

**Table E3.1. Fuel Consumption, 1998;**  
**Level: National and Regional Data;**  
**Row: Values of Shipments and Employment Sizes;**  
**Column: Energy Sources;**  
**Unit: Trillion Btu.**

Economic Characteristic <sup>a</sup>	Total	Net <sup>b</sup> Electricity	Residual Fuel Oil	Distillate Fuel Oil <sup>c</sup>	Natural Gas <sup>d</sup>	LPG and NGL <sup>e</sup>	Coal	Coke and Breeze	Other <sup>f</sup>	RSE Row Factors
Total United States										
<b>RSE Column Factors:</b>	0.6	0.5	1.9	1.3	0.5	1.2	1.1	1.8	1.2	
Value of Shipments and Receipts (million dollars)										
Under 20 . . . . .	1,838	514	23	53	765	28	60	19	377	9.6
20-49 . . . . .	1,476	415	23	17	620	11	120	6	265	6.2
50-99 . . . . .	1,685	410	41	18	787	8	154	12	257	4.5
100-249 . . . . .	2,796	639	81	14	1,138	19	282	13	609	4.4
250-499 . . . . .	3,045	478	100	10	994	6	237	19	1,200	4.0
500 and Over . . . . .	6,854	580	90	21	2,340	63	289	584	2,886	1.3
<b>Total . . . . .</b>	<b>17,695</b>	<b>3,035</b>	<b>357</b>	<b>133</b>	<b>6,644</b>	<b>135</b>	<b>1,143</b>	<b>653</b>	<b>5,594</b>	<b>2.1</b>
Employment Size										
Under 50 . . . . .	1,155	291	17	44	438	21	36	W	W	9.9
50-99 . . . . .	1,041	237	20	13	539	6	46	W	W	9.6
100-249 . . . . .	3,099	623	60	22	1,295	27	311	13	748	6.1
250-499 . . . . .	3,231	587	69	18	1,293	20	189	13	1,043	3.1
500-999 . . . . .	4,012	604	82	13	1,327	19	197	9	1,762	2.8
1000 and Over . . . . .	5,157	694	108	24	1,752	43	364	604	1,568	1.2
<b>Total . . . . .</b>	<b>17,695</b>	<b>3,035</b>	<b>357</b>	<b>133</b>	<b>6,644</b>	<b>135</b>	<b>1,143</b>	<b>653</b>	<b>5,594</b>	<b>2.1</b>
Northeast Census Region										
<b>RSE Column Factors:</b>	0.7	0.6	1.7	1.8	0.8	1.6	0.8	0.4	1.5	
Value of Shipments and Receipts (million dollars)										
Under 20 . . . . .	258	83	10	19	113	3	9	Q	20	10.2
20-49 . . . . .	193	54	15	4	W	3	21	W	W	10.5
50-99 . . . . .	183	55	16	3	86	1	5	W	W	7.7
100-249 . . . . .	312	68	38	3	107	2	22	*	73	5.8
250-499 . . . . .	222	41	28	1	W	1	18	0	W	3.6
500 and Over . . . . .	545	47	27	3	W	4	25	W	W	2.7
<b>Total . . . . .</b>	<b>1,713</b>	<b>349</b>	<b>135</b>	<b>33</b>	<b>534</b>	<b>14</b>	<b>100</b>	<b>32</b>	<b>517</b>	<b>4.1</b>
Employment Size										
Under 50 . . . . .	148	43	5	16	66	2	W	*	W	15.0
50-99 . . . . .	120	34	3	4	60	1	W	W	W	9.6
100-249 . . . . .	253	73	21	4	107	3	24	W	W	7.9
250-499 . . . . .	341	72	30	3	120	2	10	W	W	3.9
500-999 . . . . .	499	63	42	3	90	5	22	*	274	5.7
1000 and Over . . . . .	351	63	34	4	91	1	35	W	W	1.7
<b>Total . . . . .</b>	<b>1,713</b>	<b>349</b>	<b>135</b>	<b>33</b>	<b>534</b>	<b>14</b>	<b>100</b>	<b>32</b>	<b>517</b>	<b>4.2</b>

**Table E3.1. Fuel Consumption, 1998;**  
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Economic Characteristic <sup>a</sup>	Total	Net <sup>b</sup> Electricity	Residual Fuel Oil	Distillate Fuel Oil <sup>c</sup>	Natural Gas <sup>d</sup>	LPG and NGL <sup>e</sup>	Coal	Coke and Breeze	Other <sup>f</sup>	RSE Row Factors
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See footnotes at end of table.

Midwest Census Region										
RSE Column Factors:	0.7	0.5	1.3	1.5	0.5	1.4	0.9	1.2	1.9	
Value of Shipments and Receipts (million dollars)										
Under 20	522	159	1	7	234	7	14	5	97	12.7
20-49	426	128	*	2	W	2	42	3	W	10.0
50-99	469	116	*	3	240	3	61	5	41	6.3
100-249	654	160	10	2	274	2	107	7	92	8.3
250-499	520	140	16	1	W	1	66	4	W	8.0
500 and Over	2,007	225	43	6	512	6	128	426	661	1.0
<b>Total</b>	<b>4,598</b>	<b>928</b>	<b>70</b>	<b>20</b>	<b>1,642</b>	<b>21</b>	<b>418</b>	<b>451</b>	<b>1,047</b>	<b>3.4</b>
Employment Size										
Under 50	323	71	*	6	133	4	17	1	92	6.5
50-99	255	69	*	2	148	2	15	2	18	10.1
100-249	777	186	Q	3	318	5	100	6	150	9.6
250-499	739	191	15	2	317	3	95	7	109	4.1
500-999	636	143	5	2	209	5	81	5	187	4.0
1000 and Over	1,867	269	39	6	518	3	110	431	492	1.1
<b>Total</b>	<b>4,598</b>	<b>928</b>	<b>70</b>	<b>20</b>	<b>1,642</b>	<b>21</b>	<b>418</b>	<b>451</b>	<b>1,047</b>	<b>3.1</b>
South Census Region										
RSE Column Factors:	0.6	0.6	1.4	1.5	0.6	0.9	0.9	2.6	1.0	
Value of Shipments and Receipts (million dollars)										
Under 20	745	192	11	22	265	12	29	W	W	10.7
20-49	592	179	5	7	240	5	28	*	128	9.8
50-99	779	188	21	9	349	3	63	W	W	6.3
100-249	1,322	282	29	6	568	14	70	W	W	3.0
250-499	1,838	221	39	7	669	2	153	15	733	2.2
500 and Over	3,654	252	19	11	1,572	38	128	115	1,520	1.2
<b>Total</b>	<b>8,930</b>	<b>1,314</b>	<b>124</b>	<b>62</b>	<b>3,663</b>	<b>73</b>	<b>470</b>	<b>150</b>	<b>3,074</b>	<b>2.4</b>
Employment Size										
Under 50	510	129	12	18	179	10	10	W	W	12.5
50-99	448	101	15	5	209	3	12	W	W	12.1
100-249	1,362	271	9	11	653	13	90	W	W	5.8

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Economic Characteristic <sup>a</sup>	Total	Net <sup>b</sup> Electricity	Residual Fuel Oil	Distillate Fuel Oil <sup>c</sup>	Natural Gas <sup>d</sup>	LPG and NGL <sup>e</sup>	Coal	Coke and Breeze	Other <sup>f</sup>	RSE Row Factors
250-499 .....	1,712	257	21	9	728	6	59	3	630	4.2
500-999 .....	2,327	283	32	6	869	6	89	4	1,038	2.0
1000 and Over .....	2,572	274	35	14	1,025	35	210	130	848	1.2
<b>Total</b> .....	<b>8,930</b>	<b>1,314</b>	<b>124</b>	<b>62</b>	<b>3,663</b>	<b>73</b>	<b>470</b>	<b>150</b>	<b>3,074</b>	<b>2.5</b>

See footnotes at end of table.

West Census Region										
RSE Column Factors:	1.0	0.7	0.7	1.4	1.1	1.4	1.2	0.6	1.4	
Value of Shipments and Receipts (million dollars)										
Under 20 .....	313	79	1	5	153	6	8	W	W	12.7
20-49 .....	265	54	1	4	W	2	28	W	W	12.2
50-99 .....	255	50	3	3	112	1	24	W	W	4.4
100-249 .....	509	130	4	3	190	1	84	W	W	7.1
250-499 .....	465	76	17	1	W	Q	*	0	W	2.3
500 and Over .....	647	55	1	1	W	15	9	W	W	1.9
<b>Total</b> .....	<b>2,454</b>	<b>444</b>	<b>28</b>	<b>18</b>	<b>804</b>	<b>27</b>	<b>154</b>	<b>21</b>	<b>957</b>	<b>5.3</b>
Employment Size										
Under 50 .....	174	48	1	4	60	Q	W	0	W	7.1
50-99 .....	217	34	1	3	121	1	W	*	W	15.7
100-249 .....	707	93	20	3	218	6	97	W	W	9.0
250-499 .....	438	67	4	4	128	8	25	W	W	3.8
500-999 .....	550	115	3	2	159	3	5	*	262	1.2
1000 and Over .....	367	88	*	1	118	4	9	W	W	1.5
<b>Total</b> .....	<b>2,454</b>	<b>444</b>	<b>28</b>	<b>18</b>	<b>804</b>	<b>27</b>	<b>154</b>	<b>21</b>	<b>957</b>	<b>5.1</b>

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

<sup>b</sup> "Net Electricity" is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

<sup>c</sup> "Distillate Fuel Oil" includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

<sup>d</sup> "Natural Gas" includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

<sup>e</sup> Examples of Liquefied Petroleum Gases "(LPG)" are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids "(NGL)."

<sup>f</sup> "Other" includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

NF=No applicable RSE row/column factor.

**Table E3.1. Fuel Consumption, 1998;  
(Continued) Level: National and Regional Data;  
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\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

Notes: C To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. C Totals may not equal sum of components because of independent rounding. C The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells. C During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, "1998 Manufacturing Energy Consumption Survey," and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, "Monthly Refinery Report" for 1998, and the Bureau of the Census, data files for the "1998 Annual Survey of Manufactures."