	0.30
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.06	0.05	0.05	0.05	0.05	0.05
0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.14	0.13	0.13	0.13	0.13	0.12	0.12
1.55	1.48	1.43	1.41	1.36	1.34	1.32	1.96	1.84	1.81	1.79	1.76	1.75	1.73
<b>4.62</b>	<b>4.42</b>	<b>4.27</b>	<b>4.19</b>	<b>4.05</b>	<b>3.99</b>	<b>3.93</b>	<b>5.30</b>	<b>4.97</b>	<b>4.88</b>	<b>4.82</b>	<b>4.73</b>	<b>4.71</b>	<b>4.65</b>
3.97	3.76	3.55	3.44	3.22	3.15	3.05	4.13	3.74	3.57	3.47	3.31	3.25	3.15
0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1.40	1.34	1.28	1.24	1.18	1.17	1.14	1.48	1.35	1.29	1.27	1.22	1.21	1.18
0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.19
0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.05
0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.11	0.11	0.10	0.10	0.10	0.10	0.10
<b>5.71</b>	<b>5.43</b>	<b>5.15</b>	<b>5.00</b>	<b>4.72</b>	<b>4.64</b>	<b>4.51</b>	<b>5.98</b>	<b>5.45</b>	<b>5.22</b>	<b>5.10</b>	<b>4.89</b>	<b>4.81</b>	<b>4.68</b>
0.64	0.61	0.58	0.57	0.54	0.52	0.51	0.57	0.53	0.51	0.51	0.48	0.47	0.45
0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>0.73</b>	<b>0.70</b>	<b>0.67</b>	<b>0.65</b>	<b>0.62</b>	<b>0.60</b>	<b>0.59</b>	<b>0.66</b>	<b>0.61</b>	<b>0.60</b>	<b>0.59</b>	<b>0.56</b>	<b>0.55</b>	<b>0.53</b>
0.32	0.31	0.31	0.31	0.30	0.29	0.29	0.33	0.32	0.32	0.32	0.31	0.30	0.29
0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>0.45</b>	<b>0.44</b>	<b>0.44</b>	<b>0.43</b>	<b>0.42</b>	<b>0.41</b>	<b>0.41</b>	<b>0.47</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>	<b>0.45</b>	<b>0.44</b>	<b>0.42</b>
0.61	0.61	0.62	0.62	0.63	0.63	0.63	0.62	0.63	0.64	0.64	0.65	0.66	0.67
0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.12	0.10	0.10	0.10	0.09	0.09	0.09

**Table B4. Residential Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1996	Projections						
		2005						
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
<b>Delivered Energy Consumption by End-Use</b>								
Space Heating .....	6.10	6.06	6.05	5.89	5.78	5.75	5.73	5.69
Space Cooling .....	0.47	0.51	0.51	0.49	0.48	0.48	0.47	0.47
Water Heating .....	1.84	1.89	1.89	1.83	1.80	1.79	1.78	1.77
Refrigeration .....	0.41	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Cooking .....	0.33	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Clothes Dryers .....	0.24	0.27	0.27	0.26	0.25	0.25	0.25	0.25
Freezers .....	0.13	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Lighting .....	0.32	0.37	0.37	0.36	0.35	0.35	0.35	0.34
Clothes Washers .....	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Dishwashers .....	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Color Televisions .....	0.21	0.29	0.29	0.28	0.28	0.28	0.27	0.27
Personal Computers .....	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Furnace Fans .....	0.09	0.11	0.11	0.10	0.10	0.10	0.10	0.10
Other Uses <sup>7</sup> .....	0.90	1.45	1.45	1.41	1.38	1.37	1.36	1.36
<b>Delivered Energy .....</b>	<b>11.13</b>	<b>11.81</b>	<b>11.77</b>	<b>11.47</b>	<b>11.26</b>	<b>11.19</b>	<b>11.16</b>	<b>11.10</b>
<b>Electricity Related Losses .....</b>	<b>8.21</b>	<b>9.12</b>	<b>8.98</b>	<b>8.63</b>	<b>8.33</b>	<b>8.25</b>	<b>8.25</b>	<b>8.15</b>
<b>Total Energy Consumption by End-Use .....</b>								
Space Heating .....	7.15	7.07	7.03	6.83	6.69	6.65	6.62	6.58
Space Cooling .....	1.50	1.58	1.56	1.49	1.44	1.43	1.42	1.41
Water Heating .....	2.66	2.68	2.66	2.58	2.51	2.49	2.49	2.47
Refrigeration .....	1.32	0.98	0.97	0.96	0.95	0.95	0.95	0.94
Cooking .....	0.62	0.65	0.64	0.64	0.63	0.63	0.63	0.63
Clothes Dryers .....	0.68	0.71	0.71	0.68	0.66	0.65	0.65	0.65
Freezers .....	0.42	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Lighting .....	1.05	1.15	1.13	1.09	1.05	1.04	1.04	1.03
Clothes Washers .....	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08
Dishwashers .....	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Color Televisions .....	0.68	0.91	0.90	0.87	0.84	0.83	0.83	0.82
Personal Computers .....	0.05	0.10	0.10	0.09	0.09	0.09	0.09	0.09
Furnace Fans .....	0.29	0.33	0.33	0.32	0.30	0.30	0.30	0.30
Other Uses <sup>7</sup> .....	2.67	4.28	4.23	4.08	3.95	3.91	3.90	3.86
<b>Total .....</b>	<b>19.34</b>	<b>20.92</b>	<b>20.75</b>	<b>20.11</b>	<b>19.59</b>	<b>19.45</b>	<b>19.41</b>	<b>19.25</b>
<b>Non-Marketed Renewables</b>								
Geothermal <sup>8</sup> .....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar <sup>9</sup> .....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Total .....</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>

**Table B4. Residential Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Projections							Projections						
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
6.14	5.86	5.59	5.45	5.18	5.09	4.96	6.28	5.78	5.60	5.49	5.29	5.21	5.08
0.54	0.50	0.48	0.46	0.44	0.43	0.42	0.58	0.53	0.51	0.50	0.48	0.48	0.47
1.96	1.87	1.79	1.75	1.67	1.64	1.61	2.06	1.90	1.84	1.81	1.75	1.72	1.68
0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27
0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.40	0.40	0.40	0.40	0.40	0.40	0.40
0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.32	0.30	0.29	0.29	0.29	0.28	0.28
0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
0.40	0.38	0.36	0.35	0.34	0.33	0.31	0.45	0.42	0.41	0.41	0.40	0.39	0.39
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.30	0.29	0.28	0.27	0.27	0.26	0.26	0.33	0.31	0.31	0.31	0.30	0.30	0.30
0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.06	0.05	0.05	0.05	0.05	0.05
0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.14	0.13	0.13	0.13	0.13	0.12	0.12
1.67	1.59	1.54	1.51	1.46	1.44	1.42	2.09	1.96	1.93	1.91	1.87	1.87	1.84
<b>12.24</b>	<b>11.72</b>	<b>11.25</b>	<b>11.00</b>	<b>10.54</b>	<b>10.36</b>	<b>10.15</b>	<b>13.14</b>	<b>12.22</b>	<b>11.90</b>	<b>11.71</b>	<b>11.38</b>	<b>11.25</b>	<b>11.04</b>
<b>9.30</b>	<b>8.49</b>	<b>7.71</b>	<b>7.27</b>	<b>6.89</b>	<b>6.85</b>	<b>6.72</b>	<b>9.81</b>	<b>8.19</b>	<b>7.60</b>	<b>7.28</b>	<b>7.04</b>	<b>7.11</b>	<b>7.25</b>
7.11	6.74	6.37	6.18	5.87	5.77	5.63	7.23	6.55	6.31	6.17	5.95	5.87	5.75
1.60	1.46	1.33	1.26	1.18	1.16	1.14	1.63	1.38	1.29	1.24	1.18	1.18	1.18
2.72	2.56	2.42	2.34	2.22	2.19	2.14	2.82	2.53	2.42	2.36	2.28	2.25	2.22
0.86	0.83	0.80	0.78	0.76	0.77	0.77	0.78	0.72	0.70	0.68	0.68	0.69	0.70
0.67	0.65	0.63	0.62	0.62	0.62	0.62	0.71	0.68	0.66	0.65	0.65	0.65	0.66
0.74	0.68	0.64	0.61	0.58	0.58	0.57	0.80	0.70	0.66	0.64	0.63	0.63	0.63
0.23	0.22	0.21	0.21	0.20	0.20	0.20	0.21	0.19	0.18	0.18	0.18	0.18	0.18
1.20	1.10	1.02	0.97	0.91	0.88	0.85	1.28	1.11	1.05	1.02	0.99	0.99	0.99
0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.15	0.14	0.14	0.14	0.13	0.14	0.14
0.91	0.84	0.78	0.75	0.72	0.71	0.70	0.96	0.83	0.79	0.77	0.75	0.75	0.76
0.12	0.12	0.11	0.10	0.10	0.10	0.10	0.17	0.15	0.14	0.14	0.13	0.13	0.13
0.36	0.33	0.31	0.29	0.28	0.28	0.27	0.40	0.35	0.33	0.32	0.31	0.31	0.31
4.79	4.44	4.12	3.95	3.78	3.74	3.69	5.72	4.99	4.74	4.61	4.49	4.52	4.55
<b>21.55</b>	<b>20.20</b>	<b>18.95</b>	<b>18.27</b>	<b>17.43</b>	<b>17.21</b>	<b>16.86</b>	<b>22.95</b>	<b>20.41</b>	<b>19.50</b>	<b>18.99</b>	<b>18.42</b>	<b>18.37</b>	<b>18.29</b>
0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.05	0.05
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.06</b>	<b>0.06</b>

<sup>1</sup>Does not include water heating of load.

<sup>2</sup>Includes small electric devices, heating elements and motors.

<sup>3</sup>Includes such appliances as swimming pool heaters, outdoor grills, and outdoor lighting (natural gas).

<sup>4</sup>Includes such appliances as swimming pool and hot tub heaters.

<sup>5</sup>Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the *Residential Energy Consumption Survey 1993*.

<sup>6</sup>Includes kerosene and coal.

<sup>7</sup>Includes all other uses listed above.

<sup>8</sup>Includes primary energy displaced by geothermal heat pumps in space heating and cooling applications.

<sup>9</sup>Includes primary energy displaced by solar thermal water heaters.

Btu = British thermal unit.

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

**Sources:** 1996: Energy Information Administration (EIA) *Short-Term Energy Outlook, August 1997*. Online. <http://www.eia.doe.gov/emeu/steo/pub/upd/aug97/index.html> (August 21, 1997). **Projections:** EIA, AEO98 National Energy Modeling System runs KYBASE.D080398A, FD24ABV.D080398B, FD1998.D080398B, FD09ABV.D080398B, FD1990.D080398B, FD03BLW.D080398B, and FD07BLW.D080398B.

**Table B5. Commercial Sector Key Indicators and End-Use Consumption**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1996	Projections						
		2005						1990 Level
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	3 Percent Below	7 Percent Below	
<b>Key Indicators</b>								
<b>Total Floor Space (billion square feet)</b>								
Surviving .....	69.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3
New Additions .....	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
<b>Total .....</b>	<b>70.9</b>	<b>79.0</b>	<b>79.0</b>	<b>79.0</b>	<b>79.0</b>	<b>79.0</b>	<b>79.0</b>	<b>79.0</b>
<b>Energy Consumption Intensity (thousand Btu per square foot)</b>								
Delivered Energy Consumption .....	105.3	104.8	104.5	101.5	99.0	98.0	97.7	96.9
Electricity Related Losses .....	106.0	104.2	102.6	98.4	94.5	93.2	93.3	92.0
<b>Total Energy Consumption .....</b>	<b>211.2</b>	<b>209.0</b>	<b>207.2</b>	<b>199.9</b>	<b>193.5</b>	<b>191.2</b>	<b>191.0</b>	<b>188.9</b>
<b>Delivered Energy Consumption by Fuel</b>								
<b>Electricity</b>								
Space Heating .....	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10
Space Cooling .....	0.51	0.54	0.54	0.52	0.51	0.50	0.50	0.50
Water Heating .....	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
Ventilation .....	0.17	0.18	0.18	0.18	0.17	0.17	0.17	0.17
Cooking .....	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting .....	1.16	1.25	1.24	1.21	1.17	1.16	1.16	1.15
Refrigeration .....	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Office Equipment (PC) .....	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Office Equipment (non-PC) .....	0.20	0.25	0.25	0.24	0.24	0.23	0.23	0.23
Other Uses <sup>1</sup> .....	0.80	1.15	1.14	1.12	1.09	1.07	1.08	1.07
<b>Delivered Energy .....</b>	<b>3.37</b>	<b>3.91</b>	<b>3.90</b>	<b>3.80</b>	<b>3.70</b>	<b>3.65</b>	<b>3.65</b>	<b>3.63</b>
<b>Natural Gas<sup>2</sup></b>								
Space Heating .....	1.34	1.38	1.37	1.33	1.29	1.28	1.28	1.26
Space Cooling .....	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Water Heating .....	0.46	0.50	0.49	0.48	0.47	0.46	0.46	0.45
Cooking .....	0.18	0.21	0.21	0.20	0.20	0.20	0.20	0.19
Other Uses <sup>3</sup> .....	1.29	1.52	1.52	1.47	1.44	1.42	1.41	1.40
<b>Delivered Energy .....</b>	<b>3.30</b>	<b>3.63</b>	<b>3.62</b>	<b>3.51</b>	<b>3.42</b>	<b>3.39</b>	<b>3.37</b>	<b>3.34</b>
<b>Distillate</b>								
Space Heating .....	0.20	0.17	0.17	0.16	0.16	0.16	0.16	0.15
Water Heating .....	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04
Other Uses <sup>4</sup> .....	0.19	0.17	0.17	0.16	0.16	0.16	0.16	0.16
<b>Delivered Energy .....</b>	<b>0.44</b>	<b>0.39</b>	<b>0.39</b>	<b>0.37</b>	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>	<b>0.35</b>
<b>Other Fuels<sup>5</sup> .....</b>	<b>0.36</b>	<b>0.34</b>	<b>0.34</b>	<b>0.34</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>	<b>0.33</b>
<b>Marketed Renewable Fuels</b>								
Biomass .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Delivered Energy .....</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Delivered Energy Consumption by End-Use</b>								
Space Heating .....	1.65	1.65	1.65	1.60	1.55	1.54	1.53	1.52
Space Cooling .....	0.53	0.57	0.57	0.55	0.54	0.53	0.53	0.53
Water Heating .....	0.68	0.72	0.72	0.69	0.68	0.67	0.67	0.66
Ventilation .....	0.17	0.18	0.18	0.18	0.17	0.17	0.17	0.17
Cooking .....	0.21	0.24	0.24	0.23	0.23	0.22	0.22	0.22
Lighting .....	1.16	1.25	1.24	1.21	1.17	1.16	1.16	1.15
Refrigeration .....	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Office Equipment (PC) .....	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Office Equipment (non-PC) .....	0.20	0.25	0.25	0.24	0.24	0.23	0.23	0.23
Other Uses <sup>6</sup> .....	2.64	3.18	3.18	3.09	3.02	2.99	2.98	2.96
<b>Delivered Energy .....</b>	<b>7.47</b>	<b>8.28</b>	<b>8.26</b>	<b>8.02</b>	<b>7.82</b>	<b>7.74</b>	<b>7.72</b>	<b>7.66</b>

**Table B5. Commercial Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Projections													
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
81.1	81.1	81.0	80.9	80.8	80.7	80.7	85.7	85.5	85.5	85.5	85.4	85.4	85.3
1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<b>82.8</b>	<b>82.7</b>	<b>82.6</b>	<b>82.6</b>	<b>82.4</b>	<b>82.4</b>	<b>82.3</b>	<b>86.8</b>	<b>86.7</b>	<b>86.6</b>	<b>86.6</b>	<b>86.5</b>	<b>86.5</b>	<b>86.4</b>
105.0	99.8	94.6	91.6	85.2	82.6	79.2	105.8	97.0	93.8	91.7	88.0	86.1	83.1
101.3	91.8	82.6	77.2	71.7	70.7	68.6	96.7	79.6	73.4	70.0	67.0	67.2	68.0
206.2	191.6	177.2	168.9	156.9	153.3	147.8	202.4	176.7	167.1	161.7	154.9	153.4	151.1
0.11	0.10	0.10	0.09	0.09	0.09	0.08	0.10	0.09	0.09	0.09	0.08	0.08	0.08
0.54	0.51	0.49	0.48	0.45	0.44	0.43	0.54	0.50	0.49	0.48	0.47	0.46	0.45
0.17	0.16	0.16	0.15	0.14	0.14	0.13	0.16	0.15	0.15	0.14	0.14	0.14	0.13
0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.19	0.17	0.17	0.16	0.16	0.16	0.15
0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
1.28	1.20	1.12	1.08	1.01	0.97	0.94	1.31	1.16	1.12	1.09	1.04	1.02	0.98
0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.16	0.16
0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.11	0.10	0.10	0.10	0.09	0.09	0.09
0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.34	0.32	0.32	0.31	0.31	0.30	0.30
1.33	1.27	1.22	1.19	1.13	1.11	1.08	1.59	1.50	1.47	1.45	1.42	1.41	1.39
<b>4.17</b>	<b>3.96</b>	<b>3.78</b>	<b>3.68</b>	<b>3.48</b>	<b>3.39</b>	<b>3.30</b>	<b>4.53</b>	<b>4.19</b>	<b>4.08</b>	<b>4.02</b>	<b>3.90</b>	<b>3.85</b>	<b>3.77</b>
1.42	1.34	1.25	1.20	1.08	1.04	0.97	1.43	1.29	1.22	1.18	1.11	1.07	1.02
0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.04	0.03	0.03	0.03	0.03	0.03	0.03
0.52	0.49	0.46	0.44	0.39	0.38	0.35	0.56	0.50	0.47	0.45	0.43	0.41	0.39
0.22	0.21	0.19	0.19	0.17	0.16	0.15	0.24	0.21	0.20	0.19	0.18	0.17	0.16
1.60	1.52	1.43	1.38	1.26	1.21	1.15	1.66	1.52	1.45	1.41	1.34	1.30	1.24
<b>3.79</b>	<b>3.59</b>	<b>3.36</b>	<b>3.22</b>	<b>2.92</b>	<b>2.81</b>	<b>2.65</b>	<b>3.93</b>	<b>3.55</b>	<b>3.37</b>	<b>3.27</b>	<b>3.09</b>	<b>2.99</b>	<b>2.84</b>
0.16	0.15	0.14	0.14	0.12	0.12	0.11	0.14	0.13	0.12	0.12	0.11	0.11	0.10
0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03
0.17	0.16	0.15	0.15	0.14	0.13	0.12	0.18	0.16	0.16	0.16	0.15	0.14	0.13
<b>0.38</b>	<b>0.36</b>	<b>0.34</b>	<b>0.33</b>	<b>0.30</b>	<b>0.28</b>	<b>0.26</b>	<b>0.36</b>	<b>0.33</b>	<b>0.32</b>	<b>0.31</b>	<b>0.30</b>	<b>0.28</b>	<b>0.26</b>
<b>0.35</b>	<b>0.34</b>	<b>0.33</b>	<b>0.33</b>	<b>0.32</b>	<b>0.32</b>	<b>0.31</b>	<b>0.36</b>	<b>0.34</b>	<b>0.34</b>	<b>0.34</b>	<b>0.33</b>	<b>0.32</b>	<b>0.31</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1.68	1.59	1.49	1.43	1.29	1.24	1.17	1.67	1.51	1.44	1.39	1.31	1.27	1.20
0.58	0.55	0.52	0.51	0.48	0.47	0.45	0.58	0.54	0.52	0.51	0.50	0.49	0.48
0.74	0.70	0.65	0.63	0.57	0.55	0.52	0.76	0.69	0.65	0.63	0.60	0.58	0.55
0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.19	0.17	0.17	0.16	0.16	0.16	0.15
0.25	0.24	0.22	0.21	0.19	0.18	0.17	0.26	0.23	0.22	0.21	0.20	0.19	0.18
1.28	1.20	1.12	1.08	1.01	0.97	0.94	1.31	1.16	1.12	1.09	1.04	1.02	0.98
0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.16	0.16
0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.11	0.10	0.10	0.10	0.09	0.09	0.09
0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.34	0.32	0.32	0.31	0.31	0.30	0.30
3.45	3.30	3.14	3.05	2.85	2.77	2.66	3.79	3.52	3.43	3.36	3.24	3.18	3.07
<b>8.69</b>	<b>8.26</b>	<b>7.82</b>	<b>7.56</b>	<b>7.02</b>	<b>6.80</b>	<b>6.52</b>	<b>9.18</b>	<b>8.41</b>	<b>8.12</b>	<b>7.94</b>	<b>7.61</b>	<b>7.45</b>	<b>7.18</b>

**Table B5. Commercial Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1996	Projections						
		2005						
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
Electricity Related Losses .....	7.52	8.23	8.11	7.78	7.46	7.36	7.37	7.27
<b>Total Energy Consumption by End-Use</b>								
Space Heating .....	1.91	1.88	1.87	1.81	1.76	1.74	1.74	1.72
Space Cooling .....	1.67	1.70	1.68	1.62	1.56	1.54	1.54	1.52
Water Heating .....	1.07	1.08	1.08	1.04	1.01	0.99	0.99	0.98
Ventilation .....	0.55	0.57	0.56	0.54	0.52	0.51	0.51	0.50
Cooking .....	0.28	0.30	0.30	0.29	0.28	0.28	0.28	0.28
Lighting .....	3.76	3.88	3.83	3.68	3.53	3.49	3.48	3.44
Refrigeration .....	0.45	0.47	0.47	0.46	0.46	0.46	0.46	0.46
Office Equipment (PC) .....	0.22	0.25	0.25	0.24	0.23	0.23	0.23	0.23
Office Equipment (non-PC) .....	0.63	0.78	0.77	0.74	0.71	0.70	0.70	0.70
Other Uses <sup>6</sup> .....	4.43	5.59	5.56	5.38	5.22	5.16	5.16	5.10
<b>Total</b> .....	<b>14.98</b>	<b>16.51</b>	<b>16.37</b>	<b>15.80</b>	<b>15.29</b>	<b>15.10</b>	<b>15.09</b>	<b>14.93</b>
<b>Non-Marketed Renewable Fuels</b>								
Solar <sup>7</sup> .....	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Total</b> .....	<b>0.01</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>

**Table B5. Commercial Sector Key Indicators and End-Use Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Projections													
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
8.39	7.60	6.82	6.38	5.91	5.82	5.64	8.39	6.90	6.35	6.06	5.79	5.81	5.88
1.89	1.78	1.66	1.59	1.44	1.39	1.31	1.85	1.66	1.57	1.52	1.44	1.39	1.33
1.66	1.53	1.41	1.34	1.25	1.23	1.19	1.58	1.36	1.28	1.24	1.20	1.19	1.19
1.08	1.01	0.93	0.89	0.81	0.79	0.75	1.06	0.93	0.88	0.85	0.80	0.79	0.76
0.56	0.52	0.47	0.45	0.41	0.41	0.39	0.54	0.46	0.43	0.41	0.39	0.39	0.39
0.31	0.29	0.27	0.25	0.23	0.22	0.21	0.31	0.27	0.25	0.24	0.23	0.22	0.21
3.85	3.49	3.15	2.96	2.72	2.64	2.54	3.73	3.08	2.86	2.74	2.59	2.55	2.52
0.48	0.46	0.44	0.43	0.42	0.43	0.42	0.47	0.44	0.42	0.41	0.41	0.41	0.42
0.27	0.25	0.23	0.22	0.21	0.20	0.20	0.30	0.26	0.25	0.24	0.23	0.23	0.24
0.85	0.79	0.73	0.69	0.65	0.64	0.62	0.98	0.86	0.81	0.79	0.76	0.76	0.77
6.12	5.73	5.35	5.12	4.78	4.68	4.52	6.74	5.99	5.72	5.56	5.35	5.31	5.24
<b>17.08</b>	<b>15.86</b>	<b>14.64</b>	<b>13.94</b>	<b>12.93</b>	<b>12.63</b>	<b>12.16</b>	<b>17.57</b>	<b>15.31</b>	<b>14.48</b>	<b>14.00</b>	<b>13.40</b>	<b>13.26</b>	<b>13.06</b>
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>

<sup>1</sup>Includes miscellaneous uses, such as service station equipment, district services, automated teller machines, telecommunications equipment, and medical equipment.

<sup>2</sup>Excludes estimated consumption from independent power producers.

<sup>3</sup>Includes miscellaneous uses, such as district services, pumps, lighting, emergency electric generators, and manufacturing performed in commercial buildings.

<sup>4</sup>Includes miscellaneous uses, such as cooking, district services, and emergency electric generators.

<sup>5</sup>Includes residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

<sup>6</sup>Includes miscellaneous uses, such as service station equipment, district services, automated teller machines, telecommunications equipment, medical equipment, pumps, lighting, emergency electric generators, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

<sup>7</sup>Includes primary energy displaced by solar thermal water heaters.

Btu = British thermal unit.

PC = Personal computer.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.000 are values that round to 0.00, because they are less than 0.005.

Sources: 1996 Energy Information Administration, *Short-Term Energy Outlook, August 1997*, Online. <http://www.eia.doe.gov/emeu/steo/pub/upd/aug97/index.html> (August 21, 1997).

Projections: EIA, AEO98 National Energy Modeling System runs KYBASE.D080398A, FD24ABV.D080398B, FD1998.D080398B, FD09ABV.D080398B, FD1990.D080398B, FD03BLW.D080398B, and FD07BLW.D080398B.



**Table B6. Industrial Sector Key Indicators and Consumption**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	1996	Projections						
		2005						
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
<b>Key Indicators</b>								
<b>Value of Gross Output (billion 1987 dollars)</b>								
Manufacturing .....	3030	3798	3797	3776	3756	3747	3744	3736
Nonmanufacturing .....	774	896	895	888	883	879	879	877
<b>Total .....</b>	<b>3805</b>	<b>4694</b>	<b>4692</b>	<b>4664</b>	<b>4639</b>	<b>4626</b>	<b>4623</b>	<b>4613</b>
<b>Energy Prices (1996 dollars per million Btu)</b>								
Electricity .....	13.37	11.57	11.83	13.41	14.61	15.14	15.25	15.56
Natural Gas .....	2.96	2.80	2.88	3.51	3.93	4.12	4.22	4.36
Steam Coal .....	1.46	1.30	1.42	2.56	3.27	3.54	3.74	3.96
Residual Oil .....	2.99	2.75	2.84	3.77	4.34	4.55	4.72	4.90
Distillate Oil .....	5.50	5.43	5.53	6.35	6.87	7.05	7.22	7.38
Liquefied Petroleum Gas .....	7.80	6.70	6.83	7.45	7.80	7.97	8.10	8.24
Motor Gasoline .....	9.86	8.77	8.94	9.68	10.21	10.41	10.55	10.71
Metallurgical Coal .....	1.77	1.63	1.76	2.88	3.60	3.86	4.06	4.28
<b>Energy Consumption</b>								
<b>Consumption<sup>1</sup></b>								
Purchased Electricity .....	3.46	4.05	4.03	3.98	3.92	3.88	3.88	3.85
Natural Gas <sup>2</sup> .....	9.96	10.97	10.97	11.01	11.11	11.13	11.15	11.14
Steam Coal .....	1.55	1.69	1.67	1.40	1.24	1.19	1.17	1.15
Metallurgical Coal and Coke <sup>3</sup> .....	0.85	0.92	0.92	0.90	0.89	0.89	0.89	0.88
Residual Fuel .....	0.34	0.35	0.35	0.35	0.34	0.34	0.33	0.34
Distillate .....	1.17	1.33	1.33	1.33	1.33	1.32	1.32	1.33
Liquefied Petroleum Gas .....	2.12	2.28	2.28	2.27	2.25	2.25	2.25	2.24
Petrochemical Feedstocks .....	1.28	1.39	1.39	1.38	1.36	1.36	1.36	1.35
Other Petroleum <sup>4</sup> .....	4.31	4.78	4.77	4.74	4.67	4.63	4.61	4.58
Renewables <sup>5</sup> .....	1.82	2.11	2.11	2.11	2.10	2.09	2.09	2.09
<b>Delivered Energy .....</b>	<b>26.87</b>	<b>29.87</b>	<b>29.82</b>	<b>29.46</b>	<b>29.21</b>	<b>29.09</b>	<b>29.04</b>	<b>28.95</b>
Electricity Related Losses .....	7.72	8.52	8.39	8.16	7.91	7.82	7.81	7.71
<b>Total .....</b>	<b>34.59</b>	<b>38.39</b>	<b>38.22</b>	<b>37.61</b>	<b>37.12</b>	<b>36.91</b>	<b>36.86</b>	<b>36.66</b>
<b>Consumption per Unit of Output<sup>1</sup></b> (thousand Btu per 1987 dollars)								
Purchased Electricity .....	0.91	0.86	0.86	0.85	0.84	0.84	0.84	0.83
Natural Gas <sup>2</sup> .....	2.62	2.34	2.34	2.36	2.39	2.41	2.41	2.41
Steam Coal .....	0.41	0.36	0.36	0.30	0.27	0.26	0.25	0.25
Metallurgical Coal and Coke <sup>3</sup> .....	0.22	0.20	0.20	0.19	0.19	0.19	0.19	0.19
Residual Fuel .....	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.07
Distillate .....	0.31	0.28	0.28	0.28	0.29	0.29	0.29	0.29
Liquefied Petroleum Gas .....	0.56	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Petrochemical Feedstocks .....	0.34	0.30	0.30	0.29	0.29	0.29	0.29	0.29
Other Petroleum <sup>4</sup> .....	1.13	1.02	1.02	1.02	1.01	1.00	1.00	0.99
Renewables <sup>5</sup> .....	0.48	0.45	0.45	0.45	0.45	0.45	0.45	0.45
<b>Delivered Energy .....</b>	<b>7.06</b>	<b>6.36</b>	<b>6.36</b>	<b>6.32</b>	<b>6.30</b>	<b>6.29</b>	<b>6.28</b>	<b>6.27</b>
Electricity Related Losses .....	2.03	1.82	1.79	1.75	1.71	1.69	1.69	1.67
<b>Total .....</b>	<b>9.09</b>	<b>8.18</b>	<b>8.15</b>	<b>8.06</b>	<b>8.00</b>	<b>7.98</b>	<b>7.97</b>	<b>7.95</b>

**Table B6. Industrial Sector Key Indicators and Consumption (Continued)**  
(Quadrillion Btu per Year, Unless Otherwise Noted)

Projections													
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
4316	4262	4202	4188	4083	4063	4026	4954	4850	4828	4797	4772	4766	4751
967	952	940	937	916	912	906	1061	1044	1037	1035	1031	1035	1036
<b>5283</b>	<b>5214</b>	<b>5142</b>	<b>5126</b>	<b>5000</b>	<b>4975</b>	<b>4932</b>	<b>6015</b>	<b>5894</b>	<b>5865</b>	<b>5832</b>	<b>5803</b>	<b>5801</b>	<b>5786</b>
11.28	13.86	15.96	17.12	19.50	20.51	21.51	10.31	13.83	14.74	15.38	16.52	17.00	17.67
2.98	3.96	5.06	5.74	7.26	7.81	8.65	3.25	5.06	5.86	6.35	7.24	7.71	8.50
1.26	2.96	4.53	5.37	7.65	8.65	10.03	1.18	3.67	4.27	4.72	6.19	7.20	8.83
2.94	4.17	5.35	5.96	7.73	8.56	9.65	3.16	4.97	5.39	5.74	6.85	7.63	8.91
5.68	6.76	7.83	8.35	9.93	10.66	11.70	5.86	7.40	7.76	8.10	9.14	9.80	10.97
7.01	7.79	8.41	8.76	9.85	10.44	11.37	6.99	8.12	8.18	8.47	9.36	9.95	10.87
9.13	10.26	11.17	11.57	12.91	13.55	14.50	9.33	10.78	11.04	11.36	12.17	12.79	13.83
1.58	3.28	4.85	5.69	7.98	8.98	10.36	1.51	4.00	4.60	5.05	6.55	7.56	9.19
4.30	4.13	3.99	3.95	3.78	3.74	3.67	4.51	4.27	4.19	4.13	4.04	4.01	3.98
11.43	11.47	11.52	11.54	11.44	11.43	11.12	11.78	11.65	11.45	11.31	11.29	11.24	11.37
1.74	1.36	1.14	1.07	0.92	0.87	0.83	1.79	1.36	1.30	1.26	1.09	1.00	0.90
0.90	0.87	0.84	0.83	0.82	0.82	0.81	0.85	0.76	0.74	0.73	0.72	0.72	0.72
0.35	0.35	0.35	0.36	0.35	0.33	0.41	0.35	0.37	0.39	0.50	0.49	0.47	0.44
1.42	1.41	1.42	1.43	1.43	1.43	1.44	1.52	1.52	1.54	1.55	1.57	1.57	1.58
2.44	2.40	2.38	2.38	2.34	2.35	2.37	2.52	2.47	2.47	2.46	2.50	2.50	2.47
1.48	1.45	1.42	1.41	1.37	1.36	1.35	1.52	1.46	1.45	1.44	1.42	1.42	1.41
5.03	4.92	4.85	4.84	4.65	4.54	4.44	5.34	5.34	5.45	5.41	5.28	5.21	5.08
2.25	2.25	2.24	2.23	2.19	2.18	2.17	2.35	2.39	2.39	2.39	2.39	2.39	2.40
<b>31.35</b>	<b>30.60</b>	<b>30.14</b>	<b>30.04</b>	<b>29.29</b>	<b>29.05</b>	<b>28.61</b>	<b>32.53</b>	<b>31.59</b>	<b>31.37</b>	<b>31.19</b>	<b>30.81</b>	<b>30.53</b>	<b>30.34</b>
8.65	7.92	7.21	6.85	6.44	6.43	6.28	8.37	7.05	6.51	6.23	6.01	6.06	6.20
<b>40.00</b>	<b>38.52</b>	<b>37.34</b>	<b>36.89</b>	<b>35.73</b>	<b>35.48</b>	<b>34.88</b>	<b>40.89</b>	<b>38.64</b>	<b>37.88</b>	<b>37.42</b>	<b>36.82</b>	<b>36.60</b>	<b>36.55</b>
0.81	0.79	0.78	0.77	0.76	0.75	0.74	0.75	0.73	0.71	0.71	0.70	0.69	0.69
2.16	2.20	2.24	2.25	2.29	2.30	2.26	1.96	1.98	1.95	1.94	1.95	1.94	1.97
0.33	0.26	0.22	0.21	0.18	0.17	0.17	0.30	0.23	0.22	0.22	0.19	0.17	0.16
0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.14	0.13	0.13	0.13	0.12	0.12	0.12
0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.06	0.06	0.07	0.09	0.08	0.08	0.08
0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.25	0.26	0.26	0.27	0.27	0.27	0.27
0.46	0.46	0.46	0.46	0.47	0.47	0.48	0.42	0.42	0.42	0.42	0.43	0.43	0.43
0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.25	0.25	0.25	0.25	0.24	0.24	0.24
0.95	0.94	0.94	0.94	0.93	0.91	0.90	0.89	0.91	0.93	0.93	0.91	0.90	0.88
0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.39	0.41	0.41	0.41	0.41	0.41	0.41
<b>5.93</b>	<b>5.87</b>	<b>5.86</b>	<b>5.86</b>	<b>5.86</b>	<b>5.84</b>	<b>5.80</b>	<b>5.41</b>	<b>5.36</b>	<b>5.35</b>	<b>5.35</b>	<b>5.31</b>	<b>5.26</b>	<b>5.24</b>
1.64	1.52	1.40	1.34	1.29	1.29	1.27	1.39	1.20	1.11	1.07	1.04	1.05	1.07
<b>7.57</b>	<b>7.39</b>	<b>7.26</b>	<b>7.20</b>	<b>7.15</b>	<b>7.13</b>	<b>7.07</b>	<b>6.80</b>	<b>6.56</b>	<b>6.46</b>	<b>6.42</b>	<b>6.34</b>	<b>6.31</b>	<b>6.32</b>

<sup>1</sup>Fuel consumption includes consumption for cogeneration.

<sup>2</sup>Includes lease and plant fuel.

<sup>3</sup>Includes net coke coal imports.

<sup>4</sup>Includes petroleum coke, asphalt, road oil, lubricants, motor gasoline, still gas, and miscellaneous petroleum products.

<sup>5</sup>Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

Btu = British thermal unit.

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

**Sources:** 1996 prices for gasoline and distillate are based on prices in various issues of Energy Information Administration (EIA), *Petroleum Marketing Monthly*, DOE/EIA-0380(96/03-97/04) (Washington, DC, 1996 - 97). 1996 coal prices: EIA, *Monthly Energy Review*, DOE/EIA-0035(97/08) (Washington, DC, August 1997). 1996 electricity prices: EIA, AEO98 National Energy Modeling System runs KYBASE.D080398A, FD24ABV.D080398B, FD1998.D080398B, FD09ABV.D080398B, FD1990.D080398B, FD03BLW.D080398B, and FD07BLW.D080398B. Other 1996 prices derived from EIA, *State Energy Data Report 1994*. Online. <ftp://ftp.eia.doe.gov/pub/state.data/021494.pdf> (August 26, 1997). Other 1996 values: EIA, *Short-Term Energy Outlook, August 1997*. Online. <http://www.eia.doe.gov/emeu/steo/pub/upd/aug97/index.html> (August 21, 1997). **Projections:** EIA, AEO98 National Energy Modeling System runs KYBASE.D080398A, FD24ABV.D080398B, FD1998.D080398B, FD09ABV.D080398B, FD1990.D080398B, FD03BLW.D080398B, and FD07BLW.D080398B.

**Table B7. Transportation Sector Key Indicators and Delivered Energy Consumption**

Key Indicators and Consumption	1996	Projections								
		2005						1990 Level	3 Percent Below	7 Percent Below
		Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below			
<b>Key Indicators</b>										
Level of Travel (billions)										
Light-Duty Vehicles <8,500 lbs. (VMT) .....	2276	2668	2665	2654	2639	2633	2626	2622		
Commercial Light Trucks (VMT) <sup>1</sup> .....	67	80	80	79	79	79	79	78		
Freight Trucks >10,000 lbs. (VMT) .....	162	212	212	211	210	209	209	208		
Air (seat miles available) .....	999	1472	1471	1462	1453	1445	1438	1431		
Rail (ton miles traveled) .....	1218	1529	1499	1444	1379	1356	1342	1311		
Marine (ton miles traveled) .....	779	862	859	848	841	831	834	831		
<b>Energy Efficiency Indicators</b>										
New Car (miles per gallon) <sup>2</sup> .....	28.2	29.8	29.9	30.4	30.7	30.8	30.9	31.0		
New Light Truck (miles per gallon) <sup>2</sup> .....	20.9	20.0	20.1	20.4	20.6	20.7	20.7	20.8		
Light-Duty Fleet (miles per gallon) <sup>3</sup> .....	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3		
New Commercial Light Truck (MPG) <sup>1</sup> .....	20.2	19.3	19.4	19.7	19.9	19.9	20.0	20.1		
Stock Commercial Light Truck (MPG) <sup>1</sup> .....	14.5	14.8	14.8	14.9	14.9	14.9	14.9	14.9		
Aircraft Efficiency (seat miles per gallon) .....	50.6	53.9	53.9	53.9	53.9	53.8	53.8	53.8		
Freight Truck Efficiency (miles per gallon) .....	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
Rail Efficiency (ton miles per thousand Btu) .....	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
Domestic Shipping Efficiency (ton miles per thousand Btu) .....	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
<b>Energy Use by Mode (quadrillion Btu)</b>										
Light-Duty Vehicles .....	13.95	16.51	16.49	16.40	16.29	16.24	16.20	16.16		
Commercial Light Trucks <sup>1</sup> .....	0.58	0.67	0.67	0.67	0.66	0.66	0.66	0.66		
Freight Trucks .....	4.04	4.93	4.93	4.91	4.89	4.88	4.88	4.88		
Air .....	3.32	4.40	4.40	4.37	4.35	4.33	4.31	4.30		
Rail .....	0.53	0.63	0.62	0.60	0.58	0.57	0.56	0.55		
Marine .....	1.43	1.70	1.70	1.70	1.70	1.69	1.69	1.69		
Pipeline Fuel .....	0.73	0.80	0.83	0.82	0.82	0.82	0.84	0.83		
Other <sup>4</sup> .....	0.24	0.28	0.28	0.28	0.28	0.28	0.28	0.28		
<b>Total</b> .....	<b>24.73</b>	<b>29.81</b>	<b>29.81</b>	<b>29.64</b>	<b>29.45</b>	<b>29.35</b>	<b>29.30</b>	<b>29.22</b>		

**Table B7. Transportation Sector Key Indicators and Delivered Energy Consumption (Continued)**

Projections													
2010							2020						
Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below	Reference Case	24 Percent Above	14 Percent Above	9 Percent Above	1990 Level	3 Percent Below	7 Percent Below
2895	2857	2790	2752	2643	2591	2505	3247	3191	3168	3147	3079	3035	2960
87	86	85	84	82	81	79	98	97	96	96	95	94	93
232	229	227	226	222	221	220	250	247	246	245	245	246	246
1753	1729	1667	1638	1537	1496	1434	2285	2232	2215	2197	2144	2119	2060
1644	1499	1349	1266	1145	1117	1084	1784	1457	1313	1242	1143	1127	1113
916	889	869	863	831	829	818	965	913	893	884	861	855	846
30.6	32.0	33.0	33.6	35.0	35.6	36.4	31.6	33.1	33.3	33.6	34.4	34.9	35.6
20.4	21.2	21.8	22.1	22.9	23.3	23.7	21.8	22.7	22.8	23.0	23.4	23.7	24.1
20.5	20.7	21.0	21.2	21.4	21.5	21.7	21.4	22.2	22.4	22.6	23.3	23.6	24.0
19.5	20.4	21.0	21.3	22.1	22.4	22.9	20.4	21.3	21.5	21.7	22.1	22.3	22.8
15.0	15.1	15.3	15.3	15.4	15.5	15.5	15.4	15.8	15.9	16.0	16.3	16.5	16.6
55.6	55.6	55.6	55.6	55.6	55.5	55.4	59.4	59.7	59.8	59.8	59.9	60.0	59.9
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.3	6.3	6.4	6.5	6.5	6.6	6.6
2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
17.75	17.29	16.62	16.27	15.40	15.01	14.39	19.04	18.09	17.76	17.49	16.63	16.19	15.54
0.73	0.71	0.70	0.69	0.66	0.65	0.64	0.80	0.77	0.75	0.75	0.72	0.71	0.70
5.21	5.15	5.09	5.07	4.97	4.95	4.92	5.41	5.31	5.19	5.17	5.11	5.10	5.09
5.03	4.96	4.80	4.73	4.48	4.37	4.23	6.00	5.84	5.79	5.74	5.61	5.55	5.41
0.66	0.61	0.56	0.53	0.49	0.48	0.46	0.69	0.58	0.53	0.51	0.47	0.47	0.46
1.91	1.90	1.89	1.89	1.87	1.87	1.86	2.25	2.24	2.23	2.23	2.23	2.23	2.23
0.87	0.90	0.91	0.96	0.95	0.96	0.95	0.98	1.05	1.09	1.10	1.10	1.08	1.05
0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.32	0.32	0.32	0.32	0.32	0.32	0.33
<b>32.35</b>	<b>31.70</b>	<b>30.74</b>	<b>30.30</b>	<b>28.98</b>	<b>28.44</b>	<b>27.60</b>	<b>35.37</b>	<b>34.08</b>	<b>33.57</b>	<b>33.19</b>	<b>32.08</b>	<b>31.54</b>	<b>30.69</b>

<sup>1</sup>Commercial trucks 8,500 to 10,000 pounds.

<sup>2</sup>Environmental Protection Agency rated miles per gallon.

<sup>3</sup>Combined car and light truck "on-the-road" estimate.

<sup>4</sup>Includes lubricants and aviation gasoline.

Btu = British thermal unit.

VMT=Vehicle miles traveled.

MPG = Miles per gallon.

Lbs. = Pounds.

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

**Sources:** 1996: Federal Aviation Administration (FAA), *FAA Aviation Forecasts Fiscal Years 1996-2007*, (Washington, DC, February 1995); Energy Information Administration (EIA), *Short-Term Energy Outlook, August 1997*, Online. <http://www.eia.doe.gov/emeu/steo/pub/upd/aug97/index.html> (August 21, 1997); EIA, *Fuel Oil and Kerosene Sales 1996*, DOE/EIA-0535(96) (Washington, DC, September 1997); and United States Department of Defense, Defense Fuel Supply Center. **Projections:** EIA, AEO98 National Energy Modeling System runs KYBASE.D080398A, FD24ABV.D080398B, FD1998.D080398B, FD09ABV.D080398B, FD1990.D080398B, FD03BLW.D080398B, and FD07BLW.D080398B.