

**Table A15. Selected Energy Operating Ratios for Total Energy Consumption for Heat, Power, and Electricity Generation by Census Region and Economic Characteristics of the Establishment, 1991**

Economic Characteristics <sup>a</sup>	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	Major Byproducts <sup>b</sup> as a Percent of Consumption (percent)	Fuel Oil <sup>c</sup> as a Percent of Natural Gas (percent)	RSE Row Factors
Total United States						
<b>RSE Column Factors:</b>	0.9	1.0	0.9	1.0	1.3	
Value of Shipments and Receipts (million dollars)						
Under 20 .....	244.3	5.4	2.8	W	13.2	6.2
20-49 .....	531.0	8.3	3.7	0.6	10.3	6.3
50-99 .....	702.8	9.2	4.2	4.6	12.3	5.0
100-249 .....	1,365.5	13.0	6.1	16.4	10.0	4.4
250-499 .....	2,680.8	20.3	9.4	24.5	12.8	3.9
500 and Over .....	2,702.9	16.5	7.1	31.0	6.8	2.8
<b>Total</b> .....	979.6	12.0	5.5	19.1	10.0	2.2
Employment Size						
Under 50 .....	273.2	4.9	2.3	3.2	13.5	7.3
50-99 .....	494.5	7.8	3.4	2.4	12.5	7.8
100-249 .....	782.5	11.0	4.8	5.9	10.4	5.0
250-499 .....	977.6	12.9	5.9	19.7	9.3	3.9
500-999 .....	1,393.2	15.7	7.4	24.0	9.1	3.3
1,000 and Over .....	1,459.8	13.1	6.2	25.5	9.8	2.6
<b>Total</b> .....	979.6	12.0	5.5	19.1	10.0	2.2
Northeast Census Region						
<b>RSE Column Factors:</b>	1.0	1.2	1.0	0.9	0.9	
Value of Shipments and Receipts (million dollars)						
Under 20 .....	275.6	5.6	2.9	W	4.2	15.4
20-49 .....	506.3	7.7	3.4	W	3.0	11.0
50-99 .....	756.5	8.9	4.2	3.0	2.0	6.8
100-249 .....	966.0	9.3	4.0	8.9	4.3	7.4
250-499 .....	1,250.7	9.8	4.5	7.7	2.9	6.1
500 and Over .....	2,356.2	14.9	6.0	24.0	10.7	5.5
<b>Total</b> .....	850.1	9.9	4.4	12.7	5.3	4.4
Employment Size						
Under 50 .....	336.2	5.3	2.6	W	6.3	11.2
50-99 .....	465.5	7.2	2.9	1.1	3.2	12.8
100-249 .....	656.6	9.2	4.0	2.9	3.3	12.8
250-499 .....	811.9	9.5	4.6	12.3	3.7	7.5
500-999 .....	1,000.7	10.0	5.0	16.0	4.1	5.2
1,000 and Over .....	1,349.9	12.4	5.2	18.0	8.3	4.8
<b>Total</b> .....	850.1	9.9	4.4	12.7	5.3	4.4

See footnotes at end of table.

**Table A15. Selected Energy Operating Ratios for Total Energy Consumption for Heat, Power, and Electricity Generation by Census Region and Economic Characteristics of the Establishment, 1991 (Continued)**

Economic Characteristics <sup>a</sup>	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	Major Byproducts <sup>b</sup> as a Percent of Consumption (percent)	Fuel Oil <sup>c</sup> as a Percent of Natural Gas (percent)	RSE Row Factors
Midwest Census Region						
<b>RSE Column Factors:</b>	0.9	1.0	0.9	0.9	1.4	
Value of Shipments and Receipts (million dollars)						
Under 20 .....	236.8	6.1	3.1	W	12.8	8.1
20-49 .....	599.6	10.7	4.6	0.9	6.9	8.5
50-99 .....	719.1	10.5	4.5	4.3	6.9	10.4
100-249 .....	1,864.3	19.0	8.4	16.9	9.1	6.4
250-499 .....	5,138.4	36.2	15.8	27.4	8.3	5.2
500 and Over .....	5,376.7	25.9	10.7	31.3	3.2	3.6
<b>Total .....</b>	<b>1,388.4</b>	<b>18.0</b>	<b>7.9</b>	<b>21.5</b>	<b>6.4</b>	<b>3.3</b>
Employment Size						
Under 50 .....	309.0	6.2	2.7	W	12.6	12.5
50-99 .....	647.1	11.3	4.7	3.6	8.5	12.7
100-249 .....	935.0	14.6	6.2	6.6	5.6	6.7
250-499 .....	1,243.1	19.5	8.1	21.6	6.5	5.6
500-999 .....	1,789.7	21.6	9.5	26.2	6.0	4.6
1,000 and Over .....	2,518.9	21.0	9.9	27.0	6.2	3.3
<b>Total .....</b>	<b>1,388.4</b>	<b>18.0</b>	<b>7.9</b>	<b>21.5</b>	<b>6.4</b>	<b>3.3</b>
South Census Region						
<b>RSE Column Factors:</b>	0.9	1.0	0.9	0.9	1.4	
Value of Shipments and Receipts (million dollars)						
Under 20 .....	201.3	4.1	2.0	0.2	12.3	9.0
20-49 .....	575.9	7.8	3.4	*	10.8	8.8
50-99 .....	739.2	9.0	4.4	10.9	9.2	7.2
100-249 .....	1,457.6	13.1	6.7	22.8	5.2	5.5
250-499 .....	2,390.4	19.5	8.9	37.3	15.4	5.0
500 and Over .....	1,122.1	9.2	4.0	43.8	4.4	3.6
<b>Total .....</b>	<b>773.6</b>	<b>9.4</b>	<b>4.4</b>	<b>W</b>	<b>8.8</b>	<b>2.9</b>
Employment Size						
Under 50 .....	184.8	3.4	1.6	0.2	11.4	12.5
50-99 .....	445.8	6.8	3.0	2.6	17.6	12.9
100-249 .....	934.8	11.4	4.9	11.8	10.1	6.8
250-499 .....	1,186.1	15.0	6.6	29.8	16.3	5.2
500-999 .....	1,606.4	17.5	8.5	27.7	3.0	5.0
1,000 and Over .....	569.7	5.7	2.9	38.9	3.1	3.2
<b>Total .....</b>	<b>773.6</b>	<b>9.4</b>	<b>4.4</b>	<b>W</b>	<b>8.8</b>	<b>2.9</b>

See footnotes at end of table.

**Table A15. Selected Energy Operating Ratios for Total Energy Consumption for Heat, Power, and Electricity Generation by Census Region and Economic Characteristics of the Establishment, 1991 (Continued)**

Economic Characteristics <sup>a</sup>	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	Major Byproducts <sup>b</sup> as a Percent of Consumption (percent)	Fuel Oil <sup>c</sup> as a Percent of Natural Gas (percent)	RSE Row Factors
West Census Region						
<b>RSE Column Factors:</b>	1.1	1.2	1.0	0.8	1.1	
Value of Shipments and Receipts (million dollars)						
Under 20 .....	201	4	2	0	12	11.8
20-49 .....	576	8	3	*	11	12.9
50-99 .....	739	9	4	11	9	11.5
100-249 .....	1,458	13	7	23	5	9.7
250-499 .....	2,390	20	9	37	15	4.9
500 and Over .....	1,122	9	4	44	4	4.0
<b>Total</b> .....	774	9	4	W	9	4.1
Employment Size						
Under 50 .....	185	3	2	0	11	15.2
50-99 .....	446	7	3	3	18	12.5
100-249 .....	935	11	5	12	10	10.4
250-499 .....	1,186	15	7	30	16	7.9
500-999 .....	1,606	18	9	28	3	7.3
1,000 and Over .....	570	6	3	39	3	4.5
<b>Total</b> .....	774	9	4	W	9	4.1

<sup>a</sup> Value of Shipments and Receipts and Employment Size were supplied by the Bureau of the Census. See Appendix B.

<sup>b</sup> "Major Byproduct" fuels include coke oven and blast furnace gas (produced primarily in the blast furnace industry, SIC 3312); still gas (produced primarily in refineries, SIC 2911); and pulping liquor (produced primarily in pulp and paper mills, SIC 2611 and 2621).

<sup>c</sup> "Fuel Oil" includes distillate and residual.

\* Estimate less than 0.5. Data are included in higher level totals.

W=Withheld to avoid disclosing data for individual establishments. Data are included in higher level totals.

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • Totals may not equal sum of components because of independent rounding. • Operating ratios were calculated using the input energy estimates reported in Table A4.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy End Use and Integrated Statistics Division, Form EIA-846, "1991 Manufacturing Energy Consumption Survey," and Bureau of the Census, Industry Division, data files for the "1991 Annual Survey of Manufactures."