

Released: February 2021
 Next MECS will be fielded in 2022.

Table 5.2 End Uses of Fuel Consumption, 2018;

Level: National Data;

Row: End Uses within NAICS Codes;

Column: Energy Sources, including Net Electricity;

Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal (excluding Coke and Breeze)	Other(f)
Total United States									
311 - 339	ALL MANUFACTURING INDUSTRIES								
	TOTAL FUEL CONSUMPTION	14,859	2,591	17	86	6,362	64	432	5,307
	Indirect Uses-Boiler Fuel	--	33	11	8	2,570	9	189	--
	Conventional Boiler Use	--	33	6	3	823	5	14	--
	CHP and/or Cogeneration Process	--	0	5	5	1,746	4	175	--
	Direct Uses-Total Process	--	2,040	5	35	3,268	D	243	--
	Process Heating	--	272	5	13	2,810	22	178	--
	Process Cooling and Refrigeration	--	223	*	*	24	*	3	--
	Machine Drive	--	1,313	*	14	171	2	15	--
	Electro-Chemical Processes	--	161	--	--	--	--	--	--
	Other Process Use	--	71	*	8	263	D	46	--
	Direct Uses-Total Nonprocess	--	483	1	43	481	D	1	--
	Facility HVAC (g)	--	241	*	2	386	D	*	--
	Facility Lighting	--	165	--	--	--	--	--	--
	Other Facility Support	--	50	0	*	52	*	*	--
	Onsite Transportation	--	14	--	33	3	18	--	--
	Conventional Electricity Generation	--	--	*	3	28	*	*	--
	Other Nonprocess Use	--	12	*	4	12	1	0	--
	End Use Not Reported	5,389	36	*	*	43	3	0	5,307
311	FOOD								
	TOTAL FUEL CONSUMPTION	1,144	314	*	14	669	7	47	93
	Indirect Uses-Boiler Fuel	--	8	*	2	388	3	37	--
	Conventional Boiler Use	--	8	*	1	136	2	5	--
	CHP and/or Cogeneration Process	--	0	*	1	252	1	32	--

Direct Uses-Total Process	--	230	*	Q	199	2	10	--
Process Heating	--	11	*	Q	167	Q	10	--
Process Cooling and Refrigeration	--	83	*	*	4	*	0	--
Machine Drive	--	130	*	*	14	*	0	--
Electro-Chemical Processes	--	2	--	--	--	--	--	--
Other Process Use	--	3	0	Q	14	*	0	--
Direct Uses-Total Nonprocess	--	71	*	7	77	2	*	--
Facility HVAC (g)	--	33	*	Q	53	1	0	--
Facility Lighting	--	28	--	--	--	--	--	--
Other Facility Support	--	6	0	*	23	*	0	--
Onsite Transportation	--	3	--	2	*	1	--	--
Conventional Electricity Generation	--	--	0	2	*	*	*	--
Other Nonprocess Use	--	1	0	1	*	*	0	--
End Use Not Reported	103	5	0	0	5	*	0	93

3112 Grain and Oilseed Milling

TOTAL FUEL CONSUMPTION	246	50	*	1	149	*	19	27
Indirect Uses-Boiler Fuel	--	2	0	*	99	*	19	--
Conventional Boiler Use	--	2	0	*	36	0	5	--
CHP and/or Cogeneration Process	--	0	0	*	63	*	14	--
Direct Uses-Total Process	--	43	*	*	45	*	0	--
Process Heating	--	2	*	*	39	*	0	--
Process Cooling and Refrigeration	--	5	0	0	*	*	0	--
Machine Drive	--	34	0	*	4	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	3	*	0	--
Direct Uses-Total Nonprocess	--	5	*	*	5	*	0	--
Facility HVAC (g)	--	2	*	*	4	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	28	*	0	0	Q	*	0	27

311221 Wet Corn Milling

TOTAL FUEL CONSUMPTION	111	21	0	*	61	*	10	18
Indirect Uses-Boiler Fuel	--	1	0	0	44	0	10	--
Conventional Boiler Use	--	1	0	0	8	0	1	--

CHP and/or Cogeneration Process	--	0	0	0	36	0	9	--
Direct Uses-Total Process	--	19	0	*	17	*	0	--
Process Heating	--	*	0	0	16	*	0	--
Process Cooling and Refrigeration	--	4	0	0	*	0	0	--
Machine Drive	--	15	0	*	0	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	0	0	*	*	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	0	0	*	0	*	0	--
End Use Not Reported	18	0	0	0	0	0	0	18

31131 Sugar

TOTAL FUEL CONSUMPTION	106	4	*	*	33	*	29	40
Indirect Uses-Boiler Fuel	--	1	*	*	25	0	18	--
Conventional Boiler Use	--	1	*	*	4	0	*	--
CHP and/or Cogeneration Process	--	0	*	*	20	0	18	--
Direct Uses-Total Process	--	3	0	*	8	*	10	--
Process Heating	--	*	0	0	8	0	10	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	3	0	*	*	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	*	0	*	*	*	*	--
Facility HVAC (g)	--	*	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	*	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	40	0	0	0	0	0	0	40

3114 Fruit and Vegetable Preserving and Specialty Foods

TOTAL FUEL CONSUMPTION	129	34	*	*	92	1	0	2
Indirect Uses-Boiler Fuel	--	1	0	*	59	1	0	--

Conventional Boiler Use	--	1	0	0	18	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	41	*	0	--
Direct Uses-Total Process	--	26	*	*	24	*	0	--
Process Heating	--	1	*	*	22	*	0	--
Process Cooling and Refrigeration	--	13	0	*	1	*	0	--
Machine Drive	--	11	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	7	*	*	8	*	0	--
Facility HVAC (g)	--	3	*	*	6	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	2	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	3	*	0	0	1	*	0	2

3115 Dairy Products

TOTAL FUEL CONSUMPTION	122	39	*	1	79	2	0	1
Indirect Uses-Boiler Fuel	--	1	*	*	47	1	0	--
Conventional Boiler Use	--	1	*	*	21	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	26	*	0	--
Direct Uses-Total Process	--	29	*	*	25	1	0	--
Process Heating	--	2	0	*	22	*	0	--
Process Cooling and Refrigeration	--	12	*	*	1	*	0	--
Machine Drive	--	14	*	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	1	0	0	--
Direct Uses-Total Nonprocess	--	8	*	*	5	*	0	--
Facility HVAC (g)	--	4	*	*	4	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	1	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	3	1	0	0	1	*	0	1

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	278	108	*	3	149	2	0	16
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Indirect Uses-Boiler Fuel	--	2	*	1	89	1	0	--
Conventional Boiler Use	--	2	*	*	38	1	0	--
CHP and/or Cogeneration Process	--	0	0	*	51	*	0	--
Direct Uses-Total Process	--	74	0	Q	33	*	0	--
Process Heating	--	2	0	*	25	*	0	--
Process Cooling and Refrigeration	--	40	0	*	2	*	0	--
Machine Drive	--	31	0	*	2	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	4	*	0	--
Direct Uses-Total Nonprocess	--	Q	0	2	26	*	0	--
Facility HVAC (g)	--	Q	0	*	13	*	0	--
Facility Lighting	--	Q	--	--	--	--	--	--
Other Facility Support	--	2	0	*	13	*	0	--
Onsite Transportation	--	1	--	1	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	18	*	0	0	1	*	0	16

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	118	49	*	*	54	1	*	Q
Indirect Uses-Boiler Fuel	--	1	*	*	35	*	*	--
Conventional Boiler Use	--	1	*	*	18	*	*	--
CHP and/or Cogeneration Process	--	0	*	*	17	*	*	--
Direct Uses-Total Process	--	37	0	*	14	*	*	--
Process Heating	--	1	0	*	12	*	*	--
Process Cooling and Refrigeration	--	9	0	*	*	*	0	--
Machine Drive	--	24	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	11	*	*	6	1	*	--
Facility HVAC (g)	--	5	0	*	4	*	*	--
Facility Lighting	--	4	--	--	--	--	--	--
Other Facility Support	--	1	0	0	1	*	0	--
Onsite Transportation	--	1	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	*	*	*	*	0	--
End Use Not Reported	Q	*	0	0	*	*	0	Q

3121 Beverages

TOTAL FUEL CONSUMPTION	111	46	*	*	50	1	*	Q
Indirect Uses-Boiler Fuel	--	1	*	*	32	*	*	--
Conventional Boiler Use	--	1	0	*	16	*	*	--
CHP and/or Cogeneration Process	--	0	*	*	16	*	*	--
Direct Uses-Total Process	--	35	0	*	13	*	*	--
Process Heating	--	1	0	*	11	*	*	--
Process Cooling and Refrigeration	--	9	0	*	*	*	0	--
Machine Drive	--	23	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	10	*	*	5	1	*	--
Facility HVAC (g)	--	5	0	*	4	*	*	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	0	1	*	0	--
Onsite Transportation	--	1	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	*	*	*	*	0	--
End Use Not Reported	Q	*	0	0	*	*	0	Q

3122 Tobacco

TOTAL FUEL CONSUMPTION	7	3	*	*	4	*	0	*
Indirect Uses-Boiler Fuel	--	*	*	*	3	*	0	--
Conventional Boiler Use	--	*	*	*	2	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	1	*	0	--
Direct Uses-Total Process	--	2	0	*	1	*	0	--
Process Heating	--	*	0	0	*	*	0	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	1	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	*	*	0	--
Facility HVAC (g)	--	1	0	*	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	*	*	0	0	0	0	0	*

313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	64	37	*	*	23	1	1	1
Indirect Uses-Boiler Fuel	--	1	*	*	11	1	1	--
Conventional Boiler Use	--	1	*	*	7	*	1	--
CHP and/or Cogeneration Process	--	0	*	*	5	*	1	--
Direct Uses-Total Process	--	27	0	*	9	*	0	--
Process Heating	--	3	0	*	9	*	0	--
Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
Machine Drive	--	21	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	10	0	*	2	*	0	--
Facility HVAC (g)	--	6	0	*	2	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	0	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	1	*	0	0	0	*	0	1

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	22	10	0	*	11	*	*	*
Indirect Uses-Boiler Fuel	--	*	0	*	4	*	0	--
Conventional Boiler Use	--	*	0	*	4	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--
Direct Uses-Total Process	--	7	0	*	6	*	*	--
Process Heating	--	1	0	*	5	*	*	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	6	0	0	Q	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	0	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	0	0	0	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

315 APPAREL

TOTAL FUEL CONSUMPTION	4	2	0	*	2	*	*	*
Indirect Uses-Boiler Fuel	--	*	0	0	1	*	0	--
Conventional Boiler Use	--	*	0	0	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	*	0	--
Direct Uses-Total Process	--	1	0	*	1	*	0	--
Process Heating	--	*	0	0	*	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	1	0	0	*	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	0	0	0	--
Direct Uses-Total Nonprocess	--	1	0	0	*	*	*	--
Facility HVAC (g)	--	1	0	0	*	*	*	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	0	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	0	*	*	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	2	1	0	*	1	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	*	*	0	--
Conventional Boiler Use	--	*	0	*	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	*	0	--
Direct Uses-Total Process	--	*	0	0	*	*	0	--
Process Heating	--	*	0	0	*	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	*	0	0	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	0	0	--
Direct Uses-Total Nonprocess	--	*	0	*	*	*	0	--
Facility HVAC (g)	--	*	0	*	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	0	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	387	71	*	11	67	4	*	233
Indirect Uses-Boiler Fuel	--	1	*	*	19	*	*	--
Conventional Boiler Use	--	1	0	*	4	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	15	*	*	--
Direct Uses-Total Process	--	58	*	Q	40	1	*	--
Process Heating	--	3	*	*	34	*	*	--
Process Cooling and Refrigeration	--	1	0	*	*	*	0	--
Machine Drive	--	53	*	1	2	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	Q	4	*	0	--
Direct Uses-Total Nonprocess	--	11	*	6	8	3	*	--
Facility HVAC (g)	--	5	*	*	6	*	*	--
Facility Lighting	--	5	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	6	*	3	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	1	*	0	--
End Use Not Reported	235	1	0	0	*	*	0	233

321113 Sawmills

TOTAL FUEL CONSUMPTION	161	25	*	5	18	*	0	114
Indirect Uses-Boiler Fuel	--	*	*	*	6	*	0	--
Conventional Boiler Use	--	*	0	*	1	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	5	*	0	--
Direct Uses-Total Process	--	21	0	1	Q	*	0	--
Process Heating	--	1	0	*	Q	*	0	--
Process Cooling and Refrigeration	--	*	0	*	*	0	0	--
Machine Drive	--	20	0	1	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	0	*	0	--
Direct Uses-Total Nonprocess	--	3	*	4	1	*	0	--
Facility HVAC (g)	--	1	*	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	4	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	114	*	0	0	*	*	0	114

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	139	23	*	1	32	1	*	83
Indirect Uses-Boiler Fuel	--	*	0	*	9	*	*	--
Conventional Boiler Use	--	*	0	*	3	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	7	*	*	--
Direct Uses-Total Process	--	19	*	*	20	*	0	--
Process Heating	--	1	*	*	15	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	18	*	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	4	*	0	--
Direct Uses-Total Nonprocess	--	3	0	1	2	1	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	1	*	1	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	1	*	0	--
End Use Not Reported	83	*	0	0	*	*	0	83

321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	78	15	*	*	20	*	0	42
Indirect Uses-Boiler Fuel	--	*	0	*	5	*	0	--
Conventional Boiler Use	--	*	0	*	2	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	3	*	0	--
Direct Uses-Total Process	--	13	*	*	14	*	0	--
Process Heating	--	*	*	*	10	*	0	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	12	*	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	4	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	*	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	0	1	*	0	--

	End Use Not Reported	42	0	0	0	0	0	0	42
3219	Other Wood Products								
	TOTAL FUEL CONSUMPTION	78	22	*	Q	15	1	*	35
	Indirect Uses-Boiler Fuel	--	1	0	*	2	*	0	--
	Conventional Boiler Use	--	1	0	*	1	*	0	--
	CHP and/or Cogeneration Process	--	0	0	*	2	*	0	--
	Direct Uses-Total Process	--	16	0	Q	8	*	*	--
	Process Heating	--	1	0	*	7	*	*	--
	Process Cooling and Refrigeration	--	*	0	*	*	*	0	--
	Machine Drive	--	14	0	*	Q	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	Q	*	*	0	--
	Direct Uses-Total Nonprocess	--	5	*	1	5	1	*	--
	Facility HVAC (g)	--	2	*	*	4	*	*	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	0	*	*	0	--
	Onsite Transportation	--	*	--	1	*	1	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	End Use Not Reported	35	*	0	0	*	*	0	35
322	PAPER								
	TOTAL FUEL CONSUMPTION	2,039	174	9	4	572	3	54	1,223
	Indirect Uses-Boiler Fuel	--	5	7	2	386	*	52	--
	Conventional Boiler Use	--	5	1	*	65	*	1	--
	CHP and/or Cogeneration Process	--	0	5	2	321	*	51	--
	Direct Uses-Total Process	--	146	2	*	158	*	1	--
	Process Heating	--	5	2	*	143	*	0	--
	Process Cooling and Refrigeration	--	5	0	0	*	*	0	--
	Machine Drive	--	133	0	*	7	*	1	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	1	0	*	7	*	*	--
	Direct Uses-Total Nonprocess	--	22	*	2	27	2	0	--
	Facility HVAC (g)	--	10	*	*	18	*	0	--
	Facility Lighting	--	9	--	--	--	--	--	--
	Other Facility Support	--	3	0	*	2	*	0	--
	Onsite Transportation	--	1	--	2	*	2	--	--
	Conventional Electricity Generation	--	--	*	*	6	*	0	--

Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	1,226	Q	*	*	Q	*	0	1,223

322110 Pulp Mills

TOTAL FUEL CONSUMPTION	292	5	3	1	40	*	*	242
Indirect Uses-Boiler Fuel	--	*	2	*	21	*	*	--
Conventional Boiler Use	--	*	0	*	1	0	0	--
CHP and/or Cogeneration Process	--	0	2	*	21	*	*	--
Direct Uses-Total Process	--	5	*	*	18	0	0	--
Process Heating	--	*	*	*	18	0	0	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	4	0	*	*	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	0	0	0	--
Direct Uses-Total Nonprocess	--	*	*	*	1	*	0	--
Facility HVAC (g)	--	*	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	*	*	1	0	0	--
Other Nonprocess Use	--	0	0	0	0	0	0	--
End Use Not Reported	242	0	0	*	0	0	0	242

322121 Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	696	53	3	2	224	1	39	375
Indirect Uses-Boiler Fuel	--	2	3	1	154	*	37	--
Conventional Boiler Use	--	2	1	*	25	*	*	--
CHP and/or Cogeneration Process	--	0	1	1	129	*	37	--
Direct Uses-Total Process	--	45	1	*	64	*	1	--
Process Heating	--	2	1	*	56	*	0	--
Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
Machine Drive	--	42	0	*	2	*	1	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	6	0	*	--
Direct Uses-Total Nonprocess	--	6	*	1	7	*	0	--
Facility HVAC (g)	--	3	*	*	3	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	1	*	*	--	--

Conventional Electricity Generation	--	--	0	*	3	0	0	--
Other Nonprocess Use	--	0	0	*	0	*	0	--
End Use Not Reported	375	0	0	*	0	*	0	375

322122 Newsprint Mills

TOTAL FUEL CONSUMPTION	35	17	0	*	5	*	0	12
Indirect Uses-Boiler Fuel	--	1	0	*	3	*	0	--
Conventional Boiler Use	--	1	0	0	3	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--
Direct Uses-Total Process	--	15	0	0	2	0	0	--
Process Heating	--	*	0	0	2	0	0	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	15	0	0	0	0	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	0	0	0	0	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	*	*	0	--
Facility HVAC (g)	--	*	0	0	*	0	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	0	0	0	*	0	0	--
Onsite Transportation	--	0	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	0	0	0	0	0	0	--
End Use Not Reported	12	0	0	0	0	0	0	12

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	897	56	3	2	235	*	13	588
Indirect Uses-Boiler Fuel	--	2	2	1	175	*	13	--
Conventional Boiler Use	--	2	*	*	25	0	1	--
CHP and/or Cogeneration Process	--	0	2	1	150	*	13	--
Direct Uses-Total Process	--	49	1	*	51	*	0	--
Process Heating	--	1	1	*	48	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	46	0	*	2	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	5	0	1	9	*	0	--
Facility HVAC (g)	--	2	0	*	5	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	0	1	*	0	--

Onsite Transportation	--	*	--	1	*	*	--	--
Conventional Electricity Generation	--	--	0	0	2	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	588	0	*	*	0	*	0	588

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	59	34	*	*	24	1	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	3	*	0	--
Conventional Boiler Use	--	*	0	*	3	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	Q	0	0	--
Direct Uses-Total Process	--	23	*	*	12	*	0	--
Process Heating	--	1	0	*	8	*	0	--
Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
Machine Drive	--	19	0	*	2	*	0	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	1	*	0	Q	0	0	--
Direct Uses-Total Nonprocess	--	10	*	*	9	*	0	--
Facility HVAC (g)	--	6	*	*	8	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	1	*	0	*	*	*	0	*

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	3,517	178	3	14	1,077	19	*	2,226
Indirect Uses-Boiler Fuel	--	1	*	1	342	2	0	--
Conventional Boiler Use	--	1	*	*	134	2	0	--
CHP and/or Cogeneration Process	--	0	0	*	208	1	0	--
Direct Uses-Total Process	--	164	3	8	696	16	*	--
Process Heating	--	-2	3	4	656	15	*	--
Process Cooling and Refrigeration	--	7	0	*	1	*	0	--
Machine Drive	--	157	0	4	15	Q	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	1	0	*	24	*	0	--
Direct Uses-Total Nonprocess	--	12	0	5	29	1	0	--
Facility HVAC (g)	--	6	0	*	7	*	0	--
Facility Lighting	--	4	--	--	--	--	--	--

Other Facility Support	--	2	0	*	1	*	0	--
Onsite Transportation	--	*	--	4	*	*	--	--
Conventional Electricity Generation	--	--	0	*	20	*	0	--
Other Nonprocess Use	--	*	0	1	1	*	0	--
End Use Not Reported	2,237	*	0	*	10	*	0	2,226

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	3,375	165	2	5	994	16	0	2,192
Indirect Uses-Boiler Fuel	--	1	*	*	323	2	0	--
Conventional Boiler Use	--	1	*	*	129	2	0	--
CHP and/or Cogeneration Process	--	0	0	*	194	1	0	--
Direct Uses-Total Process	--	154	2	3	636	13	0	--
Process Heating	--	-3	2	2	604	13	0	--
Process Cooling and Refrigeration	--	7	0	0	*	*	0	--
Machine Drive	--	149	0	1	10	*	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	1	0	*	22	*	0	--
Direct Uses-Total Nonprocess	--	10	0	2	25	*	0	--
Facility HVAC (g)	--	5	0	*	5	*	0	--
Facility Lighting	--	4	--	--	--	--	--	--
Other Facility Support	--	2	0	0	*	*	0	--
Onsite Transportation	--	*	--	2	0	*	--	--
Conventional Electricity Generation	--	--	0	*	20	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	2,202	*	0	*	10	*	0	2,192

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	64	5	1	8	41	3	*	6
Indirect Uses-Boiler Fuel	--	*	0	*	4	*	0	--
Conventional Boiler Use	--	*	0	*	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	3	*	0	--
Direct Uses-Total Process	--	4	1	6	36	3	*	--
Process Heating	--	*	1	2	31	2	*	--
Process Cooling and Refrigeration	--	*	0	*	*	0	0	--
Machine Drive	--	3	0	3	4	Q	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	1	0	2	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--

Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	2	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	Q	*	*	0	--
End Use Not Reported	6	*	0	0	*	*	0	6

324122 Asphalt Shingle and Coating Materials

TOTAL FUEL CONSUMPTION	18	3	0	*	14	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	3	*	0	--
Conventional Boiler Use	--	*	0	*	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	2	*	0	--
Direct Uses-Total Process	--	2	0	*	10	*	0	--
Process Heating	--	*	0	*	8	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--
Machine Drive	--	2	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	*	*	0	0	0	*	0	*

324191 Petroleum Lubricating Oil and Grease Products

TOTAL FUEL CONSUMPTION	25	5	0	*	19	*	0	1
Indirect Uses-Boiler Fuel	--	*	0	*	10	*	0	--
Conventional Boiler Use	--	*	0	*	2	0	0	--
CHP and/or Cogeneration Process	--	0	0	*	9	*	0	--
Direct Uses-Total Process	--	4	0	*	8	*	0	--
Process Heating	--	*	0	*	7	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--
Machine Drive	--	3	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--

Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	1	*	0	*	0	*	0	1

324199 Other Petroleum and Coal Products

TOTAL FUEL CONSUMPTION	35	*	0	*	8	*	0	27
Indirect Uses-Boiler Fuel	--	*	0	*	1	0	0	--
Conventional Boiler Use	--	*	0	*	1	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	*	0	*	6	*	0	--
Process Heating	--	*	0	*	5	*	0	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	*	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	1	0	0	--
Direct Uses-Total Nonprocess	--	*	0	*	*	*	0	--
Facility HVAC (g)	--	*	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	*	0	--
Other Nonprocess Use	--	*	0	*	*	0	0	--
End Use Not Reported	27	*	0	0	0	*	0	27

325 CHEMICALS

TOTAL FUEL CONSUMPTION	3,813	501	3	6	2,344	7	113	840
Indirect Uses-Boiler Fuel	--	6	2	2	1,203	1	98	--
Conventional Boiler Use	--	6	2	1	389	*	7	--
CHP and/or Cogeneration Process	--	0	*	1	813	1	91	--
Direct Uses-Total Process	--	422	*	1	1,054	D	15	--
Process Heating	--	19	*	*	797	1	7	--
Process Cooling and Refrigeration	--	46	0	*	9	*	0	--
Machine Drive	--	285	0	*	89	*	0	--
Electro-Chemical Processes	--	61	--	--	--	--	--	--
Other Process Use	--	11	0	*	160	D	8	--

Direct Uses-Total Nonprocess	--	63	0	3	71	D	*	--
Facility HVAC (g)	--	33	0	*	57	D	*	--
Facility Lighting	--	19	--	--	--	--	--	--
Other Facility Support	--	7	0	*	11	*	0	--
Onsite Transportation	--	1	--	2	*	2	--	--
Conventional Electricity Generation	--	--	0	*	1	*	0	--
Other Nonprocess Use	--	2	0	*	3	*	0	--
End Use Not Reported	867	10	*	*	16	1	0	840

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	569	24	0	1	304	1	0	240
Indirect Uses-Boiler Fuel	--	*	0	*	125	*	0	--
Conventional Boiler Use	--	*	0	*	36	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	89	*	0	--
Direct Uses-Total Process	--	22	0	*	178	*	0	--
Process Heating	--	1	0	0	145	*	0	--
Process Cooling and Refrigeration	--	4	0	0	4	*	0	--
Machine Drive	--	17	0	*	D	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	D	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	1	0	0	--
End Use Not Reported	240	0	0	0	0	*	0	240

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	161	74	0	*	83	*	0	4
Indirect Uses-Boiler Fuel	--	*	0	*	64	0	0	--
Conventional Boiler Use	--	*	0	*	9	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	55	0	0	--
Direct Uses-Total Process	--	71	0	*	19	*	0	--
Process Heating	--	*	0	0	5	0	0	--
Process Cooling and Refrigeration	--	2	0	0	*	*	0	--
Machine Drive	--	72	0	*	0	0	0	--
Electro-Chemical Processes	--	-4	--	--	--	--	--	--

Other Process Use	--	1	0	0	14	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	*	*	0	--
Facility HVAC (g)	--	2	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	0	*	*	0	--
End Use Not Reported	4	*	0	*	0	*	0	4

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	425	101	0	*	218	*	33	72
Indirect Uses-Boiler Fuel	--	*	0	*	99	*	30	--
Conventional Boiler Use	--	*	0	*	17	*	4	--
CHP and/or Cogeneration Process	--	0	0	*	82	*	26	--
Direct Uses-Total Process	--	90	0	*	115	*	3	--
Process Heating	--	7	0	0	58	*	3	--
Process Cooling and Refrigeration	--	4	0	0	1	0	0	--
Machine Drive	--	20	0	*	52	*	0	--
Electro-Chemical Processes	--	55	--	--	--	--	--	--
Other Process Use	--	5	0	*	5	*	0	--
Direct Uses-Total Nonprocess	--	6	0	*	4	*	0	--
Facility HVAC (g)	--	3	0	*	3	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	Q	*	0	--
End Use Not Reported	77	5	0	0	1	*	0	72

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	453	37	0	*	359	*	44	13
Indirect Uses-Boiler Fuel	--	1	0	0	205	*	44	--
Conventional Boiler Use	--	1	0	0	115	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	90	*	44	--
Direct Uses-Total Process	--	33	0	*	143	*	0	--
Process Heating	--	1	0	0	127	*	0	--
Process Cooling and Refrigeration	--	5	0	*	1	0	0	--
Machine Drive	--	26	0	*	1	*	0	--

Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	*	0	*	14	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	11	*	0	--
Facility HVAC (g)	--	1	0	*	7	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	4	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	13	0	0	0	0	*	0	13

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

TOTAL FUEL CONSUMPTION	88	11	0	*	51	*	0	26
Indirect Uses-Boiler Fuel	--	*	0	*	23	*	0	--
Conventional Boiler Use	--	*	0	*	11	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	12	0	0	--
Direct Uses-Total Process	--	9	0	*	27	*	0	--
Process Heating	--	1	0	*	19	*	0	--
Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
Machine Drive	--	5	0	*	0	*	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	*	0	0	8	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	*	*	0	--
Facility HVAC (g)	--	1	0	*	*	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	28	*	0	0	2	*	0	26

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	742	65	2	1	401	*	30	243
Indirect Uses-Boiler Fuel	--	1	2	*	214	*	22	--
Conventional Boiler Use	--	1	2	*	72	*	1	--
CHP and/or Cogeneration Process	--	0	*	*	142	*	21	--
Direct Uses-Total Process	--	53	0	*	169	*	8	--
Process Heating	--	1	0	*	120	*	*	--
Process Cooling and Refrigeration	--	8	0	*	1	*	0	--

Machine Drive	--	41	0	*	11	*	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	1	0	*	36	*	8	--
Direct Uses-Total Nonprocess	--	8	0	1	6	*	0	--
Facility HVAC (g)	--	4	0	0	3	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	*	2	*	0	--
Onsite Transportation	--	*	--	1	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	258	3	0	0	12	*	0	243

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	668	58	0	D	418	D	D	186
Indirect Uses-Boiler Fuel	--	*	0	*	283	Q	0	--
Conventional Boiler Use	--	*	0	*	38	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	244	*	0	--
Direct Uses-Total Process	--	51	0	D	130	D	D	--
Process Heating	--	2	0	D	82	*	D	--
Process Cooling and Refrigeration	--	4	0	*	1	0	0	--
Machine Drive	--	37	0	*	4	*	0	--
Electro-Chemical Processes	--	7	--	--	--	--	--	--
Other Process Use	--	1	0	*	43	D	0	--
Direct Uses-Total Nonprocess	--	6	0	1	4	*	0	--
Facility HVAC (g)	--	3	0	*	3	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	188	Q	0	*	*	*	0	186

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	35	5	0	*	19	*	2	9
Indirect Uses-Boiler Fuel	--	*	0	*	17	*	2	--
Conventional Boiler Use	--	*	0	*	10	*	1	--
CHP and/or Cogeneration Process	--	0	0	*	6	0	*	--
Direct Uses-Total Process	--	4	0	*	2	*	0	--
Process Heating	--	*	0	0	2	*	0	--

Process Cooling and Refrigeration	--	1	0	0	*	*	0	--
Machine Drive	--	3	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	*	*	0	--
Facility HVAC (g)	--	*	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	0	0	--
End Use Not Reported	9	*	0	0	*	*	0	9

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	33	9	0	*	23	*	*	*
Indirect Uses-Boiler Fuel	--	*	0	*	14	*	*	--
Conventional Boiler Use	--	*	0	*	9	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	5	*	*	--
Direct Uses-Total Process	--	7	0	*	7	*	0	--
Process Heating	--	1	0	*	6	*	0	--
Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
Machine Drive	--	6	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	2	0	*	2	*	0	--
Facility HVAC (g)	--	1	0	0	2	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	*	*	0	0	0	*	0	*

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	233	18	0	*	213	*	0	2
Indirect Uses-Boiler Fuel	--	*	0	*	53	*	0	--
Conventional Boiler Use	--	*	0	*	26	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	27	0	0	--
Direct Uses-Total Process	--	16	0	*	159	*	0	--

Process Heating	--	*	0	0	136	*	0	--
Process Cooling and Refrigeration	--	2	0	0	0	0	0	--
Machine Drive	--	14	0	*	4	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	20	0	0	--
Direct Uses-Total Nonprocess	--	2	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	2	0	0	0	0	*	0	2

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	33	D	*	D	24	*	D	*
Indirect Uses-Boiler Fuel	--	*	0	*	2	*	0	--
Conventional Boiler Use	--	*	0	0	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	1	*	0	--
Direct Uses-Total Process	--	D	*	D	22	*	D	--
Process Heating	--	*	*	D	20	*	D	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	D	0	*	*	*	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	0	0	*	1	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	*	*	0	--
Facility HVAC (g)	--	*	0	*	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	0	0	*	0	0	0	--
End Use Not Reported	*	0	0	0	0	*	0	*

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	114	36	0	1	62	*	*	16
Indirect Uses-Boiler Fuel	--	1	0	*	37	*	*	--
Conventional Boiler Use	--	1	0	*	20	*	*	--
CHP and/or Cogeneration Process	--	0	0	*	17	*	0	--

Direct Uses-Total Process	--	18	0	*	8	*	0	--
Process Heating	--	1	0	*	6	*	0	--
Process Cooling and Refrigeration	--	6	0	*	*	0	0	--
Machine Drive	--	10	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	16	0	*	17	*	*	--
Facility HVAC (g)	--	10	0	*	15	*	*	--
Facility Lighting	--	4	--	--	--	--	--	--
Other Facility Support	--	2	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	1	0	*	*	*	0	--
End Use Not Reported	17	1	0	0	1	*	0	16

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	66	21	0	*	30	*	*	14
Indirect Uses-Boiler Fuel	--	1	0	*	14	*	*	--
Conventional Boiler Use	--	1	0	*	9	*	*	--
CHP and/or Cogeneration Process	--	0	0	*	5	*	0	--
Direct Uses-Total Process	--	11	0	*	5	*	0	--
Process Heating	--	1	0	*	4	*	0	--
Process Cooling and Refrigeration	--	3	0	*	*	0	0	--
Machine Drive	--	6	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	9	0	*	11	*	*	--
Facility HVAC (g)	--	6	0	*	10	*	*	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	15	*	0	0	*	*	0	14

325992 Photographic Film, Paper, Plate, and Chemicals

TOTAL FUEL CONSUMPTION	8	3	*	*	3	*	0	2
Indirect Uses-Boiler Fuel	--	*	*	*	2	0	0	--
Conventional Boiler Use	--	*	0	*	1	0	0	--

CHP and/or Cogeneration Process	--	0	*	*	1	0	0	--
Direct Uses-Total Process	--	2	0	*	1	*	0	--
Process Heating	--	*	0	*	*	0	0	--
Process Cooling and Refrigeration	--	1	0	*	*	0	0	--
Machine Drive	--	1	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	*	*	0	--
Facility HVAC (g)	--	1	0	*	*	0	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	2	*	0	0	*	*	0	2

326 PLASTICS AND RUBBER PRODUCTS

TOTAL FUEL CONSUMPTION	256	168	*	Q	83	3	0	*
Indirect Uses-Boiler Fuel	--	Q	*	*	31	*	0	--
Conventional Boiler Use	--	Q	*	*	11	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	20	*	0	--
Direct Uses-Total Process	--	126	0	Q	31	Q	0	--
Process Heating	--	19	0	Q	29	*	0	--
Process Cooling and Refrigeration	--	14	0	0	*	0	0	--
Machine Drive	--	86	0	*	*	*	0	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	5	0	*	Q	*	0	--
Direct Uses-Total Nonprocess	--	39	0	*	22	2	0	--
Facility HVAC (g)	--	17	0	0	21	*	0	--
Facility Lighting	--	13	--	--	--	--	--	--
Other Facility Support	--	5	0	0	1	*	0	--
Onsite Transportation	--	2	--	*	*	2	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	Q	0	*	0	*	0	--
End Use Not Reported	Q	Q	0	0	0	*	0	*

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	821	129	*	20	348	2	189	131
Indirect Uses-Boiler Fuel	--	*	0	*	12	*	*	--

Conventional Boiler Use	--	*	0	*	2	*	*	--
CHP and/or Cogeneration Process	--	0	0	*	10	*	*	--
Direct Uses-Total Process	--	113	*	10	317	Q	189	--
Process Heating	--	26	*	Q	283	Q	154	--
Process Cooling and Refrigeration	--	6	0	0	3	0	3	--
Machine Drive	--	71	*	6	25	*	14	--
Electro-Chemical Processes	--	3	--	--	--	--	--	--
Other Process Use	--	7	0	*	Q	*	Q	--
Direct Uses-Total Nonprocess	--	16	0	11	18	1	*	--
Facility HVAC (g)	--	7	0	*	16	*	0	--
Facility Lighting	--	6	--	--	--	--	--	--
Other Facility Support	--	2	0	*	2	*	*	--
Onsite Transportation	--	*	--	9	*	1	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	1	0	Q	1	*	0	--
End Use Not Reported	132	1	0	0	1	*	0	131

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	47	6	0	*	36	*	3	1
Indirect Uses-Boiler Fuel	--	*	0	0	*	*	0	--
Conventional Boiler Use	--	*	0	0	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	5	0	*	35	*	3	--
Process Heating	--	1	0	*	34	*	2	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	4	0	*	*	*	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	1	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	1	*	0	0	0	*	0	1

327211 Flat Glass

TOTAL FUEL CONSUMPTION	47	5	0	*	41	*	0	1
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Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	4	0	*	39	*	0	--
Process Heating	--	2	0	0	39	*	0	--
Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
Machine Drive	--	1	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	2	*	0	--
Facility HVAC (g)	--	*	0	0	1	0	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	0	0	--
End Use Not Reported	1	*	0	0	0	*	0	1

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	31	7	0	*	22	*	0	1
Indirect Uses-Boiler Fuel	--	*	0	*	1	*	0	--
Conventional Boiler Use	--	*	0	*	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	*	0	--
Direct Uses-Total Process	--	6	0	*	21	*	0	--
Process Heating	--	3	0	*	20	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	2	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	0	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	1	0	0	0	0	*	0	1

327213 Glass Containers

TOTAL FUEL CONSUMPTION	54	12	0	*	42	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--
Conventional Boiler Use	--	*	0	0	0	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	10	0	*	39	*	0	--
Process Heating	--	4	0	0	37	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	5	0	*	2	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	0	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	3	*	0	--
Facility HVAC (g)	--	1	0	0	2	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	0	*	0	0	--
End Use Not Reported	*	*	0	0	*	0	0	*

327215 Glass Products from Purchased Glass

TOTAL FUEL CONSUMPTION	21	13	0	*	8	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	*	*	0	--
Conventional Boiler Use	--	*	0	*	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	*	0	--
Direct Uses-Total Process	--	10	0	*	6	*	0	--
Process Heating	--	5	0	0	5	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	3	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	3	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

327310 Cements

TOTAL FUEL CONSUMPTION	296	39	0	1	58	*	106	92
Indirect Uses-Boiler Fuel	--	*	0	0	*	0	*	--
Conventional Boiler Use	--	*	0	0	*	0	*	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	*	--
Direct Uses-Total Process	--	37	0	1	57	*	105	--
Process Heating	--	4	0	*	36	*	89	--
Process Cooling and Refrigeration	--	2	0	0	3	0	3	--
Machine Drive	--	30	0	*	17	*	14	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	1	0	*	0	0	0	--
Direct Uses-Total Nonprocess	--	2	0	1	*	*	*	--
Facility HVAC (g)	--	1	0	*	*	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	*	--
Onsite Transportation	--	*	--	1	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	92	*	0	0	*	0	0	92

327410 Lime

TOTAL FUEL CONSUMPTION	106	5	0	1	18	*	63	19
Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--
Direct Uses-Total Process	--	4	0	*	18	*	63	--
Process Heating	--	1	0	*	18	*	63	--
Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
Machine Drive	--	3	0	*	1	*	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	*	0	*	0	0	0	--
Direct Uses-Total Nonprocess	--	*	0	1	*	*	0	--
Facility HVAC (g)	--	*	0	0	*	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	1	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	0	0	*	0	--
End Use Not Reported	19	0	0	0	0	0	0	19

327420 Gypsum

TOTAL FUEL CONSUMPTION	59	5	0	1	52	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	0	1	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	1	0	0	--
Direct Uses-Total Process	--	4	0	*	50	0	0	--
Process Heating	--	*	0	*	49	0	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	4	0	*	1	0	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	*	0	0	0	0	0	--
Direct Uses-Total Nonprocess	--	1	0	1	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	1	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	33	11	0	*	22	*	*	*
Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	9	0	*	20	*	*	--
Process Heating	--	4	0	*	19	*	*	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	5	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	0	0	--
Direct Uses-Total Nonprocess	--	1	0	*	2	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	*	*	0	0	0	0	0	*

PRIMARY METALS

TOTAL FUEL CONSUMPTION	1,588	385	*	6	639	3	26	527
Indirect Uses-Boiler Fuel	--	2	*	*	68	*	0	--
Conventional Boiler Use	--	2	*	*	21	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	47	*	0	--
Direct Uses-Total Process	--	349	*	1	524	1	26	--
Process Heating	--	128	0	*	480	1	7	--
Process Cooling and Refrigeration	--	11	0	*	3	*	0	--
Machine Drive	--	113	*	1	5	*	0	--
Electro-Chemical Processes	--	80	--	--	--	--	--	--
Other Process Use	--	18	0	*	36	*	20	--
Direct Uses-Total Nonprocess	--	33	0	5	46	2	0	--
Facility HVAC (g)	--	14	0	*	40	*	0	--
Facility Lighting	--	14	--	--	--	--	--	--
Other Facility Support	--	4	0	*	3	*	0	--
Onsite Transportation	--	1	--	5	*	1	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	1	0	*	2	*	0	--
End Use Not Reported	531	1	0	0	2	*	0	527

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	1,141	190	*	4	411	*	26	509
Indirect Uses-Boiler Fuel	--	*	*	*	41	*	0	--
Conventional Boiler Use	--	*	*	0	16	0	0	--
CHP and/or Cogeneration Process	--	0	*	*	25	*	0	--
Direct Uses-Total Process	--	177	0	*	349	*	26	--
Process Heating	--	90	0	*	314	*	7	--
Process Cooling and Refrigeration	--	5	0	0	3	*	0	--
Machine Drive	--	61	0	*	1	*	0	--
Electro-Chemical Processes	--	10	--	--	--	--	--	--
Other Process Use	--	11	0	*	31	*	20	--
Direct Uses-Total Nonprocess	--	12	0	4	19	*	0	--
Facility HVAC (g)	--	5	0	*	15	*	0	--
Facility Lighting	--	6	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	4	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	2	*	0	--
End Use Not Reported	510	*	0	0	1	*	0	509

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	51	24	0	*	25	*	*	2
Indirect Uses-Boiler Fuel	--	*	0	*	3	*	0	--
Conventional Boiler Use	--	*	0	0	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	2	*	0	--
Direct Uses-Total Process	--	20	0	*	19	*	*	--
Process Heating	--	5	0	*	18	*	*	--
Process Cooling and Refrigeration	--	2	0	0	*	*	0	--
Machine Drive	--	10	0	*	1	*	0	--
Electro-Chemical Processes	--	2	--	--	--	--	--	--
Other Process Use	--	*	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	3	0	*	3	*	0	--
Facility HVAC (g)	--	1	0	*	3	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	0	0	*	0	--
End Use Not Reported	2	*	0	0	0	*	0	2

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	207	90	0	1	116	1	0	*
Indirect Uses-Boiler Fuel	--	1	0	*	14	*	0	--
Conventional Boiler Use	--	1	0	0	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	14	*	0	--
Direct Uses-Total Process	--	81	0	*	93	*	0	--
Process Heating	--	4	0	*	90	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	*	0	--
Machine Drive	--	20	0	*	1	*	0	--
Electro-Chemical Processes	--	56	--	--	--	--	--	--
Other Process Use	--	1	0	*	2	*	0	--
Direct Uses-Total Nonprocess	--	8	0	1	9	*	0	--
Facility HVAC (g)	--	2	0	*	8	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	2	0	*	1	*	0	--
Onsite Transportation	--	*	--	1	*	*	--	--
Conventional Electricity Generation	--	--	0	0	*	*	0	--
Other Nonprocess Use	--	1	0	*	0	*	0	--

End Use Not Reported	1	*	0	0	1	*	0	*
331314 Secondary Smelting and Alloying of Aluminum								
TOTAL FUEL CONSUMPTION	21	3	0	*	18	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	2	0	*	17	*	0	--
Process Heating	--	*	0	0	17	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	2	0	*	*	*	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	*	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	*	0	0	0	0	*	0	*
331315 Aluminum Sheet, Plate and Foils								
TOTAL FUEL CONSUMPTION	73	18	0	*	54	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	1	0	0	--
Conventional Boiler Use	--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--
Direct Uses-Total Process	--	16	0	*	51	*	0	--
Process Heating	--	2	0	0	50	*	0	--
Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
Machine Drive	--	13	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	2	*	0	--
Direct Uses-Total Nonprocess	--	2	0	*	2	*	0	--
Facility HVAC (g)	--	1	0	0	2	0	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	0	0	0	0	--

Other Nonprocess Use	--	0	0	*	0	*	0	--
End Use Not Reported	*	0	0	0	0	0	0	*

331318 Other Aluminum Rolling, Drawing and Extruding

TOTAL FUEL CONSUMPTION	24	7	0	*	17	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	0	1	*	0	--
Conventional Boiler Use	--	*	0	0	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	1	*	0	--
Direct Uses-Total Process	--	5	0	*	15	*	0	--
Process Heating	--	1	0	*	14	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--
Machine Drive	--	3	0	0	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	0	*	0	0	--
Other Nonprocess Use	--	*	0	0	0	*	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	95	45	0	*	42	1	0	7
Indirect Uses-Boiler Fuel	--	*	0	*	8	*	0	--
Conventional Boiler Use	--	*	0	0	3	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	6	*	0	--
Direct Uses-Total Process	--	41	0	*	29	*	0	--
Process Heating	--	13	0	*	28	*	0	--
Process Cooling and Refrigeration	--	2	0	0	*	*	0	--
Machine Drive	--	10	0	*	*	*	0	--
Electro-Chemical Processes	--	12	--	--	--	--	--	--
Other Process Use	--	4	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	4	0	*	4	*	0	--
Facility HVAC (g)	--	2	0	*	4	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--

Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	7	*	0	0	*	*	0	7

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

TOTAL FUEL CONSUMPTION	44	27	0	*	16	*	0	1
Indirect Uses-Boiler Fuel	--	*	0	*	6	*	0	--
Conventional Boiler Use	--	*	0	0	2	0	0	--
CHP and/or Cogeneration Process	--	0	0	*	4	*	0	--
Direct Uses-Total Process	--	26	0	*	9	*	0	--
Process Heating	--	8	0	*	9	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	3	0	*	*	*	0	--
Electro-Chemical Processes	--	11	--	--	--	--	--	--
Other Process Use	--	2	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--
Facility HVAC (g)	--	1	0	*	1	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	0	0	*	0	*	0	--
End Use Not Reported	1	*	0	0	0	*	0	1

3315 Foundries

TOTAL FUEL CONSUMPTION	92	37	*	*	44	1	*	10
Indirect Uses-Boiler Fuel	--	*	0	*	1	*	0	--
Conventional Boiler Use	--	*	0	*	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	1	*	0	--
Direct Uses-Total Process	--	31	*	*	33	*	*	--
Process Heating	--	16	0	*	29	*	*	--
Process Cooling and Refrigeration	--	1	0	*	*	*	0	--
Machine Drive	--	12	*	*	2	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	2	0	*	2	*	*	--
Direct Uses-Total Nonprocess	--	5	0	*	10	*	0	--
Facility HVAC (g)	--	3	0	*	9	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--

Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	11	1	0	0	*	*	0	10

331511 Iron Foundries

TOTAL FUEL CONSUMPTION	40	18	0	*	12	*	*	10
Indirect Uses-Boiler Fuel	--	*	0	*	*	*	0	--
Conventional Boiler Use	--	*	0	*	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--
Direct Uses-Total Process	--	15	0	*	7	*	*	--
Process Heating	--	8	0	*	6	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--
Machine Drive	--	5	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	0	*	*	*	--
Direct Uses-Total Nonprocess	--	2	0	*	5	*	0	--
Facility HVAC (g)	--	1	0	*	5	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
End Use Not Reported	10	*	0	0	*	*	0	10

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	22	7	*	*	15	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	*	*	*	0	--
Conventional Boiler Use	--	*	0	*	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	*	*	0	--
Direct Uses-Total Process	--	6	*	*	12	*	0	--
Process Heating	--	2	0	*	10	*	0	--
Process Cooling and Refrigeration	--	*	0	*	*	*	0	--
Machine Drive	--	3	*	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	1	0	*	2	*	0	--
Facility HVAC (g)	--	1	0	*	2	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--

Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	1	*	0	0	*	*	0	*

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	9	3	0	*	6	*	0	*
Indirect Uses-Boiler Fuel	--	*	0	0	*	*	0	--
Conventional Boiler Use	--	*	0	0	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	*	0	--
Direct Uses-Total Process	--	2	0	*	5	*	0	--
Process Heating	--	1	0	*	4	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--
Machine Drive	--	1	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	*	0	*	1	*	0	--
Facility HVAC (g)	--	*	0	*	1	*	0	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	0	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	*	*	0	0	*	*	0	*

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	254	124	0	Q	124	3	*	2
Indirect Uses-Boiler Fuel	--	1	0	*	13	*	0	--
Conventional Boiler Use	--	1	0	0	Q	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	11	*	0	--
Direct Uses-Total Process	--	84	0	*	74	*	0	--
Process Heating	--	20	0	0	70	*	0	--
Process Cooling and Refrigeration	--	5	0	0	*	0	0	--
Machine Drive	--	51	0	*	Q	*	0	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	2	0	*	Q	*	0	--
Direct Uses-Total Nonprocess	--	34	0	Q	33	3	*	--
Facility HVAC (g)	--	17	0	*	31	1	*	--

Facility Lighting	--	13	--	--	--	--	--	--	--
Other Facility Support	--	3	0	*	2	*	0	--	--
Onsite Transportation	--	1	--	Q	*	2	--	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--	--
Other Nonprocess Use	--	*	0	*	0	*	0	--	--
End Use Not Reported	11	Q	0	0	Q	*	0	2	

333 MACHINERY

TOTAL FUEL CONSUMPTION	146	80	*	2	59	3	*	1	
Indirect Uses-Boiler Fuel	--	1	*	*	7	*	0	--	--
Conventional Boiler Use	--	1	0	0	Q	0	0	--	--
CHP and/or Cogeneration Process	--	0	*	*	5	*	0	--	--
Direct Uses-Total Process	--	49	0	1	25	Q	0	--	--
Process Heating	--	4	0	*	19	Q	0	--	--
Process Cooling and Refrigeration	--	3	0	0	*	0	0	--	--
Machine Drive	--	41	0	*	3	*	0	--	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--	--
Other Process Use	--	1	0	1	2	*	0	--	--
Direct Uses-Total Nonprocess	--	27	*	1	27	2	*	--	--
Facility HVAC (g)	--	13	*	*	25	1	*	--	--
Facility Lighting	--	9	--	--	--	--	--	--	--
Other Facility Support	--	3	0	0	1	*	0	--	--
Onsite Transportation	--	1	--	Q	*	1	--	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--	--
Other Nonprocess Use	--	*	0	*	*	*	0	--	--
End Use Not Reported	6	Q	0	0	*	Q	0	1	

334 COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	107	76	*	*	30	*	0	*	
Indirect Uses-Boiler Fuel	--	1	*	*	11	*	0	--	--
Conventional Boiler Use	--	1	0	*	8	*	0	--	--
CHP and/or Cogeneration Process	--	0	*	*	3	0	0	--	--
Direct Uses-Total Process	--	42	0	*	3	*	0	--	--
Process Heating	--	7	0	*	1	*	0	--	--
Process Cooling and Refrigeration	--	12	0	0	*	0	0	--	--
Machine Drive	--	14	0	*	Q	*	0	--	--
Electro-Chemical Processes	--	2	--	--	--	--	--	--	--
Other Process Use	--	7	0	*	1	0	0	--	--
Direct Uses-Total Nonprocess	--	29	*	*	17	*	0	--	--

Facility HVAC (g)	--	19	*	*	15	*	0	--
Facility Lighting	--	6	--	--	--	--	--	--
Other Facility Support	--	3	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	1	0	*	1	*	0	--
End Use Not Reported	4	3	0	0	*	*	0	*

334413 Semiconductors and Related Devices

TOTAL FUEL CONSUMPTION	53	40	*	*	14	*	0	*
Indirect Uses-Boiler Fuel	--	*	*	*	7	*	0	--
Conventional Boiler Use	--	*	0	*	5	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	2	0	0	--
Direct Uses-Total Process	--	25	0	*	2	*	0	--
Process Heating	--	5	0	0	1	*	0	--
Process Cooling and Refrigeration	--	6	0	0	0	0	0	--
Machine Drive	--	8	0	*	0	0	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	6	0	*	1	0	0	--
Direct Uses-Total Nonprocess	--	13	0	*	5	*	0	--
Facility HVAC (g)	--	9	0	*	4	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	1	0	*	1	*	0	--
End Use Not Reported	1	1	0	0	*	*	0	*

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	77	38	*	*	37	1	0	Q
Indirect Uses-Boiler Fuel	--	Q	0	*	6	*	0	--
Conventional Boiler Use	--	Q	0	*	2	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	Q	*	0	--
Direct Uses-Total Process	--	24	0	*	19	*	0	--
Process Heating	--	8	0	0	18	*	0	--
Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
Machine Drive	--	13	0	*	*	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	2	0	*	Q	*	0	--

Direct Uses-Total Nonprocess	--	12	*	*	10	1	0	--
Facility HVAC (g)	--	7	0	0	9	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	0	1	0	0	--
Onsite Transportation	--	*	--	*	*	1	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	*	*	*	*	0	--
End Use Not Reported	3	Q	0	0	*	*	0	Q

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	345	172	2	4	157	3	0	7
Indirect Uses-Boiler Fuel	--	1	2	*	25	*	0	--
Conventional Boiler Use	--	1	2	*	14	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	12	*	0	--
Direct Uses-Total Process	--	111	*	2	69	*	0	--
Process Heating	--	16	0	0	63	*	0	--
Process Cooling and Refrigeration	--	11	0	0	2	*	0	--
Machine Drive	--	75	0	2	1	*	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	7	*	*	3	*	0	--
Direct Uses-Total Nonprocess	--	59	*	2	62	2	0	--
Facility HVAC (g)	--	31	0	*	58	*	0	--
Facility Lighting	--	20	--	--	--	--	--	--
Other Facility Support	--	5	0	*	2	*	0	--
Onsite Transportation	--	2	--	1	*	2	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	1	*	*	1	*	0	--
End Use Not Reported	10	Q	0	0	1	*	0	7

336111 Automobiles

TOTAL FUEL CONSUMPTION	34	14	0	*	18	*	0	2
Indirect Uses-Boiler Fuel	--	*	0	0	1	0	0	--
Conventional Boiler Use	--	*	0	0	1	0	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	9	0	*	13	*	0	--
Process Heating	--	1	0	0	11	*	0	--
Process Cooling and Refrigeration	--	1	0	0	1	*	0	--
Machine Drive	--	7	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--

Other Process Use	--	*	0	*	1	*	0	--
Direct Uses-Total Nonprocess	--	5	0	*	5	*	0	--
Facility HVAC (g)	--	3	0	0	4	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	2	*	0	0	*	*	0	2

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	41	14	0	*	25	*	0	1
Indirect Uses-Boiler Fuel	--	1	0	0	5	*	0	--
Conventional Boiler Use	--	1	0	0	2	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	3	0	0	--
Direct Uses-Total Process	--	10	0	*	14	*	0	--
Process Heating	--	1	0	0	13	*	0	--
Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
Machine Drive	--	7	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	0	1	*	0	--
Direct Uses-Total Nonprocess	--	4	0	*	7	*	0	--
Facility HVAC (g)	--	2	0	0	6	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	1	0	0	0	*	*	0	1

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	64	33	*	*	27	*	0	4
Indirect Uses-Boiler Fuel	--	*	*	*	12	*	0	--
Conventional Boiler Use	--	*	0	*	8	*	0	--
CHP and/or Cogeneration Process	--	0	*	*	5	*	0	--
Direct Uses-Total Process	--	16	0	*	5	*	0	--
Process Heating	--	4	0	0	4	*	0	--
Process Cooling and Refrigeration	--	3	0	0	*	*	0	--
Machine Drive	--	8	0	*	1	*	0	--

Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	1	0	*	*	*	0	--
Direct Uses-Total Nonprocess	--	17	0	*	9	*	0	--
Facility HVAC (g)	--	10	0	*	7	*	0	--
Facility Lighting	--	5	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	1	*	0	--
End Use Not Reported	5	*	0	0	Q	*	0	4

336411 Aircraft

TOTAL FUEL CONSUMPTION	17	9	0	*	6	*	0	2
Indirect Uses-Boiler Fuel	--	*	0	*	3	*	0	--
Conventional Boiler Use	--	*	0	*	2	*	0	--
CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--
Direct Uses-Total Process	--	3	0	*	1	0	0	--
Process Heating	--	1	0	0	1	0	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	2	0	*	*	0	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	0	0	--
Direct Uses-Total Nonprocess	--	6	0	*	2	*	0	--
Facility HVAC (g)	--	4	0	0	2	*	0	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	0	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	0	0	--
End Use Not Reported	2	*	0	0	0	*	0	2

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	37	16	0	*	15	1	*	5
Indirect Uses-Boiler Fuel	--	*	0	*	1	*	0	--
Conventional Boiler Use	--	*	0	0	*	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	Q	*	0	--
Direct Uses-Total Process	--	10	0	*	7	*	*	--
Process Heating	--	1	0	0	6	*	*	--
Process Cooling and Refrigeration	--	*	0	0	*	*	0	--

Machine Drive	--	8	0	*	Q	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	0	*	*	0	--
Direct Uses-Total Nonprocess	--	6	0	*	8	1	*	--
Facility HVAC (g)	--	3	0	*	7	*	*	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	0	Q	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
End Use Not Reported	6	Q	0	0	*	*	0	5
339 MISCELLANEOUS								
TOTAL FUEL CONSUMPTION	61	33	0	*	25	1	*	1
Indirect Uses-Boiler Fuel	--	*	0	*	3	Q	0	--
Conventional Boiler Use	--	*	0	0	1	Q	0	--
CHP and/or Cogeneration Process	--	0	0	*	2	*	0	--
Direct Uses-Total Process	--	17	0	*	13	*	*	--
Process Heating	--	2	0	*	10	*	*	--
Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
Machine Drive	--	11	0	*	1	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	Q	0	0	Q	0	0	--
Direct Uses-Total Nonprocess	--	16	0	*	10	1	0	--
Facility HVAC (g)	--	8	0	*	8	*	0	--
Facility Lighting	--	4	--	--	--	--	--	--
Other Facility Support	--	1	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	0	0	--
Other Nonprocess Use	--	Q	0	*	Q	*	0	--
End Use Not Reported	1	*	0	0	*	*	0	1

- (a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).
- (b) *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).
- (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) Hydrocarbon Gas Liquids (*HGL*) include 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) *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.
- (g) Facility Heating, Ventilation, and Air Conditioning (*Facility HVAC*) excludes steam and hot water.
- * Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: Totals may not equal sum of 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.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

Released: February 2021
 Next MECS will be fielded in 2022.

RSE Table 5.2 Relative Standard Errors for Table 5.2;

Unit: Percents.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal (excluding Coke and Breeze)	Other(f)
Total United States									
311 - 339	ALL MANUFACTURING INDUSTRIES								
	TOTAL FUEL CONSUMPTION	0.7	1.8	2.5	7.9	0.9	3.9	3.3	0.8
	Indirect Uses-Boiler Fuel	--	4.4	0.7	7.0	1.0	9.2	0.2	--
	Conventional Boiler Use	--	4.4	1.3	17.8	1.7	12.1	1.8	--
	CHP and/or Cogeneration Process	--	X	0.2	4.2	1.2	14.0	0.1	--
	Direct Uses-Total Process	--	1.5	6.3	16.3	1.3	D	5.9	--
	Process Heating	--	2.6	6.3	29.1	1.4	6.7	0.2	--
	Process Cooling and Refrigeration	--	4.7	0.0	8.5	4.8	20.0	4.9	--
	Machine Drive	--	1.8	72.5	14.9	3.4	40.8	0.0	--
	Electro-Chemical Processes	--	2.6	--	--	--	--	--	--
	Other Process Use	--	5.1	90.0	46.3	3.3	D	31.0	--
	Direct Uses-Total Nonprocess	--	4.0	30.1	6.5	3.3	D	17.7	--
	Facility HVAC (g)	--	4.0	7.4	29.2	3.9	D	27.6	--
	Facility Lighting	--	5.6	--	--	--	--	--	--
	Other Facility Support	--	2.9	X	49.1	6.2	19.2	0.0	--
	Onsite Transportation	--	5.0	--	6.3	13.4	4.6	--	--
	Conventional Electricity Generation	--	--	0.0	23.8	1.3	46.3	0.0	--
	Other Nonprocess Use	--	19.7	61.2	24.7	12.1	15.0	X	--
	End Use Not Reported	0.8	13.1	0.0	12.7	8.5	21.8	X	0.8
311	FOOD								
	TOTAL FUEL CONSUMPTION	5.0	11.4	2.2	29.3	4.5	18.4	0.0	7.1
	Indirect Uses-Boiler Fuel	--	8.6	3.1	24.3	4.0	16.2	0.0	--
	Conventional Boiler Use	--	8.6	5.7	40.0	6.2	20.1	0.0	--
	CHP and/or Cogeneration Process	--	X	0.0	11.1	5.3	25.1	0.0	--
	Direct Uses-Total Process	--	8.5	1.9	57.3	7.7	45.8	0.0	--

Process Heating	--	11.5	2.2	84.4	8.6	54.6	0.0	--
Process Cooling and Refrigeration	--	10.5	0.0	9.0	6.8	11.7	X	--
Machine Drive	--	9.6	0.0	19.0	28.4	53.2	X	--
Electro-Chemical Processes	--	29.8	--	--	--	--	--	--
Other Process Use	--	14.1	X	64.3	25.0	58.0	X	--
Direct Uses-Total Nonprocess	--	23.9	0.3	17.5	11.4	13.9	0.0	--
Facility HVAC (g)	--	25.5	0.3	69.7	15.6	29.0	X	--
Facility Lighting	--	30.4	--	--	--	--	--	--
Other Facility Support	--	6.3	X	77.6	12.0	47.4	X	--
Onsite Transportation	--	6.9	--	9.3	11.3	9.7	--	--
Conventional Electricity Generation	--	--	X	31.1	8.6	87.8	0.0	--
Other Nonprocess Use	--	14.5	X	28.9	3.7	69.2	X	--
End Use Not Reported	6.8	31.3	X	X	19.4	30.0	X	7.1

3112 Grain and Oilseed Milling

TOTAL FUEL CONSUMPTION	2.4	1.9	15.8	15.6	3.6	15.0	0.0	3.2
Indirect Uses-Boiler Fuel	--	2.7	X	74.0	2.7	52.9	0.0	--
Conventional Boiler Use	--	2.7	X	0.0	6.3	X	0.0	--
CHP and/or Cogeneration Process	--	X	X	82.2	2.5	52.9	0.0	--
Direct Uses-Total Process	--	1.9	15.8	0.1	6.2	22.7	X	--
Process Heating	--	26.5	15.8	0.0	7.2	26.2	X	--
Process Cooling and Refrigeration	--	1.3	X	X	0.3	0.0	X	--
Machine Drive	--	2.0	X	0.1	8.2	25.0	X	--
Electro-Chemical Processes	--	1.2	--	--	--	--	--	--
Other Process Use	--	1.5	X	0.0	5.0	0.0	X	--
Direct Uses-Total Nonprocess	--	4.3	48.4	5.7	17.2	9.4	X	--
Facility HVAC (g)	--	4.9	48.4	53.7	20.0	22.8	X	--
Facility Lighting	--	4.4	--	--	--	--	--	--
Other Facility Support	--	5.0	X	0.0	12.6	30.6	X	--
Onsite Transportation	--	15.9	--	2.5	2.6	5.9	--	--
Conventional Electricity Generation	--	--	X	0.1	0.0	0.0	X	--
Other Nonprocess Use	--	27.4	X	0.2	53.7	0.0	X	--
End Use Not Reported	3.7	53.0	X	X	83.9	0.0	X	3.2

311221 Wet Corn Milling

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	0.0	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	0.0	--

CHP and/or Cogeneration Process	--	X	X	X	0.0		X	0.0	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0		0.0	X	--
Process Heating	--	0.0	X	X	0.0		0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0		X	X	--
Machine Drive	--	0.0	X	0.0	X		0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--		--	--	--
Other Process Use	--	X	X	0.0	0.0		X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0		0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0		0.0	X	--
Facility Lighting	--	0.0	--	--	--		--	--	--
Other Facility Support	--	0.0	X	0.0	0.0		0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0		0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0		X	X	--
Other Nonprocess Use	--	X	X	0.0	X		0.0	X	--
End Use Not Reported	0.0	X	X	X	X		X	X	0.0

31131 Sugar

TOTAL FUEL CONSUMPTION	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.0		X	0.0	--
Conventional Boiler Use	--	0.0	0.0	0.0	0.0		X	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0		X	0.0	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0		0.0	0.0	--
Process Heating	--	0.0	X	X	0.0		X	0.0	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0		X	X	--
Machine Drive	--	0.0	X	0.0	0.0		X	X	--
Electro-Chemical Processes	--	0.0	--	--	--		--	--	--
Other Process Use	--	0.0	X	0.0	0.0		0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0		0.0	0.0	--
Facility HVAC (g)	--	0.0	X	X	0.0		0.0	X	--
Facility Lighting	--	0.0	--	--	--		--	--	--
Other Facility Support	--	0.0	X	0.0	0.0		0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0		0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X		X	0.0	--
Other Nonprocess Use	--	0.0	X	0.0	X		X	X	--
End Use Not Reported	0.0	X	X	X	X		X	X	0.0

3114 Fruit and Vegetable Preserving and Specialty Foods

TOTAL FUEL CONSUMPTION	3.2	6.1	0.0	6.9	3.2		5.8	X	2.5
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Indirect Uses-Boiler Fuel	--	5.6	X	3.9	4.1	7.5	X	--
Conventional Boiler Use	--	5.6	X	X	3.5	0.1	X	--
CHP and/or Cogeneration Process	--	X	X	3.9	5.7	13.5	X	--
Direct Uses-Total Process	--	7.1	0.0	15.8	6.3	22.4	X	--
Process Heating	--	13.9	0.0	60.4	6.8	30.9	X	--
Process Cooling and Refrigeration	--	10.0	X	12.1	7.5	19.2	X	--
Machine Drive	--	6.3	X	18.1	4.3	15.2	X	--
Electro-Chemical Processes	--	14.2	--	--	--	--	--	--
Other Process Use	--	3.4	X	74.6	0.0	70.7	X	--
Direct Uses-Total Nonprocess	--	4.6	0.0	8.1	4.1	8.6	X	--
Facility HVAC (g)	--	5.1	0.0	64.0	5.2	11.1	X	--
Facility Lighting	--	6.6	--	--	--	--	--	--
Other Facility Support	--	3.4	X	0.0	5.4	17.0	X	--
Onsite Transportation	--	6.2	--	3.1	55.2	9.6	--	--
Conventional Electricity Generation	--	--	X	64.2	3.9	41.6	X	--
Other Nonprocess Use	--	18.5	X	41.1	0.8	0.0	X	--
End Use Not Reported	7.3	35.5	X	X	17.7	64.3	X	2.5

3115 Dairy Products

TOTAL FUEL CONSUMPTION	2.2	3.3	28.5	32.4	2.3	12.9	X	19.9
Indirect Uses-Boiler Fuel	--	4.7	67.2	0.4	2.6	22.5	X	--
Conventional Boiler Use	--	4.7	67.2	0.1	4.9	5.1	X	--
CHP and/or Cogeneration Process	--	X	X	1.2	3.2	53.5	X	--
Direct Uses-Total Process	--	3.8	0.0	41.1	4.2	6.1	X	--
Process Heating	--	40.5	X	82.9	4.0	7.2	X	--
Process Cooling and Refrigeration	--	3.1	0.0	34.7	6.9	11.4	X	--
Machine Drive	--	2.5	0.0	74.4	19.1	0.0	X	--
Electro-Chemical Processes	--	32.6	--	--	--	--	--	--
Other Process Use	--	7.0	X	5.1	27.4	X	X	--
Direct Uses-Total Nonprocess	--	3.7	0.0	42.1	4.9	16.3	X	--
Facility HVAC (g)	--	3.7	0.0	54.4	5.0	20.6	X	--
Facility Lighting	--	6.7	--	--	--	--	--	--
Other Facility Support	--	3.7	X	2.8	8.3	68.9	X	--
Onsite Transportation	--	4.7	--	27.4	22.3	17.7	--	--
Conventional Electricity Generation	--	--	X	20.7	75.7	X	X	--
Other Nonprocess Use	--	12.9	X	63.6	0.9	0.3	X	--
End Use Not Reported	14.8	24.4	X	X	24.3	64.6	X	19.9

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	14.8	31.0	0.0	13.8	6.2	22.0	X	32.9
Indirect Uses-Boiler Fuel	--	6.5	0.0	12.8	9.6	28.8	X	--
Conventional Boiler Use	--	6.5	0.0	16.9	16.9	36.5	X	--
CHP and/or Cogeneration Process	--	X	X	19.5	11.2	39.1	X	--
Direct Uses-Total Process	--	22.7	X	50.3	4.8	30.4	X	--
Process Heating	--	9.0	X	97.1	5.0	36.1	X	--
Process Cooling and Refrigeration	--	21.1	X	0.4	6.8	96.4	X	--
Machine Drive	--	27.2	X	37.1	6.9	34.8	X	--
Electro-Chemical Processes	--	26.7	--	--	--	--	--	--
Other Process Use	--	11.9	X	62.3	19.4	71.0	X	--
Direct Uses-Total Nonprocess	--	52.6	X	7.0	2.9	39.8	X	--
Facility HVAC (g)	--	55.6	X	6.7	4.6	50.4	X	--
Facility Lighting	--	58.0	--	--	--	--	--	--
Other Facility Support	--	4.9	X	39.4	3.0	43.2	X	--
Onsite Transportation	--	6.8	--	6.8	26.1	7.3	--	--
Conventional Electricity Generation	--	--	X	58.5	42.1	96.4	X	--
Other Nonprocess Use	--	14.7	X	15.7	0.0	0.0	X	--
End Use Not Reported	29.7	30.8	X	X	16.3	50.0	X	32.9

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	12.0	15.5	0.0	29.3	8.5	11.3	0.0	84.3
Indirect Uses-Boiler Fuel	--	13.0	0.0	0.1	11.6	20.5	0.0	--
Conventional Boiler Use	--	13.0	0.0	0.0	22.7	27.4	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	0.1	3.8	29.6	0.0	--
Direct Uses-Total Process	--	17.6	X	3.9	5.7	32.5	0.0	--
Process Heating	--	13.3	X	0.6	6.3	50.4	0.0	--
Process Cooling and Refrigeration	--	12.4	X	8.6	24.4	78.9	X	--
Machine Drive	--	21.9	X	30.6	8.0	22.6	X	--
Electro-Chemical Processes	--	12.6	--	--	--	--	--	--
Other Process Use	--	6.9	X	0.1	20.4	27.7	X	--
Direct Uses-Total Nonprocess	--	10.9	0.0	37.9	9.9	10.5	0.0	--
Facility HVAC (g)	--	14.7	X	71.2	10.7	18.9	0.0	--
Facility Lighting	--	11.1	--	--	--	--	--	--
Other Facility Support	--	7.9	X	X	18.0	24.9	X	--
Onsite Transportation	--	8.2	--	15.0	6.2	10.2	--	--
Conventional Electricity Generation	--	--	X	96.6	19.2	77.0	X	--
Other Nonprocess Use	--	26.2	0.0	82.9	18.0	92.2	X	--
End Use Not Reported	81.5	22.7	X	X	65.7	47.4	X	84.3

3121 Beverages

TOTAL FUEL CONSUMPTION	12.8	16.3	0.0	31.3	9.2	12.9	0.0	84.3
Indirect Uses-Boiler Fuel	--	13.5	0.0	0.1	12.9	27.8	0.0	--
Conventional Boiler Use	--	13.5	X	0.0	25.7	68.3	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	0.1	4.1	29.8	0.0	--
Direct Uses-Total Process	--	18.3	X	3.9	5.9	38.8	0.0	--
Process Heating	--	13.5	X	0.6	6.5	62.1	0.0	--
Process Cooling and Refrigeration	--	12.5	X	8.6	24.4	78.9	X	--
Machine Drive	--	23.2	X	30.6	9.7	30.0	X	--
Electro-Chemical Processes	--	12.7	--	--	--	--	--	--
Other Process Use	--	7.0	X	0.1	20.6	27.7	X	--
Direct Uses-Total Nonprocess	--	12.1	0.0	38.5	10.5	11.0	0.0	--
Facility HVAC (g)	--	16.6	X	71.6	11.1	19.8	0.0	--
Facility Lighting	--	12.2	--	--	--	--	--	--
Other Facility Support	--	8.9	X	X	18.6	25.2	X	--
Onsite Transportation	--	8.4	--	15.2	13.6	10.7	--	--
Conventional Electricity Generation	--	--	X	96.6	19.2	77.0	X	--
Other Nonprocess Use	--	26.7	0.0	86.3	23.9	92.4	X	--
End Use Not Reported	81.5	22.8	X	X	65.7	47.4	X	84.3

3122 Tobacco

TOTAL FUEL CONSUMPTION	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	0.0	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	0.0	X	--

End Use Not Reported	0.0	0.0	X	X	X	X	X	X	0.0
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313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	6.4	6.1	78.4	21.0	12.7	25.7	16.2	3.9
Indirect Uses-Boiler Fuel	--	35.2	78.4	54.0	19.1	46.5	16.2	--
Conventional Boiler Use	--	35.2	82.3	43.5	29.1	1.9	45.3	--
CHP and/or Cogeneration Process	--	X	88.0	63.3	22.5	76.0	0.0	--
Direct Uses-Total Process	--	6.3	X	13.9	12.6	7.1	X	--
Process Heating	--	12.1	X	0.0	13.3	4.7	X	--
Process Cooling and Refrigeration	--	17.6	X	X	80.3	X	X	--
Machine Drive	--	7.5	X	79.1	31.1	59.8	X	--
Electro-Chemical Processes	--	52.5	--	--	--	--	--	--
Other Process Use	--	40.1	X	X	51.7	36.9	X	--
Direct Uses-Total Nonprocess	--	8.4	X	13.1	12.8	16.5	X	--
Facility HVAC (g)	--	9.8	X	83.3	14.9	38.0	X	--
Facility Lighting	--	9.8	--	--	--	--	--	--
Other Facility Support	--	9.7	X	0.0	23.6	83.5	X	--
Onsite Transportation	--	14.6	--	72.2	42.1	13.1	--	--
Conventional Electricity Generation	--	--	X	X	68.1	X	X	--
Other Nonprocess Use	--	23.5	X	0.4	X	81.2	X	--
End Use Not Reported	13.3	73.1	X	X	X	68.9	X	3.9

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	9.7	7.9	X	28.1	13.5	29.1	0.0	76.5
Indirect Uses-Boiler Fuel	--	15.7	X	33.6	18.2	0.0	X	--
Conventional Boiler Use	--	15.7	X	33.8	20.1	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	6.2	X	X	--
Direct Uses-Total Process	--	8.5	X	2.0	16.8	58.4	0.0	--
Process Heating	--	23.5	X	0.0	15.0	44.6	0.0	--
Process Cooling and Refrigeration	--	18.9	X	X	X	X	X	--
Machine Drive	--	8.5	X	X	54.2	99.4	X	--
Electro-Chemical Processes	--	99.4	--	--	--	--	--	--
Other Process Use	--	91.3	X	39.7	X	X	X	--
Direct Uses-Total Nonprocess	--	13.2	X	53.2	32.2	34.9	X	--
Facility HVAC (g)	--	14.7	X	89.5	29.2	53.7	X	--
Facility Lighting	--	15.9	--	--	--	--	--	--
Other Facility Support	--	13.8	X	46.2	88.3	X	X	--
Onsite Transportation	--	28.4	--	48.7	X	39.0	--	--

Conventional Electricity Generation	--	--	X	X	X	X	X	X	--
Other Nonprocess Use	--	76.1	X	X	X	X	X	X	--
End Use Not Reported	83.1	82.0	X	X	86.6	88.6	X	X	76.5

315 APPAREL

TOTAL FUEL CONSUMPTION	10.1	11.3	X	51.8	14.3	42.3	99.4	98.2
Indirect Uses-Boiler Fuel	--	30.4	X	X	19.2	47.9	X	--
Conventional Boiler Use	--	30.4	X	X	32.3	98.2	X	--
CHP and/or Cogeneration Process	--	X	X	X	24.3	48.1	X	--
Direct Uses-Total Process	--	16.0	X	51.8	18.1	98.2	X	--
Process Heating	--	29.7	X	X	18.7	98.2	X	--
Process Cooling and Refrigeration	--	19.7	X	X	77.7	X	X	--
Machine Drive	--	19.0	X	X	62.6	X	X	--
Electro-Chemical Processes	--	15.2	--	--	--	--	--	--
Other Process Use	--	72.1	X	51.8	X	X	X	--
Direct Uses-Total Nonprocess	--	12.3	X	X	32.8	67.0	99.4	--
Facility HVAC (g)	--	12.6	X	X	34.3	66.8	99.4	--
Facility Lighting	--	15.9	--	--	--	--	--	--
Other Facility Support	--	20.3	X	X	56.9	X	X	--
Onsite Transportation	--	26.3	--	X	X	75.3	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	18.2	X	X	99.4	75.1	X	--
End Use Not Reported	52.5	52.0	X	X	72.9	0.0	X	98.2

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	7.7	5.1	X	4.0	11.6	31.1	X	21.5
Indirect Uses-Boiler Fuel	--	21.2	X	2.5	12.8	55.8	X	--
Conventional Boiler Use	--	21.2	X	0.1	7.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	19.0	22.7	55.8	X	--
Direct Uses-Total Process	--	4.6	X	X	17.4	52.2	X	--
Process Heating	--	11.2	X	X	16.2	55.1	X	--
Process Cooling and Refrigeration	--	33.9	X	X	52.4	X	X	--
Machine Drive	--	5.0	X	X	28.6	67.1	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	12.2	X	X	45.5	X	X	--
Direct Uses-Total Nonprocess	--	11.3	X	22.5	20.7	27.6	X	--
Facility HVAC (g)	--	17.5	X	45.5	22.0	42.0	X	--
Facility Lighting	--	8.0	--	--	--	--	--	--

Other Facility Support	--	10.3	X	X	13.3	62.0	X	--
Onsite Transportation	--	20.1	--	0.3	X	5.5	--	--
Conventional Electricity Generation	--	--	X	38.1	X	X	X	--
Other Nonprocess Use	--	94.5	X	0.0	82.8	X	X	--
End Use Not Reported	34.5	37.6	X	X	33.4	0.0	X	21.5

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	4.0	3.0	3.5	31.5	10.2	5.6	63.3	5.0
Indirect Uses-Boiler Fuel	--	15.4	86.3	14.2	2.8	3.8	80.4	--
Conventional Boiler Use	--	15.4	X	4.5	3.4	5.0	X	--
CHP and/or Cogeneration Process	--	X	86.3	24.6	3.5	3.5	80.4	--
Direct Uses-Total Process	--	3.1	0.0	71.3	16.8	12.9	97.1	--
Process Heating	--	12.3	0.0	28.3	19.9	14.4	97.1	--
Process Cooling and Refrigeration	--	5.8	X	93.2	64.3	97.1	X	--
Machine Drive	--	3.3	0.0	19.7	15.5	23.6	X	--
Electro-Chemical Processes	--	7.6	--	--	--	--	--	--
Other Process Use	--	23.6	X	94.3	0.9	38.0	X	--
Direct Uses-Total Nonprocess	--	5.6	1.3	4.8	8.8	4.7	95.1	--
Facility HVAC (g)	--	10.1	1.3	26.2	10.2	24.2	95.1	--
Facility Lighting	--	3.9	--	--	--	--	--	--
Other Facility Support	--	5.5	X	9.8	14.3	55.8	X	--
Onsite Transportation	--	10.3	--	4.0	82.1	4.8	--	--
Conventional Electricity Generation	--	--	X	44.5	50.8	37.5	X	--
Other Nonprocess Use	--	27.0	X	50.2	6.1	3.8	X	--
End Use Not Reported	5.0	10.5	X	X	42.8	53.5	X	5.0

321113 Sawmills

TOTAL FUEL CONSUMPTION	5.2	7.0	3.6	3.6	36.2	8.6	X	1.3
Indirect Uses-Boiler Fuel	--	25.0	86.3	7.0	3.1	2.0	X	--
Conventional Boiler Use	--	25.0	X	0.8	4.5	0.0	X	--
CHP and/or Cogeneration Process	--	X	86.3	13.7	3.5	2.0	X	--
Direct Uses-Total Process	--	7.3	X	12.5	55.3	14.6	X	--
Process Heating	--	3.8	X	20.9	56.9	14.8	X	--
Process Cooling and Refrigeration	--	36.4	X	55.9	43.8	X	X	--
Machine Drive	--	7.7	X	15.8	2.1	34.5	X	--
Electro-Chemical Processes	--	6.4	--	--	--	--	--	--
Other Process Use	--	15.3	X	16.7	X	43.3	X	--
Direct Uses-Total Nonprocess	--	7.1	0.6	3.6	5.2	8.1	X	--

Facility HVAC (g)	--	11.7	0.6	7.4	5.0	6.4	X	--
Facility Lighting	--	6.5	--	--	--	--	--	--
Other Facility Support	--	6.9	X	17.5	23.9	7.8	X	--
Onsite Transportation	--	9.2	--	3.6	31.5	11.1	--	--
Conventional Electricity Generation	--	--	X	12.2	0.0	0.0	X	--
Other Nonprocess Use	--	23.8	X	22.2	X	45.3	X	--
End Use Not Reported	1.3	3.9	X	X	0.0	7.2	X	1.3

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	1.0	1.2	0.0	3.2	1.2	3.1	80.4	1.5
Indirect Uses-Boiler Fuel	--	1.3	X	29.6	2.7	0.1	80.4	--
Conventional Boiler Use	--	1.3	X	0.0	0.1	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	66.4	3.6	2.4	80.4	--
Direct Uses-Total Process	--	1.3	0.0	7.8	1.0	4.9	X	--
Process Heating	--	1.2	0.0	0.0	1.4	0.0	X	--
Process Cooling and Refrigeration	--	2.5	X	X	0.0	X	X	--
Machine Drive	--	1.4	0.0	24.8	1.8	14.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	2.6	X	0.0	0.9	1.6	X	--
Direct Uses-Total Nonprocess	--	1.8	X	3.3	4.0	3.5	X	--
Facility HVAC (g)	--	3.2	X	36.5	6.4	28.7	X	--
Facility Lighting	--	1.7	--	--	--	--	--	--
Other Facility Support	--	2.3	X	4.1	8.0	47.9	X	--
Onsite Transportation	--	10.0	--	3.1	80.4	3.1	--	--
Conventional Electricity Generation	--	--	X	40.0	0.0	43.2	X	--
Other Nonprocess Use	--	4.5	X	32.4	0.0	0.0	X	--
End Use Not Reported	1.5	4.7	X	X	60.6	63.6	X	1.5

321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	0.5	1.5	0.0	2.7	0.9	5.9	X	0.1
Indirect Uses-Boiler Fuel	--	0.1	X	0.0	0.1	0.0	X	--
Conventional Boiler Use	--	0.1	X	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.1	0.0	X	--
Direct Uses-Total Process	--	1.6	0.0	0.0	1.3	15.6	X	--
Process Heating	--	0.8	0.0	0.0	2.0	0.0	X	--
Process Cooling and Refrigeration	--	0.3	X	X	X	X	X	--
Machine Drive	--	1.6	0.0	0.0	0.0	23.4	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--

Other Process Use	--	5.1	X	X	0.2	X	X	--
Direct Uses-Total Nonprocess	--	1.5	X	2.7	1.2	7.4	X	--
Facility HVAC (g)	--	2.6	X	0.0	3.0	53.2	X	--
Facility Lighting	--	1.3	--	--	--	--	--	--
Other Facility Support	--	0.8	X	5.8	31.4	56.9	X	--
Onsite Transportation	--	14.4	--	2.8	X	5.9	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	X	0.0	0.0	X	--
End Use Not Reported	0.1	X	X	X	X	X	X	0.1

3219 Other Wood Products

TOTAL FUEL CONSUMPTION	16.3	5.7	85.9	65.7	14.9	14.7	75.3	33.2
Indirect Uses-Boiler Fuel	--	33.5	X	66.9	16.5	67.3	X	--
Conventional Boiler Use	--	33.5	X	54.5	12.4	88.5	X	--
CHP and/or Cogeneration Process	--	X	X	80.7	23.4	63.1	X	--
Direct Uses-Total Process	--	5.4	X	86.8	26.1	24.5	97.1	--
Process Heating	--	27.4	X	61.0	27.7	27.5	97.1	--
Process Cooling and Refrigeration	--	10.6	X	97.1	82.7	97.1	X	--
Machine Drive	--	5.5	X	54.5	59.7	45.4	X	--
Electro-Chemical Processes	--	73.7	--	--	--	--	--	--
Other Process Use	--	44.2	X	96.3	14.3	65.7	X	--
Direct Uses-Total Nonprocess	--	11.8	85.9	20.2	13.8	14.5	95.1	--
Facility HVAC (g)	--	17.7	85.9	52.3	14.5	36.4	95.1	--
Facility Lighting	--	9.0	--	--	--	--	--	--
Other Facility Support	--	12.9	X	X	22.0	95.4	X	--
Onsite Transportation	--	16.4	--	18.0	83.5	16.1	--	--
Conventional Electricity Generation	--	--	X	83.5	69.6	X	X	--
Other Nonprocess Use	--	56.7	X	73.1	75.0	0.0	X	--
End Use Not Reported	32.8	77.4	X	X	81.0	59.2	X	33.2

322 PAPER

TOTAL FUEL CONSUMPTION	0.4	1.4	0.0	0.7	1.0	11.1	0.0	0.1
Indirect Uses-Boiler Fuel	--	2.6	0.0	1.3	1.2	27.4	0.0	--
Conventional Boiler Use	--	2.6	0.0	25.4	4.9	0.0	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	0.1	1.1	45.7	0.0	--
Direct Uses-Total Process	--	1.3	0.0	0.0	2.2	24.2	0.0	--
Process Heating	--	6.2	0.0	0.0	2.3	19.7	X	--
Process Cooling and Refrigeration	--	14.2	X	X	11.8	95.9	X	--

Process Heating	--	0.0	0.0	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	0.0	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	X	0.0	--
Direct Uses-Total Nonprocess	--	0.0	0.0	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	0.0	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	X	X	0.0	X	0.0	X	--
End Use Not Reported	0.0	X	X	0.0	X	0.0	X	0.0

322122 Newsprint Mills

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	X	0.0	X	X	--
Process Heating	--	0.0	X	X	0.0	X	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	X	X	X	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--
Other Process Use	--	X	X	X	X	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	X	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	X	X	X	0.0	X	X	--
Onsite Transportation	--	X	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	X	X	X	X	X	X	--
End Use Not Reported	0.0	X	X	X	X	X	X	0.0

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.0	0.0	0.0	--
Conventional Boiler Use	--	0.0	0.0	0.0	0.0	X	0.0	--

CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	0.0	0.0	0.0	--
Direct Uses-Total Process	--	0.0	0.0	0.0	0.0	0.0	0.0	X	--
Process Heating	--	0.0	0.0	0.0	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	0.0	0.0	X	--
End Use Not Reported	0.0	X	0.0	0.0	X	0.0	0.0	X	0.0

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	7.7	7.8	50.9	43.0	10.0	21.4	X	59.2
Indirect Uses-Boiler Fuel	--	31.0	X	57.8	18.8	0.0	X	--
Conventional Boiler Use	--	31.0	X	57.8	16.7	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	60.9	X	X	--
Direct Uses-Total Process	--	8.5	50.9	61.6	14.8	50.1	X	--
Process Heating	--	17.7	X	99.0	14.5	67.0	X	--
Process Cooling and Refrigeration	--	15.0	X	X	70.5	X	X	--
Machine Drive	--	8.6	X	76.5	41.4	70.0	X	--
Electro-Chemical Processes	--	86.8	--	--	--	--	--	--
Other Process Use	--	34.9	50.9	X	82.9	X	X	--
Direct Uses-Total Nonprocess	--	9.3	50.9	52.7	11.7	17.4	X	--
Facility HVAC (g)	--	10.3	50.9	66.1	12.2	59.8	X	--
Facility Lighting	--	10.8	--	--	--	--	--	--
Other Facility Support	--	14.6	X	99.0	26.0	96.0	X	--
Onsite Transportation	--	20.2	--	18.6	52.8	16.5	--	--
Conventional Electricity Generation	--	--	X	38.7	99.0	X	X	--
Other Nonprocess Use	--	51.1	X	55.9	57.8	99.0	X	--
End Use Not Reported	34.6	43.5	X	94.9	41.3	98.2	X	59.2

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	0.2	0.5	9.1	8.9	0.3	5.6	19.9	0.1
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Indirect Uses-Boiler Fuel	--	1.3	0.0	7.3	0.3	2.6	X	--
Conventional Boiler Use	--	1.3	0.0	0.8	0.1	1.2	X	--
CHP and/or Cogeneration Process	--	X	X	9.9	0.5	6.3	X	--
Direct Uses-Total Process	--	0.6	9.7	6.8	0.4	6.6	19.9	--
Process Heating	--	1.3	9.7	10.5	0.4	2.8	19.9	--
Process Cooling and Refrigeration	--	0.8	X	0.0	11.6	0.0	X	--
Machine Drive	--	0.6	X	8.9	2.6	85.8	X	--
Electro-Chemical Processes	--	0.8	--	--	--	--	--	--
Other Process Use	--	0.4	X	23.8	0.3	5.0	X	--
Direct Uses-Total Nonprocess	--	0.3	X	23.2	0.4	6.4	X	--
Facility HVAC (g)	--	0.4	X	23.2	0.7	17.8	X	--
Facility Lighting	--	0.4	--	--	--	--	--	--
Other Facility Support	--	0.2	X	6.4	1.0	0.0	X	--
Onsite Transportation	--	1.9	--	17.6	6.3	7.7	--	--
Conventional Electricity Generation	--	--	X	0.0	0.1	0.0	X	--
Other Nonprocess Use	--	2.4	X	50.0	9.5	21.1	X	--
End Use Not Reported	0.1	17.0	X	24.0	0.0	13.7	X	0.1

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	0.0	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	0.0	0.0	0.0	0.0	0.0	X	--
Process Heating	--	0.0	0.0	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	0.0	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	0.0	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	0.0	X	--
End Use Not Reported	0.0	0.0	X	0.0	0.0	0.0	X	0.0

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	5.4	8.7	30.1	15.2	3.9	36.8	19.9	17.6
Indirect Uses-Boiler Fuel	--	2.5	X	48.8	5.2	73.8	X	--
Conventional Boiler Use	--	2.5	X	9.1	10.3	88.6	X	--
CHP and/or Cogeneration Process	--	X	X	57.4	6.1	93.6	X	--
Direct Uses-Total Process	--	10.8	30.1	10.1	4.5	38.7	19.9	--
Process Heating	--	8.8	30.1	17.8	5.1	26.2	19.9	--
Process Cooling and Refrigeration	--	30.0	X	0.0	49.6	X	X	--
Machine Drive	--	12.5	X	11.9	9.0	87.5	X	--
Electro-Chemical Processes	--	55.4	--	--	--	--	--	--
Other Process Use	--	3.6	X	3.3	3.1	0.0	X	--
Direct Uses-Total Nonprocess	--	3.6	X	45.4	6.8	20.8	X	--
Facility HVAC (g)	--	3.4	X	65.9	4.6	54.2	X	--
Facility Lighting	--	6.5	--	--	--	--	--	--
Other Facility Support	--	4.1	X	52.7	2.7	0.0	X	--
Onsite Transportation	--	12.9	--	37.5	69.2	19.1	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	6.8	X	66.5	26.9	0.0	X	--
End Use Not Reported	17.1	37.6	X	X	0.0	55.4	X	17.6

324122 Asphalt Shingle and Coating Materials

TOTAL FUEL CONSUMPTION	1.1	1.7	X	0.9	1.1	2.6	X	0.1
Indirect Uses-Boiler Fuel	--	8.6	X	0.0	0.7	1.1	X	--
Conventional Boiler Use	--	8.6	X	0.0	0.2	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.9	1.3	X	--
Direct Uses-Total Process	--	1.9	X	0.0	1.5	0.3	X	--
Process Heating	--	2.4	X	0.0	1.7	1.4	X	--
Process Cooling and Refrigeration	--	7.6	X	X	0.3	0.0	X	--
Machine Drive	--	1.9	X	0.0	0.5	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	1.5	X	1.2	5.4	2.7	X	--
Facility HVAC (g)	--	1.4	X	0.0	3.6	0.3	X	--
Facility Lighting	--	2.0	--	--	--	--	--	--
Other Facility Support	--	2.8	X	0.0	0.8	0.0	X	--
Onsite Transportation	--	0.0	--	1.4	0.0	2.9	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	24.0	X	0.0	22.0	0.0	X	--
End Use Not Reported	5.6	28.4	X	X	X	26.2	X	0.1

324191 Petroleum Lubricating Oil and Grease Products

TOTAL FUEL CONSUMPTION	17	19	X	51	17	20	X	0
Indirect Uses-Boiler Fuel	--	6	X	36	10	1	X	--
Conventional Boiler Use	--	6	X	0	5	X	X	--
CHP and/or Cogeneration Process	--	X	X	71	12	1	X	--
Direct Uses-Total Process	--	23	X	84	28	25	X	--
Process Heating	--	5	X	0	30	46	X	--
Process Cooling and Refrigeration	--	11	X	X	57	0	X	--
Machine Drive	--	28	X	0	48	1	X	--
Electro-Chemical Processes	--	50	--	--	--	--	--	--
Other Process Use	--	0	X	87	18	57	X	--
Direct Uses-Total Nonprocess	--	3	X	8	4	31	X	--
Facility HVAC (g)	--	5	X	22	5	84	X	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	2	X	0	4	0	X	--
Onsite Transportation	--	4	--	5	0	38	--	--
Conventional Electricity Generation	--	--	X	0	69	X	X	--
Other Nonprocess Use	--	20	X	1	0	57	X	--
End Use Not Reported	4	47	X	89	X	7	X	0

324199 Other Petroleum and Coal Products

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	0.0	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	0.0	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	X	X	--

End Use Not Reported	0.0	0.0	X	X	X	0.0	X	0.0
325 CHEMICALS								
TOTAL FUEL CONSUMPTION	1.6	1.5	8.3	2.2	1.7	13.9	0.4	4.3
Indirect Uses-Boiler Fuel	--	4.9	3.3	5.2	1.3	26.6	0.3	--
Conventional Boiler Use	--	4.9	3.3	5.5	2.3	29.2	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	7.9	1.8	34.7	0.3	--
Direct Uses-Total Process	--	1.5	38.3	4.3	2.9	D	1.6	--
Process Heating	--	6.9	38.3	13.9	3.6	34.1	3.6	--
Process Cooling and Refrigeration	--	2.8	X	2.3	6.6	20.9	X	--
Machine Drive	--	2.0	X	2.6	2.9	54.8	X	--
Electro-Chemical Processes	--	0.8	--	--	--	--	--	--
Other Process Use	--	4.2	X	2.5	4.4	D	0.0	--
Direct Uses-Total Nonprocess	--	3.4	X	2.2	6.1	D	0.0	--
Facility HVAC (g)	--	3.5	X	7.1	6.6	D	0.0	--
Facility Lighting	--	3.9	--	--	--	--	--	--
Other Facility Support	--	7.3	X	0.1	10.9	23.8	X	--
Onsite Transportation	--	12.7	--	2.5	8.6	20.9	--	--
Conventional Electricity Generation	--	--	X	2.0	23.2	0.0	X	--
Other Nonprocess Use	--	18.3	X	9.0	21.5	42.9	X	--
End Use Not Reported	4.2	10.4	0.0	0.0	0.9	44.0	X	4.3

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	0.0	X	--
Machine Drive	--	0.0	X	0.0	D	X	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	D	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--

Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	X	X	--
End Use Not Reported	0.0	X	X	X	X	0.0	X	0.0

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	1.9	3.8	X	0.0	1.9	70.3	X	5.3
Indirect Uses-Boiler Fuel	--	14.6	X	0.0	0.1	X	X	--
Conventional Boiler Use	--	14.6	X	0.0	0.9	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.1	X	X	--
Direct Uses-Total Process	--	3.7	X	0.0	8.0	40.4	X	--
Process Heating	--	22.1	X	X	4.6	X	X	--
Process Cooling and Refrigeration	--	22.5	X	X	34.3	40.4	X	--
Machine Drive	--	3.7	X	0.0	X	X	X	--
Electro-Chemical Processes	--	0.1	--	--	--	--	--	--
Other Process Use	--	0.1	X	X	10.0	X	X	--
Direct Uses-Total Nonprocess	--	8.5	X	0.0	26.9	81.0	X	--
Facility HVAC (g)	--	6.4	X	X	25.8	0.0	X	--
Facility Lighting	--	34.9	--	--	--	--	--	--
Other Facility Support	--	24.4	X	X	38.0	X	X	--
Onsite Transportation	--	0.4	--	0.0	X	68.0	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	70.7	X	X	18.8	94.1	X	--
End Use Not Reported	5.2	3.1	X	0.0	X	65.0	X	5.3

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	9.1	2.0	X	3.2	4.0	9.2	0.0	41.6
Indirect Uses-Boiler Fuel	--	3.2	X	0.5	0.5	0.0	0.0	--
Conventional Boiler Use	--	3.2	X	1.5	2.3	0.0	0.0	--
CHP and/or Cogeneration Process	--	X	X	0.3	0.4	0.0	0.0	--
Direct Uses-Total Process	--	2.0	X	2.3	7.6	8.5	0.0	--
Process Heating	--	4.2	X	X	15.1	8.5	0.0	--
Process Cooling and Refrigeration	--	4.9	X	X	32.1	X	X	--
Machine Drive	--	8.4	X	3.0	1.5	0.0	X	--
Electro-Chemical Processes	--	0.5	--	--	--	--	--	--
Other Process Use	--	1.4	X	0.4	11.9	52.0	X	--
Direct Uses-Total Nonprocess	--	10.1	X	4.4	16.1	19.3	X	--
Facility HVAC (g)	--	13.7	X	0.0	8.5	29.9	X	--
Facility Lighting	--	7.5	--	--	--	--	--	--

Other Facility Support	--	17.0	X	0.0	7.8	X	X	--
Onsite Transportation	--	55.2	--	5.8	51.7	26.0	--	--
Conventional Electricity Generation	--	--	X	38.9	85.7	X	X	--
Other Nonprocess Use	--	25.5	X	48.7	81.0	3.8	X	--
End Use Not Reported	38.9	0.0	X	X	0.1	44.8	X	41.6

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	1.3	1.9	X	2.8	1.5	8.6	0.0	3.7
Indirect Uses-Boiler Fuel	--	10.0	X	X	2.0	16.2	0.0	--
Conventional Boiler Use	--	10.0	X	X	2.8	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	4.1	31.3	0.0	--
Direct Uses-Total Process	--	1.7	X	2.0	2.4	6.2	X	--
Process Heating	--	12.9	X	X	2.5	10.3	X	--
Process Cooling and Refrigeration	--	4.4	X	0.0	7.8	X	X	--
Machine Drive	--	1.6	X	2.2	2.2	2.1	X	--
Electro-Chemical Processes	--	53.7	--	--	--	--	--	--
Other Process Use	--	25.2	X	0.0	15.9	X	X	--
Direct Uses-Total Nonprocess	--	6.9	X	3.3	7.4	5.4	X	--
Facility HVAC (g)	--	5.0	X	72.0	5.9	19.3	X	--
Facility Lighting	--	5.9	--	--	--	--	--	--
Other Facility Support	--	12.1	X	0.0	10.9	0.0	X	--
Onsite Transportation	--	57.1	--	3.4	0.0	4.2	--	--
Conventional Electricity Generation	--	--	X	1.2	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	59.1	0.0	X	--
End Use Not Reported	3.7	X	X	X	X	3.3	X	3.7

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	X	X	--
Machine Drive	--	0.0	X	0.0	X	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--

Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	X	X	--
End Use Not Reported	0.0	0.0	X	X	0.0	0.0	X	0.0

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	4.1	5.9	0.0	9.2	6.0	8.3	1.6	6.3
Indirect Uses-Boiler Fuel	--	4.9	0.0	39.2	5.9	18.8	1.1	--
Conventional Boiler Use	--	4.9	0.0	0.4	7.4	0.0	0.0	--
CHP and/or Cogeneration Process	--	X	0.0	57.3	8.4	84.8	1.2	--
Direct Uses-Total Process	--	6.5	X	10.0	7.6	3.3	3.0	--
Process Heating	--	9.9	X	29.1	6.3	3.4	87.5	--
Process Cooling and Refrigeration	--	5.7	X	5.0	37.4	33.4	X	--
Machine Drive	--	7.4	X	2.9	16.1	17.8	X	--
Electro-Chemical Processes	--	4.7	--	--	--	--	--	--
Other Process Use	--	0.8	X	0.1	17.5	60.5	0.0	--
Direct Uses-Total Nonprocess	--	12.0	X	7.0	15.3	16.9	X	--
Facility HVAC (g)	--	10.3	X	X	6.4	37.0	X	--
Facility Lighting	--	9.2	--	--	--	--	--	--
Other Facility Support	--	30.4	X	0.8	37.3	46.0	X	--
Onsite Transportation	--	39.2	--	7.7	46.0	18.8	--	--
Conventional Electricity Generation	--	--	X	0.1	5.2	0.0	X	--
Other Nonprocess Use	--	0.7	X	30.4	0.0	0.0	X	--
End Use Not Reported	6.1	17.8	X	X	0.4	0.0	X	6.3

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	1.3	3.4	X	D	1.1	D	D	3.5
Indirect Uses-Boiler Fuel	--	8.1	X	0.1	1.3	65.7	X	--
Conventional Boiler Use	--	8.1	X	0.1	9.4	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.4	87.8	X	--
Direct Uses-Total Process	--	3.4	X	D	1.8	D	D	--
Process Heating	--	13.2	X	D	2.9	78.2	D	--
Process Cooling and Refrigeration	--	13.6	X	21.4	0.1	X	X	--
Machine Drive	--	3.8	X	13.3	0.5	9.4	X	--
Electro-Chemical Processes	--	0.2	--	--	--	--	--	--

Other Process Use	--	8.7	X	51.7	1.7	D	X	--
Direct Uses-Total Nonprocess	--	9.4	X	4.0	8.6	8.9	X	--
Facility HVAC (g)	--	14.1	X	68.1	11.4	15.4	X	--
Facility Lighting	--	8.3	--	--	--	--	--	--
Other Facility Support	--	6.6	X	0.0	3.2	1.4	X	--
Onsite Transportation	--	8.9	--	4.2	26.8	11.8	--	--
Conventional Electricity Generation	--	--	X	12.7	92.5	X	X	--
Other Nonprocess Use	--	31.9	X	0.2	0.1	6.8	X	--
End Use Not Reported	3.4	56.6	X	0.0	33.0	20.6	X	3.5

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	0.0	--
Conventional Boiler Use	--	0.0	X	0.0	0.0	0.0	0.0	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	X	0.0	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	0.0	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	X	X	--
End Use Not Reported	0.0	0.0	X	X	0.0	0.0	X	0.0

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	0.0	--
Conventional Boiler Use	--	0.0	X	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	0.0	0.0	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	0.0	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--

Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	0.0	X	--
End Use Not Reported	0.0	0.0	X	X	X	0.0	X	0.0

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	3.8	12.5	X	2.7	3.2	86.5	X	0.7
Indirect Uses-Boiler Fuel	--	0.9	X	0.0	0.3	0.0	X	--
Conventional Boiler Use	--	0.9	X	0.0	0.5	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.1	X	X	--
Direct Uses-Total Process	--	12.8	X	0.0	4.1	29.3	X	--
Process Heating	--	11.1	X	X	4.9	40.7	X	--
Process Cooling and Refrigeration	--	13.1	X	X	X	X	X	--
Machine Drive	--	11.5	X	0.0	4.4	0.0	X	--
Electro-Chemical Processes	--	71.4	--	--	--	--	--	--
Other Process Use	--	80.7	X	0.0	0.1	X	X	--
Direct Uses-Total Nonprocess	--	13.4	X	6.1	36.5	89.2	X	--
Facility HVAC (g)	--	6.7	X	0.0	36.8	0.0	X	--
Facility Lighting	--	18.7	--	--	--	--	--	--
Other Facility Support	--	32.2	X	X	43.0	0.0	X	--
Onsite Transportation	--	47.0	--	10.2	X	89.7	--	--
Conventional Electricity Generation	--	--	X	68.4	76.6	X	X	--
Other Nonprocess Use	--	0.0	X	0.5	X	X	X	--
End Use Not Reported	0.7	X	X	X	X	47.5	X	0.7

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	0.0	D	0.0	D	0.0	0.0	D	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	D	0.0	D	0.0	0.0	D	--

Process Heating	--	0.0	0.0	D	0.0	0.0	D	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	D	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--
Other Process Use	--	X	X	0.0	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	X	X	0.0	X	X	X	--
End Use Not Reported	0.0	X	X	X	X	0.0	X	0.0

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	6.0	2.9	X	2.6	5.2	25.5	0.0	36.1
Indirect Uses-Boiler Fuel	--	8.7	X	0.6	3.6	34.6	0.0	--
Conventional Boiler Use	--	8.7	X	0.0	6.4	41.8	0.0	--
CHP and/or Cogeneration Process	--	X	X	6.3	2.5	5.2	X	--
Direct Uses-Total Process	--	1.6	X	3.5	8.8	29.4	X	--
Process Heating	--	2.9	X	0.0	10.1	28.0	X	--
Process Cooling and Refrigeration	--	2.2	X	5.2	13.1	X	X	--
Machine Drive	--	2.3	X	0.0	26.5	95.4	X	--
Electro-Chemical Processes	--	21.0	--	--	--	--	--	--
Other Process Use	--	3.0	X	23.0	3.2	58.7	X	--
Direct Uses-Total Nonprocess	--	5.1	X	4.6	13.5	52.9	0.0	--
Facility HVAC (g)	--	5.4	X	8.0	14.0	61.0	0.0	--
Facility Lighting	--	3.9	--	--	--	--	--	--
Other Facility Support	--	10.0	X	0.0	6.2	43.9	X	--
Onsite Transportation	--	6.0	--	4.4	18.8	17.9	--	--
Conventional Electricity Generation	--	--	X	3.4	41.0	0.0	X	--
Other Nonprocess Use	--	9.8	X	6.0	1.1	14.3	X	--
End Use Not Reported	33.5	25.6	X	X	10.6	35.9	X	36.1

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	9.7	1.7	X	2.9	9.6	30.1	0.0	39.9
Indirect Uses-Boiler Fuel	--	13.3	X	0.7	3.0	43.4	0.0	--
Conventional Boiler Use	--	13.3	X	0.0	2.4	43.4	0.0	--

CHP and/or Cogeneration Process	--	X	X	11.5	7.8	0.0	X	--
Direct Uses-Total Process	--	1.7	X	3.8	12.2	34.9	X	--
Process Heating	--	2.9	X	0.0	14.8	36.1	X	--
Process Cooling and Refrigeration	--	2.3	X	0.0	15.1	X	X	--
Machine Drive	--	2.5	X	0.0	31.9	95.4	X	--
Electro-Chemical Processes	--	38.3	--	--	--	--	--	--
Other Process Use	--	1.8	X	30.0	3.9	58.7	X	--
Direct Uses-Total Nonprocess	--	2.0	X	5.3	21.1	57.5	0.0	--
Facility HVAC (g)	--	2.2	X	8.2	22.1	61.1	0.0	--
Facility Lighting	--	2.3	--	--	--	--	--	--
Other Facility Support	--	5.7	X	0.0	9.2	65.3	X	--
Onsite Transportation	--	6.7	--	8.8	20.1	19.7	--	--
Conventional Electricity Generation	--	--	X	4.2	43.3	X	X	--
Other Nonprocess Use	--	4.1	X	6.4	1.4	0.0	X	--
End Use Not Reported	38.6	0.0	X	X	0.0	50.6	X	39.9

325992 Photographic Film, Paper, Plate, and Chemicals

TOTAL FUEL CONSUMPTION	0.2	0.3	0.0	0.1	0.4	1.5	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.4	X	X	--
Conventional Boiler Use	--	0.0	X	0.0	0.7	X	X	--
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	X	X	--
Direct Uses-Total Process	--	0.1	X	0.0	0.7	0.0	X	--
Process Heating	--	0.3	X	0.0	0.7	X	X	--
Process Cooling and Refrigeration	--	0.2	X	0.0	0.0	X	X	--
Machine Drive	--	0.2	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.6	X	X	--
Direct Uses-Total Nonprocess	--	0.6	X	0.1	1.1	5.3	X	--
Facility HVAC (g)	--	0.6	X	0.0	1.3	X	X	--
Facility Lighting	--	0.8	--	--	--	--	--	--
Other Facility Support	--	1.5	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	19.6	--	--
Conventional Electricity Generation	--	--	X	51.6	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	0.0	X	--
End Use Not Reported	0.1	0.0	X	X	0.0	0.1	X	0.0

326 PLASTICS AND RUBBER PRODUCTS

TOTAL FUEL CONSUMPTION	7.8	7.7	72.4	64.9	14.3	17.3	X	35.2
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Indirect Uses-Boiler Fuel	--	59.1	72.4	59.5	24.3	19.5	X	--
Conventional Boiler Use	--	59.1	72.4	80.3	33.6	72.1	X	--
CHP and/or Cogeneration Process	--	X	X	82.0	33.4	0.0	X	--
Direct Uses-Total Process	--	8.3	X	84.3	19.7	52.3	X	--
Process Heating	--	17.4	X	99.0	20.8	67.7	X	--
Process Cooling and Refrigeration	--	13.9	X	X	95.4	X	X	--
Machine Drive	--	9.4	X	64.6	63.4	73.7	X	--
Electro-Chemical Processes	--	54.0	--	--	--	--	--	--
Other Process Use	--	45.9	X	57.5	56.5	14.0	X	--
Direct Uses-Total Nonprocess	--	9.7	X	43.0	19.5	16.2	X	--
Facility HVAC (g)	--	10.0	X	X	20.4	61.6	X	--
Facility Lighting	--	9.7	--	--	--	--	--	--
Other Facility Support	--	15.8	X	X	32.9	95.2	X	--
Onsite Transportation	--	20.5	--	53.0	89.9	16.9	--	--
Conventional Electricity Generation	--	--	X	67.7	95.9	X	X	--
Other Nonprocess Use	--	90.7	X	55.8	X	94.0	X	--
End Use Not Reported	67.5	74.6	X	X	X	76.4	X	35.2

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	2.9	2.5	97.3	16.7	1.7	27.5	7.5	3.2
Indirect Uses-Boiler Fuel	--	13.1	X	88.1	17.0	12.8	0.0	--
Conventional Boiler Use	--	13.1	X	47.9	30.0	0.1	0.0	--
CHP and/or Cogeneration Process	--	X	X	99.0	19.6	65.2	0.0	--
Direct Uses-Total Process	--	2.6	97.3	28.0	1.6	51.5	7.5	--
Process Heating	--	2.9	97.3	58.3	1.3	57.7	0.2	--
Process Cooling and Refrigeration	--	7.8	X	X	21.6	X	4.9	--
Machine Drive	--	2.8	97.3	31.9	6.8	63.0	0.0	--
Electro-Chemical Processes	--	1.5	--	--	--	--	--	--
Other Process Use	--	25.8	X	42.0	54.8	44.6	76.3	--
Direct Uses-Total Nonprocess	--	4.1	X	19.1	7.8	11.5	0.0	--
Facility HVAC (g)	--	4.3	X	51.6	8.3	38.2	X	--
Facility Lighting	--	4.9	--	--	--	--	--	--
Other Facility Support	--	6.9	X	83.9	9.8	64.6	0.0	--
Onsite Transportation	--	8.9	--	19.2	42.8	11.4	--	--
Conventional Electricity Generation	--	--	X	74.9	70.9	0.0	X	--
Other Nonprocess Use	--	27.5	X	57.4	26.1	66.7	X	--
End Use Not Reported	3.1	24.9	X	X	13.3	91.0	X	3.2

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	2.0	3.6	X	2.2	2.2	5.5	0.0	24.8
Indirect Uses-Boiler Fuel	--	35.2	X	X	8.4	0.0	X	--
Conventional Boiler Use	--	35.2	X	X	2.7	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	8.7	X	X	--
Direct Uses-Total Process	--	3.2	X	10.0	1.9	8.1	0.0	--
Process Heating	--	3.6	X	0.1	2.0	0.3	0.0	--
Process Cooling and Refrigeration	--	12.2	X	X	X	X	X	--
Machine Drive	--	3.8	X	16.1	15.7	70.0	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--
Other Process Use	--	58.2	X	0.0	9.9	72.5	0.0	--
Direct Uses-Total Nonprocess	--	7.0	X	2.2	9.5	6.9	X	--
Facility HVAC (g)	--	6.0	X	35.5	10.0	30.2	X	--
Facility Lighting	--	9.9	--	--	--	--	--	--
Other Facility Support	--	8.8	X	0.0	17.4	X	X	--
Onsite Transportation	--	13.1	--	2.2	0.1	5.8	--	--
Conventional Electricity Generation	--	--	X	0.4	X	X	X	--
Other Nonprocess Use	--	49.2	X	8.5	X	0.0	X	--
End Use Not Reported	24.2	8.2	X	X	X	8.1	X	24.8

327211 Flat Glass

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	X	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	X	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	X	X	--
End Use Not Reported	0.0	0.0	X	X	X	0.0	X	0.0

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	0.6	0.8	X	0.7	0.7	27.7	X	0.1
Indirect Uses-Boiler Fuel	--	17.5	X	0.0	3.9	44.6	X	--
Conventional Boiler Use	--	17.5	X	0.0	2.6	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	5.2	44.6	X	--
Direct Uses-Total Process	--	0.5	X	0.0	0.7	37.2	X	--
Process Heating	--	0.8	X	0.0	0.7	40.1	X	--
Process Cooling and Refrigeration	--	0.5	X	X	9.8	X	X	--
Machine Drive	--	1.0	X	0.0	0.3	0.3	X	--
Electro-Chemical Processes	--	1.7	--	--	--	--	--	--
Other Process Use	--	0.4	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	2.3	X	0.9	2.1	24.5	X	--
Facility HVAC (g)	--	3.1	X	X	2.2	71.6	X	--
Facility Lighting	--	1.9	--	--	--	--	--	--
Other Facility Support	--	3.4	X	X	1.8	73.7	X	--
Onsite Transportation	--	5.0	--	0.5	X	16.1	--	--
Conventional Electricity Generation	--	--	X	0.0	91.9	X	X	--
Other Nonprocess Use	--	0.0	X	24.7	X	0.0	X	--
End Use Not Reported	0.1	X	X	X	X	10.3	X	0.1

327213 Glass Containers

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	X	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	X	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	X	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	X	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	X	0.0	X	X	--

End Use Not Reported	0.0	0.0	X	X	0.0	X	X	0.0
327215 Glass Products from Purchased Glass								
TOTAL FUEL CONSUMPTION	1.0	1.4	X	26.8	1.1	1.9	X	0.2
Indirect Uses-Boiler Fuel	--	14.8	X	54.8	1.2	0.1	X	--
Conventional Boiler Use	--	14.8	X	54.9	0.7	0.1	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	1.5	0.0	X	--
Direct Uses-Total Process	--	1.6	X	0.0	1.2	1.4	X	--
Process Heating	--	2.9	X	X	1.4	0.1	X	--
Process Cooling and Refrigeration	--	1.2	X	X	70.0	X	X	--
Machine Drive	--	1.2	X	0.0	0.6	0.3	X	--
Electro-Chemical Processes	--	0.1	--	--	--	--	--	--
Other Process Use	--	1.5	X	0.0	0.5	81.4	X	--
Direct Uses-Total Nonprocess	--	1.8	X	30.0	3.7	2.5	X	--
Facility HVAC (g)	--	2.3	X	45.0	4.1	0.0	X	--
Facility Lighting	--	4.1	--	--	--	--	--	--
Other Facility Support	--	2.0	X	91.2	5.4	75.8	X	--
Onsite Transportation	--	1.3	--	5.7	62.3	2.9	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	0.0	X	--
Other Nonprocess Use	--	1.2	X	1.1	0.2	5.1	X	--
End Use Not Reported	3.1	18.3	X	X	0.0	45.9	X	0.2

327310 Cements								
TOTAL FUEL CONSUMPTION	0.4	0.3	X	0.3	1.2	1.1	0.3	0.3
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	0.0	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	0.0	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	0.0	--
Direct Uses-Total Process	--	0.3	X	0.1	1.2	8.7	0.3	--
Process Heating	--	1.0	X	0.0	0.2	0.0	0.3	--
Process Cooling and Refrigeration	--	0.8	X	X	23.5	X	4.9	--
Machine Drive	--	0.4	X	0.1	0.0	12.3	0.0	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	43.0	X	X	X	--
Direct Uses-Total Nonprocess	--	1.4	X	0.5	3.4	0.1	0.0	--
Facility HVAC (g)	--	1.3	X	0.0	3.8	0.0	X	--
Facility Lighting	--	2.1	--	--	--	--	--	--
Other Facility Support	--	1.1	X	X	0.1	0.0	0.0	--
Onsite Transportation	--	0.0	--	0.5	X	0.2	--	--

Conventional Electricity Generation	--	--	X	0.0	X	X	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	1.2	X	X	--
End Use Not Reported	0.3	0.0	X	X	0.0	X	X	X	0.3

327410 Lime

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	X	X	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	0.0	0.0	--
Process Heating	--	0.0	X	0.0	0.0	0.0	0.0	0.0	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	X	X	X	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	X	--
Other Nonprocess Use	--	0.0	X	X	X	0.0	0.0	X	--
End Use Not Reported	0.0	X	X	X	X	X	X	X	0.0

327420 Gypsum

TOTAL FUEL CONSUMPTION	1.0	2.0	X	47.3	0.5	1.4	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	2.3	X	75.4	0.5	X	X	--
Process Heating	--	17.0	X	72.8	0.5	X	X	--
Process Cooling and Refrigeration	--	3.5	X	X	0.0	X	X	--
Machine Drive	--	2.3	X	78.2	0.0	X	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--
Other Process Use	--	51.8	X	X	X	X	X	--
Direct Uses-Total Nonprocess	--	1.8	X	37.9	2.9	1.4	X	--
Facility HVAC (g)	--	2.0	X	0.0	3.8	0.0	X	--
Facility Lighting	--	1.5	--	--	--	--	--	--

Other Facility Support	--	4.9	X	0.0	0.3	X	X	--
Onsite Transportation	--	0.0	--	17.8	0.0	1.4	--	--
Conventional Electricity Generation	--	--	X	87.6	X	X	X	--
Other Nonprocess Use	--	0.0	X	57.2	X	57.9	X	--
End Use Not Reported	0.4	0.0	X	X	14.4	0.0	X	0.0

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	0.7	0.4	X	0.1	1.0	6.3	0.0	0.1
Indirect Uses-Boiler Fuel	--	16.6	X	X	20.4	X	X	--
Conventional Boiler Use	--	16.6	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	23.7	X	X	--
Direct Uses-Total Process	--	0.4	X	0.1	0.7	0.4	0.0	--
Process Heating	--	0.8	X	0.0	0.7	0.0	0.0	--
Process Cooling and Refrigeration	--	0.3	X	X	0.0	X	X	--
Machine Drive	--	0.5	X	0.1	2.3	5.5	X	--
Electro-Chemical Processes	--	2.2	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	X	X	--
Direct Uses-Total Nonprocess	--	0.9	X	0.1	2.0	7.2	X	--
Facility HVAC (g)	--	1.5	X	0.4	2.4	0.0	X	--
Facility Lighting	--	0.7	--	--	--	--	--	--
Other Facility Support	--	1.2	X	0.1	0.5	X	X	--
Onsite Transportation	--	5.9	--	0.0	0.0	7.2	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	5.9	X	0.0	X	X	X	--
End Use Not Reported	0.1	0.0	X	X	X	X	X	0.1

331 PRIMARY METALS

TOTAL FUEL CONSUMPTION	0.3	1.1	0.3	0.9	0.2	2.2	0.1	0.1
Indirect Uses-Boiler Fuel	--	5.2	0.0	0.0	0.5	2.4	X	--
Conventional Boiler Use	--	5.2	0.0	0.0	0.3	2.5	X	--
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.7	4.1	X	--
Direct Uses-Total Process	--	0.9	89.7	0.5	0.2	1.7	0.1	--
Process Heating	--	1.3	X	5.2	0.2	2.0	0.1	--
Process Cooling and Refrigeration	--	0.6	X	0.0	0.2	0.6	X	--
Machine Drive	--	1.5	89.7	0.3	5.2	5.1	X	--
Electro-Chemical Processes	--	0.2	--	--	--	--	--	--
Other Process Use	--	0.4	X	0.0	0.3	3.6	0.0	--
Direct Uses-Total Nonprocess	--	2.7	X	1.1	0.7	3.6	X	--

Facility HVAC (g)	--	3.1	X	4.0	0.8	19.0	X	--
Facility Lighting	--	3.1	--	--	--	--	--	--
Other Facility Support	--	1.3	X	8.5	1.1	3.8	X	--
Onsite Transportation	--	2.0	--	1.1	2.1	2.8	--	--
Conventional Electricity Generation	--	--	X	0.3	1.4	8.3	X	--
Other Nonprocess Use	--	4.3	X	2.2	0.1	0.7	X	--
End Use Not Reported	0.1	5.9	X	X	2.2	5.8	X	0.1

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	--	0.0	0.0	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	0.0	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	0.0	--
Process Heating	--	0.0	X	0.0	0.0	0.0	0.0	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	0.0	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	0.0	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	0.0	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	0.0	X	--
Other Nonprocess Use	--	0.0	X	0.0	0.0	0.0	X	--
End Use Not Reported	0.0	0.0	X	X	0.0	0.0	X	0.0

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	9.7	17.6	X	11.1	3.9	15.4	0.0	12.5
Indirect Uses-Boiler Fuel	--	42.2	X	0.0	10.8	66.2	X	--
Conventional Boiler Use	--	42.2	X	X	6.0	72.5	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	16.1	26.0	X	--
Direct Uses-Total Process	--	16.4	X	2.0	3.3	20.7	0.0	--
Process Heating	--	30.9	X	0.0	3.4	33.2	0.0	--
Process Cooling and Refrigeration	--	2.2	X	X	0.0	0.0	X	--
Machine Drive	--	15.7	X	2.1	25.8	28.8	X	--
Electro-Chemical Processes	--	2.1	--	--	--	--	--	--

Other Process Use	--	5.0	X	0.0	0.5	50.7	X	--
Direct Uses-Total Nonprocess	--	26.0	X	13.7	4.8	17.3	X	--
Facility HVAC (g)	--	29.0	X	45.2	5.1	54.6	X	--
Facility Lighting	--	28.7	--	--	--	--	--	--
Other Facility Support	--	12.9	X	0.0	10.7	68.2	X	--
Onsite Transportation	--	8.4	--	13.8	X	12.4	--	--
Conventional Electricity Generation	--	--	X	0.0	3.2	63.9	X	--
Other Nonprocess Use	--	4.1	X	X	X	73.7	X	--
End Use Not Reported	12.2	90.8	X	X	X	7.9	X	12.5

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	0.2	0.1	X	0.7	0.4	1.0	X	0.1
Indirect Uses-Boiler Fuel	--	0.1	X	0.0	0.1	13.4	X	--
Conventional Boiler Use	--	0.1	X	X	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.1	13.8	X	--
Direct Uses-Total Process	--	0.1	X	0.0	0.5	1.0	X	--
Process Heating	--	1.0	X	0.0	0.5	1.7	X	--
Process Cooling and Refrigeration	--	0.8	X	X	6.3	0.0	X	--
Machine Drive	--	0.3	X	0.0	3.5	0.1	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.1	X	0.0	0.1	0.0	X	--
Direct Uses-Total Nonprocess	--	0.2	X	0.9	0.3	1.2	X	--
Facility HVAC (g)	--	0.4	X	0.0	0.3	0.1	X	--
Facility Lighting	--	0.2	--	--	--	--	--	--
Other Facility Support	--	0.2	X	9.7	0.6	0.0	X	--
Onsite Transportation	--	1.0	--	0.9	27.8	2.3	--	--
Conventional Electricity Generation	--	--	X	X	0.1	0.0	X	--
Other Nonprocess Use	--	0.2	X	0.0	X	0.0	X	--
End Use Not Reported	0.1	0.0	X	X	0.1	0.2	X	0.1

331314 Secondary Smelting and Alloying of Aluminum

TOTAL FUEL CONSUMPTION	2.1	1.5	X	2.8	2.3	1.1	X	2.8
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	1.6	X	0.0	2.4	0.0	X	--
Process Heating	--	3.7	X	X	2.4	0.0	X	--
Process Cooling and Refrigeration	--	2.6	X	X	0.0	X	X	--

Machine Drive	--	1.9	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	X	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	3.1	X	3.4	1.8	1.3	X	--
Facility HVAC (g)	--	4.8	X	0.0	1.8	0.6	X	--
Facility Lighting	--	1.7	--	--	--	--	--	--
Other Facility Support	--	3.3	X	9.7	3.8	0.0	X	--
Onsite Transportation	--	0.0	--	3.4	X	13.3	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	28.2	X	0.0	X	0.0	X	--
End Use Not Reported	2.0	X	X	X	X	1.0	X	2.8

331315 Aluminum Sheet, Plate and Foils

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	X	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	X	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	X	0.0	X	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	X	X	X	X	--
Other Nonprocess Use	--	X	X	0.0	X	0.0	X	--
End Use Not Reported	0.0	X	X	X	X	X	X	0.0

331318 Other Aluminum Rolling, Drawing and Extruding

TOTAL FUEL CONSUMPTION	0.6	1.2	X	0.3	0.4	2.3	X	0.8
Indirect Uses-Boiler Fuel	--	0.3	X	X	0.5	13.6	X	--
Conventional Boiler Use	--	0.3	X	X	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.7	14.0	X	--
Direct Uses-Total Process	--	1.4	X	0.0	0.5	2.1	X	--

Process Heating	--	2.8	X	0.0	0.4	2.7	X	--
Process Cooling and Refrigeration	--	2.0	X	X	8.7	0.0	X	--
Machine Drive	--	1.2	X	X	4.0	0.1	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.8	X	X	3.2	0.0	X	--
Direct Uses-Total Nonprocess	--	0.8	X	0.3	1.3	2.8	X	--
Facility HVAC (g)	--	1.0	X	0.0	1.3	0.0	X	--
Facility Lighting	--	0.9	--	--	--	--	--	--
Other Facility Support	--	1.8	X	X	2.4	0.0	X	--
Onsite Transportation	--	2.0	--	0.3	27.8	3.0	--	--
Conventional Electricity Generation	--	--	X	X	72.2	X	X	--
Other Nonprocess Use	--	1.6	X	X	X	0.0	X	--
End Use Not Reported	0.1	0.0	X	X	0.0	0.0	X	0.8

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	1.0	0.9	X	5.2	1.3	1.9	X	7.5
Indirect Uses-Boiler Fuel	--	3.3	X	0.0	1.0	0.0	X	--
Conventional Boiler Use	--	3.3	X	X	0.7	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	1.4	0.0	X	--
Direct Uses-Total Process	--	0.8	X	1.7	1.6	0.8	X	--
Process Heating	--	1.7	X	0.0	1.6	0.2	X	--
Process Cooling and Refrigeration	--	1.5	X	X	0.0	0.0	X	--
Machine Drive	--	1.7	X	2.3	15.3	6.3	X	--
Electro-Chemical Processes	--	0.9	--	--	--	--	--	--
Other Process Use	--	1.4	X	X	4.1	31.4	X	--
Direct Uses-Total Nonprocess	--	2.1	X	8.2	5.9	5.0	X	--
Facility HVAC (g)	--	2.1	X	0.6	6.1	21.0	X	--
Facility Lighting	--	2.1	--	--	--	--	--	--
Other Facility Support	--	5.2	X	60.2	7.5	4.6	X	--
Onsite Transportation	--	9.0	--	9.4	0.0	3.6	--	--
Conventional Electricity Generation	--	--	X	0.9	3.5	0.0	X	--
Other Nonprocess Use	--	0.3	X	0.1	14.2	43.8	X	--
End Use Not Reported	7.1	2.0	X	X	26.7	12.2	X	7.5

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

TOTAL FUEL CONSUMPTION	0.8	0.6	X	0.2	1.3	3.1	X	0.1
Indirect Uses-Boiler Fuel	--	0.0	X	0.0	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--

CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0	X	--
Direct Uses-Total Process	--	0.6	X	0.0	0.1	0.4	X	--
Process Heating	--	0.2	X	0.0	0.1	0.0	X	--
Process Cooling and Refrigeration	--	0.7	X	X	0.0	X	X	--
Machine Drive	--	1.0	X	0.0	0.0	0.7	X	--
Electro-Chemical Processes	--	0.9	--	--	--	--	--	--
Other Process Use	--	1.6	X	X	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	1.4	X	0.4	17.7	8.4	X	--
Facility HVAC (g)	--	1.9	X	0.0	19.7	0.0	X	--
Facility Lighting	--	1.5	--	--	--	--	--	--
Other Facility Support	--	2.2	X	60.2	35.3	0.0	X	--
Onsite Transportation	--	0.0	--	0.1	0.0	9.5	--	--
Conventional Electricity Generation	--	--	X	2.9	0.0	X	X	--
Other Nonprocess Use	--	X	X	0.0	X	69.2	X	--
End Use Not Reported	0.1	0.0	X	X	X	0.0	X	0.1

3315 Foundries

TOTAL FUEL CONSUMPTION	0.9	0.9	89.7	1.6	0.9	1.8	0.9	4.2
Indirect Uses-Boiler Fuel	--	8.2	X	0.0	4.9	0.0	X	--
Conventional Boiler Use	--	8.2	X	0.0	16.2	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	4.7	0.0	X	--
Direct Uses-Total Process	--	0.9	89.7	8.9	0.9	3.4	0.9	--
Process Heating	--	1.0	X	12.9	1.0	4.4	45.8	--
Process Cooling and Refrigeration	--	4.2	X	0.0	1.3	37.4	X	--
Machine Drive	--	1.1	89.7	1.8	4.7	5.6	X	--
Electro-Chemical Processes	--	42.7	--	--	--	--	--	--
Other Process Use	--	2.5	X	0.0	7.2	0.6	0.0	--
Direct Uses-Total Nonprocess	--	1.5	X	1.2	1.8	2.2	X	--
Facility HVAC (g)	--	2.0	X	43.1	1.9	2.4	X	--
Facility Lighting	--	1.1	--	--	--	--	--	--
Other Facility Support	--	2.5	X	11.8	4.5	26.9	X	--
Onsite Transportation	--	5.3	--	1.0	8.1	2.5	--	--
Conventional Electricity Generation	--	--	X	0.0	3.6	X	X	--
Other Nonprocess Use	--	40.9	X	15.4	1.7	6.7	X	--
End Use Not Reported	3.9	7.6	X	X	1.0	11.7	X	4.2

331511 Iron Foundries

TOTAL FUEL CONSUMPTION	1.7	1.5	X	0.8	2.0	4.5	0.0	4.2
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Indirect Uses-Boiler Fuel	--	14.5	X	0.0	27.3	0.0	X	--
Conventional Boiler Use	--	14.5	X	0.0	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	35.2	X	X	--
Direct Uses-Total Process	--	1.5	X	0.5	1.6	9.9	0.0	--
Process Heating	--	1.3	X	0.1	1.9	19.4	X	--
Process Cooling and Refrigeration	--	1.8	X	X	96.5	96.5	X	--
Machine Drive	--	1.9	X	5.6	0.1	14.2	X	--
Electro-Chemical Processes	--	50.2	--	--	--	--	--	--
Other Process Use	--	3.3	X	X	1.4	0.1	0.0	--
Direct Uses-Total Nonprocess	--	2.9	X	0.9	3.4	4.9	X	--
Facility HVAC (g)	--	4.5	X	8.9	3.5	1.7	X	--
Facility Lighting	--	2.0	--	--	--	--	--	--
Other Facility Support	--	4.5	X	X	2.8	23.0	X	--
Onsite Transportation	--	10.9	--	0.9	49.4	6.8	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	0.0	X	36.4	0.0	7.4	X	--
End Use Not Reported	4.1	0.0	X	X	0.0	14.0	X	4.2

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	1.3	1.2	89.7	5.6	1.6	1.4	X	0.5
Indirect Uses-Boiler Fuel	--	2.7	X	0.0	2.9	0.0	X	--
Conventional Boiler Use	--	2.7	X	0.0	8.8	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	0.0	3.3	0.0	X	--
Direct Uses-Total Process	--	1.3	89.7	0.0	1.8	0.8	X	--
Process Heating	--	2.6	X	0.0	1.9	0.6	X	--
Process Cooling and Refrigeration	--	1.8	X	0.0	4.2	45.1	X	--
Machine Drive	--	1.7	89.7	0.0	10.5	14.9	X	--
Electro-Chemical Processes	--	4.1	--	--	--	--	--	--
Other Process Use	--	0.1	X	0.0	0.6	74.8	X	--
Direct Uses-Total Nonprocess	--	1.1	X	6.8	1.4	3.0	X	--
Facility HVAC (g)	--	0.9	X	0.0	1.5	1.5	X	--
Facility Lighting	--	1.4	--	--	--	--	--	--
Other Facility Support	--	3.5	X	0.0	4.9	58.3	X	--
Onsite Transportation	--	4.7	--	10.4	14.7	3.1	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	X	X	--
End Use Not Reported	0.9	0.7	X	X	1.1	0.0	X	0.5

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	1.0	1.1	X	1.6	1.3	2.9	X	3.3
Indirect Uses-Boiler Fuel	--	4.4	X	X	0.1	0.0	X	--
Conventional Boiler Use	--	4.4	X	X	4.5	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.1	0.0	X	--
Direct Uses-Total Process	--	1.0	X	23.7	1.4	4.3	X	--
Process Heating	--	1.9	X	41.1	1.5	4.6	X	--
Process Cooling and Refrigeration	--	7.1	X	X	0.1	0.0	X	--
Machine Drive	--	1.0	X	6.9	1.1	1.3	X	--
Electro-Chemical Processes	--	0.3	--	--	--	--	--	--
Other Process Use	--	20.4	X	0.0	25.7	0.0	X	--
Direct Uses-Total Nonprocess	--	1.7	X	0.0	1.4	1.5	X	--
Facility HVAC (g)	--	1.7	X	0.0	1.6	5.0	X	--
Facility Lighting	--	2.3	--	--	--	--	--	--
Other Facility Support	--	5.0	X	0.0	3.1	85.4	X	--
Onsite Transportation	--	3.9	--	0.0	0.1	1.3	--	--
Conventional Electricity Generation	--	--	X	X	3.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	X	X	--
End Use Not Reported	27.0	24.4	X	X	0.0	80.9	X	3.3

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	11.4	10.0	X	69.1	16.1	18.3	70.3	47.4
Indirect Uses-Boiler Fuel	--	40.3	X	99.5	35.3	77.6	X	--
Conventional Boiler Use	--	40.3	X	X	59.0	99.5	X	--
CHP and/or Cogeneration Process	--	X	X	99.5	40.8	99.5	X	--
Direct Uses-Total Process	--	10.8	X	55.1	21.5	40.3	X	--
Process Heating	--	19.3	X	X	22.4	57.1	X	--
Process Cooling and Refrigeration	--	34.3	X	X	95.5	X	X	--
Machine Drive	--	11.5	X	61.1	62.2	50.9	X	--
Electro-Chemical Processes	--	70.4	--	--	--	--	--	--
Other Process Use	--	33.3	X	99.5	91.8	87.8	X	--
Direct Uses-Total Nonprocess	--	11.8	X	74.5	14.5	21.4	70.3	--
Facility HVAC (g)	--	13.1	X	99.5	14.3	35.9	70.3	--
Facility Lighting	--	13.2	--	--	--	--	--	--
Other Facility Support	--	16.8	X	99.5	45.8	97.6	X	--
Onsite Transportation	--	31.9	--	83.5	68.5	26.5	--	--
Conventional Electricity Generation	--	--	X	99.5	95.5	X	X	--
Other Nonprocess Use	--	49.1	X	99.5	X	96.5	X	--
End Use Not Reported	39.1	54.7	X	X	76.1	59.0	X	47.4

MACHINERY

TOTAL FUEL CONSUMPTION	11.9	17.2	99.0	29.7	13.0	28.0	99.0	48.5
Indirect Uses-Boiler Fuel	--	40.1	99.0	0.0	24.0	86.0	X	--
Conventional Boiler Use	--	40.1	X	X	53.4	X	X	--
CHP and/or Cogeneration Process	--	X	99.0	0.0	25.9	86.0	X	--
Direct Uses-Total Process	--	20.1	X	38.6	23.6	63.5	X	--
Process Heating	--	24.0	X	99.0	28.6	70.6	X	--
Process Cooling and Refrigeration	--	20.2	X	X	71.2	X	X	--
Machine Drive	--	23.9	X	52.0	41.0	47.1	X	--
Electro-Chemical Processes	--	56.2	--	--	--	--	--	--
Other Process Use	--	49.5	X	39.6	38.5	56.3	X	--
Direct Uses-Total Nonprocess	--	15.5	99.0	44.2	13.1	20.9	99.0	--
Facility HVAC (g)	--	14.3	99.0	58.4	13.3	34.5	99.0	--
Facility Lighting	--	18.8	--	--	--	--	--	--
Other Facility Support	--	20.0	X	X	37.0	94.2	X	--
Onsite Transportation	--	21.3	--	55.0	49.4	21.0	--	--
Conventional Electricity Generation	--	--	X	79.4	60.8	99.0	X	--
Other Nonprocess Use	--	75.7	X	38.8	41.9	24.1	X	--
End Use Not Reported	47.6	74.4	X	X	94.8	59.5	X	48.5

COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	6.0	6.7	0.0	57.2	10.4	48.0	X	35.1
Indirect Uses-Boiler Fuel	--	27.7	0.0	23.7	11.6	0.0	X	--
Conventional Boiler Use	--	27.7	X	13.5	15.6	0.0	X	--
CHP and/or Cogeneration Process	--	X	0.0	26.4	8.5	X	X	--
Direct Uses-Total Process	--	7.6	X	88.3	16.7	69.0	X	--
Process Heating	--	8.6	X	88.8	9.7	74.1	X	--
Process Cooling and Refrigeration	--	22.4	X	X	39.8	X	X	--
Machine Drive	--	5.9	X	28.2	74.9	71.8	X	--
Electro-Chemical Processes	--	12.7	--	--	--	--	--	--
Other Process Use	--	3.9	X	27.9	7.1	X	X	--
Direct Uses-Total Nonprocess	--	7.9	0.0	39.4	17.1	54.6	X	--
Facility HVAC (g)	--	7.3	0.0	64.6	18.4	82.7	X	--
Facility Lighting	--	14.7	--	--	--	--	--	--
Other Facility Support	--	9.9	X	59.2	22.9	55.0	X	--
Onsite Transportation	--	21.7	--	13.6	96.2	42.5	--	--
Conventional Electricity Generation	--	--	X	5.6	96.2	X	X	--
Other Nonprocess Use	--	21.6	X	11.0	3.1	9.6	X	--

End Use Not Reported	24.8	28.0	X	X	29.2	0.0	X	35.1
334413 Semiconductors and Related Devices								
TOTAL FUEL CONSUMPTION	3.3	3.3	0.0	1.2	3.6	13.2	X	6.0
Indirect Uses-Boiler Fuel	--	6.2	0.0	0.0	1.2	0.0	X	--
Conventional Boiler Use	--	6.2	X	0.0	1.6	0.0	X	--
CHP and/or Cogeneration Process	--	X	0.0	0.0	2.0	X	X	--
Direct Uses-Total Process	--	2.3	X	22.6	3.5	65.3	X	--
Process Heating	--	5.8	X	X	1.6	65.3	X	--
Process Cooling and Refrigeration	--	3.4	X	X	X	X	X	--
Machine Drive	--	3.4	X	28.2	X	X	X	--
Electro-Chemical Processes	--	6.6	--	--	--	--	--	--
Other Process Use	--	2.7	X	27.9	7.2	X	X	--
Direct Uses-Total Nonprocess	--	7.3	X	3.4	10.1	12.7	X	--
Facility HVAC (g)	--	8.2	X	23.2	12.0	65.3	X	--
Facility Lighting	--	4.8	--	--	--	--	--	--
Other Facility Support	--	2.2	X	59.2	2.5	3.7	X	--
Onsite Transportation	--	5.0	--	0.1	X	0.6	--	--
Conventional Electricity Generation	--	--	X	2.0	X	X	X	--
Other Nonprocess Use	--	21.9	X	5.7	1.4	0.0	X	--
End Use Not Reported	1.1	1.2	X	X	0.0	0.0	X	6.0

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	10.7	8.8	47.2	23.6	15.1	24.5	X	51.4
Indirect Uses-Boiler Fuel	--	74.6	X	91.3	35.0	98.9	X	--
Conventional Boiler Use	--	74.6	X	91.3	31.7	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	53.9	98.9	X	--
Direct Uses-Total Process	--	8.5	X	62.3	17.0	61.8	X	--
Process Heating	--	16.3	X	X	18.1	63.8	X	--
Process Cooling and Refrigeration	--	16.1	X	X	66.7	X	X	--
Machine Drive	--	10.0	X	41.4	50.5	X	X	--
Electro-Chemical Processes	--	42.5	--	--	--	--	--	--
Other Process Use	--	29.8	X	98.4	52.4	79.4	X	--
Direct Uses-Total Nonprocess	--	12.4	47.2	25.6	13.9	25.5	X	--
Facility HVAC (g)	--	12.2	X	X	13.1	44.4	X	--
Facility Lighting	--	14.2	--	--	--	--	--	--
Other Facility Support	--	14.1	X	X	40.7	X	X	--
Onsite Transportation	--	22.3	--	26.8	87.7	26.4	--	--

Conventional Electricity Generation	--	--	X	86.8	87.7	X	X	--
Other Nonprocess Use	--	85.5	47.2	48.4	95.7	95.9	X	--
End Use Not Reported	40.0	58.2	X	X	58.4	55.0	X	51.4

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	7.9	9.2	10.2	26.4	8.5	13.5	X	6.8
Indirect Uses-Boiler Fuel	--	7.0	0.0	2.4	6.1	33.4	X	--
Conventional Boiler Use	--	7.0	0.0	0.0	4.9	37.2	X	--
CHP and/or Cogeneration Process	--	X	0.0	65.7	11.8	58.9	X	--
Direct Uses-Total Process	--	11.6	91.0	43.2	13.8	20.5	X	--
Process Heating	--	23.6	X	X	14.7	27.7	X	--
Process Cooling and Refrigeration	--	30.2	X	X	24.7	21.6	X	--
Machine Drive	--	13.6	X	48.4	19.8	70.6	X	--
Electro-Chemical Processes	--	17.6	--	--	--	--	--	--
Other Process Use	--	21.6	91.0	32.8	37.6	32.6	X	--
Direct Uses-Total Nonprocess	--	6.6	61.5	21.8	14.4	15.3	X	--
Facility HVAC (g)	--	6.9	X	34.3	15.3	17.8	X	--
Facility Lighting	--	10.1	--	--	--	--	--	--
Other Facility Support	--	9.3	X	0.2	12.7	11.5	X	--
Onsite Transportation	--	17.9	--	24.0	47.3	17.3	--	--
Conventional Electricity Generation	--	--	X	38.5	1.1	0.0	X	--
Other Nonprocess Use	--	26.8	61.5	16.4	8.4	25.6	X	--
End Use Not Reported	9.4	56.0	X	X	38.5	7.1	X	6.8

336111 Automobiles

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	X	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	X	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	0.0	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	0.0	0.0	0.0	X	--
Direct Uses-Total Nonprocess	--	0.0	X	0.0	0.0	0.0	X	--
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--

Other Facility Support	--	0.0	X	X	0.0	0.0	X	--
Onsite Transportation	--	0.0	--	0.0	X	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	0.0	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	0.0	X	--
End Use Not Reported	0.0	0.0	X	X	0.0	0.0	X	0.0

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Indirect Uses-Boiler Fuel	--	0.0	X	X	0.0	0.0	X	--
Conventional Boiler Use	--	0.0	X	X	0.0	0.0	X	--
CHP and/or Cogeneration Process	--	X	X	X	0.0	X	X	--
Direct Uses-Total Process	--	0.0	X	0.0	0.0	0.0	X	--
Process Heating	--	0.0	X	X	0.0	0.0	X	--
Process Cooling and Refrigeration	--	0.0	X	X	0.0	X	X	--
Machine Drive	--	0.0	X	0.0	0.0	0.0	X	--
Electro-Chemical Processes	--	0.0	--	--	--	--	--	--
Other Process Use	--	0.0	X	X	0.0	0.0	X	--
<i>Direct Uses-Total Nonprocess</i>	<i>--</i>	<i>0.0</i>	<i>X</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>X</i>	<i>--</i>
Facility HVAC (g)	--	0.0	X	X	0.0	0.0	X	--
Facility Lighting	--	0.0	--	--	--	--	--	--
Other Facility Support	--	0.0	X	0.0	0.0	X	X	--
Onsite Transportation	--	0.0	--	0.0	0.0	0.0	--	--
Conventional Electricity Generation	--	--	X	0.0	0.0	X	X	--
Other Nonprocess Use	--	0.0	X	0.0	X	X	X	--
End Use Not Reported	0.0	X	X	X	0.0	0.0	X	0.0

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	3.0	4.2	0.0	3.9	2.8	18.5	X	0.9
Indirect Uses-Boiler Fuel	--	12.7	0.0	2.4	2.6	36.7	X	--
Conventional Boiler Use	--	12.7	X	0.0	4.2	38.9	X	--
CHP and/or Cogeneration Process	--	X	0.0	65.7	1.0	0.0	X	--
Direct Uses-Total Process	--	3.6	X	4.5	4.1	7.0	X	--
Process Heating	--	3.2	X	X	5.0	0.8	X	--
Process Cooling and Refrigeration	--	5.7	X	X	0.0	22.0	X	--
Machine Drive	--	4.1	X	0.0	7.8	61.7	X	--
Electro-Chemical Processes	--	16.0	--	--	--	--	--	--
Other Process Use	--	11.2	X	5.4	6.0	14.5	X	--
Direct Uses-Total Nonprocess	--	6.3	X	8.3	2.7	21.3	X	--

Facility HVAC (g)	--	10.2	X	0.0	3.1	35.7	X	--
Facility Lighting	--	3.5	--	--	--	--	--	--
Other Facility Support	--	2.6	X	1.6	2.0	2.6	X	--
Onsite Transportation	--	5.1	--	9.7	2.0	6.7	--	--
Conventional Electricity Generation	--	--	X	31.4	45.9	0.0	X	--
Other Nonprocess Use	--	3.7	X	0.8	0.8	0.4	X	--
End Use Not Reported	8.1	28.5	X	X	59.3	12.9	X	0.9

336411 Aircraft

TOTAL FUEL CONSUMPTION	5.6	10.0	X	8.0	1.6	52.7	X	0.1
Indirect Uses-Boiler Fuel	--	4.2	X	0.0	0.7	74.6	X	--
Conventional Boiler Use	--	4.2	X	0.0	0.1	74.6	X	--
CHP and/or Cogeneration Process	--	X	X	X	29.0	X	X	--
Direct Uses-Total Process	--	2.8	X	0.0	5.1	X	X	--
Process Heating	--	5.2	X	X	4.6	X	X	--
Process Cooling and Refrigeration	--	4.1	X	X	0.0	X	X	--
Machine Drive	--	3.0	X	0.0	25.6	X	X	--
Electro-Chemical Processes	--	6.3	--	--	--	--	--	--
Other Process Use	--	11.6	X	0.0	0.0	X	X	--
Direct Uses-Total Nonprocess	--	14.8	X	10.6	1.8	54.6	X	--
Facility HVAC (g)	--	22.3	X	X	1.9	88.6	X	--
Facility Lighting	--	2.4	--	--	--	--	--	--
Other Facility Support	--	1.7	X	0.0	1.1	X	X	--
Onsite Transportation	--	0.5	--	11.1	0.0	7.4	--	--
Conventional Electricity Generation	--	--	X	0.0	X	X	X	--
Other Nonprocess Use	--	73.8	X	15.6	X	X	X	--
End Use Not Reported	0.1	0.0	X	X	X	47.4	X	0.1

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	11.3	8.6	X	60.4	12.4	24.6	75.8	49.1
Indirect Uses-Boiler Fuel	--	40.7	X	86.7	36.6	96.1	X	--
Conventional Boiler Use	--	40.7	X	X	37.0	99.0	X	--
CHP and/or Cogeneration Process	--	X	X	86.7	50.4	90.9	X	--
Direct Uses-Total Process	--	10.2	X	97.4	19.6	61.1	75.8	--
Process Heating	--	24.2	X	X	21.8	70.3	75.8	--
Process Cooling and Refrigeration	--	28.5	X	X	78.7	99.0	X	--
Machine Drive	--	10.7	X	97.4	64.7	93.7	X	--
Electro-Chemical Processes	--	90.2	--	--	--	--	--	--

Other Process Use	--	41.7	X	X	63.5	63.7	X	--
Direct Uses-Total Nonprocess	--	9.5	X	57.1	14.9	27.4	75.8	--
Facility HVAC (g)	--	12.2	X	79.0	13.2	55.9	75.8	--
Facility Lighting	--	9.1	--	--	--	--	--	--
Other Facility Support	--	18.3	X	X	77.4	99.0	X	--
Onsite Transportation	--	22.0	--	30.2	81.7	20.6	--	--
Conventional Electricity Generation	--	--	X	78.8	52.4	99.0	X	--
Other Nonprocess Use	--	63.6	X	84.4	X	0.0	X	--
End Use Not Reported	43.0	59.9	X	X	78.3	90.6	X	49.1

339 MISCELLANEOUS

TOTAL FUEL CONSUMPTION	12.2	11.1	X	59.8	17.6	45.0	99.0	6.7
Indirect Uses-Boiler Fuel	--	33.3	X	99.0	35.8	87.5	X	--
Conventional Boiler Use	--	33.3	X	X	25.6	88.1	X	--
CHP and/or Cogeneration Process	--	X	X	99.0	45.3	99.0	X	--
Direct Uses-Total Process	--	11.8	X	19.5	23.9	64.7	99.0	--
Process Heating	--	19.6	X	0.0	26.0	70.1	99.0	--
Process Cooling and Refrigeration	--	26.0	X	X	58.8	X	X	--
Machine Drive	--	10.7	X	93.4	46.2	59.3	X	--
Electro-Chemical Processes	--	63.3	--	--	--	--	--	--
Other Process Use	--	61.8	X	X	64.9	X	X	--
Direct Uses-Total Nonprocess	--	11.9	X	65.0	17.7	36.6	X	--
Facility HVAC (g)	--	10.5	X	69.8	15.0	43.3	X	--
Facility Lighting	--	11.8	--	--	--	--	--	--
Other Facility Support	--	12.8	X	0.0	27.3	97.3	X	--
Onsite Transportation	--	17.7	--	24.4	91.6	56.8	--	--
Conventional Electricity Generation	--	--	X	92.6	93.9	X	X	--
Other Nonprocess Use	--	84.2	X	28.0	98.9	72.5	X	--
End Use Not Reported	6.7	46.3	X	X	82.6	82.9	X	6.7

- (a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).
- (b) *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).
- (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) Hydrocarbon Gas Liquids (*HGL*) include 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) *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.
- (g) Facility Heating, Ventilation, and Air Conditioning (*Facility HVAC*) excludes steam and hot water.

* Estimate less than 0.5.
D=Withheld to avoid disclosing data for individual establishments.

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

X=Not defined because RSE corresponds to a data table value of zero.

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: Totals may not equal sum of 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.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).