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 Next MECS will be fielded in 2019

Table 5.4 End Uses of Fuel Consumption, 2014;

Level: National Data;
 Row: End Uses within NAICS Codes;
 Column: Energy Sources, including Net Demand for Electricity;
 Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal (excluding Coal Coke and Breeze)
Total United States							
311 - 339	ALL MANUFACTURING INDUSTRIES						
	TOTAL FUEL CONSUMPTION	3,050	30	99	5,858	84	776
	Indirect Uses-Boiler Fuel	52	21	12	2,305	8	393
	Conventional Boiler Use	52	11	4	756	4	48
	CHP and/or Cogeneration Process	--	10	9	1,549	3	344
	Direct Uses-Total Process	2,399	8	26	2,953	43	298
	Process Heating	362	7	5	2,590	37	280
	Process Cooling and Refrigeration	215	*	*	27	*	0
	Machine Drive	1,523	*	13	162	3	1
	Electro-Chemical Processes	230	--	--	--	--	--
	Other Process Use	68	*	8	173	3	17
	Direct Uses-Total Nonprocess	550	1	58	433	27	4
	Facility HVAC (f)	278	*	4	369	7	3
	Facility Lighting	189	--	--	--	--	--
	Other Facility Support	57	*	2	41	*	*
	Onsite Transportation	14	--	39	2	20	--
	Conventional Electricity Generation	--	*	3	12	*	2
	Other Nonprocess Use	12	*	11	8	*	*
	End Use Not Reported	50	*	3	168	5	81
311	FOOD						
	TOTAL FUEL CONSUMPTION	262	4	20	570	6	110
	Indirect Uses-Boiler Fuel	8	3	4	330	2	74
	Conventional Boiler Use	8	2	1	147	1	12
	CHP and/or Cogeneration Process	--	1	3	183	1	62
	Direct Uses-Total Process	198	*	3	181	2	14
	Process Heating	11	*	*	162	1	14
	Process Cooling and Refrigeration	68	*	*	3	*	0
	Machine Drive	113	*	1	4	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	5	0	Q	11	*	0
	Direct Uses-Total Nonprocess	50	*	12	49	2	*
	Facility HVAC (f)	22	*	1	33	1	*
	Facility Lighting	19	--	--	--	--	--
	Other Facility Support	5	*	1	15	*	*
	Onsite Transportation	2	--	5	*	1	--
	Conventional Electricity Generation	--	0	Q	*	*	0
	Other Nonprocess Use	1	0	3	1	*	0
	End Use Not Reported	6	0	*	10	*	22
3112	Grain and Oilseed Milling						
	TOTAL FUEL CONSUMPTION	53	*	1	133	*	65
	Indirect Uses-Boiler Fuel	2	*	*	86	*	42
	Conventional Boiler Use	2	0	*	50	*	12
	CHP and/or Cogeneration Process	--	*	*	36	*	30
	Direct Uses-Total Process	46	*	*	42	*	1

Process Heating	1	*	*	35	*	1
Process Cooling and Refrigeration	5	0	*	2	0	0
Machine Drive	39	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	5	*	0
Direct Uses-Total Nonprocess	5	*	1	4	*	*
Facility HVAC (f)	2	*	*	3	*	*
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	0	*	1	*	*
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	22

311221 Wet Corn Milling

TOTAL FUEL CONSUMPTION	25	0	*	48	*	55
Indirect Uses-Boiler Fuel	1	0	*	32	0	33
Conventional Boiler Use	1	0	*	18	0	9
CHP and/or Cogeneration Process	--	0	0	14	0	23
Direct Uses-Total Process	22	0	*	15	*	1
Process Heating	*	0	*	15	*	1
Process Cooling and Refrigeration	4	0	0	*	0	0
Machine Drive	18	0	*	*	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	0	*	0	0
Direct Uses-Total Nonprocess	2	0	*	1	*	0
Facility HVAC (f)	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	0
End Use Not Reported	0	0	0	0	*	22

31131 Sugar

TOTAL FUEL CONSUMPTION	10	*	2	16	*	45
Indirect Uses-Boiler Fuel	1	*	1	10	0	32
Conventional Boiler Use	1	*	0	3	0	0
CHP and/or Cogeneration Process	--	*	1	8	0	32
Direct Uses-Total Process	8	*	*	5	0	13
Process Heating	*	0	0	5	0	13
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	7	*	*	0	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	0	0	0	*	0	0
Direct Uses-Total Nonprocess	2	0	1	*	*	0
Facility HVAC (f)	1	0	0	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	1	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	0	0	0	0	*	0

3114 Fruit and Vegetable Preserving and Specialty Foods

TOTAL FUEL CONSUMPTION	34	*	1	105	1	*
Indirect Uses-Boiler Fuel	1	*	*	69	*	*
Conventional Boiler Use	1	*	*	23	*	0
CHP and/or Cogeneration Process	--	*	*	46	*	*
Direct Uses-Total Process	26	*	*	21	Q	0

Process Heating	2	*	*	20	*	0
Process Cooling and Refrigeration	14	0	*	*	0	0
Machine Drive	9	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	7	*	*	9	1	0
Facility HVAC (f)	3	*	*	7	*	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	*	0
End Use Not Reported	*	0	*	6	*	0

3115 Dairy Products

TOTAL FUEL CONSUMPTION	35	1	3	68	1	*
Indirect Uses-Boiler Fuel	1	1	1	44	*	0
Conventional Boiler Use	1	1	*	21	*	0
CHP and/or Cogeneration Process	--	*	*	23	*	0
Direct Uses-Total Process	26	*	Q	18	*	*
Process Heating	1	*	*	15	*	*
Process Cooling and Refrigeration	12	*	*	*	0	0
Machine Drive	12	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	6	*	1	4	*	*
Facility HVAC (f)	3	*	*	4	*	*
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	0	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	1	*	*	0
End Use Not Reported	2	0	*	2	*	0

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	63	1	5	126	2	*
Indirect Uses-Boiler Fuel	2	1	1	79	1	*
Conventional Boiler Use	2	*	*	30	1	0
CHP and/or Cogeneration Process	--	1	1	49	*	*
Direct Uses-Total Process	48	0	*	27	*	0
Process Heating	3	0	*	22	*	0
Process Cooling and Refrigeration	26	0	*	*	*	0
Machine Drive	18	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	2	0	*	4	*	0
Direct Uses-Total Nonprocess	12	*	4	19	*	0
Facility HVAC (f)	5	0	*	8	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	1	*	*	11	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	2	*	*	0
End Use Not Reported	Q	0	*	1	*	0

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	34	*	1	48	1	7
Indirect Uses-Boiler Fuel	1	*	*	34	*	7
Conventional Boiler Use	1	*	*	21	*	2
CHP and/or Cogeneration Process	--	0	*	13	*	5
Direct Uses-Total Process	22	0	*	6	*	*

Process Heating	1	0	*	6	*	*
Process Cooling and Refrigeration	7	0	0	*	0	0
Machine Drive	13	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	9	0	1	6	1	*
Facility HVAC (f)	4	0	*	5	*	*
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	1	--	*	*	1	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	3	0	*	2	*	0

3121 Beverages

TOTAL FUEL CONSUMPTION	31	0	1	43	1	6
Indirect Uses-Boiler Fuel	1	0	*	31	*	6
Conventional Boiler Use	1	0	*	18	*	2
CHP and/or Cogeneration Process	--	0	*	13	*	4
Direct Uses-Total Process	20	0	*	5	*	0
Process Heating	1	0	*	5	*	0
Process Cooling and Refrigeration	7	0	0	*	0	0
Machine Drive	11	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	8	0	1	5	1	0
Facility HVAC (f)	3	0	*	4	*	0
Facility Lighting	3	--	--	--	--	--
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	3	0	*	2	*	0

3122 Tobacco

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

313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	43	*	*	36	1	6
Indirect Uses-Boiler Fuel	1	*	*	13	*	6
Conventional Boiler Use	1	0	*	4	*	Q
CHP and/or Cogeneration Process	--	*	*	9	*	5
Direct Uses-Total Process	32	*	*	19	*	0

Process Heating	4	*	*	12	*	0
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	26	0	0	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	11	*	*	3	*	0
Facility HVAC (f)	6	*	*	2	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	1	*	0

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	9	*	*	16	1	1
Indirect Uses-Boiler Fuel	*	*	*	7	*	1
Conventional Boiler Use	*	0	*	4	*	*
CHP and/or Cogeneration Process	--	*	*	2	*	1
Direct Uses-Total Process	6	0	*	6	*	0
Process Heating	1	0	*	6	*	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	5	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	3	0	*	4	*	0
Facility HVAC (f)	1	0	*	4	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	*	*	*	0

315 APPAREL

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

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	1	*	*	1	*	0
Indirect Uses-Boiler Fuel	*	*	*	*	0	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	*	*	*	0	0
Direct Uses-Total Process	1	*	*	1	*	0

Process Heating	*	0	*	1	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	1	0	0	*	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	*	0	*	*	0
Direct Uses-Total Nonprocess	*	0	*	*	*	0
Facility HVAC (f)	*	0	*	*	*	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	0
End Use Not Reported	*	0	0	*	*	0

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	76	*	10	49	3	1
Indirect Uses-Boiler Fuel	1	0	*	11	*	1
Conventional Boiler Use	1	0	*	4	*	*
CHP and/or Cogeneration Process	--	0	*	7	*	*
Direct Uses-Total Process	63	*	2	32	1	*
Process Heating	5	*	*	28	1	*
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	56	*	1	2	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	*	Q	2	*	0
Direct Uses-Total Nonprocess	12	0	7	6	2	0
Facility HVAC (f)	6	0	*	6	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	7	*	2	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	1	0	Q	*	*	0

321113 Sawmills

TOTAL FUEL CONSUMPTION	20	*	5	6	*	*
Indirect Uses-Boiler Fuel	*	0	*	2	*	0
Conventional Boiler Use	*	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	17	*	1	4	*	*
Process Heating	2	*	*	4	*	*
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	15	*	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	0	*	0
Direct Uses-Total Nonprocess	2	0	4	*	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	4	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	Q	0	*	0

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	25	0	2	28	1	1
Indirect Uses-Boiler Fuel	1	0	*	4	*	1
Conventional Boiler Use	1	0	*	2	*	*
CHP and/or Cogeneration Process	--	0	*	3	*	*
Direct Uses-Total Process	22	0	*	22	*	0

Process Heating	2	0	*	19	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	19	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	2	*	0
Direct Uses-Total Nonprocess	3	0	1	2	1	0
Facility HVAC (f)	1	0	*	1	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	1	0	1	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	17	0	*	20	*	1
Indirect Uses-Boiler Fuel	*	0	*	3	*	1
Conventional Boiler Use	*	0	0	1	*	*
CHP and/or Cogeneration Process	--	0	*	2	*	*
Direct Uses-Total Process	15	0	*	17	*	0
Process Heating	1	0	*	14	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	13	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	2	*	0
Direct Uses-Total Nonprocess	2	0	*	*	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	0	0	0

3219 Other Wood Products

TOTAL FUEL CONSUMPTION	29	*	3	13	2	0
Indirect Uses-Boiler Fuel	*	0	*	4	*	0
Conventional Boiler Use	*	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	23	*	Q	5	*	0
Process Heating	1	0	*	4	*	0
Process Cooling and Refrigeration	*	0	*	*	0	0
Machine Drive	21	*	*	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	Q	*	*	0
Direct Uses-Total Nonprocess	6	0	2	4	1	0
Facility HVAC (f)	4	0	*	4	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	2	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	*	*	*	0

322 PAPER

TOTAL FUEL CONSUMPTION	339	17	5	436	3	146
Indirect Uses-Boiler Fuel	16	12	2	270	*	134
Conventional Boiler Use	16	5	*	42	0	8
CHP and/or Cogeneration Process	--	8	2	228	*	126
Direct Uses-Total Process	289	4	*	143	*	7

Process Heating	13	4	*	123	*	5
Process Cooling and Refrigeration	6	0	0	*	0	0
Machine Drive	255	*	*	17	*	*
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	12	0	*	3	*	2
Direct Uses-Total Nonprocess	33	*	2	22	2	2
Facility HVAC (f)	15	*	*	17	*	*
Facility Lighting	13	--	--	--	--	--
Other Facility Support	4	0	*	2	*	0
Onsite Transportation	1	--	2	*	2	--
Conventional Electricity Generation	--	*	*	3	*	2
Other Nonprocess Use	Q	*	*	*	*	0
End Use Not Reported	2	*	*	Q	*	3

322110 Pulp Mills

TOTAL FUEL CONSUMPTION	23	2	1	29	*	1
Indirect Uses-Boiler Fuel	1	2	*	15	*	1
Conventional Boiler Use	1	0	*	0	0	0
CHP and/or Cogeneration Process	--	2	*	15	*	1
Direct Uses-Total Process	20	*	*	14	*	0
Process Heating	*	*	*	14	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	19	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	0	0	0	0
Direct Uses-Total Nonprocess	2	0	*	*	*	0
Facility HVAC (f)	1	0	0	*	*	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	0
End Use Not Reported	0	0	0	0	*	0

322121 Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	124	9	2	160	1	93
Indirect Uses-Boiler Fuel	8	7	1	89	*	84
Conventional Boiler Use	8	4	*	15	0	6
CHP and/or Cogeneration Process	--	3	1	75	*	78
Direct Uses-Total Process	105	2	*	65	*	5
Process Heating	5	2	*	49	*	3
Process Cooling and Refrigeration	2	0	0	*	0	0
Machine Drive	97	*	*	15	*	*
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	*	0	*	1	0	2
Direct Uses-Total Nonprocess	11	*	1	6	1	1
Facility HVAC (f)	5	*	*	3	*	*
Facility Lighting	5	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	1	*	1	--
Conventional Electricity Generation	--	*	*	3	0	1
Other Nonprocess Use	0	*	*	*	*	0
End Use Not Reported	0	0	*	0	*	3

322122 Newsprint Mills

TOTAL FUEL CONSUMPTION	29	0	*	8	*	1
Indirect Uses-Boiler Fuel	1	0	*	6	0	1
Conventional Boiler Use	1	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	6	0	1
Direct Uses-Total Process	27	0	*	2	*	0

Process Heating	*	0	0	2	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	16	0	*	0	0	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	9	0	*	*	0	0
Direct Uses-Total Nonprocess	1	0	*	*	*	0
Facility HVAC (f)	*	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	0	0
End Use Not Reported	1	0	0	0	0	0

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	117	5	2	188	1	45
Indirect Uses-Boiler Fuel	5	3	1	140	*	42
Conventional Boiler Use	5	*	*	18	0	1
CHP and/or Cogeneration Process	--	3	1	122	*	41
Direct Uses-Total Process	103	2	*	42	*	3
Process Heating	4	2	*	38	*	3
Process Cooling and Refrigeration	2	0	0	0	0	0
Machine Drive	95	0	*	2	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	2	0	*	2	*	0
Direct Uses-Total Nonprocess	9	*	1	6	*	*
Facility HVAC (f)	4	*	*	5	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	0	1	*	0
Onsite Transportation	*	--	1	0	*	--
Conventional Electricity Generation	--	*	*	*	0	*
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	1	*	*	0	*	0

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	49	*	*	39	1	0
Indirect Uses-Boiler Fuel	*	*	*	7	*	0
Conventional Boiler Use	*	*	*	4	*	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	33	0	*	18	*	0
Process Heating	2	0	0	17	*	0
Process Cooling and Refrigeration	4	0	0	*	0	0
Machine Drive	26	0	*	1	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	1	0	*	Q	*	0
Direct Uses-Total Nonprocess	14	0	*	13	1	0
Facility HVAC (f)	8	0	*	11	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	1	--	*	*	1	--
Conventional Electricity Generation	--	0	*	Q	0	0
Other Nonprocess Use	*	0	*	*	0	0
End Use Not Reported	Q	0	0	1	*	0

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	231	4	11	1,071	36	8
Indirect Uses-Boiler Fuel	2	1	1	349	5	1
Conventional Boiler Use	2	1	*	111	3	0
CHP and/or Cogeneration Process	--	*	1	238	2	1
Direct Uses-Total Process	209	3	5	609	30	8

Process Heating	8	3	2	566	30	0
Process Cooling and Refrigeration	10	*	*	1	*	0
Machine Drive	187	*	2	13	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	2	*	1	30	*	8
Direct Uses-Total Nonprocess	17	*	5	9	*	*
Facility HVAC (f)	9	*	*	5	*	0
Facility Lighting	6	--	--	--	--	--
Other Facility Support	2	0	*	*	*	0
Onsite Transportation	*	--	4	*	*	--
Conventional Electricity Generation	--	0	*	3	*	0
Other Nonprocess Use	*	0	1	*	*	*
End Use Not Reported	3	*	*	104	*	0

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	219	3	6	1,000	35	1
Indirect Uses-Boiler Fuel	1	1	1	332	5	1
Conventional Boiler Use	1	1	*	105	3	0
CHP and/or Cogeneration Process	--	0	*	227	2	1
Direct Uses-Total Process	200	2	1	559	30	0
Process Heating	7	2	*	521	30	0
Process Cooling and Refrigeration	9	0	0	*	*	0
Machine Drive	179	0	1	9	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	2	0	*	28	*	0
Direct Uses-Total Nonprocess	15	0	4	6	*	0
Facility HVAC (f)	8	0	*	2	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	2	0	*	*	*	0
Onsite Transportation	0	--	3	0	*	--
Conventional Electricity Generation	--	0	*	3	*	0
Other Nonprocess Use	*	0	1	*	0	0
End Use Not Reported	2	*	*	104	*	0

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	3	2	5	42	1	0
Indirect Uses-Boiler Fuel	*	0	*	5	*	0
Conventional Boiler Use	*	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	3	2	3	36	1	0
Process Heating	1	1	1	30	1	0
Process Cooling and Refrigeration	*	*	*	*	0	0
Machine Drive	2	*	1	4	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	*	*	2	*	0
Direct Uses-Total Nonprocess	*	*	1	1	*	0
Facility HVAC (f)	*	*	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

324122 Asphalt Shingle and Coating Materials

TOTAL FUEL CONSUMPTION	3	*	*	11	*	*
Indirect Uses-Boiler Fuel	*	*	*	3	*	0
Conventional Boiler Use	*	0	*	1	*	0
CHP and/or Cogeneration Process	--	*	*	2	*	0
Direct Uses-Total Process	2	0	*	7	*	*

Process Heating	*	0	*	7	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	2	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	*
Direct Uses-Total Nonprocess	*	0	*	1	*	0
Facility HVAC (f)	*	0	*	1	*	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	0	0	*	0	*	0

324199 Other Petroleum and Coal Products

TOTAL FUEL CONSUMPTION	4	0	*	8	*	7
Indirect Uses-Boiler Fuel	*	0	*	2	*	0
Conventional Boiler Use	*	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	3	0	*	5	*	7
Process Heating	*	0	*	5	*	0
Process Cooling and Refrigeration	*	0	0	0	*	0
Machine Drive	3	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	*	0	*	7
Direct Uses-Total Nonprocess	*	0	*	1	*	*
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	0	*
End Use Not Reported	0	0	0	0	*	0

325 CHEMICALS

TOTAL FUEL CONSUMPTION	625	2	10	2,002	4	237
Indirect Uses-Boiler Fuel	13	2	3	1,053	*	163
Conventional Boiler Use	13	2	1	333	*	24
CHP and/or Cogeneration Process	--	*	2	720	*	140
Direct Uses-Total Process	530	*	3	880	1	16
Process Heating	22	*	*	708	1	16
Process Cooling and Refrigeration	58	0	*	16	*	0
Machine Drive	338	0	2	91	*	*
Electro-Chemical Processes	103	--	--	--	--	--
Other Process Use	9	0	*	66	1	0
Direct Uses-Total Nonprocess	73	*	4	58	1	2
Facility HVAC (f)	38	*	*	48	*	2
Facility Lighting	25	--	--	--	--	--
Other Facility Support	7	0	*	7	*	0
Onsite Transportation	2	--	3	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	2	0	*	2	*	0
End Use Not Reported	8	0	*	11	1	56

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	33	0	1	309	1	0
Indirect Uses-Boiler Fuel	*	0	*	87	*	0
Conventional Boiler Use	*	0	*	19	*	0
CHP and/or Cogeneration Process	--	0	*	68	*	0
Direct Uses-Total Process	32	0	*	221	*	0

Process Heating	1	0	0	C	*	0
Process Cooling and Refrigeration	7	0	0	3	0	0
Machine Drive	20	0	*	W	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	0	0	*	C	*	0
Direct Uses-Total Nonprocess	2	0	*	1	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	1	0	0
End Use Not Reported	0	0	*	0	*	0

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	68	0	*	38	*	0
Indirect Uses-Boiler Fuel	*	0	*	5	*	0
Conventional Boiler Use	*	0	*	3	0	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	66	0	*	17	0	0
Process Heating	1	0	*	7	0	0
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	64	0	*	5	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	0	0	0	4	0	0
Direct Uses-Total Nonprocess	2	0	*	16	*	0
Facility HVAC (f)	1	0	*	16	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	*	0	0	0	*	0

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	95	0	1	151	*	53
Indirect Uses-Boiler Fuel	7	0	*	51	*	51
Conventional Boiler Use	7	0	*	15	*	5
CHP and/or Cogeneration Process	--	0	*	36	*	46
Direct Uses-Total Process	80	0	*	97	*	2
Process Heating	4	0	*	49	*	2
Process Cooling and Refrigeration	3	0	*	*	0	0
Machine Drive	21	0	*	47	*	0
Electro-Chemical Processes	47	--	--	--	--	--
Other Process Use	5	0	*	1	*	0
Direct Uses-Total Nonprocess	7	0	1	3	*	0
Facility HVAC (f)	3	0	*	2	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	1	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	Q	0	0	Q	*	0

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	47	0	1	363	*	80
Indirect Uses-Boiler Fuel	1	0	0	218	0	35
Conventional Boiler Use	1	0	0	121	0	6
CHP and/or Cogeneration Process	--	0	0	97	0	29
Direct Uses-Total Process	41	0	*	138	*	3

Process Heating	2	0	0	121	0	3
Process Cooling and Refrigeration	5	0	0	1	0	0
Machine Drive	33	0	*	1	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	1	0	0	15	0	0
Direct Uses-Total Nonprocess	3	0	*	4	*	0
Facility HVAC (f)	1	0	0	3	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	0	0	*	*	0	0
End Use Not Reported	1	0	*	Q	*	43

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

TOTAL FUEL CONSUMPTION	11	0	*	24	*	0
Indirect Uses-Boiler Fuel	*	0	*	15	0	0
Conventional Boiler Use	*	0	*	6	0	0
CHP and/or Cogeneration Process	--	0	0	9	0	0
Direct Uses-Total Process	9	0	*	9	*	0
Process Heating	1	0	0	8	*	0
Process Cooling and Refrigeration	2	0	*	0	0	0
Machine Drive	5	0	*	0	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	2	0	*	*	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	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

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	95	2	2	364	*	59
Indirect Uses-Boiler Fuel	1	2	*	230	*	46
Conventional Boiler Use	1	2	*	84	*	1
CHP and/or Cogeneration Process	--	0	*	145	*	45
Direct Uses-Total Process	83	0	1	127	*	0
Process Heating	3	0	*	88	*	0
Process Cooling and Refrigeration	13	0	0	4	*	0
Machine Drive	59	0	1	15	*	0
Electro-Chemical Processes	9	--	--	--	--	--
Other Process Use	*	0	*	20	*	0
Direct Uses-Total Nonprocess	10	0	1	6	*	0
Facility HVAC (f)	4	0	*	4	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	Q	*	0
End Use Not Reported	1	0	*	*	*	13

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	135	*	1	375	1	14
Indirect Uses-Boiler Fuel	1	*	*	283	*	6
Conventional Boiler Use	1	*	*	25	*	6
CHP and/or Cogeneration Process	--	*	*	257	*	0
Direct Uses-Total Process	123	*	*	86	*	Q

Process Heating	3	*	0	72	*	Q
Process Cooling and Refrigeration	10	0	*	6	*	0
Machine Drive	67	0	*	4	*	0
Electro-Chemical Processes	42	--	--	--	--	--
Other Process Use	*	0	*	5	*	0
Direct Uses-Total Nonprocess	9	*	1	6	*	1
Facility HVAC (f)	4	*	*	4	*	1
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	*	2	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	1	0	0	*	*	0

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	5	0	*	19	*	1
Indirect Uses-Boiler Fuel	*	0	*	18	*	1
Conventional Boiler Use	*	0	*	8	0	0
CHP and/or Cogeneration Process	--	0	*	10	*	1
Direct Uses-Total Process	3	0	*	1	*	0
Process Heating	*	0	*	1	0	0
Process Cooling and Refrigeration	1	0	0	*	0	0
Machine Drive	2	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	*	0	0
Direct Uses-Total Nonprocess	1	0	*	*	*	0
Facility HVAC (f)	*	0	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
End Use Not Reported	1	0	*	0	*	0

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	12	*	*	13	*	10
Indirect Uses-Boiler Fuel	*	*	*	9	*	10
Conventional Boiler Use	*	*	*	4	*	1
CHP and/or Cogeneration Process	--	0	*	5	0	9
Direct Uses-Total Process	10	*	*	4	*	*
Process Heating	1	*	*	3	*	*
Process Cooling and Refrigeration	2	0	0	1	0	0
Machine Drive	6	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	0	*	*	0
Direct Uses-Total Nonprocess	2	0	*	*	*	0
Facility HVAC (f)	1	0	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
End Use Not Reported	0	0	0	*	*	0

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	14	*	*	158	*	0
Indirect Uses-Boiler Fuel	*	*	0	36	*	0
Conventional Boiler Use	*	0	0	12	0	0
CHP and/or Cogeneration Process	--	*	0	24	*	0
Direct Uses-Total Process	11	0	*	115	*	0

Process Heating	1	0	*	103	*	0
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	9	0	*	3	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	9	0	0
Direct Uses-Total Nonprocess	2	0	*	*	*	0
Facility HVAC (f)	1	0	0	*	*	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	1	0	0	7	*	0

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	13	*	2	25	*	2
Indirect Uses-Boiler Fuel	*	*	1	3	*	2
Conventional Boiler Use	*	0	0	1	0	0
CHP and/or Cogeneration Process	--	*	1	2	*	2
Direct Uses-Total Process	12	0	*	22	*	0
Process Heating	*	0	0	21	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	12	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	1	*	*	0
Facility HVAC (f)	1	0	0	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	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	*	0	0	*	0	0

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	39	0	1	50	*	3
Indirect Uses-Boiler Fuel	1	0	*	36	*	2
Conventional Boiler Use	1	0	*	17	*	*
CHP and/or Cogeneration Process	--	0	*	19	*	2
Direct Uses-Total Process	19	0	*	5	*	0
Process Heating	1	0	*	4	*	0
Process Cooling and Refrigeration	6	0	*	*	0	0
Machine Drive	10	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	19	0	*	8	*	1
Facility HVAC (f)	13	0	*	7	*	1
Facility Lighting	5	--	--	--	--	--
Other Facility Support	1	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	0	0

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	20	0	1	21	*	3
Indirect Uses-Boiler Fuel	*	0	*	14	*	2
Conventional Boiler Use	*	0	*	8	*	*
CHP and/or Cogeneration Process	--	0	*	6	*	2
Direct Uses-Total Process	10	0	*	3	*	0

Process Heating	1	0	*	2	*	0
Process Cooling and Refrigeration	3	0	*	*	0	0
Machine Drive	6	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	*	0
Direct Uses-Total Nonprocess	9	0	*	4	*	1
Facility HVAC (f)	6	0	*	4	*	1
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	*	0	0	*	0	0

325992 Photographic Film, Paper, Plate, and Chemicals

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

326 PLASTICS AND RUBBER PRODUCTS

TOTAL FUEL CONSUMPTION	191	0	Q	90	4	Q
Indirect Uses-Boiler Fuel	1	0	*	42	*	Q
Conventional Boiler Use	1	0	*	21	*	*
CHP and/or Cogeneration Process	--	0	0	21	*	Q
Direct Uses-Total Process	146	0	*	25	*	0
Process Heating	30	0	*	23	*	0
Process Cooling and Refrigeration	15	0	0	*	0	0
Machine Drive	98	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	Q	0	0	*	*	0
Direct Uses-Total Nonprocess	43	0	Q	21	3	*
Facility HVAC (f)	19	0	*	20	1	*
Facility Lighting	17	--	--	--	--	--
Other Facility Support	4	0	*	1	*	0
Onsite Transportation	1	--	*	*	2	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	Q	0	Q	*	*	0
End Use Not Reported	Q	0	*	Q	1	0

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	129	*	19	333	3	235
Indirect Uses-Boiler Fuel	1	*	*	13	*	1
Conventional Boiler Use	1	0	*	2	*	0
CHP and/or Cogeneration Process	--	*	*	11	*	1
Direct Uses-Total Process	106	*	8	278	1	234

Process Heating	31	*	1	266	1	233
Process Cooling and Refrigeration	5	0	0	2	*	0
Machine Drive	65	0	4	8	*	1
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	3	0	Q	3	*	0
Direct Uses-Total Nonprocess	17	*	11	21	1	*
Facility HVAC (f)	8	*	*	19	*	*
Facility Lighting	6	--	--	--	--	--
Other Facility Support	2	0	*	2	*	0
Onsite Transportation	*	--	8	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	2	*	*	0
End Use Not Reported	Q	0	*	Q	1	*

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	5	*	1	35	*	1
Indirect Uses-Boiler Fuel	*	0	0	1	0	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	1	0	0
Direct Uses-Total Process	4	*	*	32	*	1
Process Heating	1	*	*	32	*	1
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	3	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	2	*	0
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	0	0
End Use Not Reported	*	0	*	1	*	*

327211 Flat Glass

TOTAL FUEL CONSUMPTION	6	0	*	47	*	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	5	0	*	43	*	0
Process Heating	2	0	0	39	*	0
Process Cooling and Refrigeration	*	0	0	2	0	0
Machine Drive	2	0	*	2	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	*	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	*	0	*	1	*	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	0	0
End Use Not Reported	*	0	*	2	*	0

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	8	0	*	24	*	0
Indirect Uses-Boiler Fuel	*	0	*	3	0	0
Conventional Boiler Use	*	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	*	3	0	0
Direct Uses-Total Process	6	0	*	20	*	0

Process Heating	3	0	*	19	*	0
Process Cooling and Refrigeration	1	0	0	*	0	0
Machine Drive	2	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	*	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	1	0	0	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	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	0	*	0

327213 Glass Containers

TOTAL FUEL CONSUMPTION	12	0	*	46	*	0
Indirect Uses-Boiler Fuel	*	0	0	*	*	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	11	0	*	43	*	0
Process Heating	4	0	*	42	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	6	0	*	1	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	*	0	0	0
Direct Uses-Total Nonprocess	1	0	*	2	*	0
Facility HVAC (f)	1	0	*	2	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	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

327215 Glass Products from Purchased Glass

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

327310 Cements

TOTAL FUEL CONSUMPTION	38	*	4	21	*	158
Indirect Uses-Boiler Fuel	*	0	0	*	0	1
Conventional Boiler Use	*	0	0	0	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	1
Direct Uses-Total Process	36	*	2	20	*	157

Process Heating	7	*	1	20	*	156
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	27	0	1	*	*	1
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	0	*	0
Direct Uses-Total Nonprocess	2	0	2	*	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	2	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	*	*	*	0

327410 Lime

TOTAL FUEL CONSUMPTION	5	0	1	6	*	73
Indirect Uses-Boiler Fuel	*	0	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	5	0	*	6	*	73
Process Heating	1	0	*	6	*	73
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	4	0	*	0	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	*	0	*	0
Direct Uses-Total Nonprocess	*	0	1	*	*	0
Facility HVAC (f)	*	0	0	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	1	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	*	0	*	0	*	0

327420 Gypsum

TOTAL FUEL CONSUMPTION	5	0	*	47	*	0
Indirect Uses-Boiler Fuel	*	0	*	1	0	0
Conventional Boiler Use	*	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	4	0	*	45	0	0
Process Heating	*	0	*	43	0	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	3	0	*	2	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	0	0	0
Direct Uses-Total Nonprocess	1	0	*	2	*	0
Facility HVAC (f)	*	0	*	1	*	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	0
End Use Not Reported	0	0	0	0	0	0

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	11	0	*	20	*	0
Indirect Uses-Boiler Fuel	*	0	*	*	0	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	9	0	*	18	*	0

Process Heating	5	0	0	17	*	0
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	4	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	1	0	*	2	*	0
Facility HVAC (f)	*	0	*	2	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

331 PRIMARY METALS

TOTAL FUEL CONSUMPTION	472	1	6	643	3	18
Indirect Uses-Boiler Fuel	2	*	*	85	*	0
Conventional Boiler Use	2	*	*	23	*	0
CHP and/or Cogeneration Process	--	*	*	62	*	0
Direct Uses-Total Process	405	*	1	504	1	18
Process Heating	161	*	1	452	1	11
Process Cooling and Refrigeration	7	0	*	5	*	0
Machine Drive	127	*	*	12	*	0
Electro-Chemical Processes	104	--	--	--	--	--
Other Process Use	7	0	*	36	*	7
Direct Uses-Total Nonprocess	56	*	5	47	1	0
Facility HVAC (f)	29	*	*	39	*	0
Facility Lighting	20	--	--	--	--	--
Other Facility Support	5	0	*	7	*	0
Onsite Transportation	1	--	5	1	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	0	*	1	*	0
End Use Not Reported	9	*	*	6	*	0

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	220	*	4	401	*	17
Indirect Uses-Boiler Fuel	1	*	0	45	*	0
Conventional Boiler Use	1	*	0	14	0	0
CHP and/or Cogeneration Process	--	*	0	31	*	0
Direct Uses-Total Process	195	0	1	333	*	17
Process Heating	109	0	*	292	*	11
Process Cooling and Refrigeration	3	0	0	5	*	0
Machine Drive	74	0	*	3	*	0
Electro-Chemical Processes	5	--	--	--	--	--
Other Process Use	3	0	*	34	*	7
Direct Uses-Total Nonprocess	16	0	3	19	*	0
Facility HVAC (f)	5	0	*	14	*	0
Facility Lighting	8	--	--	--	--	--
Other Facility Support	2	0	0	4	*	0
Onsite Transportation	*	--	3	*	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	*	0	*	1	*	0
End Use Not Reported	8	*	*	4	*	0

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	22	0	1	27	*	0
Indirect Uses-Boiler Fuel	*	0	*	3	*	0
Conventional Boiler Use	*	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	19	0	*	19	*	0

Process Heating	6	0	*	17	*	0
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	13	0	*	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	3	0	1	4	*	0
Facility HVAC (f)	1	0	*	3	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	0	*	*	0
End Use Not Reported	*	0	*	*	*	0

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	140	*	1	117	1	0
Indirect Uses-Boiler Fuel	*	*	0	27	*	0
Conventional Boiler Use	*	*	0	3	*	0
CHP and/or Cogeneration Process	--	0	0	24	*	0
Direct Uses-Total Process	115	*	*	80	*	0
Process Heating	6	*	*	74	*	0
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	17	0	*	5	*	0
Electro-Chemical Processes	92	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	24	*	1	9	*	0
Facility HVAC (f)	15	*	*	7	*	0
Facility Lighting	7	--	--	--	--	--
Other Facility Support	2	0	0	2	*	0
Onsite Transportation	*	--	1	1	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	*	2	*	0

331314 Secondary Smelting and Alloying of Aluminum

TOTAL FUEL CONSUMPTION	3	0	*	16	*	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
Direct Uses-Total Process	2	0	*	14	*	0
Process Heating	1	0	*	14	*	0
Process Cooling and Refrigeration	*	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	*	1	*	0
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	1	*	0

331315 Aluminum Sheet, Plate and Foils

TOTAL FUEL CONSUMPTION	15	*	*	45	*	0
Indirect Uses-Boiler Fuel	*	0	0	2	0	0
Conventional Boiler Use	*	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	13	*	*	38	*	0

Process Heating	3	*	0	34	*	0
Process Cooling and Refrigeration	*	0	*	*	0	0
Machine Drive	11	0	*	4	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	*	*	0
Direct Uses-Total Nonprocess	2	0	*	5	*	0
Facility HVAC (f)	1	0	0	4	0	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	1	*	0
Onsite Transportation	*	--	*	*	*	--
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	6	*	*	13	*	0
Indirect Uses-Boiler Fuel	*	0	0	1	*	0
Conventional Boiler Use	*	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	4	0	*	11	*	0
Process Heating	1	0	0	10	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	3	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	*	*	2	*	0
Facility HVAC (f)	*	*	*	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

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	45	0	*	42	1	1
Indirect Uses-Boiler Fuel	*	0	*	8	*	0
Conventional Boiler Use	*	0	*	4	*	0
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	40	0	*	30	1	1
Process Heating	19	0	*	29	1	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	10	0	*	*	*	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	3	0	*	*	*	1
Direct Uses-Total Nonprocess	4	0	*	4	*	0
Facility HVAC (f)	2	0	*	4	*	0
Facility Lighting	1	--	--	--	--	--
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

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

TOTAL FUEL CONSUMPTION	27	0	*	16	*	1
Indirect Uses-Boiler Fuel	*	0	*	6	0	0
Conventional Boiler Use	*	0	*	2	0	0
CHP and/or Cogeneration Process	--	0	*	4	0	0
Direct Uses-Total Process	25	0	*	9	*	1

Process Heating	14	0	*	9	*	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	2	0	*	*	0	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	3	0	*	*	*	1
Direct Uses-Total Nonprocess	2	0	*	1	*	0
Facility HVAC (f)	1	0	0	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	0	*	0

3315 Foundries

TOTAL FUEL CONSUMPTION	45	*	1	55	1	*
Indirect Uses-Boiler Fuel	*	0	*	1	*	0
Conventional Boiler Use	*	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	36	*	*	42	*	*
Process Heating	21	0	*	40	*	*
Process Cooling and Refrigeration	1	0	0	*	*	0
Machine Drive	13	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	8	*	1	12	*	0
Facility HVAC (f)	5	*	*	11	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	1	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

331511 Iron Foundries

TOTAL FUEL CONSUMPTION	21	*	*	16	*	*
Indirect Uses-Boiler Fuel	*	0	*	*	*	0
Conventional Boiler Use	*	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	16	0	*	9	*	*
Process Heating	10	0	*	9	*	*
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	5	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	1	*	0
Direct Uses-Total Nonprocess	4	*	*	6	*	0
Facility HVAC (f)	3	*	*	6	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	7	0	*	17	*	0
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
Direct Uses-Total Process	5	0	*	13	*	0

Process Heating	2	0	0	13	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	3	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	2	0	*	3	*	0
Facility HVAC (f)	1	0	*	2	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	0	0
End Use Not Reported	*	0	0	0	*	0

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	3	*	*	8	*	0
Indirect Uses-Boiler Fuel	*	0	*	*	*	0
Conventional Boiler Use	*	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	2	*	*	7	*	0
Process Heating	1	0	*	7	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	1	*	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	*	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	*	0
End Use Not Reported	*	0	0	*	*	0

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	149	0	2	191	7	0
Indirect Uses-Boiler Fuel	Q	0	0	20	*	0
Conventional Boiler Use	Q	0	0	Q	*	0
CHP and/or Cogeneration Process	--	0	0	16	*	0
Direct Uses-Total Process	101	0	*	118	1	0
Process Heating	22	0	*	111	Q	0
Process Cooling and Refrigeration	5	0	0	*	0	0
Machine Drive	64	0	*	Q	*	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	5	0	*	Q	*	0
Direct Uses-Total Nonprocess	43	0	2	47	6	0
Facility HVAC (f)	23	0	Q	45	Q	0
Facility Lighting	14	--	--	--	--	--
Other Facility Support	5	0	*	2	*	0
Onsite Transportation	1	--	1	*	4	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	Q	0	0	Q	*	0

333 MACHINERY

TOTAL FUEL CONSUMPTION	81	*	5	72	3	Q
Indirect Uses-Boiler Fuel	1	0	*	14	*	Q
Conventional Boiler Use	1	0	*	4	0	0
CHP and/or Cogeneration Process	--	0	*	10	*	Q
Direct Uses-Total Process	48	0	3	25	1	0

Process Heating	8	0	0	18	Q	0
Process Cooling and Refrigeration	3	0	*	*	*	0
Machine Drive	34	0	*	2	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	2	0	3	Q	Q	0
Direct Uses-Total Nonprocess	32	*	Q	32	2	0
Facility HVAC (f)	16	*	*	31	Q	0
Facility Lighting	11	--	--	--	--	--
Other Facility Support	3	0	Q	1	*	0
Onsite Transportation	1	--	*	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	*	*	*	*	0
End Use Not Reported	Q	0	*	Q	*	0

334 COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	112	*	1	47	*	0
Indirect Uses-Boiler Fuel	1	0	*	16	*	0
Conventional Boiler Use	1	0	*	11	*	0
CHP and/or Cogeneration Process	--	0	0	5	*	0
Direct Uses-Total Process	63	0	*	14	*	0
Process Heating	13	0	*	10	*	0
Process Cooling and Refrigeration	13	0	0	*	0	0
Machine Drive	26	0	*	*	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	8	0	*	4	*	0
Direct Uses-Total Nonprocess	46	*	Q	17	*	0
Facility HVAC (f)	27	*	*	15	*	0
Facility Lighting	10	--	--	--	--	--
Other Facility Support	6	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	1	*	0
End Use Not Reported	2	0	0	*	*	0

334413 Semiconductors and Related Devices

TOTAL FUEL CONSUMPTION	65	*	*	24	*	0
Indirect Uses-Boiler Fuel	1	0	*	10	*	0
Conventional Boiler Use	1	0	*	8	*	0
CHP and/or Cogeneration Process	--	0	0	2	*	0
Direct Uses-Total Process	40	0	*	6	*	0
Process Heating	8	0	0	3	0	0
Process Cooling and Refrigeration	9	0	0	*	0	0
Machine Drive	15	0	*	*	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	6	0	*	3	0	0
Direct Uses-Total Nonprocess	24	*	*	8	*	0
Facility HVAC (f)	15	*	*	7	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	3	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	1	*	0
End Use Not Reported	1	0	0	*	0	0

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	40	0	*	27	1	0
Indirect Uses-Boiler Fuel	*	0	0	3	*	0
Conventional Boiler Use	*	0	0	2	*	0
CHP and/or Cogeneration Process	--	0	0	Q	0	0
Direct Uses-Total Process	28	0	*	17	Q	0

Process Heating	9	0	*	16	*	0
Process Cooling and Refrigeration	3	0	0	*	0	0
Machine Drive	11	0	*	*	Q	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	1	0	0	*	0	0
Direct Uses-Total Nonprocess	12	0	*	7	1	0
Facility HVAC (f)	7	0	*	6	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	0	*	0

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	156	1	4	145	4	1
Indirect Uses-Boiler Fuel	1	1	*	24	*	1
Conventional Boiler Use	1	1	*	17	*	1
CHP and/or Cogeneration Process	--	0	*	7	0	*
Direct Uses-Total Process	93	0	Q	64	1	0
Process Heating	17	0	*	56	*	0
Process Cooling and Refrigeration	8	0	0	*	*	0
Machine Drive	60	0	Q	Q	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	8	0	*	5	*	0
Direct Uses-Total Nonprocess	59	0	2	55	3	0
Facility HVAC (f)	29	0	*	49	*	0
Facility Lighting	19	--	--	--	--	--
Other Facility Support	6	0	*	2	*	0
Onsite Transportation	2	--	1	*	2	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	2	0	Q	Q	*	0
End Use Not Reported	2	0	*	2	*	0

336111 Automobiles

TOTAL FUEL CONSUMPTION	12	0	*	19	*	*
Indirect Uses-Boiler Fuel	*	0	*	2	*	*
Conventional Boiler Use	*	0	0	2	*	*
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	8	0	*	12	*	0
Process Heating	1	0	0	10	*	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	5	0	*	0	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	0	0
Direct Uses-Total Nonprocess	4	0	*	5	*	0
Facility HVAC (f)	2	0	*	5	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	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

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	12	0	*	25	*	*
Indirect Uses-Boiler Fuel	*	0	0	5	0	*
Conventional Boiler Use	*	0	0	4	0	*
CHP and/or Cogeneration Process	--	0	0	1	0	0
Direct Uses-Total Process	8	0	*	14	*	0

Process Heating	*	0	0	13	0	0
Process Cooling and Refrigeration	1	0	0	*	0	0
Machine Drive	5	0	*	*	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	4	0	*	6	*	0
Facility HVAC (f)	2	0	0	6	*	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
End Use Not Reported	0	0	*	0	0	0

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	33	*	Q	29	*	0
Indirect Uses-Boiler Fuel	*	*	*	11	*	0
Conventional Boiler Use	*	*	*	8	*	0
CHP and/or Cogeneration Process	--	0	*	4	0	0
Direct Uses-Total Process	15	0	Q	5	*	0
Process Heating	5	0	*	4	*	0
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	7	0	Q	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	17	0	Q	12	*	0
Facility HVAC (f)	8	0	*	10	*	0
Facility Lighting	6	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	Q	*	*	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	1	0	*	*	*	0

336411 Aircraft

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

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	18	0	*	15	1	*
Indirect Uses-Boiler Fuel	*	0	*	Q	*	*
Conventional Boiler Use	*	0	0	*	*	*
CHP and/or Cogeneration Process	--	0	*	Q	*	0
Direct Uses-Total Process	10	0	*	6	*	*

Process Heating	1	0	*	6	*	*
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	9	0	0	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	0	*	0
Direct Uses-Total Nonprocess	7	0	*	8	1	*
Facility HVAC (f)	3	0	*	7	*	*
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

339 MISCELLANEOUS

TOTAL FUEL CONSUMPTION	30	*	Q	26	1	0
Indirect Uses-Boiler Fuel	*	0	Q	Q	0	0
Conventional Boiler Use	*	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	Q	Q	0	0
Direct Uses-Total Process	16	0	*	5	*	0
Process Heating	3	0	*	4	*	0
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	10	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	Q	*	0
Direct Uses-Total Nonprocess	13	*	*	9	*	0
Facility HVAC (f)	7	*	*	6	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	1	*	0	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(b) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with 'Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

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

(e) 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) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: 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 Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

RSE Table 5.4 Relative Standard Errors for Table 5.4;

Unit: Percents.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal (excluding Coal Coke and Breeze)
Total United States							
311 - 339	ALL MANUFACTURING INDUSTRIES						
	TOTAL FUEL CONSUMPTION	1.1	2.2	5.4	0.8	2.8	1.1
	Indirect Uses-Boiler Fuel	2.7	2.9	7.3	1.0	3.7	1.3
	Conventional Boiler Use	2.7	0.4	6.3	2.1	4.7	1.6
	CHP and/or Cogeneration Process	--	6.1	10.0	1.1	5.9	1.5
	Direct Uses-Total Process	1.0	2.7	10.6	1.0	3.0	1.8
	Process Heating	2.1	1.6	7.5	1.1	2.2	2.0
	Process Cooling and Refrigeration	1.7	73.1	10.3	5.7	27.2	X
	Machine Drive	1.2	0.1	13.7	3.8	26.2	23.0
	Electro-Chemical Processes	1.1	--	--	--	--	--
	Other Process Use	4.5	42.3	25.7	3.3	17.0	0.1
	Direct Uses-Total Nonprocess	2.1	2.3	6.7	2.5	6.0	12.2
	Facility HVAC (f)	2.3	4.0	16.4	2.7	17.0	20.2
	Facility Lighting	2.4	--	--	--	--	--
	Other Facility Support	3.7	40.2	44.8	3.0	14.7	0.1
	Onsite Transportation	4.6	--	4.5	9.0	5.3	--
	Conventional Electricity Generation	--	0.1	38.1	17.4	14.5	0.1
	Other Nonprocess Use	14.2	63.0	28.4	27.9	30.0	0.1
	End Use Not Reported	10.5	0.1	23.2	7.3	13.0	4.2
311	FOOD						
	TOTAL FUEL CONSUMPTION	2.3	16.2	11.0	3.1	12.2	0.1
	Indirect Uses-Boiler Fuel	8.2	17.6	16.0	2.5	14.6	0.1
	Conventional Boiler Use	8.2	1.9	9.9	4.3	19.4	0.1
	CHP and/or Cogeneration Process	--	40.8	21.5	3.2	22.1	0.2
	Direct Uses-Total Process	2.4	14.2	31.5	7.4	29.5	0.1
	Process Heating	7.9	26.5	45.1	8.2	28.0	0.1
	Process Cooling and Refrigeration	3.5	0.1	10.7	6.5	48.8	X
	Machine Drive	2.8	0.1	46.9	13.9	59.6	X
	Electro-Chemical Processes	14.1	--	--	--	--	--
	Other Process Use	12.9	X	73.0	7.2	9.2	X
	Direct Uses-Total Nonprocess	3.5	13.1	10.9	4.5	16.4	0.1
	Facility HVAC (f)	4.5	4.1	6.3	6.0	42.1	0.1
	Facility Lighting	4.1	--	--	--	--	--
	Other Facility Support	5.0	41.3	4.6	4.7	29.5	0.1
	Onsite Transportation	7.8	--	14.6	36.1	11.9	--
	Conventional Electricity Generation	--	X	60.7	39.9	0.1	X
	Other Nonprocess Use	13.1	X	10.5	25.2	10.4	X
	End Use Not Reported	21.8	X	24.9	13.5	62.6	0.1
3112	Grain and Oilseed Milling						
	TOTAL FUEL CONSUMPTION	1.7	37.1	8.0	2.3	31.2	0.1
	Indirect Uses-Boiler Fuel	2.5	56.6	6.0	3.2	52.7	0.2
	Conventional Boiler Use	2.5	X	4.2	4.8	0.1	0.1
	CHP and/or Cogeneration Process	--	56.6	18.9	4.6	60.0	0.2
	Direct Uses-Total Process	1.8	44.0	30.0	3.7	47.8	0.1
	Process Heating	5.6	44.0	56.7	4.5	44.0	0.1
	Process Cooling and Refrigeration	3.0	X	80.5	9.2	X	X
	Machine Drive	1.9	X	15.5	13.3	89.3	X
	Electro-Chemical Processes	19.1	--	--	--	--	--
	Other Process Use	32.9	X	4.5	3.8	3.2	X
	Direct Uses-Total Nonprocess	2.8	44.7	5.6	4.8	15.7	0.1
	Facility HVAC (f)	3.8	44.7	22.7	5.4	41.2	0.1
	Facility Lighting	2.9	--	--	--	--	--

Other Facility Support	3.2	X	82.3	6.3	58.7	0.1
Onsite Transportation	13.0	--	3.6	0.1	9.8	--
Conventional Electricity Generation	--	X	9.3	0.1	0.1	X
Other Nonprocess Use	25.6	X	0.2	0.1	0.1	X
End Use Not Reported	52.3	X	93.7	93.7	17.3	0.1

311221 Wet Corn Milling

TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	0.0	X	0.0	0.0	X	0.0
Conventional Boiler Use	0.0	X	0.0	0.0	X	0.0
CHP and/or Cogeneration Process	--	X	X	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	0.0	0.0	0.0	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	X	--	--	--	--	--
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 (f)	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	0.0	X
Other Nonprocess Use	X	X	0.0	X	X	X
End Use Not Reported	X	X	X	X	0.0	0.0

31131 Sugar

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	X	0.1
Conventional Boiler Use	0.1	0.1	X	0.1	X	X
CHP and/or Cogeneration Process	--	0.1	0.1	0.1	X	0.1
Direct Uses-Total Process	0.1	0.1	0.1	0.1	X	0.1
Process Heating	0.1	X	X	0.1	X	0.1
Process Cooling and Refrigeration	0.1	X	X	X	X	X
Machine Drive	0.1	0.1	0.1	X	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	X	X	X	0.1	X	X
Direct Uses-Total Nonprocess	0.1	X	0.1	0.1	0.1	X
Facility HVAC (f)	0.1	X	X	0.1	0.1	X
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.1	X	X	0.1	X	X
Onsite Transportation	0.1	--	0.1	X	0.1	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	0.1	X	0.1	X	0.1	X
End Use Not Reported	X	X	X	X	0.1	X

3114 Fruit and Vegetable Preserving and Specialty Foods

TOTAL FUEL CONSUMPTION	5.8	5.5	9.0	2.0	31.3	0.1
Indirect Uses-Boiler Fuel	10.2	0.1	6.2	2.5	20.4	0.1
Conventional Boiler Use	10.2	0.1	3.0	3.0	3.1	X
CHP and/or Cogeneration Process	--	0.1	57.3	3.6	63.2	0.1
Direct Uses-Total Process	6.6	4.2	44.1	4.5	74.1	X
Process Heating	12.4	4.2	26.2	4.7	70.7	X
Process Cooling and Refrigeration	10.1	X	38.2	13.6	X	X
Machine Drive	2.6	X	59.1	42.3	96.1	X
Electro-Chemical Processes	28.9	--	--	--	--	--
Other Process Use	10.2	X	23.5	15.7	28.6	X
Direct Uses-Total Nonprocess	4.7	30.2	13.2	4.3	21.1	X
Facility HVAC (f)	4.5	11.1	42.4	3.3	57.2	X
Facility Lighting	5.4	--	--	--	--	--
Other Facility Support	8.3	47.9	X	15.5	65.6	X
Onsite Transportation	16.4	--	14.3	54.4	9.3	--
Conventional Electricity Generation	--	X	10.4	45.9	X	X
Other Nonprocess Use	0.1	X	23.0	X	0.2	X
End Use Not Reported	24.7	X	15.4	9.7	16.9	X

3115 Dairy Products

TOTAL FUEL CONSUMPTION	2.2	0.4	26.6	2.3	20.7	0.1
Indirect Uses-Boiler Fuel	8.6	0.5	22.7	2.8	33.6	X
Conventional Boiler Use	8.6	0.2	0.9	3.2	88.6	X
CHP and/or Cogeneration Process	--	57.2	38.8	4.9	35.9	X
Direct Uses-Total Process	2.5	0.1	64.6	4.5	11.5	0.1
Process Heating	7.0	0.1	93.6	4.4	17.3	0.1
Process Cooling and Refrigeration	4.0	0.1	33.2	11.6	X	X
Machine Drive	3.0	0.1	95.7	34.3	0.1	X
Electro-Chemical Processes	10.9	--	--	--	--	--
Other Process Use	6.6	X	55.2	23.2	0.1	X
Direct Uses-Total Nonprocess	3.3	0.1	21.2	6.2	17.5	0.1
Facility HVAC (f)	3.7	0.1	78.5	6.8	29.0	0.1
Facility Lighting	3.3	--	--	--	--	--
Other Facility Support	7.0	X	X	9.5	95.6	X
Onsite Transportation	7.8	--	19.7	0.1	14.5	--
Conventional Electricity Generation	--	X	65.6	X	X	X
Other Nonprocess Use	19.6	X	30.3	17.5	0.1	X
End Use Not Reported	12.5	X	58.6	13.3	38.0	X

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	2.3	14.9	7.3	2.8	17.7	26.8
Indirect Uses-Boiler Fuel	10.1	15.0	6.6	4.2	9.8	26.8
Conventional Boiler Use	10.1	15.3	25.2	7.5	2.8	X
CHP and/or Cogeneration Process	--	19.1	6.8	5.7	36.8	26.8
Direct Uses-Total Process	2.0	X	34.5	4.3	25.4	X
Process Heating	8.2	X	49.1	4.7	24.4	X
Process Cooling and Refrigeration	2.8	X	1.1	15.7	54.1	X
Machine Drive	2.6	X	0.1	21.6	39.9	X
Electro-Chemical Processes	10.0	--	--	--	--	--
Other Process Use	10.9	X	66.4	11.9	66.1	X
Direct Uses-Total Nonprocess	3.1	19.2	8.8	3.2	54.9	X
Facility HVAC (f)	3.9	X	21.3	3.9	66.6	X
Facility Lighting	3.5	--	--	--	--	--
Other Facility Support	6.1	19.2	75.2	4.2	42.4	X
Onsite Transportation	8.2	--	20.7	8.8	7.9	--
Conventional Electricity Generation	--	X	39.4	76.7	X	X
Other Nonprocess Use	20.5	X	9.0	31.1	26.5	X
End Use Not Reported	76.8	X	28.1	38.2	24.3	X

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	7.4	0.1	18.5	4.4	10.3	0.1
Indirect Uses-Boiler Fuel	4.6	0.1	33.5	3.0	36.4	0.1
Conventional Boiler Use	4.6	0.1	33.6	3.1	69.1	0.1
CHP and/or Cogeneration Process	--	X	61.3	6.4	23.1	0.1
Direct Uses-Total Process	5.6	X	71.7	17.8	26.6	0.1
Process Heating	10.0	X	60.2	19.3	20.2	0.1
Process Cooling and Refrigeration	10.4	X	X	54.3	X	X
Machine Drive	3.6	X	87.6	19.1	61.1	X
Electro-Chemical Processes	10.2	--	--	--	--	--
Other Process Use	5.8	X	83.9	3.7	22.7	X
Direct Uses-Total Nonprocess	14.9	X	18.4	7.5	9.1	0.1
Facility HVAC (f)	9.7	X	24.4	7.6	27.6	0.1
Facility Lighting	15.5	--	--	--	--	--
Other Facility Support	22.1	X	0.1	25.4	46.1	X
Onsite Transportation	35.8	--	20.8	54.6	9.5	--
Conventional Electricity Generation	--	X	77.2	0.1	X	X
Other Nonprocess Use	12.0	X	52.8	1.8	16.9	X
End Use Not Reported	9.6	X	0.1	7.6	8.7	X

3121 Beverages

TOTAL FUEL CONSUMPTION	8.2	X	19.8	5.0	11.1	0.1
Indirect Uses-Boiler Fuel	4.8	X	40.9	3.4	41.3	0.1
Conventional Boiler Use	4.8	X	50.2	3.6	69.2	0.1

CHP and/or Cogeneration Process	--	X	62.0	6.7	30.4	0.1
Direct Uses-Total Process	6.0	X	74.3	20.6	29.7	X
Process Heating	11.1	X	75.8	22.3	20.4	X
Process Cooling and Refrigeration	10.6	X	X	81.0	X	X
Machine Drive	4.1	X	87.7	19.8	68.5	X
Electro-Chemical Processes	10.4	--	--	--	--	--
Other Process Use	6.0	X	83.9	4.2	33.0	X
Direct Uses-Total Nonprocess	17.8	X	18.6	8.6	9.6	X
Facility HVAC (f)	12.5	X	24.5	8.2	28.5	X
Facility Lighting	17.9	--	--	--	--	--
Other Facility Support	25.7	X	X	26.8	46.1	X
Onsite Transportation	37.0	--	20.9	57.8	10.1	--
Conventional Electricity Generation	--	X	81.6	0.1	X	X
Other Nonprocess Use	12.5	X	54.7	18.6	21.5	X
End Use Not Reported	9.6	X	0.1	7.6	8.7	X

3122 Tobacco

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	0.1
Conventional Boiler Use	0.1	0.1	0.1	0.1	0.1	0.1
CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	0.1
Direct Uses-Total Process	0.1	X	0.1	0.1	0.1	0.1
Process Heating	0.1	X	0.1	0.1	0.1	0.1
Process Cooling and Refrigeration	0.1	X	X	0.1	X	X
Machine Drive	0.1	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	X	0.1	0.1	X
Direct Uses-Total Nonprocess	0.1	X	0.1	0.1	0.1	0.1
Facility HVAC (f)	0.1	X	0.1	0.1	0.1	0.1
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.1	X	0.1	0.1	X	X
Onsite Transportation	0.1	--	0.1	0.1	0.1	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	0.1	X
End Use Not Reported	X	X	X	X	X	X

313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	13.5	48.0	55.7	17.1	10.9	43.2
Indirect Uses-Boiler Fuel	35.4	67.6	85.2	17.6	3.7	43.2
Conventional Boiler Use	35.4	X	68.7	31.3	3.0	76.3
CHP and/or Cogeneration Process	--	67.6	90.9	22.1	66.0	48.0
Direct Uses-Total Process	16.1	0.1	91.1	27.5	15.9	X
Process Heating	17.3	0.1	0.1	16.3	16.4	X
Process Cooling and Refrigeration	14.7	X	X	76.7	0.1	X
Machine Drive	19.3	X	X	76.9	59.4	X
Electro-Chemical Processes	48.1	--	--	--	--	--
Other Process Use	17.3	X	96.2	30.2	28.1	X
Direct Uses-Total Nonprocess	12.0	0.5	27.9	13.4	26.7	X
Facility HVAC (f)	14.9	0.5	60.6	13.0	69.7	X
Facility Lighting	11.5	--	--	--	--	--
Other Facility Support	15.2	X	0.1	60.9	0.1	X
Onsite Transportation	24.4	--	32.3	X	22.2	--
Conventional Electricity Generation	--	X	17.0	X	X	X
Other Nonprocess Use	52.7	X	60.3	X	64.8	X
End Use Not Reported	61.1	X	X	0.3	8.1	X

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	9.0	0.1	18.8	16.6	50.0	9.6
Indirect Uses-Boiler Fuel	28.6	0.1	18.4	21.3	17.9	9.6
Conventional Boiler Use	28.6	X	28.9	31.5	42.5	31.1
CHP and/or Cogeneration Process	--	0.1	0.1	18.1	0.1	7.0
Direct Uses-Total Process	10.3	X	37.6	14.9	40.3	X
Process Heating	13.0	X	0.1	15.2	46.6	X
Process Cooling and Refrigeration	18.3	X	X	X	X	X
Machine Drive	11.4	X	79.6	81.0	99.4	X
Electro-Chemical Processes	3.6	--	--	--	--	--

Other Process Use	36.0	X	0.1	40.0	62.8	X
Direct Uses-Total Nonprocess	13.6	X	28.6	42.7	28.8	X
Facility HVAC (f)	17.1	X	0.1	43.2	71.3	X
Facility Lighting	13.5	--	--	--	--	--
Other Facility Support	27.6	X	0.1	36.6	0.1	X
Onsite Transportation	15.2	--	38.7	X	32.6	--
Conventional Electricity Generation	--	X	45.2	X	X	X
Other Nonprocess Use	82.7	X	0.1	X	84.7	X
End Use Not Reported	97.8	X	94.3	0.1	89.9	X

315 APPAREL

TOTAL FUEL CONSUMPTION	9.3	X	68.9	12.8	56.8	X
Indirect Uses-Boiler Fuel	27.9	X	50.6	16.6	76.0	X
Conventional Boiler Use	27.9	X	50.6	14.1	X	X
CHP and/or Cogeneration Process	--	X	X	29.5	76.0	X
Direct Uses-Total Process	10.8	X	67.6	18.0	60.7	X
Process Heating	24.2	X	X	39.7	76.0	X
Process Cooling and Refrigeration	29.2	X	X	X	X	X
Machine Drive	11.7	X	X	13.9	X	X
Electro-Chemical Processes	76.1	--	--	--	--	--
Other Process Use	X	X	67.6	0.1	96.8	X
Direct Uses-Total Nonprocess	11.9	X	70.4	27.0	81.3	X
Facility HVAC (f)	14.0	X	70.9	27.0	96.5	X
Facility Lighting	15.1	--	--	--	--	--
Other Facility Support	11.8	X	X	65.3	X	X
Onsite Transportation	31.0	--	1.4	X	78.4	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	X	X	X	X	X	X
End Use Not Reported	68.7	X	X	13.7	0.1	X

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	7.4	67.2	12.4	5.4	9.0	X
Indirect Uses-Boiler Fuel	46.8	78.4	0.1	9.9	X	X
Conventional Boiler Use	46.8	X	X	32.3	X	X
CHP and/or Cogeneration Process	--	78.4	0.1	9.8	X	X
Direct Uses-Total Process	7.9	89.5	47.8	7.4	2.3	X
Process Heating	23.7	X	47.8	8.1	0.1	X
Process Cooling and Refrigeration	21.4	X	X	X	X	X
Machine Drive	7.4	X	X	12.1	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	42.8	89.5	X	0.1	57.9	X
Direct Uses-Total Nonprocess	7.3	X	15.2	12.5	15.1	X
Facility HVAC (f)	9.8	X	15.9	11.9	23.7	X
Facility Lighting	8.9	--	--	--	--	--
Other Facility Support	19.0	X	X	47.6	0.1	X
Onsite Transportation	15.4	--	53.6	X	8.5	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	25.9	X	0.1	X	X	X
End Use Not Reported	51.0	X	X	10.8	55.2	X

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	11.4	0.1	9.7	3.9	8.9	0.1
Indirect Uses-Boiler Fuel	6.1	X	10.6	7.7	33.6	0.1
Conventional Boiler Use	6.1	X	9.2	4.8	1.1	0.1
CHP and/or Cogeneration Process	--	X	35.7	11.1	49.7	0.1
Direct Uses-Total Process	11.2	0.1	30.8	4.8	14.6	0.1
Process Heating	3.5	0.1	19.7	5.4	13.2	0.1
Process Cooling and Refrigeration	9.1	X	69.0	0.1	X	X
Machine Drive	12.4	0.1	15.4	17.9	33.6	X
Electro-Chemical Processes	13.0	--	--	--	--	--
Other Process Use	16.0	0.1	71.5	0.1	45.5	X
Direct Uses-Total Nonprocess	15.0	X	8.0	10.3	11.5	X
Facility HVAC (f)	29.3	X	17.5	10.7	37.1	X
Facility Lighting	4.1	--	--	--	--	--
Other Facility Support	7.8	X	15.2	19.8	68.4	X
Onsite Transportation	12.5	--	8.3	21.9	10.2	--

Conventional Electricity Generation	--	X	11.5	85.5	0.2	X
Other Nonprocess Use	11.7	X	38.9	0.1	36.9	X
End Use Not Reported	13.2	X	63.5	59.6	35.2	X

321113 Sawmills

TOTAL FUEL CONSUMPTION	3.0	0.1	12.1	3.0	11.0	0.1
Indirect Uses-Boiler Fuel	3.1	X	1.0	6.1	21.7	X
Conventional Boiler Use	3.1	X	0.1	2.7	X	X
CHP and/or Cogeneration Process	--	X	1.5	17.2	21.7	X
Direct Uses-Total Process	3.3	0.1	8.9	3.5	20.9	0.1
Process Heating	2.6	0.1	10.1	3.6	25.9	0.1
Process Cooling and Refrigeration	2.6	X	X	X	X	X
Machine Drive	3.6	0.1	11.2	8.3	17.0	X
Electro-Chemical Processes	6.2	--	--	--	--	--
Other Process Use	1.4	X	31.3	X	4.5	X
Direct Uses-Total Nonprocess	5.9	X	5.1	4.7	3.8	X
Facility HVAC (f)	6.3	X	21.6	5.3	11.3	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	14.6	X	2.4	17.2	16.5	X
Onsite Transportation	7.9	--	5.2	0.1	3.5	--
Conventional Electricity Generation	--	X	13.2	86.9	0.1	X
Other Nonprocess Use	2.1	X	7.9	0.1	2.6	X
End Use Not Reported	13.0	X	79.4	X	38.2	X

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	4.7	X	8.5	4.1	5.1	0.1
Indirect Uses-Boiler Fuel	0.4	X	7.1	1.8	0.8	0.1
Conventional Boiler Use	0.4	X	0.1	2.2	0.1	0.1
CHP and/or Cogeneration Process	--	X	63.8	2.6	0.8	0.1
Direct Uses-Total Process	5.0	X	6.2	5.0	15.3	X
Process Heating	1.1	X	22.0	5.8	19.4	X
Process Cooling and Refrigeration	0.6	X	X	X	X	X
Machine Drive	5.6	X	0.1	1.2	36.4	X
Electro-Chemical Processes	1.5	--	--	--	--	--
Other Process Use	3.9	X	0.1	0.1	7.0	X
Direct Uses-Total Nonprocess	4.1	X	10.3	21.2	5.2	X
Facility HVAC (f)	6.5	X	16.1	22.6	27.8	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	3.1	X	24.9	28.2	83.1	X
Onsite Transportation	14.8	--	10.0	X	3.7	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	52.6	0.1	0.1	X
End Use Not Reported	10.0	X	0.1	23.7	0.1	X

321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	7.0	X	5.5	4.6	11.1	0.1
Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	0.1	0.1
Conventional Boiler Use	0.1	X	X	0.1	0.1	0.1
CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	0.1
Direct Uses-Total Process	7.3	X	0.1	5.5	20.0	X
Process Heating	0.5	X	0.1	6.5	22.2	X
Process Cooling and Refrigeration	0.3	X	X	X	X	X
Machine Drive	8.3	X	0.1	0.1	23.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	6.3	X	X	0.1	0.1	X
Direct Uses-Total Nonprocess	6.4	X	6.3	7.1	15.4	X
Facility HVAC (f)	9.5	X	0.1	8.9	7.8	X
Facility Lighting	6.4	--	--	--	--	--
Other Facility Support	2.6	X	50.6	0.1	85.4	X
Onsite Transportation	14.1	--	6.5	X	11.5	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	0.1	X
End Use Not Reported	0.1	X	X	X	X	X

3219 Other Wood Products

TOTAL FUEL CONSUMPTION	29.4	0.1	25.8	11.5	15.1	X
Indirect Uses-Boiler Fuel	23.2	X	41.0	21.8	59.8	X
Conventional Boiler Use	23.2	X	42.9	22.0	58.6	X
CHP and/or Cogeneration Process	--	X	96.8	26.9	60.5	X
Direct Uses-Total Process	30.3	0.1	53.8	21.2	25.6	X
Process Heating	14.1	X	47.6	22.9	23.7	X
Process Cooling and Refrigeration	23.4	X	69.0	0.1	X	X
Machine Drive	32.9	0.1	41.3	57.2	44.7	X
Electro-Chemical Processes	83.1	--	--	--	--	--
Other Process Use	24.8	X	81.8	94.2	64.6	X
Direct Uses-Total Nonprocess	29.0	X	30.5	13.0	19.8	X
Facility HVAC (f)	45.8	X	72.4	13.3	44.7	X
Facility Lighting	9.4	--	--	--	--	--
Other Facility Support	17.1	X	X	32.7	66.5	X
Onsite Transportation	19.2	--	32.6	22.5	19.8	--
Conventional Electricity Generation	--	X	59.8	96.6	45.3	X
Other Nonprocess Use	33.8	X	79.1	X	70.0	X
End Use Not Reported	47.0	X	99.0	74.3	46.2	X

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TOTAL FUEL CONSUMPTION	0.9	0.1	0.8	1.1	9.0	0.1
Indirect Uses-Boiler Fuel	1.6	0.1	0.9	1.1	34.7	0.1
Conventional Boiler Use	1.6	0.1	8.1	4.5	X	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	1.1	34.7	0.1
Direct Uses-Total Process	0.9	0.1	5.5	2.2	14.2	0.1
Process Heating	5.8	0.1	12.5	2.6	15.9	0.1
Process Cooling and Refrigeration	5.4	X	X	0.1	X	X
Machine Drive	0.9	0.1	3.7	1.0	0.1	0.1
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	2.5	X	4.0	6.0	49.8	0.1
Direct Uses-Total Nonprocess	2.8	0.1	0.1	5.2	8.0	0.1
Facility HVAC (f)	4.5	0.1	0.1	6.6	19.6	0.1
Facility Lighting	2.1	--	--	--	--	--
Other Facility Support	2.7	X	39.5	6.0	19.8	X
Onsite Transportation	11.5	--	0.1	65.7	8.3	--
Conventional Electricity Generation	--	0.1	12.0	1.0	92.3	0.1
Other Nonprocess Use	51.1	0.1	0.3	50.4	6.0	X
End Use Not Reported	13.8	0.1	4.7	97.4	54.1	0.1

322110 Pulp Mills

TOTAL FUEL CONSUMPTION	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	X	0.0	X	X	X
CHP and/or Cogeneration Process	--	0.0	0.0	0.0	0.0	0.0
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	X	X	X
Machine Drive	0.0	X	0.0	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 (f)	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	X	X	X	X	X	X
End Use Not Reported	X	X	X	X	0.0	X

322121 Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	0.1
Conventional Boiler Use	0.1	0.1	0.1	0.1	X	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	0.1	0.1	0.1
Direct Uses-Total Process	0.1	0.1	0.1	0.1	0.0	0.1

Process Heating	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Process Cooling and Refrigeration	0.1	X	X	0.1	X	X	X
Machine Drive	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electro-Chemical Processes	0.1	--	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	X	0.1	0.1
Direct Uses-Total Nonprocess	0.1						
Facility HVAC (f)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Facility Lighting	0.1	--	--	--	--	--	--
Other Facility Support	0.1	X	0.1	0.1	0.1	0.1	X
Onsite Transportation	0.1	--	0.1	0.1	0.1	0.1	--
Conventional Electricity Generation	--	0.1	0.1	0.1	X	0.1	0.1
Other Nonprocess Use	X	0.1	0.1	0.1	0.1	0.1	X
End Use Not Reported	X	X	0.1	X	0.1	0.1	0.1

322122 Newsprint Mills

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

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	0.0						
Indirect Uses-Boiler Fuel	0.0						
Conventional Boiler Use	0.0	0.0	0.0	0.0	X	0.0	0.0
CHP and/or Cogeneration Process	--	0.0	0.0	0.0	0.0	0.0	0.0
Direct Uses-Total Process	0.0						
Process Heating	0.0	0.0	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	0.0	--	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0						
Facility HVAC (f)	0.0	0.0	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	X	0.0	0.0	--
Conventional Electricity Generation	--	0.0	0.0	0.0	X	0.0	0.0
Other Nonprocess Use	0.0	X	0.0	X	0.0	0.0	X
End Use Not Reported	0.0	0.0	0.0	X	0.0	0.0	X

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	17.5	51.8	25.1	20.0	33.8	X	X
Indirect Uses-Boiler Fuel	33.9	51.8	69.0	16.4	45.3	X	X
Conventional Boiler Use	33.9	51.8	50.6	16.5	60.9	X	X
CHP and/or Cogeneration Process	--	X	72.0	32.8	65.0	X	X
Direct Uses-Total Process	19.5	X	72.2	25.4	71.3	X	X
Process Heating	15.0	X	X	27.2	77.9	X	X
Process Cooling and Refrigeration	24.9	X	X	98.2	X	X	X
Machine Drive	20.9	X	23.2	39.9	22.8	X	X
Electro-Chemical Processes	46.4	--	--	--	--	--	--
Other Process Use	26.6	X	84.7	69.4	66.1	X	X
Direct Uses-Total Nonprocess	15.9	X	27.9	26.5	26.9	X	X

Facility HVAC (f)	21.0	X	72.0	28.3	43.5	X
Facility Lighting	13.8	--	--	--	--	--
Other Facility Support	14.1	X	81.4	19.8	71.3	X
Onsite Transportation	25.4	--	7.1	67.7	29.6	--
Conventional Electricity Generation	--	X	65.2	92.5	X	X
Other Nonprocess Use	90.8	X	91.3	86.6	X	X
End Use Not Reported	59.9	X	X	49.5	77.6	X

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	0.1	5.2	1.7	0.3	0.2	0.1
Indirect Uses-Boiler Fuel	0.3	0.1	2.0	0.1	0.6	0.1
Conventional Boiler Use	0.3	0.1	4.9	0.1	0.1	X
CHP and/or Cogeneration Process	--	0.1	1.3	0.2	1.7	0.1
Direct Uses-Total Process	0.1	6.7	3.7	0.4	0.2	0.1
Process Heating	0.7	4.1	6.8	0.5	0.1	X
Process Cooling and Refrigeration	0.3	79.0	57.8	0.1	0.1	X
Machine Drive	0.1	0.1	4.4	2.7	30.2	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	3.7	61.5	14.6	0.3	3.5	0.1
Direct Uses-Total Nonprocess	0.4	0.1	1.1	2.0	6.6	0.1
Facility HVAC (f)	0.3	0.1	27.3	3.6	3.0	X
Facility Lighting	0.4	--	--	--	--	--
Other Facility Support	0.5	X	2.6	4.1	0.2	X
Onsite Transportation	21.8	--	1.1	40.2	9.3	--
Conventional Electricity Generation	--	X	0.5	0.1	6.7	X
Other Nonprocess Use	2.1	X	1.1	1.8	0.1	0.1
End Use Not Reported	1.4	0.1	17.6	0.2	1.3	X

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	0.1
Conventional Boiler Use	0.1	0.1	0.1	0.1	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	0.1
Direct Uses-Total Process	0.1	0.1	0.1	0.2	0.1	X
Process Heating	0.5	0.1	0.1	0.2	0.1	X
Process Cooling and Refrigeration	0.3	X	X	0.1	0.1	X
Machine Drive	0.1	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	0.1	X	0.1	1.1	0.5	X
Facility HVAC (f)	0.1	X	0.1	2.5	0.1	X
Facility Lighting	0.2	--	--	--	--	--
Other Facility Support	0.2	X	0.1	6.0	0.1	X
Onsite Transportation	X	--	0.1	X	0.1	--
Conventional Electricity Generation	--	X	0.1	0.1	6.7	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	0.1	0.1	0.1	0.1	0.1	X

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	3.5	13.5	3.8	5.6	6.0	X
Indirect Uses-Boiler Fuel	4.0	X	2.5	7.3	47.5	X
Conventional Boiler Use	4.0	X	0.3	12.3	21.1	X
CHP and/or Cogeneration Process	--	X	2.9	7.8	49.4	X
Direct Uses-Total Process	3.6	13.5	5.3	6.4	4.8	X
Process Heating	9.1	10.1	7.8	7.5	5.5	X
Process Cooling and Refrigeration	6.6	79.0	57.8	0.1	X	X
Machine Drive	3.6	0.1	8.2	9.8	11.5	X
Electro-Chemical Processes	4.5	--	--	--	--	--
Other Process Use	1.0	61.5	14.1	5.6	13.0	X
Direct Uses-Total Nonprocess	5.4	0.1	3.9	8.9	26.9	X
Facility HVAC (f)	6.7	0.1	11.4	9.5	32.4	X
Facility Lighting	6.1	--	--	--	--	--
Other Facility Support	4.7	X	3.9	11.9	11.0	X
Onsite Transportation	19.7	--	4.4	59.7	49.8	--
Conventional Electricity Generation	--	X	1.2	0.1	X	X
Other Nonprocess Use	16.1	X	21.5	28.5	0.1	X

	End Use Not Reported	36.4	X	54.8	42.2	42.4	X
324122	Asphalt Shingle and Coating Materials						
	TOTAL FUEL CONSUMPTION	0.9	0.1	19.7	1.3	19.7	0.1
	Indirect Uses-Boiler Fuel	1.5	0.1	0.2	3.0	0.1	X
	Conventional Boiler Use	1.5	X	6.9	2.3	0.1	X
	CHP and/or Cogeneration Process	--	0.1	0.1	4.0	0.1	X
	Direct Uses-Total Process	0.7	X	45.9	1.1	65.5	0.1
	Process Heating	7.2	X	26.8	1.1	6.5	X
	Process Cooling and Refrigeration	2.2	X	X	0.1	X	X
	Machine Drive	0.5	X	68.7	0.1	79.6	X
	Electro-Chemical Processes	0.1	--	--	--	--	--
	Other Process Use	0.1	X	53.3	1.3	54.6	0.1
	Direct Uses-Total Nonprocess	2.4	X	0.1	1.3	4.0	X
	Facility HVAC (f)	0.7	X	0.1	1.3	0.1	X
	Facility Lighting	4.3	--	--	--	--	--
	Other Facility Support	2.8	X	0.1	2.3	0.1	X
	Onsite Transportation	0.4	--	0.1	0.1	4.2	--
	Conventional Electricity Generation	--	X	0.1	0.1	X	X
	Other Nonprocess Use	X	X	5.4	76.6	0.1	X
	End Use Not Reported	X	X	0.1	X	31.1	X
324199	Other Petroleum and Coal Products						
	TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	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	X	X
	CHP and/or Cogeneration Process	--	X	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	X
	Process Cooling and Refrigeration	0.0	X	X	X	0.0	X
	Machine Drive	0.0	X	0.0	X	X	X
	Electro-Chemical Processes	X	--	--	--	--	--
	Other Process Use	0.0	X	0.0	X	0.0	0.0
	Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	0.0
	Facility HVAC (f)	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	X	X	X
	Other Nonprocess Use	0.0	X	0.0	0.0	X	0.0
	End Use Not Reported	X	X	X	X	0.0	X
325	CHEMICALS						
	TOTAL FUEL CONSUMPTION	1.4	4.8	4.2	1.0	6.7	3.3
	Indirect Uses-Boiler Fuel	4.0	4.8	7.7	1.5	9.0	2.4
	Conventional Boiler Use	4.0	0.2	15.3	3.9	7.8	2.4
	CHP and/or Cogeneration Process	--	24.4	8.8	1.5	12.2	2.7
	Direct Uses-Total Process	1.3	24.1	4.4	1.1	9.9	30.8
	Process Heating	3.3	24.1	39.4	1.3	18.1	30.9
	Process Cooling and Refrigeration	1.9	X	30.8	9.6	67.6	X
	Machine Drive	1.8	X	3.6	2.1	40.9	70.3
	Electro-Chemical Processes	0.7	--	--	--	--	--
	Other Process Use	7.3	X	6.1	4.2	11.6	X
	Direct Uses-Total Nonprocess	3.9	0.1	7.3	4.0	14.3	25.8
	Facility HVAC (f)	4.1	0.1	68.0	4.1	36.3	25.8
	Facility Lighting	5.0	--	--	--	--	--
	Other Facility Support	3.7	X	2.3	6.7	19.6	X
	Onsite Transportation	10.9	--	4.2	36.0	15.8	--
	Conventional Electricity Generation	--	X	19.3	36.7	17.2	X
	Other Nonprocess Use	17.4	X	6.2	34.3	42.7	X
	End Use Not Reported	16.0	X	8.2	14.0	3.3	6.1
325110	Petrochemicals						
	TOTAL FUEL CONSUMPTION	0.1	X	0.1	0.1	0.4	X

Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	0.1	X
Conventional Boiler Use	0.1	X	0.1	0.1	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	X
Direct Uses-Total Process	0.1	X	0.1	0.1	0.1	X
Process Heating	0.1	X	X	0.1	0.1	X
Process Cooling and Refrigeration	0.1	X	X	0.1	X	X
Machine Drive	0.1	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	X	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	0.1	X	0.1	0.1	76.5	X
Facility HVAC (f)	0.2	X	0.1	0.1	85.3	X
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.2	X	0.1	0.1	X	X
Onsite Transportation	0.1	--	0.1	X	72.5	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	X	X	0.1	X	0.1	X

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	6.9	X	37.8	1.4	50.2	X
Indirect Uses-Boiler Fuel	0.3	X	7.2	6.8	73.7	X
Conventional Boiler Use	0.3	X	0.1	0.5	X	X
CHP and/or Cogeneration Process	--	X	30.0	15.0	73.7	X
Direct Uses-Total Process	6.8	X	5.9	1.9	X	X
Process Heating	13.0	X	19.5	3.8	X	X
Process Cooling and Refrigeration	8.6	X	57.0	19.1	X	X
Machine Drive	7.1	X	0.2	0.8	X	X
Electro-Chemical Processes	24.5	--	--	--	--	--
Other Process Use	X	X	X	0.8	X	X
Direct Uses-Total Nonprocess	8.9	X	55.5	0.2	56.3	X
Facility HVAC (f)	2.9	X	88.5	0.2	34.2	X
Facility Lighting	8.4	--	--	--	--	--
Other Facility Support	25.7	X	19.1	36.3	37.3	X
Onsite Transportation	76.4	--	66.2	51.1	64.4	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	85.4	X	13.9	X	X	X
End Use Not Reported	0.1	X	X	X	85.9	X

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	1.6	X	3.0	3.2	14.5	0.1
Indirect Uses-Boiler Fuel	6.3	X	13.5	3.8	21.7	0.1
Conventional Boiler Use	6.3	X	17.7	5.4	83.1	0.1
CHP and/or Cogeneration Process	--	X	20.9	5.1	22.0	0.1
Direct Uses-Total Process	1.4	X	19.2	3.9	19.3	0.1
Process Heating	7.3	X	39.5	7.5	19.4	0.1
Process Cooling and Refrigeration	2.6	X	0.1	14.5	X	X
Machine Drive	3.4	X	5.1	3.2	0.1	X
Electro-Chemical Processes	1.2	--	--	--	--	--
Other Process Use	9.5	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	6.6	X	2.1	11.0	15.3	X
Facility HVAC (f)	8.0	X	0.8	11.0	47.1	X
Facility Lighting	5.9	--	--	--	--	--
Other Facility Support	6.2	X	0.1	32.4	42.8	X
Onsite Transportation	32.9	--	2.3	X	12.8	--
Conventional Electricity Generation	--	X	17.5	X	X	X
Other Nonprocess Use	0.1	X	53.0	X	0.1	X
End Use Not Reported	51.0	X	X	52.7	35.4	X

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	3.1	X	25.8	3.8	8.6	2.6
Indirect Uses-Boiler Fuel	10.4	X	X	5.7	X	5.9
Conventional Boiler Use	10.4	X	X	10.1	X	0.1
CHP and/or Cogeneration Process	--	X	X	5.9	X	7.1
Direct Uses-Total Process	3.1	X	43.0	2.7	0.1	9.3
Process Heating	4.2	X	X	3.0	X	9.3
Process Cooling and Refrigeration	5.0	X	X	0.1	X	X

Machine Drive	3.0	X	43.0	29.1	0.1	X
Electro-Chemical Processes	7.2	--	--	--	--	--
Other Process Use	32.2	X	X	13.7	X	X
Direct Uses-Total Nonprocess	6.9	X	24.2	5.0	9.8	X
Facility HVAC (f)	11.7	X	X	5.9	71.6	X
Facility Lighting	4.3	--	--	--	--	--
Other Facility Support	4.3	X	0.1	6.8	0.1	X
Onsite Transportation	13.1	--	25.7	0.1	0.4	--
Conventional Electricity Generation	--	X	64.6	X	X	X
Other Nonprocess Use	X	X	6.7	0.1	X	X
End Use Not Reported	36.1	X	0.1	53.1	0.1	0.1

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	X
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	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	0.0	X	X	X
Machine Drive	0.0	X	0.0	X	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	X
Facility HVAC (f)	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	X	X	X
Other Nonprocess Use	X	X	X	0.0	X	X
End Use Not Reported	0.0	X	X	X	X	X

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	2.2	0.1	2.6	1.4	19.7	5.7
Indirect Uses-Boiler Fuel	8.6	0.1	13.5	1.3	0.2	0.2
Conventional Boiler Use	8.6	0.1	16.8	2.5	0.1	15.3
CHP and/or Cogeneration Process	--	X	0.1	1.7	74.2	0.1
Direct Uses-Total Process	1.5	X	1.3	2.6	24.8	X
Process Heating	7.6	X	0.2	3.4	26.4	X
Process Cooling and Refrigeration	2.5	X	X	34.9	74.2	X
Machine Drive	1.6	X	0.1	0.2	43.2	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	13.6	X	11.1	4.0	0.1	X
Direct Uses-Total Nonprocess	10.1	X	7.4	11.3	26.9	X
Facility HVAC (f)	7.2	X	63.8	3.7	83.8	X
Facility Lighting	14.8	--	--	--	--	--
Other Facility Support	3.1	X	1.3	3.7	46.2	X
Onsite Transportation	29.5	--	14.3	44.1	22.6	--
Conventional Electricity Generation	--	X	9.5	15.0	X	X
Other Nonprocess Use	46.2	X	6.1	82.0	80.9	X
End Use Not Reported	36.2	X	18.6	61.5	10.0	25.7

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	1.6	17.8	5.0	0.8	4.6	32.4
Indirect Uses-Boiler Fuel	4.0	13.0	1.0	0.4	4.8	0.1
Conventional Boiler Use	4.0	49.0	3.0	3.4	0.1	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	0.3	9.6	X
Direct Uses-Total Process	1.5	50.0	1.6	2.6	1.7	58.0
Process Heating	8.1	50.0	X	3.1	6.7	58.0
Process Cooling and Refrigeration	3.6	X	43.6	0.1	89.5	X
Machine Drive	2.1	X	1.6	0.3	65.1	X
Electro-Chemical Processes	1.1	--	--	--	--	--
Other Process Use	10.3	X	40.1	6.9	0.4	X
Direct Uses-Total Nonprocess	4.3	0.1	9.5	5.3	25.0	42.3
Facility HVAC (f)	4.3	0.1	15.9	6.8	27.4	42.3
Facility Lighting	5.5	--	--	--	--	--

Other Facility Support	5.6	X	20.8	4.2	23.6	X
Onsite Transportation	21.4	--	9.6	82.4	31.3	--
Conventional Electricity Generation	--	X	15.0	77.1	X	X
Other Nonprocess Use	2.0	X	14.3	72.5	1.3	X
End Use Not Reported	0.6	X	X	0.1	1.1	X

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	0.0	X	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	X	X
CHP and/or Cogeneration Process	--	X	0.0	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	X	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	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 (f)	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	0.0	0.0	0.0	X
End Use Not Reported	0.0	X	0.0	X	0.0	X

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	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	0.0	0.0
CHP and/or Cogeneration Process	--	X	0.0	0.0	X	0.0
Direct Uses-Total Process	0.0	0.0	0.0	0.0	0.0	0.0
Process Heating	0.0	0.0	0.0	0.0	0.0	0.0
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
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X
Other Nonprocess Use	0.0	X	0.0	X	0.0	X
End Use Not Reported	X	X	X	0.0	0.0	X

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	4.0	0.1	4.6	3.3	0.7	X
Indirect Uses-Boiler Fuel	1.4	0.1	X	0.4	0.0	X
Conventional Boiler Use	1.4	X	X	0.2	X	X
CHP and/or Cogeneration Process	--	0.1	X	0.5	0.0	X
Direct Uses-Total Process	4.8	X	0.1	4.6	0.1	X
Process Heating	0.2	X	0.1	5.1	0.1	X
Process Cooling and Refrigeration	0.2	X	0.1	0.1	X	X
Machine Drive	5.8	X	0.1	0.1	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	X	X
Direct Uses-Total Nonprocess	4.3	X	5.9	29.5	14.2	X
Facility HVAC (f)	2.2	X	X	32.3	5.2	X
Facility Lighting	7.1	--	--	--	--	--
Other Facility Support	3.9	X	X	19.5	X	X
Onsite Transportation	0.1	--	7.7	X	14.5	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	43.5	X	0.1	X	X	X
End Use Not Reported	0.1	X	X	0.1	0.1	X

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	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	X	X	0.0	X	X
CHP and/or Cogeneration Process	--	0.0	0.0	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	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	X	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	X	X	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X	X
Other Nonprocess Use	0.0	X	0.0	X	X	X
End Use Not Reported	0.0	X	X	0.0	X	X

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	10.5	X	31.9	2.5	22.7	0.1
Indirect Uses-Boiler Fuel	3.5	X	0.2	2.4	16.1	0.1
Conventional Boiler Use	3.5	X	0.1	4.8	0.4	0.1
CHP and/or Cogeneration Process	--	X	1.9	1.2	20.6	0.1
Direct Uses-Total Process	11.0	X	35.4	3.3	23.1	X
Process Heating	6.0	X	78.1	3.7	5.3	X
Process Cooling and Refrigeration	10.3	X	0.1	56.5	X	X
Machine Drive	13.6	X	0.1	47.6	0.1	X
Electro-Chemical Processes	2.3	--	--	--	--	--
Other Process Use	4.0	X	38.4	4.4	55.5	X
Direct Uses-Total Nonprocess	10.7	X	64.3	11.1	34.1	0.1
Facility HVAC (f)	9.8	X	82.8	12.3	25.7	0.1
Facility Lighting	16.7	--	--	--	--	--
Other Facility Support	3.1	X	19.7	3.0	8.8	X
Onsite Transportation	4.7	--	8.0	11.2	14.0	--
Conventional Electricity Generation	--	X	2.9	41.3	1.3	X
Other Nonprocess Use	8.3	X	9.9	8.3	66.4	X
End Use Not Reported	17.1	X	22.0	97.5	X	X

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	1.8	X	36.8	1.5	25.5	0.1
Indirect Uses-Boiler Fuel	7.1	X	0.2	1.1	40.1	0.1
Conventional Boiler Use	7.1	X	0.1	1.6	0.4	0.1
CHP and/or Cogeneration Process	--	X	1.3	1.5	83.8	0.1
Direct Uses-Total Process	1.6	X	37.4	4.1	26.8	X
Process Heating	2.4	X	78.1	4.1	5.3	X
Process Cooling and Refrigeration	2.0	X	0.1	0.9	X	X
Machine Drive	2.0	X	0.1	47.6	0.1	X
Electro-Chemical Processes	4.4	--	--	--	--	--
Other Process Use	0.6	X	40.2	5.1	83.2	X
Direct Uses-Total Nonprocess	2.2	X	69.1	5.8	19.9	0.1
Facility HVAC (f)	2.2	X	82.8	6.5	28.9	0.1
Facility Lighting	2.3	--	--	--	--	--
Other Facility Support	4.3	X	23.3	2.6	11.0	X
Onsite Transportation	3.1	--	9.5	24.9	24.2	--
Conventional Electricity Generation	--	X	4.2	59.4	49.3	X
Other Nonprocess Use	11.1	X	0.2	12.1	0.1	X
End Use Not Reported	17.1	X	X	97.5	X	X

325992 Photographic Film, Paper, Plate, and Chemicals

TOTAL FUEL CONSUMPTION	0.7	0.1	0.0	3.2	39.7	X
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	X
Conventional Boiler Use	0.1	X	X	0.1	X	X

CHP and/or Cogeneration Process	--	0.1	0.1	0.1	0.1	X
Direct Uses-Total Process	0.9	X	0.0	13.7	0.1	X
Process Heating	0.1	X	X	14.4	0.1	X
Process Cooling and Refrigeration	0.8	X	X	X	0.1	X
Machine Drive	1.3	X	0.0	0.1	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.1	X	X	0.1	X	X
Direct Uses-Total Nonprocess	0.4	X	0.1	0.6	0.1	X
Facility HVAC (f)	0.5	X	0.0	0.6	0.1	X
Facility Lighting	0.2	--	--	--	--	--
Other Facility Support	0.4	X	0.1	0.4	0.1	X
Onsite Transportation	1.6	--	0.1	X	0.1	--
Conventional Electricity Generation	--	X	0.1	0.0	X	X
Other Nonprocess Use	0.1	X	0.1	0.0	X	X
End Use Not Reported	0.1	X	X	0.1	60.4	X

326 PLASTICS AND RUBBER PRODUCTS

TOTAL FUEL CONSUMPTION	9.9	X	70.6	12.4	16.1	62.3
Indirect Uses-Boiler Fuel	40.5	X	67.9	18.4	46.5	64.2
Conventional Boiler Use	40.5	X	67.9	27.3	46.6	97.5
CHP and/or Cogeneration Process	--	X	X	25.8	0.1	66.4
Direct Uses-Total Process	9.1	X	77.0	21.4	39.2	X
Process Heating	16.5	X	79.4	23.2	71.5	X
Process Cooling and Refrigeration	11.8	X	X	60.6	X	X
Machine Drive	9.9	X	41.5	48.2	67.7	X
Electro-Chemical Processes	56.2	--	--	--	--	--
Other Process Use	53.6	X	X	58.1	56.1	X
Direct Uses-Total Nonprocess	16.4	X	79.1	16.8	18.4	97.5
Facility HVAC (f)	16.7	X	54.8	17.5	41.3	97.5
Facility Lighting	18.1	--	--	--	--	--
Other Facility Support	27.8	X	73.1	30.7	98.9	X
Onsite Transportation	23.7	--	37.2	73.7	14.7	--
Conventional Electricity Generation	--	X	50.6	X	X	X
Other Nonprocess Use	96.7	X	97.0	97.2	99.0	X
End Use Not Reported	67.6	X	0.1	98.8	38.1	X

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	3.5	5.6	16.9	4.1	14.9	0.9
Indirect Uses-Boiler Fuel	9.7	79.8	78.4	20.2	48.8	0.1
Conventional Boiler Use	9.7	X	85.6	17.2	66.5	X
CHP and/or Cogeneration Process	--	79.8	79.2	23.7	50.9	0.1
Direct Uses-Total Process	1.9	1.5	28.3	2.4	28.8	0.9
Process Heating	1.9	1.5	4.3	2.4	36.7	0.9
Process Cooling and Refrigeration	4.3	X	X	4.1	0.1	X
Machine Drive	2.4	X	34.9	14.2	47.8	30.3
Electro-Chemical Processes	32.2	--	--	--	--	--
Other Process Use	12.7	X	71.4	3.2	82.9	X
Direct Uses-Total Nonprocess	6.0	99.0	16.3	9.1	10.7	61.7
Facility HVAC (f)	8.0	99.0	26.5	9.7	27.6	61.7
Facility Lighting	5.4	--	--	--	--	--
Other Facility Support	7.6	X	13.9	13.1	69.0	X
Onsite Transportation	10.6	--	15.6	3.6	10.5	--
Conventional Electricity Generation	--	X	18.1	0.2	0.1	X
Other Nonprocess Use	14.8	X	48.6	0.1	65.4	X
End Use Not Reported	65.5	X	27.3	55.4	44.9	0.1

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	1.8	59.3	8.0	3.3	4.7	3.2
Indirect Uses-Boiler Fuel	22.1	X	X	4.1	X	X
Conventional Boiler Use	22.1	X	X	2.1	X	X
CHP and/or Cogeneration Process	--	X	X	4.7	X	X
Direct Uses-Total Process	1.8	59.3	3.4	3.6	0.7	3.4
Process Heating	3.6	59.3	34.4	3.6	1.5	3.4
Process Cooling and Refrigeration	13.4	X	X	X	X	X
Machine Drive	1.9	X	7.9	0.1	2.2	X
Electro-Chemical Processes	34.7	--	--	--	--	--

Other Process Use	0.3	X	0.5	0.9	0.1	X
Direct Uses-Total Nonprocess	5.4	X	9.7	3.3	4.2	X
Facility HVAC (f)	8.6	X	22.1	3.9	9.5	X
Facility Lighting	4.9	--	--	--	--	--
Other Facility Support	2.4	X	X	8.3	43.5	X
Onsite Transportation	3.2	--	5.0	11.6	4.4	--
Conventional Electricity Generation	--	X	51.3	0.1	0.1	X
Other Nonprocess Use	86.0	X	40.8	0.1	X	X
End Use Not Reported	0.1	X	0.1	0.1	33.0	0.1

327211 Flat Glass

TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	X
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	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	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X
Other Nonprocess Use	X	X	0.0	X	X	X
End Use Not Reported	0.0	X	0.0	0.0	0.0	X

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	1.0	X	0.1	0.9	0.5	X
Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	X	X
Conventional Boiler Use	0.1	X	0.1	0.5	X	X
CHP and/or Cogeneration Process	--	X	0.1	0.1	X	X
Direct Uses-Total Process	0.6	X	0.1	1.0	0.3	X
Process Heating	0.6	X	0.1	1.0	0.4	X
Process Cooling and Refrigeration	0.3	X	X	0.1	X	X
Machine Drive	1.4	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	4.2	X	0.2	4.1	0.5	X
Facility HVAC (f)	4.9	X	X	4.3	0.1	X
Facility Lighting	4.5	--	--	--	--	--
Other Facility Support	3.9	X	X	0.9	X	X
Onsite Transportation	0.3	--	0.3	0.1	0.6	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	X	X	0.1	X	0.1	X
End Use Not Reported	X	X	X	X	18.4	X

327213 Glass Containers

TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	X
Indirect Uses-Boiler Fuel	0.0	X	X	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	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	0.0	0.0	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	0.0	X	0.0	X	X	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X
Other Nonprocess Use	X	X	0.0	X	X	X
End Use Not Reported	X	X	X	X	0.0	X

327215 Glass Products from Purchased Glass

TOTAL FUEL CONSUMPTION	1.8	79.8	3.2	13.7	11.7	81.2
Indirect Uses-Boiler Fuel	1.1	79.8	2.1	4.6	60.1	X
Conventional Boiler Use	1.1	X	X	13.7	0.1	X
CHP and/or Cogeneration Process	--	79.8	2.1	2.0	68.5	X
Direct Uses-Total Process	2.0	X	32.7	9.5	1.3	X
Process Heating	3.4	X	X	10.0	1.3	X
Process Cooling and Refrigeration	1.4	X	X	56.8	X	X
Machine Drive	1.5	X	33.6	2.2	4.9	X
Electro-Chemical Processes	7.0	--	--	--	--	--
Other Process Use	8.2	X	0.1	0.1	16.2	X
Direct Uses-Total Nonprocess	2.2	X	1.4	39.5	16.7	81.2
Facility HVAC (f)	2.4	X	X	38.2	29.9	81.2
Facility Lighting	2.0	--	--	--	--	--
Other Facility Support	4.2	X	X	66.7	45.7	X
Onsite Transportation	1.5	--	2.6	0.1	9.5	--
Conventional Electricity Generation	--	X	3.9	7.9	0.1	X
Other Nonprocess Use	11.7	X	0.1	0.1	0.1	X
End Use Not Reported	0.3	X	1.3	1.5	2.9	X

327310 Cements

TOTAL FUEL CONSUMPTION	0.8	0.1	6.4	2.1	1.2	0.5
Indirect Uses-Boiler Fuel	18.6	X	X	0.1	X	0.1
Conventional Boiler Use	18.6	X	X	X	X	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	0.1
Direct Uses-Total Process	0.8	0.1	14.5	2.1	0.1	0.5
Process Heating	1.8	0.1	3.2	2.1	0.1	0.5
Process Cooling and Refrigeration	0.1	X	X	0.1	0.1	X
Machine Drive	1.1	X	32.3	16.7	0.1	30.3
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	X	0.1	X
Direct Uses-Total Nonprocess	1.1	X	0.8	2.2	1.7	X
Facility HVAC (f)	0.6	X	0.1	2.5	0.1	X
Facility Lighting	2.9	--	--	--	--	--
Other Facility Support	1.3	X	X	0.1	0.1	X
Onsite Transportation	1.7	--	0.8	X	4.4	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.5	X	0.1	X	0.1	X
End Use Not Reported	0.1	X	0.1	0.1	0.1	X

327410 Lime

TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	0.0
Indirect Uses-Boiler Fuel	0.0	X	X	X	X	X
Conventional Boiler Use	0.0	X	X	X	X	X
CHP and/or Cogeneration Process	--	X	X	X	X	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	X	X	X
Machine Drive	0.0	X	0.0	X	0.0	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	0.0	X	0.0	X	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X	X
Other Nonprocess Use	X	X	X	X	X	X
End Use Not Reported	0.0	X	0.0	X	0.0	X

327420 Gypsum

TOTAL FUEL CONSUMPTION	1.8	X	0.1	0.1	1.4	X
Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	X	X
Conventional Boiler Use	0.1	X	0.1	0.1	X	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	X
Direct Uses-Total Process	2.1	X	0.1	0.1	X	X
Process Heating	0.1	X	0.1	0.1	X	X
Process Cooling and Refrigeration	0.1	X	X	X	X	X
Machine Drive	2.3	X	0.1	0.1	X	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	X	X	0.1	X	X	X
Direct Uses-Total Nonprocess	1.1	X	0.1	0.1	1.4	X
Facility HVAC (f)	1.5	X	0.1	0.1	0.1	X
Facility Lighting	1.5	--	--	--	--	--
Other Facility Support	0.1	X	0.1	0.1	0.1	X
Onsite Transportation	0.1	--	0.1	X	1.4	--
Conventional Electricity Generation	--	X	X	0.1	X	X
Other Nonprocess Use	X	X	X	X	X	X
End Use Not Reported	X	X	X	X	X	X

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	0.6	X	8.0	0.8	3.8	X
Indirect Uses-Boiler Fuel	0.9	X	0.0	0.1	X	X
Conventional Boiler Use	0.9	X	X	0.1	X	X
CHP and/or Cogeneration Process	--	X	0.0	0.1	X	X
Direct Uses-Total Process	0.6	X	0.1	0.6	0.1	X
Process Heating	0.1	X	X	0.6	0.1	X
Process Cooling and Refrigeration	1.1	X	X	0.0	0.1	X
Machine Drive	1.3	X	0.1	4.2	0.1	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	2.1	X	8.4	4.3	5.2	X
Facility HVAC (f)	3.4	X	0.1	4.5	0.0	X
Facility Lighting	1.3	--	--	--	--	--
Other Facility Support	1.8	X	0.1	2.9	0.1	X
Onsite Transportation	0.1	--	22.1	0.1	5.2	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	57.4	X
End Use Not Reported	0.1	X	X	0.1	0.1	X

331 PRIMARY METALS

TOTAL FUEL CONSUMPTION	1.1	0.1	0.8	0.6	2.5	0.1
Indirect Uses-Boiler Fuel	2.3	0.1	0.1	0.8	12.6	X
Conventional Boiler Use	2.3	0.1	0.1	2.7	0.1	X
CHP and/or Cogeneration Process	--	0.1	0.1	0.2	14.5	X
Direct Uses-Total Process	1.2	0.1	0.4	0.7	2.9	0.1
Process Heating	1.6	0.1	0.7	0.7	3.4	0.1
Process Cooling and Refrigeration	0.9	X	13.5	0.5	0.1	X
Machine Drive	3.1	0.1	0.4	12.5	2.8	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	1.1	X	1.9	0.1	8.1	0.1
Direct Uses-Total Nonprocess	1.1	0.1	1.0	0.9	3.9	X
Facility HVAC (f)	1.0	0.1	10.6	1.0	12.4	X
Facility Lighting	1.5	--	--	--	--	--
Other Facility Support	1.9	X	11.2	0.6	2.9	X
Onsite Transportation	1.0	--	1.0	0.3	4.2	--
Conventional Electricity Generation	--	X	1.3	53.6	15.2	X
Other Nonprocess Use	2.4	X	0.1	0.2	8.2	X
End Use Not Reported	0.4	0.1	0.1	0.5	12.0	X

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	0.2	0.1	0.1	0.3	0.3	0.1
Indirect Uses-Boiler Fuel	1.3	0.1	X	1.2	0.1	X
Conventional Boiler Use	1.3	0.1	X	3.7	X	X
CHP and/or Cogeneration Process	--	0.1	X	0.1	0.1	X
Direct Uses-Total Process	0.2	X	0.1	0.2	0.1	0.1

Process Heating	0.1	X	0.1	0.3	0.1	0.1
Process Cooling and Refrigeration	0.1	X	X	0.1	0.1	X
Machine Drive	0.3	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	0.1
Direct Uses-Total Nonprocess	1.2	X	0.1	0.3	0.5	X
Facility HVAC (f)	0.8	X	0.1	0.4	0.1	X
Facility Lighting	1.9	--	--	--	--	--
Other Facility Support	0.4	X	X	0.1	0.1	X
Onsite Transportation	0.1	--	0.1	0.1	0.5	--
Conventional Electricity Generation	--	X	0.1	X	0.1	X
Other Nonprocess Use	0.1	X	0.1	0.1	0.1	X
End Use Not Reported	0.1	0.1	0.1	0.1	0.1	X

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	18.6	X	6.2	5.8	13.8	X
Indirect Uses-Boiler Fuel	3.5	X	0.1	5.2	0.1	X
Conventional Boiler Use	3.5	X	X	7.5	X	X
CHP and/or Cogeneration Process	--	X	0.1	7.5	0.1	X
Direct Uses-Total Process	19.5	X	1.0	7.7	4.9	X
Process Heating	1.5	X	0.1	2.0	2.9	X
Process Cooling and Refrigeration	2.2	X	97.5	31.6	X	X
Machine Drive	29.2	X	0.1	85.8	10.3	X
Electro-Chemical Processes	35.8	--	--	--	--	--
Other Process Use	8.4	X	19.3	1.2	2.6	X
Direct Uses-Total Nonprocess	13.9	X	6.8	8.2	9.9	X
Facility HVAC (f)	11.1	X	46.9	8.6	67.9	X
Facility Lighting	14.8	--	--	--	--	--
Other Facility Support	26.2	X	X	6.4	3.0	X
Onsite Transportation	9.5	--	6.6	0.1	8.7	--
Conventional Electricity Generation	--	X	66.3	0.1	97.5	X
Other Nonprocess Use	73.6	X	X	0.1	0.5	X
End Use Not Reported	0.1	X	0.1	0.1	65.4	X

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.4	1.3	X
Indirect Uses-Boiler Fuel	0.4	0.1	X	1.2	2.8	X
Conventional Boiler Use	0.4	0.1	X	12.4	0.1	X
CHP and/or Cogeneration Process	--	X	X	0.1	33.9	X
Direct Uses-Total Process	0.1	0.1	0.1	0.2	0.8	X
Process Heating	0.3	0.1	0.1	0.2	1.4	X
Process Cooling and Refrigeration	4.3	X	0.1	16.0	X	X
Machine Drive	0.3	X	0.1	0.4	1.5	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	0.3	0.1	0.1	1.2	2.6	X
Facility HVAC (f)	0.2	0.1	0.1	0.4	5.2	X
Facility Lighting	0.5	--	--	--	--	--
Other Facility Support	0.6	X	X	0.2	13.6	X
Onsite Transportation	7.3	--	0.1	0.2	2.7	--
Conventional Electricity Generation	--	X	0.1	83.1	X	X
Other Nonprocess Use	0.1	X	0.1	X	0.1	X
End Use Not Reported	4.6	X	0.1	0.1	1.1	X

331314 Secondary Smelting and Alloying of Aluminum

TOTAL FUEL CONSUMPTION	0.1	X	0.1	0.1	0.1	X
Indirect Uses-Boiler Fuel	0.1	X	X	0.1	X	X
Conventional Boiler Use	0.1	X	X	0.1	X	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	X
Direct Uses-Total Process	0.1	X	0.1	0.1	0.1	X
Process Heating	0.1	X	0.1	0.1	0.0	X
Process Cooling and Refrigeration	0.1	X	X	X	X	X
Machine Drive	0.1	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	X	0.1	X
Direct Uses-Total Nonprocess	0.1	X	0.1	0.1	0.1	X

Facility HVAC (f)	0.1	X	0.1	0.1	0.1	X
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.1	X	X	0.1	X	X
Onsite Transportation	0.1	--	0.1	X	0.1	--
Conventional Electricity Generation	--	X	0.1	0.1	X	X
Other Nonprocess Use	0.1	X	0.1	X	0.1	X
End Use Not Reported	0.1	X	X	0.1	0.1	X

331315 Aluminum Sheet, Plate and Foils

TOTAL FUEL CONSUMPTION	1.1	0.1	0.1	1.0	5.4	X
Indirect Uses-Boiler Fuel	0.1	X	X	14.5	X	X
Conventional Boiler Use	0.1	X	X	14.8	X	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	X
Direct Uses-Total Process	0.7	0.1	0.1	0.4	0.1	X
Process Heating	0.5	0.1	X	0.4	0.1	X
Process Cooling and Refrigeration	12.5	X	0.1	0.1	X	X
Machine Drive	0.5	X	0.1	0.1	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	X	0.1	0.1	X
Direct Uses-Total Nonprocess	4.0	X	0.1	0.1	6.2	X
Facility HVAC (f)	3.6	X	X	0.1	X	X
Facility Lighting	4.3	--	--	--	--	--
Other Facility Support	4.1	X	X	0.1	0.1	X
Onsite Transportation	22.5	--	0.1	0.1	6.2	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	0.1	X	0.1	X	X	X
End Use Not Reported	X	X	X	X	X	X

331318 Other Aluminum Rolling, Drawing and Extruding

TOTAL FUEL CONSUMPTION	0.7	0.0	0.3	1.2	2.4	X
Indirect Uses-Boiler Fuel	1.8	X	X	6.3	2.8	X
Conventional Boiler Use	1.8	X	X	10.6	0.1	X
CHP and/or Cogeneration Process	--	X	X	8.0	33.9	X
Direct Uses-Total Process	0.9	X	0.1	0.8	1.2	X
Process Heating	1.2	X	X	0.7	2.6	X
Process Cooling and Refrigeration	1.5	X	X	16.9	X	X
Machine Drive	1.0	X	0.1	6.3	1.6	X
Electro-Chemical Processes	1.9	--	--	--	--	--
Other Process Use	0.1	X	0.0	0.0	0.1	X
Direct Uses-Total Nonprocess	0.9	0.0	0.3	7.5	3.7	X
Facility HVAC (f)	0.9	0.0	0.1	2.1	8.0	X
Facility Lighting	1.2	--	--	--	--	--
Other Facility Support	2.2	X	X	5.7	33.9	X
Onsite Transportation	3.7	--	0.4	0.9	3.8	--
Conventional Electricity Generation	--	X	0.1	83.4	X	X
Other Nonprocess Use	0.1	X	0.1	X	X	X
End Use Not Reported	4.8	X	0.1	0.1	23.6	X

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	2.2	X	3.2	3.8	4.1	0.1
Indirect Uses-Boiler Fuel	1.6	X	0.1	0.7	0.1	X
Conventional Boiler Use	1.6	X	0.1	1.2	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	0.8	0.1	X
Direct Uses-Total Process	2.3	X	1.9	5.3	0.3	0.1
Process Heating	1.9	X	0.1	5.4	0.2	X
Process Cooling and Refrigeration	2.4	X	X	X	X	X
Machine Drive	7.7	X	1.2	2.4	0.1	X
Electro-Chemical Processes	0.4	--	--	--	--	--
Other Process Use	2.4	X	60.0	9.5	30.0	0.1
Direct Uses-Total Nonprocess	2.9	X	5.1	3.8	14.2	X
Facility HVAC (f)	2.3	X	13.2	4.1	23.9	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	9.1	X	7.5	5.3	89.0	X
Onsite Transportation	12.7	--	6.3	0.1	16.0	--
Conventional Electricity Generation	--	X	0.4	1.7	X	X
Other Nonprocess Use	2.6	X	0.1	5.7	24.8	X

End Use Not Reported	0.1	X	X	X	20.5	X
331410 Nonferrous Metal (except Aluminum) Smelting and Refining						
TOTAL FUEL CONSUMPTION	0.7	X	0.1	0.9	4.1	0.0
Indirect Uses-Boiler Fuel	0.0	X	0.0	0.1	X	X
Conventional Boiler Use	0.0	X	0.1	0.0	X	X
CHP and/or Cogeneration Process	--	X	0.0	0.1	X	X
Direct Uses-Total Process	0.7	X	0.1	0.8	11.8	0.0
Process Heating	0.5	X	0.0	0.5	0.1	X
Process Cooling and Refrigeration	0.8	X	X	X	X	X
Machine Drive	0.8	X	0.0	0.1	X	X
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	2.6	X	0.0	11.9	50.8	0.0
Direct Uses-Total Nonprocess	1.4	X	0.1	8.0	0.1	X
Facility HVAC (f)	2.7	X	X	9.6	0.0	X
Facility Lighting	1.3	--	--	--	--	--
Other Facility Support	1.5	X	X	0.0	0.1	X
Onsite Transportation	0.1	--	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	0.1	X
End Use Not Reported	0.0	X	X	X	0.0	X
3315 Foundries						
TOTAL FUEL CONSUMPTION	6.8	0.1	4.9	4.4	4.9	0.1
Indirect Uses-Boiler Fuel	15.8	X	0.1	7.3	13.7	X
Conventional Boiler Use	15.8	X	0.1	3.2	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	15.2	15.1	X
Direct Uses-Total Process	7.7	0.1	6.6	5.8	9.3	0.1
Process Heating	12.0	X	13.3	6.1	12.5	0.1
Process Cooling and Refrigeration	5.1	X	X	43.8	0.1	X
Machine Drive	4.0	0.1	6.5	8.9	4.5	X
Electro-Chemical Processes	5.4	--	--	--	--	--
Other Process Use	5.4	X	2.5	4.1	13.7	X
Direct Uses-Total Nonprocess	4.6	0.1	5.4	1.6	2.8	X
Facility HVAC (f)	5.2	0.1	17.6	1.7	2.7	X
Facility Lighting	5.0	--	--	--	--	--
Other Facility Support	6.1	X	36.5	5.5	3.9	X
Onsite Transportation	0.9	--	5.7	6.0	3.5	--
Conventional Electricity Generation	--	X	18.3	40.8	0.1	X
Other Nonprocess Use	4.3	X	0.9	1.0	14.0	X
End Use Not Reported	8.2	X	79.6	19.7	14.7	X
331511 Iron Foundries						
TOTAL FUEL CONSUMPTION	2.5	0.1	1.9	1.4	3.7	0.1
Indirect Uses-Boiler Fuel	9.1	X	0.1	11.2	82.1	X
Conventional Boiler Use	9.1	X	X	3.7	0.0	X
CHP and/or Cogeneration Process	--	X	0.1	12.7	89.0	X
Direct Uses-Total Process	1.9	X	7.1	1.5	3.5	0.1
Process Heating	1.8	X	5.4	1.6	7.7	0.1
Process Cooling and Refrigeration	7.0	X	X	X	X	X
Machine Drive	2.8	X	13.1	0.1	4.1	X
Electro-Chemical Processes	22.7	--	--	--	--	--
Other Process Use	7.7	X	X	5.2	0.1	X
Direct Uses-Total Nonprocess	5.6	0.1	1.8	1.9	3.9	X
Facility HVAC (f)	4.6	0.1	18.5	2.1	3.1	X
Facility Lighting	9.4	--	--	--	--	--
Other Facility Support	2.0	X	50.7	2.7	10.9	X
Onsite Transportation	1.7	--	1.8	X	5.9	--
Conventional Electricity Generation	--	X	0.1	X	0.1	X
Other Nonprocess Use	8.3	X	5.0	0.1	0.1	X
End Use Not Reported	0.1	X	79.6	79.4	52.2	X
331523 Nonferrous Metal Die-Casting Foundries						
TOTAL FUEL CONSUMPTION	1.2	X	3.6	1.4	9.5	X

Indirect Uses-Boiler Fuel	21.0	X	X	13.6	X	X
Conventional Boiler Use	21.0	X	X	0.1	X	X
CHP and/or Cogeneration Process	--	X	X	56.6	X	X
Direct Uses-Total Process	1.1	X	3.3	1.4	15.5	X
Process Heating	2.0	X	X	1.4	18.5	X
Process Cooling and Refrigeration	1.2	X	X	92.1	X	X
Machine Drive	1.2	X	3.5	62.8	1.6	X
Electro-Chemical Processes	23.2	--	--	--	--	--
Other Process Use	0.4	X	0.1	3.2	0.2	X
Direct Uses-Total Nonprocess	3.7	X	3.9	3.9	4.7	X
Facility HVAC (f)	2.5	X	0.1	3.3	14.4	X
Facility Lighting	2.5	--	--	--	--	--
Other Facility Support	15.7	X	0.1	13.6	34.2	X
Onsite Transportation	2.4	--	6.7	32.2	4.8	--
Conventional Electricity Generation	--	X	2.7	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	1.8	X	X	X	1.3	X

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	3.9	0.1	54.9	11.7	4.4	X
Indirect Uses-Boiler Fuel	5.2	X	0.1	6.5	0.1	X
Conventional Boiler Use	5.2	X	0.1	3.9	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	18.3	0.0	X
Direct Uses-Total Process	4.7	0.1	12.5	13.4	1.9	X
Process Heating	2.0	X	13.0	13.8	1.4	X
Process Cooling and Refrigeration	0.6	X	X	8.5	X	X
Machine Drive	8.8	0.1	63.9	2.2	5.0	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	1.3	27.9	X
Direct Uses-Total Nonprocess	1.8	X	75.5	1.4	10.8	X
Facility HVAC (f)	1.4	X	0.1	1.5	1.9	X
Facility Lighting	2.1	--	--	--	--	--
Other Facility Support	3.5	X	X	2.0	0.1	X
Onsite Transportation	5.0	--	75.9	18.8	15.6	--
Conventional Electricity Generation	--	X	X	0.1	X	X
Other Nonprocess Use	40.9	X	X	X	1.2	X
End Use Not Reported	4.8	X	X	0.1	6.4	X

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	8.8	X	29.7	12.0	19.6	X
Indirect Uses-Boiler Fuel	54.8	X	X	34.4	72.4	X
Conventional Boiler Use	54.8	X	X	53.4	78.0	X
CHP and/or Cogeneration Process	--	X	X	41.3	99.5	X
Direct Uses-Total Process	9.1	X	64.9	14.9	38.6	X
Process Heating	15.8	X	99.5	15.6	52.9	X
Process Cooling and Refrigeration	20.3	X	X	88.2	X	X
Machine Drive	11.1	X	54.4	51.6	48.1	X
Electro-Chemical Processes	37.5	--	--	--	--	--
Other Process Use	35.6	X	74.3	61.5	73.6	X
Direct Uses-Total Nonprocess	11.6	X	30.4	11.5	22.1	X
Facility HVAC (f)	13.6	X	57.7	11.8	53.3	X
Facility Lighting	13.1	--	--	--	--	--
Other Facility Support	28.0	X	97.6	31.6	97.7	X
Onsite Transportation	26.4	--	35.1	67.4	20.2	--
Conventional Electricity Generation	--	X	64.0	92.1	X	X
Other Nonprocess Use	44.0	X	67.7	87.9	96.6	X
End Use Not Reported	71.1	X	X	54.1	64.6	X

333 MACHINERY

TOTAL FUEL CONSUMPTION	8.6	99.0	33.6	12.3	29.8	87.6
Indirect Uses-Boiler Fuel	24.0	X	0.1	28.3	98.7	87.6
Conventional Boiler Use	24.0	X	0.1	25.6	X	X
CHP and/or Cogeneration Process	--	X	0.1	38.4	98.7	87.6
Direct Uses-Total Process	9.5	X	39.8	21.7	39.5	X
Process Heating	19.5	X	X	23.5	77.5	X
Process Cooling and Refrigeration	20.7	X	99.0	61.3	99.0	X

Machine Drive	10.0	X	64.7	42.3	54.4	X
Electro-Chemical Processes	42.9	--	--	--	--	--
Other Process Use	27.3	X	40.1	65.6	52.7	X
Direct Uses-Total Nonprocess	10.1	99.0	62.7	11.7	31.0	X
Facility HVAC (f)	12.6	99.0	56.1	11.9	62.2	X
Facility Lighting	9.9	--	--	--	--	--
Other Facility Support	14.0	X	99.0	29.0	52.1	X
Onsite Transportation	21.4	--	37.9	73.5	18.0	--
Conventional Electricity Generation	--	X	16.4	98.8	99.0	X
Other Nonprocess Use	56.7	99.0	75.7	67.3	26.5	X
End Use Not Reported	69.9	X	99.0	73.8	50.0	X

334 COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	4.2	0.1	45.2	12.5	29.3	X
Indirect Uses-Boiler Fuel	9.6	X	12.0	7.7	0.1	X
Conventional Boiler Use	9.6	X	12.0	9.0	0.1	X
CHP and/or Cogeneration Process	--	X	X	15.0	0.1	X
Direct Uses-Total Process	5.1	X	64.4	38.5	37.6	X
Process Heating	14.1	X	90.4	49.9	92.8	X
Process Cooling and Refrigeration	5.3	X	X	30.2	X	X
Machine Drive	6.0	X	30.5	58.3	43.8	X
Electro-Chemical Processes	10.1	--	--	--	--	--
Other Process Use	6.2	X	38.8	13.1	92.6	X
Direct Uses-Total Nonprocess	4.6	0.1	50.4	7.9	31.7	X
Facility HVAC (f)	4.5	0.1	57.5	8.4	45.8	X
Facility Lighting	6.6	--	--	--	--	--
Other Facility Support	7.8	X	84.9	12.4	23.0	X
Onsite Transportation	30.5	--	44.7	89.3	44.4	--
Conventional Electricity Generation	--	X	71.6	54.6	X	X
Other Nonprocess Use	6.1	X	9.2	13.8	0.1	X
End Use Not Reported	25.2	X	X	32.2	81.3	X

334413 Semiconductors and Related Devices

TOTAL FUEL CONSUMPTION	1.3	0.1	0.9	1.5	4.8	X
Indirect Uses-Boiler Fuel	0.5	X	0.1	0.1	0.1	X
Conventional Boiler Use	0.5	X	0.1	0.1	0.1	X
CHP and/or Cogeneration Process	--	X	X	0.2	0.1	X
Direct Uses-Total Process	1.6	X	2.2	1.6	0.1	X
Process Heating	1.8	X	X	0.1	X	X
Process Cooling and Refrigeration	0.7	X	X	0.1	X	X
Machine Drive	3.7	X	0.1	71.7	0.1	X
Electro-Chemical Processes	1.2	--	--	--	--	--
Other Process Use	1.9	X	2.4	2.0	X	X
Direct Uses-Total Nonprocess	1.6	0.1	1.1	3.4	5.8	X
Facility HVAC (f)	1.5	0.1	0.1	3.8	12.8	X
Facility Lighting	2.8	--	--	--	--	--
Other Facility Support	0.6	X	0.1	0.5	0.1	X
Onsite Transportation	0.1	--	0.1	X	1.1	--
Conventional Electricity Generation	--	X	6.9	1.9	X	X
Other Nonprocess Use	2.0	X	0.1	3.7	0.1	X
End Use Not Reported	13.9	X	X	32.2	X	X

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	8.5	X	33.6	9.7	50.0	X
Indirect Uses-Boiler Fuel	44.2	X	X	28.2	89.5	X
Conventional Boiler Use	44.2	X	X	31.2	89.5	X
CHP and/or Cogeneration Process	--	X	X	50.9	X	X
Direct Uses-Total Process	9.1	X	94.7	11.7	88.9	X
Process Heating	12.5	X	82.7	12.1	60.1	X
Process Cooling and Refrigeration	21.0	X	X	36.8	X	X
Machine Drive	11.4	X	95.7	81.0	91.4	X
Electro-Chemical Processes	21.5	--	--	--	--	--
Other Process Use	36.9	X	X	46.0	X	X
Direct Uses-Total Nonprocess	10.9	X	13.9	12.7	27.8	X
Facility HVAC (f)	12.6	X	81.4	12.4	77.5	X
Facility Lighting	12.0	--	--	--	--	--

Other Facility Support	14.6	X	73.7	24.1	76.3	X
Onsite Transportation	26.4	--	1.8	X	27.0	--
Conventional Electricity Generation	--	X	26.3	X	98.9	X
Other Nonprocess Use	83.1	X	39.7	91.4	91.9	X
End Use Not Reported	98.9	X	45.9	X	72.9	X

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	5.1	0.1	34.0	5.5	16.3	0.1
Indirect Uses-Boiler Fuel	19.7	0.1	8.9	7.0	68.3	0.1
Conventional Boiler Use	19.7	0.1	9.0	7.2	68.3	0.1
CHP and/or Cogeneration Process	--	X	0.1	16.7	X	0.1
Direct Uses-Total Process	5.7	X	58.4	7.4	29.4	X
Process Heating	12.4	X	18.2	7.8	30.1	X
Process Cooling and Refrigeration	7.1	X	X	7.7	45.2	X
Machine Drive	7.1	X	59.5	66.2	43.4	X
Electro-Chemical Processes	29.5	--	--	--	--	--
Other Process Use	19.0	X	0.7	22.4	62.9	X
Direct Uses-Total Nonprocess	5.9	X	39.8	8.7	18.1	X
Facility HVAC (f)	6.7	X	54.2	8.4	22.7	X
Facility Lighting	5.7	--	--	--	--	--
Other Facility Support	10.4	X	58.5	13.6	35.2	X
Onsite Transportation	12.9	--	43.5	11.6	20.7	--
Conventional Electricity Generation	--	X	52.0	55.7	0.1	X
Other Nonprocess Use	42.0	X	75.8	88.6	25.5	X
End Use Not Reported	43.2	X	86.4	44.8	64.0	X

336111 Automobiles

TOTAL FUEL CONSUMPTION	0.0	X	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	X	0.0	0.0	0.0
CHP and/or Cogeneration Process	--	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	X	X	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 (f)	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	0.0	X	0.0	X	X	X
End Use Not Reported	0.0	X	X	0.0	X	X

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	0.0	X	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	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	X	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	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	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	X	X	X
Other Nonprocess Use	0.0	X	0.0	X	0.0	X
End Use Not Reported	X	X	0.0	X	X	X

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	6.6	0.1	68.1	6.4	14.3	X
Indirect Uses-Boiler Fuel	14.7	0.1	0.1	6.8	0.1	X
Conventional Boiler Use	14.7	0.1	0.1	1.6	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	20.8	X	X
Direct Uses-Total Process	5.9	X	92.8	6.3	27.1	X
Process Heating	6.6	X	0.1	7.6	29.0	X
Process Cooling and Refrigeration	4.0	X	X	9.9	45.2	X
Machine Drive	6.1	X	93.3	9.4	67.9	X
Electro-Chemical Processes	21.6	--	--	--	--	--
Other Process Use	27.8	X	4.6	0.8	3.3	X
Direct Uses-Total Nonprocess	7.8	X	77.2	12.8	15.8	X
Facility HVAC (f)	7.1	X	6.2	13.7	34.6	X
Facility Lighting	9.9	--	--	--	--	--
Other Facility Support	8.5	X	66.2	10.3	1.6	X
Onsite Transportation	7.6	--	86.4	8.7	6.8	--
Conventional Electricity Generation	--	X	49.0	65.0	0.1	X
Other Nonprocess Use	57.4	X	2.9	78.9	0.1	X
End Use Not Reported	0.1	X	0.1	0.1	5.8	X

336411 Aircraft

TOTAL FUEL CONSUMPTION	19.0	0.1	84.4	14.0	3.2	X
Indirect Uses-Boiler Fuel	28.6	0.1	0.1	0.2	0.1	X
Conventional Boiler Use	28.6	0.1	0.1	0.2	0.1	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	X
Direct Uses-Total Process	22.4	X	94.7	1.6	5.0	X
Process Heating	13.5	X	0.1	1.9	0.1	X
Process Cooling and Refrigeration	9.3	X	X	0.1	45.2	X
Machine Drive	16.8	X	94.8	1.1	0.1	X
Electro-Chemical Processes	2.8	--	--	--	--	--
Other Process Use	88.9	X	X	25.5	X	X
Direct Uses-Total Nonprocess	18.3	X	89.9	26.6	4.4	X
Facility HVAC (f)	17.6	X	0.1	28.3	18.4	X
Facility Lighting	23.0	--	--	--	--	--
Other Facility Support	16.4	X	X	16.9	0.1	X
Onsite Transportation	21.4	--	90.5	12.1	2.9	--
Conventional Electricity Generation	--	X	X	0.1	X	X
Other Nonprocess Use	63.8	X	35.7	87.3	X	X
End Use Not Reported	0.1	X	X	0.1	0.1	X

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	8.4	X	54.6	13.2	27.2	4.4
Indirect Uses-Boiler Fuel	30.6	X	99.0	50.1	96.4	0.1
Conventional Boiler Use	30.6	X	X	46.4	96.4	0.1
CHP and/or Cogeneration Process	--	X	99.0	58.1	96.4	X
Direct Uses-Total Process	9.7	X	95.7	18.4	68.7	77.3
Process Heating	16.2	X	95.7	18.5	95.3	77.3
Process Cooling and Refrigeration	22.4	X	X	70.7	96.4	X
Machine Drive	10.1	X	X	96.4	53.2	X
Electro-Chemical Processes	37.3	--	--	--	--	--
Other Process Use	51.6	X	X	X	65.5	X
Direct Uses-Total Nonprocess	10.6	X	48.0	13.1	24.3	4.4
Facility HVAC (f)	14.4	X	95.3	13.3	51.4	4.4
Facility Lighting	11.0	--	--	--	--	--
Other Facility Support	13.8	X	0.1	23.0	87.6	X
Onsite Transportation	24.5	--	5.4	21.5	19.7	--
Conventional Electricity Generation	--	X	0.1	96.4	96.4	X
Other Nonprocess Use	43.0	X	43.1	96.4	69.2	X
End Use Not Reported	51.2	X	X	83.7	65.7	X

339 MISCELLANEOUS

TOTAL FUEL CONSUMPTION	9.3	0.1	67.5	27.2	49.1	X
Indirect Uses-Boiler Fuel	32.0	X	72.5	55.7	X	X
Conventional Boiler Use	32.0	X	78.0	45.8	X	X

CHP and/or Cogeneration Process	--	X	74.2	61.3	X	X
Direct Uses-Total Process	11.3	X	94.6	30.9	57.6	X
Process Heating	21.0	X	99.0	36.6	87.2	X
Process Cooling and Refrigeration	20.2	X	X	70.6	99.0	X
Machine Drive	13.0	X	99.0	99.0	74.5	X
Electro-Chemical Processes	30.7	--	--	--	--	--
Other Process Use	44.2	X	0.1	75.1	99.0	X
Direct Uses-Total Nonprocess	9.3	0.1	57.5	21.2	58.9	X
Facility HVAC (f)	9.7	0.1	99.0	14.6	83.6	X
Facility Lighting	10.8	--	--	--	--	--
Other Facility Support	13.5	0.1	X	13.5	99.0	X
Onsite Transportation	22.2	--	55.1	78.0	48.9	--
Conventional Electricity Generation	--	X	33.0	87.4	91.1	X
Other Nonprocess Use	1.0	X	6.9	66.5	0.1	X
End Use Not Reported	53.6	X	X	53.3	68.0	X

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(b) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with 'Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

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

(e) 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) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

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

-- 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 Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'