Table 5.3   End Uses of Fuel Consumption, 2002;
       Level: National Data;
       Row: End Uses within NAICS Codes;
       Column: Energy Sources, including Net Demand for Electricity;
       Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Total United States							
311 - 339	**ALL MANUFACTURING INDUSTRIES**							
	RSE Column Factors:	NF	1	2.4	1.1	1.4	1	
	TOTAL FUEL CONSUMPTION	966,231	33	24	5,641	26	53	3.4
	Indirect Uses-Boiler Fuel	6,714	20	6	2,105	2	35	5.3
	Conventional Boiler Use	3,199	12	4	1,271	2	11	5.6
	CHP and/or Cogeneration Process	3,515	8	2	834	*	23	3.8
	Direct Uses-Total Process	768,929	10	7	2,867	16	17	2.9
	Process Heating	103,992	9	4	2,670	15	17	3.3
	Process Cooling and Refrigeration	62,460	*	*	44	*	*	3.8
	Machine Drive	511,864	*	3	106	1	*	4.8
	Electro-Chemical Processes	86,360	--	--	--	--	--	1
	Other Process Use	4,253	*	*	58	*	*	5.3
	Direct Uses-Total Nonprocess	161,383	1	9	500	6	1	4.6
	Facility HVAC (g)	81,980	1	1	406	1	*	6.6
	Facility Lighting	62,019	--	--	--	--	--	1.1
	Other Facility Support	14,872	*	*	29	*	*	9.7
	Onsite Transportation	1,277	--	6	2	5	--	3.1
	Conventional Electricity Generation	--	*	Q	54	*	1	1.7
	Other Nonprocess Use	1,235	*	Q	10	*	0	8.8
	End Use Not Reported	29,205	3	2	157	2	*	8.3
311	**FOOD**							
	RSE Column Factors:	NF	1.5	2.5	1.2	2.6	0.4	
	TOTAL FUEL CONSUMPTION	73,143	2	3	560	1	8	9.7
	Indirect Uses-Boiler Fuel	848	1	1	268	W	8	11.7
	Conventional Boiler Use	Q	1	1	231	W	3	12.7
	CHP and/or Cogeneration Process	188	*	*	37	0	5	5.5
	Direct Uses-Total Process	57,189	1	1	224	W	W	7.9
	Process Heating	2,229	1	*	199	W	W	8.8
	Process Cooling and Refrigeration	18,194	0	*	Q	*	0	9
	Machine Drive	36,479	0	1	13	*	0	11
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	187	*	*	4	0	0	13
	Direct Uses-Total Nonprocess	10,832	*	1	W	*	*	10.4

Table 5.3 End Uses of Fuel Consumption, 2002;
    Level: National Data;
    Row: End Uses within NAICS Codes;
    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility HVAC (g)	5,037	*	*	36	*	*	11.3
	Facility Lighting	4,826	--	--	--	--	--	1.3
	Other Facility Support	766	*	*	W	*	0	12.8
	Onsite Transportation	165	--	*	*	*	--	4.9
	Conventional Electricity Generation	--	0	*	Q	0	0	2.1
	Other Nonprocess Use	39	*	*	*	0	0	12.1
	End Use Not Reported	4,274	*	*	W	W	W	14.1
311221	**Wet Corn Milling**							
	RSE Column Factors:	NF	0.9	1.3	1.3	0.9	0.9	
	TOTAL FUEL CONSUMPTION	9,606	*	*	59	*	5	1.3
	Indirect Uses-Boiler Fuel	1,253	*	*	31	0	5	1.3
	Conventional Boiler Use	103	*	*	21	0	3	1
	CHP and/or Cogeneration Process	50	0	*	10	0	3	1.6
	Direct Uses-Total Process	9,128	0	*	28	*	0	1.5
	Process Heating	226	0	0	27	*	0	1
	Process Cooling and Refrigeration	126	0	0	*	0	0	1.2
	Machine Drive	8,776	0	*	*	*	0	1.8
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	0	0	0	1
	Direct Uses-Total Nonprocess	325	*	*	1	*	0	1
	Facility HVAC (g)	122	*	*	1	*	0	1.1
	Facility Lighting	197	--	--	--	--	--	1
	Other Facility Support	6	*	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.8
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	0	0	*	0	*	0	1
31131	**Sugar**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,851	*	*	22	*	2	1
	Indirect Uses-Boiler Fuel	74	*	*	16	0	1	1
	Conventional Boiler Use	15	*	0	3	0	*	1
	CHP and/or Cogeneration Process	59	*	*	13	0	1	1
	Direct Uses-Total Process	1,519	*	*	4	*	W	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Heating	103	*	*	4	*	W	1
	Process Cooling and Refrigeration	35	0	0	0	0	0	1
	Machine Drive	1,369	0	*	*	*	0	1
	Electro-Chemical Processes	12	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1
	Direct Uses-Total Nonprocess	256	0	*	*	*	*	1
	Facility HVAC (g)	106	0	0	*	*	*	1
	Facility Lighting	122	--	--	--	--	--	1
	Other Facility Support	19	0	*	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	9	0	*	0	0	0	1
	End Use Not Reported	2	*	*	1	*	W	1
311421	**Fruit and Vegetable Canning**							
	RSE Column Factors:	NF	1	0.9	1.2	2.1	0.6	
	TOTAL FUEL CONSUMPTION	2,348	*	*	35	*	0	18
	Indirect Uses-Boiler Fuel	1	*	*	26	*	0	6.3
	Conventional Boiler Use	1	*	*	W	*	0	6.7
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.6
	Direct Uses-Total Process	1,703	*	*	W	*	0	8.5
	Process Heating	47	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	574	0	*	*	0	0	3
	Machine Drive	1,063	0	*	*	*	0	4.9
	Electro-Chemical Processes	14	--	--	--	--	--	1
	Other Process Use	5	0	*	0	0	0	1.2
	Direct Uses-Total Nonprocess	516	*	*	W	*	0	5.5
	Facility HVAC (g)	222	0	0	W	*	0	4.1
	Facility Lighting	238	--	--	--	--	--	1.5
	Other Facility Support	34	*	*	*	*	0	4
	Onsite Transportation	22	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	*	0	0	1.1
	Other Nonprocess Use	0	0	*	*	0	0	5.2
	End Use Not Reported	128	0	*	1	*	0	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**							
	RSE Column Factors:	NF	0.6	1	1.8	2.1	0.5	

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	8,452	W	*	45	*	1	5.8
	Indirect Uses-Boiler Fuel	67	W	*	30	*	1	3.3
	Conventional Boiler Use	51	*	*	28	*	*	4.8
	CHP and/or Cogeneration Process	16	W	*	2	*	1	1
	Direct Uses-Total Process	6,110	*	*	8	*	*	2.3
	Process Heating	170	*	*	7	*	*	2.6
	Process Cooling and Refrigeration	2,420	*	*	*	*	*	3
	Machine Drive	3,488	*	*	*	*	*	4.2
	Electro-Chemical Processes	9	--	--	--	--	--	1.7
	Other Process Use	23	0	*	*	*	0	2.1
	Direct Uses-Total Nonprocess	1,914	W	*	5	*	*	3
	Facility HVAC (g)	989	W	*	4	*	*	3.2
	Facility Lighting	726	--	--	--	--	--	1.3
	Other Facility Support	153	0	*	*	*	*	3.1
	Onsite Transportation	35	--	*	0	*	--	3.6
	Conventional Electricity Generation	--	0	*	0	*	*	1.4
	Other Nonprocess Use	10	0	*	*	*	0	4.3
	End Use Not Reported	362	0	*	2	*	0	11.6
3121	**Beverages**							
	RSE Column Factors:	NF	0.6	1.4	1.5	1.7	0.6	
	TOTAL FUEL CONSUMPTION	6,814	*	*	41	*	*	8.2
	Indirect Uses-Boiler Fuel	46	*	*	28	*	*	5.4
	Conventional Boiler Use	46	*	*	26	*	*	6.5
	CHP and/or Cogeneration Process	0	*	*	2	0	*	1.4
	Direct Uses-Total Process	5,145	*	*	7	*	0	2.8
	Process Heating	130	*	*	6	*	0	4
	Process Cooling and Refrigeration	2,245	*	*	*	*	0	3.4
	Machine Drive	2,754	*	*	*	*	0	3.8
	Electro-Chemical Processes	9	--	--	--	--	--	1.7
	Other Process Use	6	0	*	*	*	0	2.7
	Direct Uses-Total Nonprocess	1,295	*	*	4	*	0	4
	Facility HVAC (g)	575	*	*	4	*	0	5.4
	Facility Lighting	548	--	--	--	--	--	1.3
	Other Facility Support	129	0	*	*	*	0	3.4
	Onsite Transportation	33	--	*	0	*	--	3.8
	Conventional Electricity Generation	--	0	*	0	0	0	3.5

Table 5.3 End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Nonprocess Use	10	0	*	*	*	0	4.6
	End Use Not Reported	328	*	*	2	*	0	12.5
3122	**Tobacco**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,637	*	*	4	*	*	1
	Indirect Uses-Boiler Fuel	20	*	*	2	*	*	1
	Conventional Boiler Use	5	*	*	2	*	*	1
	CHP and/or Cogeneration Process	16	0	0	0	*	*	1
	Direct Uses-Total Process	965	*	*	1	*	*	1
	Process Heating	40	*	*	1	*	*	1
	Process Cooling and Refrigeration	175	0	0	*	0	*	1
	Machine Drive	734	0	*	*	*	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	16	0	*	*	*	0	1
	Direct Uses-Total Nonprocess	618	*	*	*	*	*	1
	Facility HVAC (g)	414	*	*	*	*	*	1
	Facility Lighting	178	--	--	--	--	--	1
	Other Facility Support	24	0	*	*	0	*	1
	Onsite Transportation	2	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	*	*	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	34	0	*	*	0	0	1
313	**TEXTILE MILLS**							
	RSE Column Factors:	NF	0.8	1.5	1.1	2.5	0.6	
	TOTAL FUEL CONSUMPTION	25,462	1	*	72	*	1	17.7
	Indirect Uses-Boiler Fuel	15	W	*	36	*	1	18.4
	Conventional Boiler Use	15	W	*	W	*	1	19.4
	CHP and/or Cogeneration Process	0	0	0	W	0	*	5.4
	Direct Uses-Total Process	19,014	0	*	25	*	*	5.9
	Process Heating	2,413	0	*	23	*	*	6.2
	Process Cooling and Refrigeration	2,154	0	0	0	0	0	6.4
	Machine Drive	14,310	0	0	2	*	0	9.8
	Electro-Chemical Processes	23	--	--	--	--	--	1.6
	Other Process Use	115	0	*	*	0	0	2.5

Table 5.3 End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Nonprocess	6,298	*	*	W	*	*	7
	Facility HVAC (g)	W	*	*	W	*	*	7.2
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	Q	*	0	7.4
	Onsite Transportation	Q	--	*	*	*	--	3.3
	Conventional Electricity Generation	--	0	*	1	*	*	1.2
	Other Nonprocess Use	Q	0	0	*	0	0	4.6
	End Use Not Reported	134	W	*	W	*	0	26.9
314	**TEXTILE PRODUCT MILLS**							
	RSE Column Factors:	NF	0.7	0.5	2.2	2.4	0.5	
	TOTAL FUEL CONSUMPTION	4,924	*	Q	28	*	*	17
	Indirect Uses-Boiler Fuel	14	*	*	10	*	*	11.7
	Conventional Boiler Use	14	*	*	10	*	*	11.7
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.4
	Direct Uses-Total Process	3,321	*	*	13	*	0	2.8
	Process Heating	406	*	*	12	*	0	3.2
	Process Cooling and Refrigeration	240	0	0	*	0	0	3.8
	Machine Drive	2,655	0	0	*	0	0	3.1
	Electro-Chemical Processes	20	--	--	--	--	--	1.4
	Other Process Use	*	0	0	*	0	0	6.4
	Direct Uses-Total Nonprocess	1,313	*	*	4	*	*	4.2
	Facility HVAC (g)	W	*	*	W	*	*	3
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	68	*	*	W	0	0	3.7
	Onsite Transportation	19	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	0	0	1.5
	Other Nonprocess Use	12	0	*	*	*	0	2.7
	End Use Not Reported	275	*	0	1	*	0	25.7
315	**APPAREL**							
	RSE Column Factors:	NF	1.4	1	1.7	1.4	0.6	
	TOTAL FUEL CONSUMPTION	3,588	*	*	16	*	0	23.5
	Indirect Uses-Boiler Fuel	Q	*	*	4	*	0	12.6
	Conventional Boiler Use	Q	*	*	4	*	0	12.8
	CHP and/or Cogeneration Process	0	0	0	*	0	0	4.6

Table 5.3 End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Process	1,565	*	*	5	*	0	9.4
	Process Heating	139	*	*	2	*	0	8.9
	Process Cooling and Refrigeration	125	0	*	*	0	0	7.8
	Machine Drive	1,296	0	*	W	*	0	6
	Electro-Chemical Processes	Q	--	--	--	--	--	1.2
	Other Process Use	0	0	0	W	0	0	4.6
	Direct Uses-Total Nonprocess	1,462	*	*	4	*	0	10.6
	Facility HVAC (g)	820	*	*	2	*	0	8.5
	Facility Lighting	527	--	--	--	--	--	1.5
	Other Facility Support	113	0	*	2	0	0	9.1
	Onsite Transportation	2	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	0	0	0	1.4
	Other Nonprocess Use	0	0	*	0	0	0	4.6
	End Use Not Reported	556	0	*	3	*	0	46.1
316	**LEATHER AND ALLIED PRODUCTS**							
	RSE Column Factors:	NF	0.2	1.9	2.1	2.7	0.6	
	TOTAL FUEL CONSUMPTION	717	*	*	4	*	0	8.7
	Indirect Uses-Boiler Fuel	*	*	*	3	*	0	3.6
	Conventional Boiler Use	*	*	*	3	*	0	3.6
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.3
	Direct Uses-Total Process	483	*	*	*	*	0	7.5
	Process Heating	21	*	*	*	*	0	6.4
	Process Cooling and Refrigeration	191	0	0	0	0	0	8.8
	Machine Drive	270	0	*	0	*	0	8.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	0	0	0	3.3
	Direct Uses-Total Nonprocess	184	*	*	1	*	0	6.4
	Facility HVAC (g)	81	*	*	1	*	0	7.8
	Facility Lighting	88	--	--	--	--	--	1.4
	Other Facility Support	14	0	0	*	*	0	9
	Onsite Transportation	*	--	*	*	*	--	2.5
	Conventional Electricity Generation	--	0	0	0	0	0	1.3
	Other Nonprocess Use	0	0	0	0	0	0	3.3
	End Use Not Reported	50	0	0	*	*	0	23.2
321	**WOOD PRODUCTS**							

Table 5.3 End Uses of Fuel Consumption, 2002;
   Level: National Data;
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   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	2	1.5	1.5	0.3	
	TOTAL FUEL CONSUMPTION	22,438	*	2	56	1	*	4.8
	Indirect Uses-Boiler Fuel	115	*	*	15	*	*	5.7
	Conventional Boiler Use	106	*	*	15	*	*	5.8
	CHP and/or Cogeneration Process	8	0	*	*	0	*	1.4
	Direct Uses-Total Process	17,176	*	*	29	W	0	3.1
	Process Heating	1,153	*	*	27	W	0	3.1
	Process Cooling and Refrigeration	139	0	*	*	0	0	3.4
	Machine Drive	15,842	0	*	1	*	0	7.6
	Electro-Chemical Processes	4	--	--	--	--	--	1.7
	Other Process Use	38	0	*	1	*	0	5.1
	Direct Uses-Total Nonprocess	3,499	0	1	8	1	0	3.9
	Facility HVAC (g)	1,487	0	*	7	*	0	7.7
	Facility Lighting	1,574	--	--	--	--	--	1.3
	Other Facility Support	W	0	*	*	*	0	8
	Onsite Transportation	W	--	1	*	*	--	3.4
	Conventional Electricity Generation	--	0	*	*	*	0	2.1
	Other Nonprocess Use	65	0	*	1	*	0	1.9
	End Use Not Reported	1,648	*	*	3	W	0	14.9
321113	**Sawmills**							
	RSE Column Factors:	NF	0.3	1.9	2.8	3	0.5	
	TOTAL FUEL CONSUMPTION	6,863	*	1	10	*	0	5.3
	Indirect Uses-Boiler Fuel	82	*	*	W	0	0	6.9
	Conventional Boiler Use	81	*	*	W	0	0	7
	CHP and/or Cogeneration Process	1	0	*	*	0	0	1.6
	Direct Uses-Total Process	5,470	*	*	W	*	0	4.2
	Process Heating	384	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	29	0	*	*	0	0	2.4
	Machine Drive	5,051	0	*	*	*	0	7
	Electro-Chemical Processes	4	--	--	--	--	--	1.7
	Other Process Use	Q	0	*	0	0	0	3.1
	Direct Uses-Total Nonprocess	742	0	*	*	*	0	4.4
	Facility HVAC (g)	W	0	*	*	*	0	6.6
	Facility Lighting	W	--	--	--	--	--	1.2
	Other Facility Support	52	0	*	*	*	0	4.2
	Onsite Transportation	*	--	*	0	*	--	3.7

Table 5.3 End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Electricity Generation	--	0	*	0	0	0	3.5
	Other Nonprocess Use	Q	0	*	0	0	0	1.3
	End Use Not Reported	567	0	*	*	*	0	14
3212	**Veneer, Plywood, and Engineered Woods**							
	RSE Column Factors:	NF	2.1	2	1	1.2	0.4	
	TOTAL FUEL CONSUMPTION	9,832	*	*	32	1	*	5.7
	Indirect Uses-Boiler Fuel	30	*	*	W	*	*	3.1
	Conventional Boiler Use	23	*	*	W	*	*	3.1
	CHP and/or Cogeneration Process	7	0	0	*	0	*	1.5
	Direct Uses-Total Process	7,935	0	*	20	W	0	5.2
	Process Heating	536	0	*	19	W	0	5.8
	Process Cooling and Refrigeration	77	0	0	0	0	0	5
	Machine Drive	7,287	0	*	Q	*	0	6.9
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	36	0	*	1	*	0	6.3
	Direct Uses-Total Nonprocess	1,498	0	*	4	*	0	5.7
	Facility HVAC (g)	W	0	*	2	*	0	10.4
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	*	*	0	4.5
	Onsite Transportation	3	--	*	*	*	--	2.5
	Conventional Electricity Generation	--	0	*	0	0	0	3.3
	Other Nonprocess Use	43	0	*	1	*	0	2.5
	End Use Not Reported	370	*	*	W	W	0	11.6
3219	**Other Wood Products**							
	RSE Column Factors:	NF	0.5	2.4	1.4	2.1	0.5	
	TOTAL FUEL CONSUMPTION	5,433	*	*	11	*	0	7.3
	Indirect Uses-Boiler Fuel	2	*	*	2	*	0	9.6
	Conventional Boiler Use	2	*	*	2	*	0	9.7
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1.5
	Direct Uses-Total Process	3,520	0	*	4	*	0	7.3
	Process Heating	199	0	*	3	*	0	7
	Process Cooling and Refrigeration	23	0	0	0	0	0	4.1
	Machine Drive	3,298	0	*	*	*	0	9.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Process Use	0	0	*	*	0	0	1.5
	Direct Uses-Total Nonprocess	1,214	0	*	4	*	0	6.5
	Facility HVAC (g)	578	0	*	4	*	0	7.8
	Facility Lighting	489	--	--	--	--	--	1.3
	Other Facility Support	123	0	*	*	*	0	4.8
	Onsite Transportation	7	--	*	*	*	--	5
	Conventional Electricity Generation	--	0	*	*	*	0	1.9
	Other Nonprocess Use	Q	0	*	0	0	0	1.2
	End Use Not Reported	696	*	*	1	*	0	18.4
322	**PAPER**							
	RSE Column Factors:	NF	0.9	1	1.3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	114,925	16	2	490	2	11	2.5
	Indirect Uses-Boiler Fuel	3,345	11	2	298	*	10	2.4
	Conventional Boiler Use	717	5	*	140	*	2	3.9
	CHP and/or Cogeneration Process	2,628	6	1	158	0	8	1.7
	Direct Uses-Total Process	99,965	4	*	150	*	W	3.4
	Process Heating	2,856	4	*	126	*	W	3.8
	Process Cooling and Refrigeration	1,720	*	*	3	0	*	2
	Machine Drive	92,856	*	*	18	*	*	4.3
	Electro-Chemical Processes	1,978	--	--	--	--	--	1.5
	Other Process Use	555	*	*	2	*	W	2.5
	Direct Uses-Total Nonprocess	10,370	*	*	28	1	W	3.9
	Facility HVAC (g)	4,672	*	*	19	*	W	5
	Facility Lighting	4,526	--	--	--	--	--	1.2
	Other Facility Support	818	*	*	*	*	0	2.3
	Onsite Transportation	76	--	*	*	1	--	3.7
	Conventional Electricity Generation	--	*	*	8	*	*	1
	Other Nonprocess Use	277	*	*	Q	*	0	3.4
	End Use Not Reported	1,245	1	*	14	Q	W	10.9
322110	**Pulp Mills**							
	RSE Column Factors:	NF	1.1	0.9	0.9	1	1	
	TOTAL FUEL CONSUMPTION	W	W	1	23	*	W	1
	Indirect Uses-Boiler Fuel	1,217	W	1	13	*	W	1.1
	Conventional Boiler Use	465	W	*	5	*	0	1.3

Table 5.3   End Uses of Fuel Consumption, 2002;
    Level: National Data;
    Row: End Uses within NAICS Codes;
    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	CHP and/or Cogeneration Process	751	1	1	9	0	W	1
	Direct Uses-Total Process	5,136	*	*	10	*	W	1
	Process Heating	187	*	*	9	*	W	1
	Process Cooling and Refrigeration	19	*	*	0	0	0	1
	Machine Drive	4,671	*	*	*	0	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	260	*	*	*	0	W	1
	Direct Uses-Total Nonprocess	432	*	*	*	*	*	1.2
	Facility HVAC (g)	272	*	*	*	*	*	1
	Facility Lighting	156	--	--	--	--	--	1.1
	Other Facility Support	4	*	*	0	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	*	0	0	0	0	1
	End Use Not Reported	W	0	0	0	*	0	1
322121	**Paper Mills, except Newsprint**							
	RSE Column Factors:	NF	1.8	1.3	1.1	1.4	0.6	
	TOTAL FUEL CONSUMPTION	46,786	8	1	201	*	6	2.3
	Indirect Uses-Boiler Fuel	860	5	*	124	*	6	2.4
	Conventional Boiler Use	95	2	*	55	*	1	3.1
	CHP and/or Cogeneration Process	765	3	*	69	0	5	1.3
	Direct Uses-Total Process	41,835	2	*	70	*	W	3.2
	Process Heating	1,389	2	*	56	*	W	3.4
	Process Cooling and Refrigeration	617	0	*	3	0	*	1.8
	Machine Drive	39,507	*	*	10	*	W	1.5
	Electro-Chemical Processes	199	--	--	--	--	--	1
	Other Process Use	122	*	*	*	*	0	4.4
	Direct Uses-Total Nonprocess	3,804	*	*	6	*	W	2.2
	Facility HVAC (g)	1,627	*	*	5	*	W	5
	Facility Lighting	1,606	--	--	--	--	--	1.1
	Other Facility Support	319	0	*	*	0	0	1.9
	Onsite Transportation	52	--	*	0	*	--	1.2
	Conventional Electricity Generation	--	*	*	1	*	*	1
	Other Nonprocess Use	200	0	*	*	0	0	3
	End Use Not Reported	287	*	*	1	*	W	12.3
322122	**Newsprint Mills**							

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	12,097	W	*	15	*	W	1
	Indirect Uses-Boiler Fuel	117	W	*	10	*	W	1
	Conventional Boiler Use	0	W	*	3	*	W	1
	CHP and/or Cogeneration Process	117	0	0	7	0	W	1
	Direct Uses-Total Process	11,315	0	*	W	0	W	1
	Process Heating	54	0	0	W	0	0	1
	Process Cooling and Refrigeration	120	0	0	0	0	0	1
	Machine Drive	10,536	0	*	0	0	0	1
	Electro-Chemical Processes	579	--	--	--	--	--	1
	Other Process Use	25	0	0	*	0	W	1
	Direct Uses-Total Nonprocess	524	0	*	*	*	W	1
	Facility HVAC (g)	197	0	0	*	0	W	1
	Facility Lighting	293	--	--	--	--	--	1
	Other Facility Support	34	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	141	0	*	W	*	W	1
322130	**Paperboard Mills**							
	RSE Column Factors:	NF	1.1	1	1	0.9	0.8	
	TOTAL FUEL CONSUMPTION	35,657	5	1	183	*	4	2.6
	Indirect Uses-Boiler Fuel	1,123	3	*	125	*	3	2.2
	Conventional Boiler Use	128	1	*	52	*	W	3.5
	CHP and/or Cogeneration Process	995	2	*	73	0	W	1.5
	Direct Uses-Total Process	31,825	2	*	43	*	W	2.7
	Process Heating	505	1	*	36	*	W	1.6
	Process Cooling and Refrigeration	386	0	0	0	0	0	1.2
	Machine Drive	29,800	*	*	7	*	W	3.1
	Electro-Chemical Processes	997	--	--	--	--	--	1
	Other Process Use	136	0	*	*	*	0	2.2
	Direct Uses-Total Nonprocess	2,449	*	*	10	*	*	1.8
	Facility HVAC (g)	1,088	*	0	2	*	*	3
	Facility Lighting	1,097	--	--	--	--	--	1.3
	Other Facility Support	247	*	*	*	*	0	1.3

Table 5.3   End Uses of Fuel Consumption, 2002;
       Level: National Data;
       Row: End Uses within NAICS Codes;
       Column: Energy Sources, including Net Demand for Electricity;
       Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Onsite Transportation	10	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	8	0	*	1
	Other Nonprocess Use	6	0	*	0	0	0	0.9
	End Use Not Reported	261	*	*	5	*	W	4.8
323	**PRINTING AND RELATED SUPPORT**							
	RSE Column Factors:	NF	0.5	2.2	1.6	1.7	0.5	
	TOTAL FUEL CONSUMPTION	14,770	*	*	45	*	0	7.8
	Indirect Uses-Boiler Fuel	10	0	*	W	*	0	7.5
	Conventional Boiler Use	10	0	*	6	*	0	7.8
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.5
	Direct Uses-Total Process	8,321	*	*	20	*	0	4.8
	Process Heating	369	*	0	18	*	0	6.7
	Process Cooling and Refrigeration	654	0	0	*	0	0	4.6
	Machine Drive	7,245	0	*	1	*	0	5.2
	Electro-Chemical Processes	26	--	--	--	--	--	1.6
	Other Process Use	27	0	*	*	*	0	8.1
	Direct Uses-Total Nonprocess	4,721	*	*	16	*	0	7.7
	Facility HVAC (g)	2,654	*	*	15	*	0	5.3
	Facility Lighting	1,660	--	--	--	--	--	1.3
	Other Facility Support	374	0	*	1	*	0	4.4
	Onsite Transportation	29	--	*	*	*	--	4.3
	Conventional Electricity Generation	--	0	*	0	0	0	0.9
	Other Nonprocess Use	Q	0		*	0	0	7.2
	End Use Not Reported	1,717	0	*	W	*	0	18.6
324	**PETROLEUM AND COAL PRODUCTS**							
	RSE Column Factors:	NF	1.1	1.9	1.2	1.4	0.7	
	TOTAL FUEL CONSUMPTION	54,688	4	3	854	6	1	4.7
	Indirect Uses-Boiler Fuel	423	2	1	281	1	*	4.5
	Conventional Boiler Use	232	1	*	150	1	*	6.1
	CHP and/or Cogeneration Process	191	1	*	131	*	*	1.5
	Direct Uses-Total Process	50,537	1	1	530	5	*	6.1
	Process Heating	3,227	1	1	512	5	*	6.3
	Process Cooling and Refrigeration	3,055	0	*	2	*	0	1.2
	Machine Drive	44,162	0	*	12	*	0	5.4

Table 5.3   End Uses of Fuel Consumption, 2002;
       Level: National Data;
       Row: End Uses within NAICS Codes;
       Column: Energy Sources, including Net Demand for Electricity;
       Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Electro-Chemical Processes	32	--	--	--	--	--	1.2
	Other Process Use	62	0	*	4	*	0	4
	Direct Uses-Total Nonprocess	3,362	0	*	37	*	*	3.1
	Facility HVAC (g)	1,758	0	*	7	*	*	5.8
	Facility Lighting	1,349	--	--	--	--	--	1.2
	Other Facility Support	250	0	*	2	*	0	4
	Onsite Transportation	2	--	*	*	*	--	5.7
	Conventional Electricity Generation	--	0	*	28	*	*	1.3
	Other Nonprocess Use	3	0	*	*	*	0	3.6
	End Use Not Reported	366	1	*	6	*	0	7.1
324110	**Petroleum Refineries**							
	RSE Column Factors:	NF	1.3	0.6	0.9	0.8	4.1	
	TOTAL FUEL CONSUMPTION	51,750	3	1	799	5	*	3.8
	Indirect Uses-Boiler Fuel	400	2	*	270	1	*	3.6
	Conventional Boiler Use	212	1	*	139	1	*	4.4
	CHP and/or Cogeneration Process	189	1	*	131	*	*	2.2
	Direct Uses-Total Process	48,353	1	*	493	4	*	4.4
	Process Heating	2,930	1	*	477	4	*	4.6
	Process Cooling and Refrigeration	2,983	0	*	2	*	0	1.8
	Machine Drive	42,357	0	*	11	*	0	7.4
	Electro-Chemical Processes	31	--	--	--	--	--	1
	Other Process Use	52	0	0	3	*	0	2.2
	Direct Uses-Total Nonprocess	2,937	0	*	34	*	0	2
	Facility HVAC (g)	1,527	0	0	5	*	0	2.5
	Facility Lighting	1,191	--	--	--	--	--	1.2
	Other Facility Support	218	0	*	1	*	0	5.3
	Onsite Transportation	Q	--	*	*	*	--	1.8
	Conventional Electricity Generation	--	0	*	28	*	0	1.9
	Other Nonprocess Use	0	0	*	*	0	0	1.7
	End Use Not Reported	60	1	*	2	0	0	3.9
324199	**Other Petroleum and Coal Products**							
	RSE Column Factors:	NF	0.8	2	0.9	0.8	0.8	
	TOTAL FUEL CONSUMPTION	692	*	*	4	*	1	1.6
	Indirect Uses-Boiler Fuel	11	*	0	1	0	W	1.1

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Boiler Use	8	*	0	1	0	W	1.1
	CHP and/or Cogeneration Process	3	0	0	*	0	W	1.1
	Direct Uses-Total Process	504	*	*	4	*	W	1.2
	Process Heating	120	*	*	3	*	W	1
	Process Cooling and Refrigeration	38	0	*	0	0	0	0.8
	Machine Drive	346	0	*	*	*	0	1.4
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	34	0	*	*	*	*	1.7
	Facility HVAC (g)	16	0	0	*	*	*	1.1
	Facility Lighting	16	--	--	--	--	--	1
	Other Facility Support	2	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1.9
	Conventional Electricity Generation	--	0	*	*	0	*	0.9
	Other Nonprocess Use	0	0	*	0	0	0	0.7
	End Use Not Reported	143	0	*	0	0	0	0.8
325	**CHEMICALS**							
	RSE Column Factors:	NF	0.6	3	0.8	1.2	2	
	TOTAL FUEL CONSUMPTION	203,890	6	2	1,634	9	14	6.3
	Indirect Uses-Boiler Fuel	1,041	3	W	903	W	14	6.2
	Conventional Boiler Use	785	W	W	439	W	4	4.7
	CHP and/or Cogeneration Process	256	W	*	464	*	10	3.5
	Direct Uses-Total Process	176,667	3	*	663	W	*	5.6
	Process Heating	6,751	3	*	573	W	*	6
	Process Cooling and Refrigeration	17,210	0	*	25	*	0	3.1
	Machine Drive	117,068	*	*	42	W	0	4.7
	Electro-Chemical Processes	35,371	--	--	--	--	--	1
	Other Process Use	267	*	*	27	*	*	7.4
	Direct Uses-Total Nonprocess	22,814	W	W	46	W	*	7.8
	Facility HVAC (g)	11,827	W	*	32	W	*	7.8
	Facility Lighting	8,723	--	--	--	--	--	1.2
	Other Facility Support	W	*	*	3	*	*	5.5
	Onsite Transportation	W	--	W	1	W	--	3.8
	Conventional Electricity Generation	--	0	*	7	*	0	2
	Other Nonprocess Use	145	*	*	3	*	0	4.6
	End Use Not Reported	3,368	W	W	19	W	*	12.7

Table 5.3   End Uses of Fuel Consumption, 2002;
        Level: National Data;
        Row: End Uses within NAICS Codes;
        Column: Energy Sources, including Net Demand for Electricity;
        Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
325110	**Petrochemicals**							
	RSE Column Factors:	NF	1	1.3	0.9	0.9	1	
	TOTAL FUEL CONSUMPTION	9,104	W	*	167	W	W	1.1
	Indirect Uses-Boiler Fuel	170	W	*	53	W	W	1
	Conventional Boiler Use	170	W	*	35	W	0	1
	CHP and/or Cogeneration Process	0	0	0	19	*	W	1.1
	Direct Uses-Total Process	7,251	0	*	107	W	0	1
	Process Heating	414	0	0	W	W	0	1.1
	Process Cooling and Refrigeration	737	0	0	1	0	0	1.1
	Machine Drive	5,722	0	*	W	*	0	1
	Electro-Chemical Processes	342	--	--	--	--	--	1
	Other Process Use	36	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	1,148	0	*	5	W	0	1.9
	Facility HVAC (g)	423	0	*	W	W	0	1.1
	Facility Lighting	541	--	--	--	--	--	1
	Other Facility Support	131	0	0	1	0	0	1.1
	Onsite Transportation	52	--	*	1	0	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	0	0	*	W	0	0	0.9
	End Use Not Reported	535	0	*	2	0	0	1
325120	**Industrial Gases**							
	RSE Column Factors:	NF	0.7	0.5	2	0.8	0.7	
	TOTAL FUEL CONSUMPTION	24,823	0	*	51	*	0	5.8
	Indirect Uses-Boiler Fuel	0	0	*	44	*	0	1.8
	Conventional Boiler Use	0	0	*	W	*	0	2.6
	CHP and/or Cogeneration Process	0	0	0	W	0	0	0.9
	Direct Uses-Total Process	23,477	0	*	W	*	0	1.6
	Process Heating	185	0	*	7	*	0	1.6
	Process Cooling and Refrigeration	2,322	0	*	*	*	0	1.8
	Machine Drive	20,943	0	*	W	*	0	2.2
	Electro-Chemical Processes	27	--	--	--	--	--	1.7
	Other Process Use	0	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	911	0	*	*	*	0	4.2
	Facility HVAC (g)	453	0	*	*	*	0	2.4
	Facility Lighting	411	--	--	--	--	--	1.3

Table 5.3 **End Uses of Fuel Consumption, 2002;**
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Facility Support	47	0	*	*	*	0	2.8
	Onsite Transportation	0	--	*	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	0	0	0	0	0	0	1.5
	End Use Not Reported	434	0	*	*	0	0	4.1
325181	**Alkalies and Chlorine**							
	RSE Column Factors:	NF	1	0.9	1	0.9	1.3	
	TOTAL FUEL CONSUMPTION	18,825	*	*	92	*	1	1.6
	Indirect Uses-Boiler Fuel	5	*	*	76	0	1	1
	Conventional Boiler Use	5	*	*	W	0	W	1
	CHP and/or Cogeneration Process	0	0	0	W	0	W	0.9
	Direct Uses-Total Process	18,209	*	*	W	*	*	1.2
	Process Heating	64	*	*	W	0	*	1.2
	Process Cooling and Refrigeration	521	0	0	0	0	0	1
	Machine Drive	2,451	0	*	0	*	0	1.3
	Electro-Chemical Processes	15,174	--	--	--	--	--	1
	Other Process Use	0	0	0	1	0	0	1
	Direct Uses-Total Nonprocess	610	0	*	W	*	0	1
	Facility HVAC (g)	313	0	0	W	*	0	1
	Facility Lighting	252	--	--	--	--	--	1.1
	Other Facility Support	45	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	*	*	0	0	1
	End Use Not Reported	1	0	0	W	0	0	1
325182	**Carbon Black**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	609	2	*	9	*	0	1
	Indirect Uses-Boiler Fuel	*	0	0	2	0	0	1
	Conventional Boiler Use	*	0	0	2	0	0	1
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1
	Direct Uses-Total Process	512	W	*	7	*	0	1
	Process Heating	8	W	0	7	0	0	1
	Process Cooling and Refrigeration	13	0	0	*	0	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Machine Drive	492	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	97	0	*	*	*	0	1
	Facility HVAC (g)	33	0	0	*	0	0	1
	Facility Lighting	29	--	--	--	--	--	1
	Other Facility Support	35	0	0	*	*	0	1
	Onsite Transportation	1	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	W	0	0	*	0	1
325188	**Other Basic Inorganic Chemicals**							
	RSE Column Factors:	NF	0.7	0.6	3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	26,638	*	*	67	*	1	3.2
	Indirect Uses-Boiler Fuel	46	*	*	19	*	W	2.5
	Conventional Boiler Use	29	*	*	17	*	W	2.7
	CHP and/or Cogeneration Process	17	0	*	2	0	W	2.7
	Direct Uses-Total Process	23,929	*	*	39	*	*	1.7
	Process Heating	583	*	*	38	*	*	2
	Process Cooling and Refrigeration	522	0	0	*	*	0	5.7
	Machine Drive	18,595	0	*	Q	*	0	2.8
	Electro-Chemical Processes	4,214	--	--	--	--	--	1
	Other Process Use	15	0	*	1	*	*	1.8
	Direct Uses-Total Nonprocess	2,101	*	*	3	*	W	2.4
	Facility HVAC (g)	1,147	0	*	2	*	W	3.2
	Facility Lighting	770	--	--	--	--	--	1.2
	Other Facility Support	134	0	0	*	*	0	2.2
	Onsite Transportation	*	--	*	0	*	--	1.8
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	50	*	0	*	*	0	4
	End Use Not Reported	561	*	*	6	*	*	4.5
325192	**Cyclic Crudes and Intermediates**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	36	*	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Indirect Uses-Boiler Fuel	2	*	*	25	0	0	1
	Conventional Boiler Use	2	*	*	W	0	0	1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1
	Direct Uses-Total Process	3,101	*	*	W	*	0	1
	Process Heating	228	*	0	W	*	0	1
	Process Cooling and Refrigeration	560	0	0	0	*	0	1
	Machine Drive	1,975	0	*	0	0	0	1
	Electro-Chemical Processes	337	--	--	--	--	--	1
	Other Process Use	2	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	W	*	0	1
	Facility HVAC (g)	W	0	0	W	0	0	1
	Facility Lighting	146	--	--	--	--	--	1
	Other Facility Support	97	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	*	*	*	0	1
325193	**Ethyl Alcohol**							
	RSE Column Factors:	NF	0.9	0.6	1	0.6	1.7	
	TOTAL FUEL CONSUMPTION	1,798	0	*	29	*	1	4.2
	Indirect Uses-Boiler Fuel	73	0	*	18	*	1	1.6
	Conventional Boiler Use	73	0	*	17	*	1	1.7
	CHP and/or Cogeneration Process	0	0	*	1	0	*	1
	Direct Uses-Total Process	1,645	0	*	10	*	*	2.1
	Process Heating	6	0	0	9	*	*	1.4
	Process Cooling and Refrigeration	75	0	0	0	*	0	1
	Machine Drive	1,564	0	*	0	0	0	2.4
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	81	0	*	1	*	0	1.3
	Facility HVAC (g)	34	0	0	1	*	0	1
	Facility Lighting	42	--	--	--	--	--	1.3
	Other Facility Support	5	0	0	0	0	0	0.8
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	0.8
	Other Nonprocess Use	0	0	0	*	0	0	1
	End Use Not Reported	0	0	0	1	*	0	3.8

Table 5.3   End Uses of Fuel Consumption, 2002;
      Level: National Data;
      Row: End Uses within NAICS Codes;
      Column: Energy Sources, including Net Demand for Electricity;
      Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
325199	**Other Basic Organic Chemicals**							
	RSE Column Factors:	NF	0.6	1.9	1	1.4	0.7	
	TOTAL FUEL CONSUMPTION	35,555	W	*	414	W	W	14.3
	Indirect Uses-Boiler Fuel	115	1	*	228	W	W	8.5
	Conventional Boiler Use	100	1	*	120	W	W	8.2
	CHP and/or Cogeneration Process	15	0	*	108	0	W	1.9
	Direct Uses-Total Process	31,424	W	*	175	W	0	6
	Process Heating	1,905	W	*	130	W	0	6.6
	Process Cooling and Refrigeration	3,766	0	*	20	*	0	1.9
	Machine Drive	20,058	0	*	6	*	0	4.5
	Electro-Chemical Processes	5,668	--	--	--	--	--	1.2
	Other Process Use	27	0	*	17	*	0	5.4
	Direct Uses-Total Nonprocess	3,925	W	*	10	W	0	6.9
	Facility HVAC (g)	1,901	W	*	6	*	0	4.7
	Facility Lighting	1,589	--	--	--	--	--	1.5
	Other Facility Support	327	0	*	1	*	0	2.1
	Onsite Transportation	106	--	*	*	W	--	2.9
	Conventional Electricity Generation	--	0	*	3	0	0	1
	Other Nonprocess Use	1	0	*	*	*	0	1
	End Use Not Reported	92	0	*	1	W	0	4.2
325211	**Plastics Materials and Resins**							
	RSE Column Factors:	NF	0.5	1	1.1	2.4	1.3	
	TOTAL FUEL CONSUMPTION	37,720	*	*	339	*	1	9.8
	Indirect Uses-Boiler Fuel	203	*	*	236	*	1	3.3
	Conventional Boiler Use	203	*	*	47	*	1	2.1
	CHP and/or Cogeneration Process	0	0	0	189	0	Q	1.6
	Direct Uses-Total Process	34,801	*	*	94	*	0	3.3
	Process Heating	W	*	*	89	*	0	4.2
	Process Cooling and Refrigeration	3,328	0	*	1	*	0	1.4
	Machine Drive	21,377	0	*	2	*	0	4.6
	Electro-Chemical Processes	W	--	--	--	--	--	1.2
	Other Process Use	36	0	*	2	*	0	11.2
	Direct Uses-Total Nonprocess	2,473	*	*	5	*	0	4.9
	Facility HVAC (g)	1,237	*	*	W	*	0	5.8

Table 5.3   End Uses of Fuel Consumption, 2002;
      Level: National Data;
      Row: End Uses within NAICS Codes;
      Column: Energy Sources, including Net Demand for Electricity;
      Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility Lighting	1,048	--	--	--	--	--	1.2
	Other Facility Support	174	0	*	*	*	0	2.3
	Onsite Transportation	Q	--	*	*	*	--	4
	Conventional Electricity Generation	--	0	*	1	0	0	1.6
	Other Nonprocess Use	6	0	*	W	*	0	4.5
	End Use Not Reported	Q	*	*	3	*	*	10.1
325212	**Synthetic Rubber**							
	RSE Column Factors:	NF	3.7	0.9	1	1.2	0.3	
	TOTAL FUEL CONSUMPTION	2,177	*	*	27	*	*	10.4
	Indirect Uses-Boiler Fuel	3	*	*	23	0	*	7.6
	Conventional Boiler Use	3	*	*	W	0	*	8.5
	CHP and/or Cogeneration Process	0	0	0	W	0	*	2.2
	Direct Uses-Total Process	1,841	*	*	W	*	*	3.7
	Process Heating	Q	*	*	2	*	*	3.5
	Process Cooling and Refrigeration	218	0	0	W	0	0	2.6
	Machine Drive	1,488	0	*	W	*	0	3.2
	Electro-Chemical Processes	0	--	--	--	--	--	1.2
	Other Process Use	0	*	0	*	0	0	5.1
	Direct Uses-Total Nonprocess	331	*	*	W	*	*	4.1
	Facility HVAC (g)	186	*	0	W	0	*	5.7
	Facility Lighting	116	--	--	--	--	--	1.5
	Other Facility Support	27	0	0	*	*	0	4.8
	Onsite Transportation	1	--	*	0	*	--	1.3
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	Q	0	0	*	0	0	1.7
	End Use Not Reported	2	0	*	W	*	0	2.4
325222	**Noncellulosic Organic Fibers**							
	RSE Column Factors:	NF	1.6	0.8	0.8	1.5	0.9	
	TOTAL FUEL CONSUMPTION	5,292	W	*	29	*	W	1.9
	Indirect Uses-Boiler Fuel	72	W	*	21	*	W	1.2
	Conventional Boiler Use	W	W	*	W	*	W	1.2
	CHP and/or Cogeneration Process	W	W	*	W	0	W	1.1
	Direct Uses-Total Process	4,505	W	*	8	*	0	1.5
	Process Heating	659	W	*	8	*	0	1.6

Table 5.3 End Uses of Fuel Consumption, 2002;
    Level: National Data;
    Row: End Uses within NAICS Codes;
    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Cooling and Refrigeration	903	0	0	*	0	0	1.2
	Machine Drive	2,912	*	*	0	*	0	0.9
	Electro-Chemical Processes	4	--	--	--	--	--	1
	Other Process Use	27	0	0	*	0	0	1.2
	Direct Uses-Total Nonprocess	713	W	*	*	*	0	1.7
	Facility HVAC (g)	340	W	*	*	*	0	1.1
	Facility Lighting	311	--	--	--	--	--	1
	Other Facility Support	45	*	*	*	0	0	1.1
	Onsite Transportation	0	--	*	0	*	--	0.9
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	17	0	*	0	0	0	1.2
	End Use Not Reported	2	0	*	*	*	0	1.1
325311	**Nitrogenous Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	4,076	0	*	184	*	0	1
	Indirect Uses-Boiler Fuel	6	0	*	52	*	0	1
	Conventional Boiler Use	6	0	*	45	*	0	1
	CHP and/or Cogeneration Process	0	0	0	7	0	0	1
	Direct Uses-Total Process	3,577	0	*	129	*	0	1
	Process Heating	194	0	0	121	*	0	1
	Process Cooling and Refrigeration	392	0	0	0	0	0	1
	Machine Drive	2,990	0	*	8	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	1	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	230	0	*	3	*	0	1
	Facility HVAC (g)	80	0	0	1	*	0	1
	Facility Lighting	115	--	--	--	--	--	1
	Other Facility Support	34	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	2	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	263	0	*	0	*	0	1
325312	**Phosphatic Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	3,695	*	*	18	*	*	1
	Indirect Uses-Boiler Fuel	3	*	*	4	0	0	1
	Conventional Boiler Use	3	*	*	*	0	0	1
	CHP and/or Cogeneration Process	0	*	*	*	0	0	1
	Direct Uses-Total Process	3,373	*	*	14	*	*	1
	Process Heating	13	*	*	14	*	*	1
	Process Cooling and Refrigeration	10	0	0	0	0	0	1
	Machine Drive	3,350	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	313	0	*	*	*	0	1
	Facility HVAC (g)	116	0	0	*	0	0	1
	Facility Lighting	108	--	--	--	--	--	1
	Other Facility Support	72	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	18	0	*	0	0	0	1
	End Use Not Reported	6	0	0	0	*	0	1
3254	**Pharmaceuticals and Medicines**							
	RSE Column Factors:	NF	0.6	2.9	1.8	1.2	0.3	
	TOTAL FUEL CONSUMPTION	11,970	*	*	60	*	*	4.3
	Indirect Uses-Boiler Fuel	17	*	*	44	*	*	4.5
	Conventional Boiler Use	17	*	*	27	*	*	5.6
	CHP and/or Cogeneration Process	0	*	*	17	0	0	1
	Direct Uses-Total Process	6,210	0	*	9	*	0	5.7
	Process Heating	373	0	*	8	*	0	3
	Process Cooling and Refrigeration	2,156	0	*	*	0	0	3.1
	Machine Drive	3,541	0	*	*	*	0	7.4
	Electro-Chemical Processes	30	--	--	--	--	--	1.5
	Other Process Use	Q	0	*	*	0	0	5.2
	Direct Uses-Total Nonprocess	5,422	0	*	6	*	0	4
	Facility HVAC (g)	3,241	0	*	5	*	0	3.8
	Facility Lighting	1,686	--	--	--	--	--	1.2
	Other Facility Support	437	0	*	*	*	0	3.6
	Onsite Transportation	28	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	*	0	1
	Other Nonprocess Use	30	0	*	1	0	0	4.2

Table 5.3   End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	End Use Not Reported	321	*	*	1	*	0	9.4
325412	**Pharmaceutical Preparation**							
	RSE Column Factors:	NF	0.7	1.6	2	1.4	0.4	
	TOTAL FUEL CONSUMPTION	9,116	*	*	39	*	*	5
	Indirect Uses-Boiler Fuel	8	*	*	27	0	*	3
	Conventional Boiler Use	8	*	*	18	0	*	3.6
	CHP and/or Cogeneration Process	0	*	*	9	0	0	1
	Direct Uses-Total Process	4,737	0	*	7	*	0	6.4
	Process Heating	326	0	*	6	*	0	3
	Process Cooling and Refrigeration	1,589	0	0	*	0	0	1.8
	Machine Drive	2,702	0	*	*	*	0	5.2
	Electro-Chemical Processes	14	--	--	--	--	--	1.1
	Other Process Use	Q	0	*	*	0	0	6.1
	Direct Uses-Total Nonprocess	4,152	0	*	5	*	0	6.8
	Facility HVAC (g)	2,448	0	*	4	*	0	5.7
	Facility Lighting	1,306	--	--	--	--	--	1.2
	Other Facility Support	345	0	*	*	*	0	2.8
	Onsite Transportation	26	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	27	0	*	1	0	0	3.9
	End Use Not Reported	219	0	*	1	*	0	14.4
325992	**Photographic Film, Paper, Plate, and Chemicals**							
	RSE Column Factors:	NF	0.4	1.3	2	1.5	0.5	
	TOTAL FUEL CONSUMPTION	2,384	*	*	7	*	W	6.6
	Indirect Uses-Boiler Fuel	190	*	*	4	0	W	3
	Conventional Boiler Use	35	*	*	2	0	0	4.7
	CHP and/or Cogeneration Process	156	*	*	3	0	W	1.1
	Direct Uses-Total Process	1,528	0	*	2	*	0	2.4
	Process Heating	125	0	*	1	*	0	2
	Process Cooling and Refrigeration	337	0	0	0	0	0	2.6
	Machine Drive	1,025	0	*	*	0	0	3.2
	Electro-Chemical Processes	41	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	0.9
	Direct Uses-Total Nonprocess	601	0	*	1	*	0	7.6

Table 5.3 End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility HVAC (g)	305	0	*	1	*	0	2.9
	Facility Lighting	274	--	--	--	--	--	1.4
	Other Facility Support	18	0	*	*	0	0	2.8
	Onsite Transportation	4	--	*	0	*	--	3.4
	Conventional Electricity Generation	--	0	0	0	*	0	0.8
	Other Nonprocess Use	*	0	*	*	0	0	0.7
	End Use Not Reported	Q	0	0	*	*	0	8
326	**PLASTICS AND RUBBER PRODUCTS**							
	RSE Column Factors:	NF	1.5	2.4	1.6	2	0.4	
	TOTAL FUEL CONSUMPTION	W	1	*	125	1	Q	7.9
	Indirect Uses-Boiler Fuel	156	1	*	48	W	W	7.8
	Conventional Boiler Use	39	1	*	46	W	W	9.4
	CHP and/or Cogeneration Process	116	0	0	2	0	W	6.1
	Direct Uses-Total Process	39,391	*	*	38	W	0	9.2
	Process Heating	7,722	*	*	36	W	0	7.3
	Process Cooling and Refrigeration	4,128	0	0	1	0	0	8.5
	Machine Drive	26,890	*	*	1	*	0	5.5
	Electro-Chemical Processes	208	--	--	--	--	--	1.7
	Other Process Use	442	0	*	1	*	0	15.1
	Direct Uses-Total Nonprocess	10,478	*	*	27	W	0	7.4
	Facility HVAC (g)	4,960	*	*	24	W	0	9.8
	Facility Lighting	4,058	--	--	--	--	--	1.3
	Other Facility Support	1,195	0	*	1	*	0	9.8
	Onsite Transportation	124	--	*	*	*	--	3.9
	Conventional Electricity Generation	--	0	*	Q	*	0	3
	Other Nonprocess Use	Q	0	*	1	*	0	13.1
	End Use Not Reported	W	0	*	12	W	0	22.8
327	**NONMETALLIC MINERAL PRODUCTS**							
	RSE Column Factors:	NF	0.3	4.4	1.4	2.6	0.3	
	TOTAL FUEL CONSUMPTION	42,223	*	5	410	1	14	4.5
	Indirect Uses-Boiler Fuel	67	*	W	12	*	W	5.5
	Conventional Boiler Use	24	*	W	10	*	W	6.6
	CHP and/or Cogeneration Process	42	*	*	3	0	*	1.9
	Direct Uses-Total Process	35,638	*	2	355	*	W	3.7

Table 5.3   End Uses of Fuel Consumption, 2002;
      Level: National Data;
      Row: End Uses within NAICS Codes;
      Column: Energy Sources, including Net Demand for Electricity;
      Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Heating	8,521	*	1	348	*	W	3.3
	Process Cooling and Refrigeration	1,457	0	*	*	0	0	3.1
	Machine Drive	25,024	0	1	2	*	0	6.3
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	255	0	*	Q	*	0	1.5
	Direct Uses-Total Nonprocess	5,206	*	3	21	*	*	4.5
	Facility HVAC (g)	2,615	*	*	20	*	*	6.1
	Facility Lighting	2,031	--	--	--	--	--	1.3
	Other Facility Support	505	0	*	1	*	0	7.5
	Onsite Transportation	50	--	2	*	*	--	3.4
	Conventional Electricity Generation	--	0	Q	0	*	0	0.9
	Other Nonprocess Use	Q	0	Q	*	*	0	1.4
	End Use Not Reported	1,311	*	W	22	*	*	8.6
3272	**Glass and Glass Products**							
	RSE Column Factors:	NF	0.6	0.8	1.4	1.4	0.7	
	TOTAL FUEL CONSUMPTION	12,244	W	W	148	*	0	3
	Indirect Uses-Boiler Fuel	6	*	W	2	*	0	1.7
	Conventional Boiler Use	6	*	W	2	*	0	1.6
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.7
	Direct Uses-Total Process	10,166	W	*	137	*	0	1.3
	Process Heating	4,683	W	*	135	*	0	1.4
	Process Cooling and Refrigeration	596	0	*	*	0	0	1.4
	Machine Drive	4,769	0	*	1	*	0	3.8
	Electro-Chemical Processes	22	--	--	--	--	--	1.7
	Other Process Use	97	0	*	1	*	0	0.8
	Direct Uses-Total Nonprocess	1,812	W	*	7	*	0	1.9
	Facility HVAC (g)	977	W	*	7	*	0	1.8
	Facility Lighting	674	--	--	--	--	--	1.2
	Other Facility Support	120	0	*	*	*	0	2
	Onsite Transportation	39	--	*	*	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	1	0	*	0	0	0	5.5
	End Use Not Reported	260	0	*	2	*	0	29.8
327211	**Flat Glass**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.3   End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	W	W	W	51	*	0	1
	Indirect Uses-Boiler Fuel	0	0	W	*	0	0	1
	Conventional Boiler Use	0	0	W	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	W	W	*	49	*	0	1
	Process Heating	W	W	*	49	*	0	1
	Process Cooling and Refrigeration	114	0	0	*	0	0	1
	Machine Drive	817	0	*	*	*	0	1
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	37	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	1	*	0	1
	Facility HVAC (g)	W	*	0	1	0	0	1
	Facility Lighting	117	--	--	--	--	--	1
	Other Facility Support	21	0	*	*	*	0	1
	Onsite Transportation	6	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	*	0	1
327213	**Glass Containers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	3,933	0	*	51	*	0	1
	Indirect Uses-Boiler Fuel	2	0	0	*	0	0	1
	Conventional Boiler Use	2	0	0	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	3,457	0	*	48	*	0	1
	Process Heating	1,219	0	0	48	*	0	1
	Process Cooling and Refrigeration	69	0	0	0	0	0	1
	Machine Drive	2,154	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	15	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	474	0	*	2	*	0	1
	Facility HVAC (g)	285	0	*	2	0	0	1
	Facility Lighting	167	--	--	--	--	--	1
	Other Facility Support	18	0	*	*	0	0	1
	Onsite Transportation	5	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
327310	**Cements**							
	RSE Column Factors:	NF	0.7	1.3	1.5	1.1	0.8	
	TOTAL FUEL CONSUMPTION	13,152	*	1	21	*	11	2.1
	Indirect Uses-Boiler Fuel	42	0	W	W	*	W	1.1
	Conventional Boiler Use	0	0	W	*	*	W	1.1
	CHP and/or Cogeneration Process	42	0	0	W	0	0	0.9
	Direct Uses-Total Process	12,070	*	W	W	*	W	1.5
	Process Heating	994	*	W	W	*	W	1.5
	Process Cooling and Refrigeration	341	0	0	0	0	0	1.1
	Machine Drive	10,651	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	84	0	0	*	*	0	0.9
	Direct Uses-Total Nonprocess	809	0	W	1	*	*	2
	Facility HVAC (g)	392	0	*	1	*	*	2.2
	Facility Lighting	307	--	--	--	--	--	1.2
	Other Facility Support	109	0	*	*	*	0	0.9
	Onsite Transportation	2	--	W	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	0.9
	End Use Not Reported	230	0	*	*	*	*	1.4
327410	**Lime**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,353	*	*	7	*	3	1
	Indirect Uses-Boiler Fuel	0	0	0	0	0	0	1
	Conventional Boiler Use	0	0	0	0	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	1,253	*	*	7	*	3	1
	Process Heating	272	*	*	7	*	3	1
	Process Cooling and Refrigeration	3	0	0	0	0	0	1
	Machine Drive	977	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1

Table 5.3 **End Uses of Fuel Consumption, 2002;**
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Nonprocess	101	*	*	*	*	0	1
	Facility HVAC (g)	46	*	*	*	*	0	1
	Facility Lighting	47	--	--	--	--	--	1
	Other Facility Support	8	0	0	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	*	*	*	0	1
	End Use Not Reported	0	*	*	0	*	0	1
327993	**Mineral Wool**							
	RSE Column Factors:	NF	0.9	0.6	1.2	1.2	0.9	
	TOTAL FUEL CONSUMPTION	3,750	0	*	34	*	0	1.2
	Indirect Uses-Boiler Fuel	0	0	0	1	0	0	1
	Conventional Boiler Use	0	0	0	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.2
	Direct Uses-Total Process	3,439	0	*	31	*	0	1.1
	Process Heating	1,502	0	*	31	*	0	1.2
	Process Cooling and Refrigeration	104	0	0	0	0	0	0.9
	Machine Drive	1,762	0	*	*	*	0	1.6
	Electro-Chemical Processes	7	--	--	--	--	--	1
	Other Process Use	64	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	309	0	*	2	*	0	1.6
	Facility HVAC (g)	114	0	*	2	*	0	1.6
	Facility Lighting	168	--	--	--	--	--	1.2
	Other Facility Support	26	0	*	*	0	0	1.7
	Onsite Transportation	2	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.1
	Other Nonprocess Use	0	0	0	0	*	0	1
	End Use Not Reported	Q	0	*	*	*	0	7.5
331	**PRIMARY METALS**							
	RSE Column Factors:	NF	1.6	1.3	1	1.4	0.8	
	TOTAL FUEL CONSUMPTION	150,522	*	3	652	1	2	2.5
	Indirect Uses-Boiler Fuel	271	*	*	69	*	*	2.5
	Conventional Boiler Use	219	*	*	39	*	*	2.7
	CHP and/or Cogeneration Process	52	0	*	30	0	*	1.2

Table 5.3   End Uses of Fuel Consumption, 2002;
        Level: National Data;
        Row: End Uses within NAICS Codes;
        Column: Energy Sources, including Net Demand for Electricity;
        Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Process	138,319	*	1	526	*	2	3.5
	Process Heating	42,266	*	1	516	*	1	4.2
	Process Cooling and Refrigeration	1,232	0	0	1	0	0	2.4
	Machine Drive	48,373	*	*	W	*	0	3.7
	Electro-Chemical Processes	46,244	--	--	--	--	--	1
	Other Process Use	203	0	*	W	*	*	2.6
	Direct Uses-Total Nonprocess	11,191	*	1	51	*	*	1.8
	Facility HVAC (g)	5,525	*	*	43	*	*	3.2
	Facility Lighting	4,426	--	--	--	--	--	1.1
	Other Facility Support	1,055	0	*	5	*	0	3.7
	Onsite Transportation	36	--	1	*	*	--	2.2
	Conventional Electricity Generation	--	0	*	3	*	*	2
	Other Nonprocess Use	148	0	*	*	*	0	3.3
	End Use Not Reported	742	*	*	5	*	*	6.8
331111	**Iron and Steel Mills**							
	RSE Column Factors:	NF	0.5	1.7	1	1.9	1	
	TOTAL FUEL CONSUMPTION	58,067	*	2	377	*	2	3.3
	Indirect Uses-Boiler Fuel	174	*	*	38	*	W	1.8
	Conventional Boiler Use	141	*	*	22	*	W	1.4
	CHP and/or Cogeneration Process	33	0	*	15	0	W	1
	Direct Uses-Total Process	54,132	*	W	321	*	W	3.3
	Process Heating	23,346	*	W	321	*	W	1.9
	Process Cooling and Refrigeration	441	0	0	1	0	0	1.2
	Machine Drive	28,803	0	*	*	*	0	3.9
	Electro-Chemical Processes	1,477	--	--	--	--	--	1
	Other Process Use	65	0	*	*	0	*	2
	Direct Uses-Total Nonprocess	3,586	0	W	18	*	0	3.2
	Facility HVAC (g)	1,709	0	*	13	*	0	3.2
	Facility Lighting	1,552	--	--	--	--	--	1.2
	Other Facility Support	319	0	0	2	0	0	2.4
	Onsite Transportation	6	--	W	0	*	--	2.1
	Conventional Electricity Generation	--	0	0	2	0	0	1.2
	Other Nonprocess Use	0	0	*	0	0	0	5.1
	End Use Not Reported	Q	*	*	Q	*	0	1.8
331112	**Electrometallurgical Ferroalloy Products**							

Table 5.3 End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	1.1	0.8	0.9	0.7	
	TOTAL FUEL CONSUMPTION	3,555	0	*	7	*	*	3.4
	Indirect Uses-Boiler Fuel	35	0	0	*	*	0	0.9
	Conventional Boiler Use	35	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	3,291	0	*	6	0	*	1.6
	Process Heating	1,901	0	0	5	0	0	2.3
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.8
	Machine Drive	200	0	*	0	0	0	2.2
	Electro-Chemical Processes	1,186	--	--	--	--	--	1
	Other Process Use	4	0	*	*	0	*	1
	Direct Uses-Total Nonprocess	229	0	*	1	*	0	0.9
	Facility HVAC (g)	156	0	*	1	*	0	0.9
	Facility Lighting	72	--	--	--	--	--	1
	Other Facility Support	1	0	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	0.8
	Other Nonprocess Use	1	0	0	0	0	0	0.8
	End Use Not Reported	0	0	*	*	0	0	4.1
3312	**Steel Products from Purchased Steel**							
	RSE Column Factors:	NF	0.5	2	1.3	2.7	0.6	
	TOTAL FUEL CONSUMPTION	4,611	*	*	23	*	0	10.9
	Indirect Uses-Boiler Fuel	7	*	*	W	*	0	3.9
	Conventional Boiler Use	7	*	*	W	*	0	3.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.5
	Direct Uses-Total Process	3,693	*	*	16	*	0	6.1
	Process Heating	W	*	*	W	*	0	8
	Process Cooling and Refrigeration	57	0	0	*	0	0	8.7
	Machine Drive	2,359	0	*	W	*	0	7.2
	Electro-Chemical Processes	W	--	--	--	--	--	1.1
	Other Process Use	25	0	*	0	0	0	10.6
	Direct Uses-Total Nonprocess	882	*	*	W	*	0	3.4
	Facility HVAC (g)	398	*	*	3	*	0	4.9
	Facility Lighting	353	--	--	--	--	--	1.4
	Other Facility Support	123	0	*	W	*	0	2.8
	Onsite Transportation	Q	--	*	0	*	--	2.5

Table 5.3   End Uses of Fuel Consumption, 2002;
    Level: National Data;
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    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Electricity Generation	--	0	0	0	*	0	3.2
	Other Nonprocess Use	4	0	*	0	0	0	3.4
	End Use Not Reported	Q	0	*	W	*	0	29
3313	**Alumina and Aluminum**							
	RSE Column Factors:	NF	0.4	1.6	1.6	2.2	0.5	
	TOTAL FUEL CONSUMPTION	57,458	*	*	127	*	0	2.1
	Indirect Uses-Boiler Fuel	34	*	*	18	*	0	2.6
	Conventional Boiler Use	15	*	*	W	*	0	3.4
	CHP and/or Cogeneration Process	19	0	0	W	0	0	0.9
	Direct Uses-Total Process	54,829	0	*	101	*	0	1.9
	Process Heating	4,997	0	*	95	*	0	2.2
	Process Cooling and Refrigeration	146	0	0	0	0	0	5.2
	Machine Drive	7,840	0	*	W	*	0	3.6
	Electro-Chemical Processes	41,829	--	--	--	--	--	1
	Other Process Use	Q	0	*	W	0	0	4.2
	Direct Uses-Total Nonprocess	2,422	0	*	W	*	0	3.2
	Facility HVAC (g)	1,269	0	*	6	*	0	1.8
	Facility Lighting	915	--	--	--	--	--	1.3
	Other Facility Support	235	0	0	W	0	0	7
	Onsite Transportation	3	--	*	*	*	--	4.8
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	1	0	0	0	0	0	1.1
	End Use Not Reported	Q	*	*	W	*	0	6.5
331312	**Primary Aluminum**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	19	*	0	1
	Indirect Uses-Boiler Fuel	0	*	*	1	0	0	1
	Conventional Boiler Use	0	*	*	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	47,742	0	*	17	*	0	1
	Process Heating	W	0	*	W	*	0	1
	Process Cooling and Refrigeration	Q	0	0	0	0	0	1
	Machine Drive	W	0	*	0	*	0	1
	Electro-Chemical Processes	41,726	--	--	--	--	--	1

Table 5.3   End Uses of Fuel Consumption, 2002;
   Level: National Data;
   Row: End Uses within NAICS Codes;
   Column: Energy Sources, including Net Demand for Electricity;
   Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Process Use	0	0	0	W	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	1	*	0	1
	Facility HVAC (g)	W	0	0	1	*	0	1
	Facility Lighting	465	--	--	--	--	--	1
	Other Facility Support	72	0	0	*	0	0	1.6
	Onsite Transportation	0	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
3314	**Nonferrous Metals, except Aluminum**							
	RSE Column Factors:	NF	0.9	1.4	1.4	1.5	0.4	
	TOTAL FUEL CONSUMPTION	10,926	*	*	42	*	*	4.3
	Indirect Uses-Boiler Fuel	9	*	*	W	*	*	2.9
	Conventional Boiler Use	9	*	*	W	*	*	3.1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.3
	Direct Uses-Total Process	9,445	0	*	29	*	*	2
	Process Heating	3,924	0	*	29	*	*	3.4
	Process Cooling and Refrigeration	202	0	0	0	0	0	2.4
	Machine Drive	3,926	0	*	*	*	0	2.2
	Electro-Chemical Processes	1,358	--	--	--	--	--	1
	Other Process Use	35	0	*	*	*	0	2.8
	Direct Uses-Total Nonprocess	1,330	*	*	W	*	*	3.3
	Facility HVAC (g)	635	*	*	4	*	0	3.6
	Facility Lighting	534	--	--	--	--	--	1.3
	Other Facility Support	101	0	0	W	*	0	2.7
	Onsite Transportation	4	--	*	*	*	--	3.8
	Conventional Electricity Generation	--	0	*	*	0	*	3.3
	Other Nonprocess Use	56	0	*	0	0	0	3.8
	End Use Not Reported	143	*	*	W	*	0	7.1
3315	**Foundries**							
	RSE Column Factors:	NF	0.7	1.6	1.2	1.5	0.7	
	TOTAL FUEL CONSUMPTION	15,905	*	*	75	*	*	2.1
	Indirect Uses-Boiler Fuel	12	*	*	3	*	*	1.9
	Conventional Boiler Use	12	*	*	3	*	0	1.8

Table 5.3   End Uses of Fuel Consumption, 2002;
      Level: National Data;
      Row: End Uses within NAICS Codes;
      Column: Energy Sources, including Net Demand for Electricity;
      Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	CHP and/or Cogeneration Process	0	0	0	*	0	*	2.3
	Direct Uses-Total Process	12,929	*	*	53	*	*	2.2
	Process Heating	7,154	0	*	51	*	*	2.5
	Process Cooling and Refrigeration	387	0	0	*	0	0	3.6
	Machine Drive	5,245	*	*	W	*	0	3.8
	Electro-Chemical Processes	85	--	--	--	--	--	1
	Other Process Use	58	0	*	W	*	*	3.1
	Direct Uses-Total Nonprocess	2,742	0	*	18	*	*	2.6
	Facility HVAC (g)	1,358	0	*	16	*	*	5
	Facility Lighting	1,001	--	--	--	--	--	1.1
	Other Facility Support	276	0	*	1	*	0	1.9
	Onsite Transportation	20	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	*	0	1.1
	Other Nonprocess Use	87	0	*	*	*	0	2.5
	End Use Not Reported	222	0	*	2	*	*	9
331511	**Iron Foundries**							
	RSE Column Factors:	NF	0.7	1.1	0.9	2.1	0.9	
	TOTAL FUEL CONSUMPTION	8,216	0	*	27	*	*	2.7
	Indirect Uses-Boiler Fuel	2	0	0	*	*	*	1.1
	Conventional Boiler Use	2	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	*	2
	Direct Uses-Total Process	6,779	0	*	17	*	*	2.4
	Process Heating	4,078	0	*	16	*	*	2.7
	Process Cooling and Refrigeration	149	0	0	0	0	0	3.3
	Machine Drive	2,467	0	*	W	*	0	2.9
	Electro-Chemical Processes	59	--	--	--	--	--	1
	Other Process Use	26	0	0	W	*	*	1.4
	Direct Uses-Total Nonprocess	1,317	0	*	9	*	*	3.3
	Facility HVAC (g)	693	0	*	8	*	*	6
	Facility Lighting	471	--	--	--	--	--	1.2
	Other Facility Support	136	0	*	1	*	0	2.4
	Onsite Transportation	11	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	0	0	2
	Other Nonprocess Use	5	0	*	*	0	0	1.1
	End Use Not Reported	118	0	*	*	*	*	12.2
331521	**Aluminum Die-Casting Foundries**							

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	0.7	0.9	1.4	1.5	0.8	
	TOTAL FUEL CONSUMPTION	1,897	*	*	16	*	0	2.4
	Indirect Uses-Boiler Fuel	0	*	0	1	*	0	1.2
	Conventional Boiler Use	0	*	0	1	*	0	1.2
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.5
	Direct Uses-Total Process	1,310	0	*	10	*	0	3.7
	Process Heating	262	0	*	10	*	0	1.7
	Process Cooling and Refrigeration	53	0	0	*	0	0	1.7
	Machine Drive	971	0	0	*	*	0	4.6
	Electro-Chemical Processes	7	--	--	--	--	--	1
	Other Process Use	17	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	549	0	*	4	*	0	2.2
	Facility HVAC (g)	241	0	0	3	*	0	2.2
	Facility Lighting	206	--	--	--	--	--	1.2
	Other Facility Support	46	0	0	*	0	0	3.2
	Onsite Transportation	7	--	*	*	*	--	1.7
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	48	0	0	*	0	0	0.9
	End Use Not Reported	38	0	*	1	*	0	4.6
331524	**Aluminum Foundries, except Die-Casting**							
	RSE Column Factors:	NF	0.8	1	1.2	1.1	0.8	
	TOTAL FUEL CONSUMPTION	1,350	*	*	14	*	0	3.4
	Indirect Uses-Boiler Fuel	1	0	0	*	*	0	0.9
	Conventional Boiler Use	1	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.3
	Direct Uses-Total Process	1,015	*	*	11	*	0	2.7
	Process Heating	322	0	*	11	*	0	3.4
	Process Cooling and Refrigeration	53	0	0	*	0	0	0.9
	Machine Drive	637	*	*	*	*	0	1.3
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	2	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	311	0	*	2	*	0	2.3
	Facility HVAC (g)	148	0	*	2	*	0	1.8
	Facility Lighting	127	--	--	--	--	--	1.3
	Other Facility Support	34	0	0	1	*	0	1.1

Table 5.3   End Uses of Fuel Consumption, 2002;
        Level: National Data;
        Row: End Uses within NAICS Codes;
        Column: Energy Sources, including Net Demand for Electricity;
        Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Onsite Transportation	1	--	*	0	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1.3
	End Use Not Reported	23	0	*	*	*	0	21.7
332	**FABRICATED METAL PRODUCTS**							
	RSE Column Factors:	NF	0.8	3.1	1.4	1.9	0.3	
	TOTAL FUEL CONSUMPTION	47,352	*	1	204	1	*	15.9
	Indirect Uses-Boiler Fuel	16	*	*	W	*	0	12.5
	Conventional Boiler Use	15	*	*	W	*	0	12.8
	CHP and/or Cogeneration Process	*	0	*	W	0	0	1.1
	Direct Uses-Total Process	33,777	*	*	128	*	*	9
	Process Heating	10,866	*	*	126	*	*	13.7
	Process Cooling and Refrigeration	1,642	0	*	*	0	0	9.1
	Machine Drive	20,891	0	*	2	*	0	9.8
	Electro-Chemical Processes	290	--	--	--	--	--	1.6
	Other Process Use	88	0	*	*	*	*	6.8
	Direct Uses-Total Nonprocess	10,232	*	*	44	*	*	6.1
	Facility HVAC (g)	4,798	*	*	42	*	*	6.5
	Facility Lighting	4,473	--	--	--	--	--	1.4
	Other Facility Support	835	0	*	1	*	0	7.4
	Onsite Transportation	35	--	*	*	*	--	4.6
	Conventional Electricity Generation	--	0	*	*	*	0	3.1
	Other Nonprocess Use	91	0	*	Q	*	0	7.9
	End Use Not Reported	3,327	*	*	W	*	0	21.5
333	**MACHINERY**							
	RSE Column Factors:	NF	0.4	3.5	1.8	2.7	0.4	
	TOTAL FUEL CONSUMPTION	24,694	*	*	80	1	*	10.3
	Indirect Uses-Boiler Fuel	Q	*	*	14	*	*	5.9
	Conventional Boiler Use	Q	*	*	13	*	*	10.3
	CHP and/or Cogeneration Process	0	0	*	1	0	*	3.7
	Direct Uses-Total Process	14,975	0	*	32	W	0	6.2
	Process Heating	1,834	0	*	29	W	0	8.9
	Process Cooling and Refrigeration	806	0	0	*	0	0	5.7
	Machine Drive	11,973	0	*	2	*	0	7.4

Table 5.3 End Uses of Fuel Consumption, 2002;
    Level: National Data;
    Row: End Uses within NAICS Codes;
    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Electro-Chemical Processes	227	--	--	--	--	--	1.6
	Other Process Use	134	0	*	*	*	0	11.3
	Direct Uses-Total Nonprocess	8,648	*	*	30	W	0	5.1
	Facility HVAC (g)	4,550	*	*	29	W	0	6.3
	Facility Lighting	3,385	--	--	--	--	--	1.3
	Other Facility Support	624	0	*	1	*	0	6.8
	Onsite Transportation	56	--	*	*	W	--	5.7
	Conventional Electricity Generation	--	0	*	*	0	0	3.1
	Other Nonprocess Use	32	0	*	*	*	0	11
	End Use Not Reported	1,028	*	*	4	W	0	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.9	1.3	1.2	1.2	
	TOTAL FUEL CONSUMPTION	38,417	*	*	63	*	*	17.7
	Indirect Uses-Boiler Fuel	30	*	*	26	*	*	12.8
	Conventional Boiler Use	30	*	*	26	*	0	11.5
	CHP and/or Cogeneration Process	0	0	0	*	0	*	4.3
	Direct Uses-Total Process	18,145	*	*	10	*	0	5.9
	Process Heating	4,337	*	0	9	*	0	7.1
	Process Cooling and Refrigeration	3,450	0	0	*	*	0	7.3
	Machine Drive	8,752	0	*	*	*	0	3
	Electro-Chemical Processes	545	--	--	--	--	--	1.5
	Other Process Use	1,061	0	*	1	0	0	4.1
	Direct Uses-Total Nonprocess	18,534	*	*	22	*	0	11.6
	Facility HVAC (g)	10,978	*	*	20	*	0	7.6
	Facility Lighting	4,916	--	--	--	--	--	1.5
	Other Facility Support	2,573	*	*	1	*	0	10.3
	Onsite Transportation	29	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	*	0	3.7
	Other Nonprocess Use	38	0	*	1	*	0	5.3
	End Use Not Reported	1,708	*	*	5	*	0	12.6
334413	**Semiconductors and Related Devices**							
	RSE Column Factors:	NF	0.5	0.7	2.3	1.7	0.6	
	TOTAL FUEL CONSUMPTION	13,028	*	*	21	*	0	4
	Indirect Uses-Boiler Fuel	11	*	*	11	0	0	3.2

Table 5.3 End Uses of Fuel Consumption, 2002;
  Level: National Data;
  Row: End Uses within NAICS Codes;
  Column: Energy Sources, including Net Demand for Electricity;
  Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Boiler Use	11	*	*	11	0	0	3.2
	CHP and/or Cogeneration Process	0	0	0	*	0	0	0.8
	Direct Uses-Total Process	7,433	*	*	2	*	0	1.6
	Process Heating	1,243	*	0	1	*	0	1.8
	Process Cooling and Refrigeration	1,524	0	0	*	0	0	1.3
	Machine Drive	4,164	0	*	*	*	0	1.3
	Electro-Chemical Processes	174	--	--	--	--	--	1.2
	Other Process Use	328	0	*	1	0	0	1.5
	Direct Uses-Total Nonprocess	5,339	0	*	6	*	0	2.9
	Facility HVAC (g)	3,954	0	*	6	*	0	1.1
	Facility Lighting	802	--	--	--	--	--	1.2
	Other Facility Support	568	0	*	*	*	0	2.9
	Onsite Transportation	2	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	0	0	0	1.3
	Other Nonprocess Use	14	0	*	*	0	0	2.3
	End Use Not Reported	244	0	*	2	*	0	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**							
	RSE Column Factors:	NF	1.2	2.1	1.5	1.6	0.4	
	TOTAL FUEL CONSUMPTION	13,908	*	*	51	*	*	6.3
	Indirect Uses-Boiler Fuel	39	*	*	6	*	*	2.9
	Conventional Boiler Use	39	*	*	6	*	*	2.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	4.1
	Direct Uses-Total Process	8,641	0	*	27	*	0	5.3
	Process Heating	2,597	0	*	27	*	0	8
	Process Cooling and Refrigeration	614	0	*	*	0	0	8.2
	Machine Drive	4,980	0	*	*	*	0	8.2
	Electro-Chemical Processes	367	--	--	--	--	--	1.5
	Other Process Use	84	0	*	*	*	0	12
	Direct Uses-Total Nonprocess	4,632	*	*	15	*	0	7.3
	Facility HVAC (g)	2,375	*	*	15	*	0	8.6
	Facility Lighting	1,799	--	--	--	--	--	1.3
	Other Facility Support	350	0	*	*	*	0	6.9
	Onsite Transportation	35	--	*	*	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	0	0	1.3
	Other Nonprocess Use	73	0	*	*	*	0	12
	End Use Not Reported	597	*	*	3	*	0	22.4

Table 5.3   End Uses of Fuel Consumption, 2002;
     Level: National Data;
     Row: End Uses within NAICS Codes;
     Column: Energy Sources, including Net Demand for Electricity;
     Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
336	**TRANSPORTATION EQUIPMENT**							
	RSE Column Factors:	NF	0.4	2.8	1.6	2.9	0.4	
	TOTAL FUEL CONSUMPTION	W	1	1	197	1	*	5.4
	Indirect Uses-Boiler Fuel	99	W	*	50	*	*	5.4
	Conventional Boiler Use	99	W	*	47	*	*	5.4
	CHP and/or Cogeneration Process	0	W	*	3	0	*	4
	Direct Uses-Total Process	30,232	*	*	73	W	*	7.1
	Process Heating	4,844	*	*	61	W	*	5.9
	Process Cooling and Refrigeration	2,279	*	0	2	*	0	3
	Machine Drive	21,942	0	*	2	*	0	7.8
	Electro-Chemical Processes	508	--	--	--	--	--	1.5
	Other Process Use	659	0	*	Q	*	0	2
	Direct Uses-Total Nonprocess	19,283	W	*	65	W	*	4.2
	Facility HVAC (g)	9,641	W	*	61	*	*	4.3
	Facility Lighting	7,548	--	--	--	--	--	1.3
	Other Facility Support	1,719	*	*	2	*	0	5
	Onsite Transportation	280	--	*	*	W	--	5.6
	Conventional Electricity Generation	--	0	*	1	*	0	3.6
	Other Nonprocess Use	95	0	*	Q	*	0	2.9
	End Use Not Reported	W	*	*	10	*	*	20.7
336112	**Light Trucks and Utility Vehicles**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	4,976	*	*	35	*	W	1
	Indirect Uses-Boiler Fuel	6	*	0	11	*	W	1
	Conventional Boiler Use	6	*	0	11	*	W	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	2,923	0	0	14	*	0	1
	Process Heating	172	0	0	12	0	0	1
	Process Cooling and Refrigeration	271	0	0	1	0	0	1
	Machine Drive	2,220	0	0	*	*	0	1
	Electro-Chemical Processes	76	--	--	--	--	--	1
	Other Process Use	184	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	10	*	0	1
	Facility HVAC (g)	W	*	0	9	*	0	1
	Facility Lighting	819	--	--	--	--	--	1

Table 5.3   End Uses of Fuel Consumption, 2002;
    Level: National Data;
    Row: End Uses within NAICS Codes;
    Column: Energy Sources, including Net Demand for Electricity;
    Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Facility Support	205	0	*	*	*	0	1
	Onsite Transportation	80	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	*	*	0	0	1
	Other Nonprocess Use	2	0	0	*	0	0	1
	End Use Not Reported	W	0	0	*	0	0	1
337	**FURNITURE AND RELATED PRODUCTS**							
	RSE Column Factors:	NF	0.5	1	2.1	1.7	1.4	
	TOTAL FUEL CONSUMPTION	7,170	*	*	24	*	*	8.7
	Indirect Uses-Boiler Fuel	73	0	*	1	*	*	6
	Conventional Boiler Use	Q	0	*	1	*	*	6.9
	CHP and/or Cogeneration Process	16	0	0	*	0	*	3.6
	Direct Uses-Total Process	4,080	0	*	10	*	*	8.5
	Process Heating	318	0	*	10	*	*	7.3
	Process Cooling and Refrigeration	134	0	*	*	*	0	3.3
	Machine Drive	3,619	0	*	*	*	0	9.2
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	Q	0	0	0	0	0	3.6
	Direct Uses-Total Nonprocess	2,352	0	*	12	*	*	8
	Facility HVAC (g)	931	0	*	11	*	*	10.3
	Facility Lighting	1,153	--	--	--	--	--	1.4
	Other Facility Support	225	0	*	*	*	0	3.9
	Onsite Transportation	20	--	*	*	*	--	5.2
	Conventional Electricity Generation	--	0	*	0	*	0	1.1
	Other Nonprocess Use	Q	0	*	*	0	0	1.2
	End Use Not Reported	665	*	*	1	*	*	23.1
339	**MISCELLANEOUS**							
	RSE Column Factors:	NF	0.3	2.7	2.1	1.7	0.5	
	TOTAL FUEL CONSUMPTION	10,375	*	*	31	*	0	7.3
	Indirect Uses-Boiler Fuel	W	*	*	9	*	0	3.7
	Conventional Boiler Use	W	*	*	9	*	0	3.7
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.7
	Direct Uses-Total Process	5,383	0	*	9	*	0	7.4
	Process Heating	953	0	0	8	*	0	7.3
	Process Cooling and Refrigeration	616	0	0	*	0	0	6.1

Table 5.3 End Uses of Fuel Consumption, 2002;
        Level: National Data;
        Row: End Uses within NAICS Codes;
        Column: Energy Sources, including Net Demand for Electricity;
        Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Machine Drive	3,750	0	*	*	*	0	9.7
	Electro-Chemical Processes	18	--	--	--	--	--	1.6
	Other Process Use	45	0	0	*	*	0	3.5
	Direct Uses-Total Nonprocess	4,056	0	*	10	*	0	6.3
	Facility HVAC (g)	2,097	0	*	10	*	0	7.3
	Facility Lighting	1,503	--	--	--	--	--	1.3
	Other Facility Support	411	0	*	*	*	0	5.9
	Onsite Transportation	27	--	*	0	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	*	0	1.8
	Other Nonprocess Use	Q	0	*	*	*	0	7.7
	End Use Not Reported	W	*	*	3	*	0	14.2

   (a) The Bureau of the Census classifies establishments using the North American
Industry Classification System (NAICS).
   (b) 'Net Demand for Electricity' is the sum of purchases, transfers in, and
total onsite electricity generation, minus sales and transfers offsite. It is
the total amount of electricity used by establishments. 'Net Demand for
Electricity' is not directly comparable with "Net Electricity,' which specifically
excludes electricity generated onsite by combustible energy sources.
   (c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4
diesel fuels.
   (d) '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.
   (e) 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).'
   (f) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes
steam and hot water.
   NF=No applicable RSE row/column factor.
   * 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.
   -- Estimation is not applicable.
   S=Negative value.
   Notes: To obtain the RSE percentage for any table cell, multiply the cell's
corresponding RSE column and RSE row factors.   Totals may not equal sum of

Table 5.3   End Uses of Fuel Consumption, 2002;
          Level: National Data;
          Row: End Uses within NAICS Codes;
          Column: Energy Sources, including Net Demand for Electricity;
          Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors

components because of independent rounding.   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.
Allocations to specific end uses are made on the basis of reasonable
approximations by respondents.