Table 5.4 End Uses of Fuel Consumption, 2018;

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	3,052	17	86	6,362	64	432
	Indirect Uses-Boiler Fuel	45	11	8	2,570	9	189
	Conventional Boiler Use	45	6	3	823	5	14
	CHP and/or Cogeneration Process	--	5	5	1,746	4	175
	Direct Uses-Total Process	2,450	5	35	3,268	D	243
	Process Heating	294	5	13	2,810	22	178
	Process Cooling and Refrigeration	256	*	*	24	*	3
	Machine Drive	1,573	*	14	171	2	15
	Electro-Chemical Processes	250	--	--	--	--	--
	Other Process Use	77	*	8	263	D	46
	Direct Uses-Total Nonprocess	521	1	43	481	D	1
	Facility HVAC (f)	258	*	2	386	D	*
	Facility Lighting	181	--	--	--	--	--
	Other Facility Support	55	0	*	52	*	*
	Onsite Transportation	15	--	33	3	18	--
	Conventional Electricity Generation	--	*	3	28	*	*
	Other Nonprocess Use	13	*	4	12	1	0
	End Use Not Reported	36	*	*	43	3	0
311	**FOOD**						

TOTAL FUEL CONSUMPTION	324	*	14	669	7	47
Indirect Uses-Boiler Fuel	9	*	2	388	3	37
Conventional Boiler Use	9	*	1	136	2	5
CHP and/or Cogeneration Process	--	*	1	252	1	32
Direct Uses-Total Process	237	*	Q	199	2	10
Process Heating	11	*	Q	167	Q	10
Process Cooling and Refrigeration	85	*	*	4	*	0
Machine Drive	135	*	*	14	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	4	0	Q	14	*	0
Direct Uses-Total Nonprocess	72	*	7	77	2	*
Facility HVAC (f)	34	*	Q	53	1	0
Facility Lighting	28	--	--	--	--	--
Other Facility Support	6	0	*	23	*	0
Onsite Transportation	3	--	2	*	1	--
Conventional Electricity Generation	--	0	2	*	*	*
Other Nonprocess Use	1	0	1	*	*	0
End Use Not Reported	5	0	0	5	*	0

3112   Grain and Oilseed Milling

TOTAL FUEL CONSUMPTION	54	*	1	149	*	19
Indirect Uses-Boiler Fuel	2	0	*	99	*	19
Conventional Boiler Use	2	0	*	36	0	5
CHP and/or Cogeneration Process	--	0	*	63	*	14
Direct Uses-Total Process	46	*	*	45	*	0
Process Heating	2	*	*	39	*	0
Process Cooling and Refrigeration	6	0	0	*	*	0
Machine Drive	37	0	*	4	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	3	*	0
Direct Uses-Total Nonprocess	6	*	*	5	*	0
Facility HVAC (f)	2	*	*	4	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	Q	*	0

311221 — Wet Corn Milling

TOTAL FUEL CONSUMPTION	22	0	*	61	*	10
Indirect Uses-Boiler Fuel	1	0	0	44	0	10
Conventional Boiler Use	1	0	0	8	0	1
CHP and/or Cogeneration Process	--	0	0	36	0	9
Direct Uses-Total Process	20	0	*	17	*	0
Process Heating	*	0	0	16	*	0
Process Cooling and Refrigeration	4	0	0	*	0	0
Machine Drive	16	0	*	0	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	0	0	*	*	0	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	0	0	*	0	*	0
End Use Not Reported	0	0	0	0	0	0

31131 — Sugar

TOTAL FUEL CONSUMPTION	7	*	*	33	*	29
Indirect Uses-Boiler Fuel	1	*	*	25	0	18
Conventional Boiler Use	1	*	*	4	0	*
CHP and/or Cogeneration Process	--	*	*	20	0	18
Direct Uses-Total Process	5	0	*	8	*	10
Process Heating	*	0	0	8	0	10
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	4	0	*	*	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	*	*	*
Facility HVAC (f)	*	0	0	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	*

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

3114   **Fruit and Vegetable Preserving and Specialty Foods**

TOTAL FUEL CONSUMPTION	36	*	*	92	1	0
Indirect Uses-Boiler Fuel	1	0	*	59	1	0
Conventional Boiler Use	1	0	0	18	*	0
CHP and/or Cogeneration Process	--	0	*	41	*	0
Direct Uses-Total Process	27	*	*	24	*	0
Process Heating	1	*	*	22	*	0
Process Cooling and Refrigeration	14	0	*	1	*	0
Machine Drive	12	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	7	*	*	8	*	0
Facility HVAC (f)	3	*	*	6	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	2	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	1	*	0

3115   **Dairy Products**

TOTAL FUEL CONSUMPTION	39	*	1	79	2	0
Indirect Uses-Boiler Fuel	1	*	*	47	1	0
Conventional Boiler Use	1	*	*	21	*	0
CHP and/or Cogeneration Process	--	0	*	26	*	0
Direct Uses-Total Process	30	*	*	25	1	0
Process Heating	2	0	*	22	*	0
Process Cooling and Refrigeration	12	*	*	1	*	0
Machine Drive	14	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	0	0
Direct Uses-Total Nonprocess	8	*	*	5	*	0
Facility HVAC (f)	4	*	*	4	*	0
Facility Lighting	3	--	--	--	--	--

	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	1	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	End Use Not Reported	1	0	0	1	*	0
3116	**Animal Slaughtering and Processing**						
	TOTAL FUEL CONSUMPTION	108	*	3	149	2	0
	Indirect Uses-Boiler Fuel	2	*	1	89	1	0
	Conventional Boiler Use	2	*	*	38	1	0
	CHP and/or Cogeneration Process	--	0	*	51	*	0
	Direct Uses-Total Process	74	0	Q	33	*	0
	Process Heating	2	0	*	25	*	0
	Process Cooling and Refrigeration	40	0	*	2	*	0
	Machine Drive	31	0	*	2	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	4	*	0
	Direct Uses-Total Nonprocess	Q	0	2	26	*	0
	Facility HVAC (f)	Q	0	*	13	*	0
	Facility Lighting	Q	--	--	--	--	--
	Other Facility Support	2	0	*	13	*	0
	Onsite Transportation	1	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	End Use Not Reported	*	0	0	1	*	0
312	**BEVERAGE AND TOBACCO PRODUCTS**						
	TOTAL FUEL CONSUMPTION	49	*	*	54	1	*
	Indirect Uses-Boiler Fuel	1	*	*	35	*	*
	Conventional Boiler Use	1	*	*	18	*	*
	CHP and/or Cogeneration Process	--	*	*	17	*	*
	Direct Uses-Total Process	37	0	*	14	*	*
	Process Heating	1	0	*	12	*	*
	Process Cooling and Refrigeration	10	0	*	*	*	0
	Machine Drive	25	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0

		Col1	Col2	Col3	Col4	Col5	Col6
	Direct Uses-Total Nonprocess	11	*	*	6	1	*
	Facility HVAC (f)	5	0	*	4	*	*
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	0	1	*	0
	Onsite Transportation	1	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	*	*	*	*	0
	End Use Not Reported	*	0	0	*	*	0
3121	**Beverages**						
	TOTAL FUEL CONSUMPTION	47	*	*	50	1	*
	Indirect Uses-Boiler Fuel	1	*	*	32	*	*
	Conventional Boiler Use	1	0	*	16	*	*
	CHP and/or Cogeneration Process	--	*	*	16	*	*
	Direct Uses-Total Process	36	0	*	13	*	*
	Process Heating	1	0	*	11	*	*
	Process Cooling and Refrigeration	9	0	*	*	*	0
	Machine Drive	23	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	Direct Uses-Total Nonprocess	10	*	*	5	1	*
	Facility HVAC (f)	5	0	*	4	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	0	1	*	0
	Onsite Transportation	1	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	*	*	*	*	0
	End Use Not Reported	*	0	0	*	*	0
3122	**Tobacco**						
	TOTAL FUEL CONSUMPTION	3	*	*	4	*	0
	Indirect Uses-Boiler Fuel	*	*	*	3	*	0
	Conventional Boiler Use	*	*	*	2	*	0
	CHP and/or Cogeneration Process	--	0	*	1	*	0
	Direct Uses-Total Process	2	0	*	1	*	0
	Process Heating	*	0	0	*	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0

	C1	C2	C3	C4	C5	C6
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	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	0	0	0

313   TEXTILE MILLS

	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	37	*	*	23	1	1
Indirect Uses-Boiler Fuel	1	*	*	11	1	1
Conventional Boiler Use	1	*	*	7	*	1
CHP and/or Cogeneration Process	--	*	*	5	*	1
Direct Uses-Total Process	27	0	*	9	*	0
Process Heating	3	0	*	9	*	0
Process Cooling and Refrigeration	2	0	0	*	0	0
Machine Drive	21	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	0	*	*	0
Direct Uses-Total Nonprocess	10	0	*	2	*	0
Facility HVAC (f)	6	0	*	2	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	0	*	0

314   TEXTILE PRODUCT MILLS

	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	10	0	*	11	*	*
Indirect Uses-Boiler Fuel	*	0	*	4	*	0
Conventional Boiler Use	*	0	*	4	*	0
CHP and/or Cogeneration Process	--	0	*	*	0	0

	Col1	Col2	Col3	Col4	Col5	Col6
Direct Uses-Total Process	7	0	*	6	*	*
Process Heating	1	0	*	5	*	*
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	6	0	0	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	0	0	0
Direct Uses-Total Nonprocess	2	0	*	1	*	0
Facility HVAC (f)	1	0	*	1	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	0	0	0	0
End Use Not Reported	*	0	0	*	*	0

315 APPAREL

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	2	0	*	2	*	*
Indirect Uses-Boiler Fuel	*	0	0	1	*	0
Conventional Boiler Use	*	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	1	0	*	1	*	0
Process Heating	*	0	0	*	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	1	0	0	*	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	0	0	0
Direct Uses-Total Nonprocess	1	0	0	*	*	*
Facility HVAC (f)	1	0	0	*	*	*
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	0	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	0	*	*	0
End Use Not Reported	*	0	0	*	*	0

316 LEATHER AND ALLIED PRODUCTS

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	1	0	*	1	*	0

	Col1	Col2	Col3	Col4	Col5	Col6
Indirect Uses-Boiler Fuel	*	0	*	*	*	0
Conventional Boiler Use	*	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	*	0	0	*	*	0
Process Heating	*	0	0	*	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	*	0	0	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	*	0	0
Direct Uses-Total Nonprocess	*	0	*	*	*	0
Facility HVAC (f)	*	0	*	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	0	0
End Use Not Reported	*	0	0	*	*	0

321   WOOD PRODUCTS

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	77	*	11	67	4	*
Indirect Uses-Boiler Fuel	2	*	*	19	*	*
Conventional Boiler Use	2	0	*	4	*	0
CHP and/or Cogeneration Process	--	*	*	15	*	*
Direct Uses-Total Process	63	*	Q	40	1	*
Process Heating	4	*	*	34	*	*
Process Cooling and Refrigeration	1	0	*	*	*	0
Machine Drive	58	*	1	2	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	Q	4	*	0
Direct Uses-Total Nonprocess	12	*	6	8	3	*
Facility HVAC (f)	5	*	*	6	*	*
Facility Lighting	5	--	--	--	--	--
Other Facility Support	2	0	*	*	*	0
Onsite Transportation	*	--	6	*	3	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	1	*	0
End Use Not Reported	1	0	0	*	*	0

321113   Sawmills

	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	30	*	5	18	*	0
Indirect Uses-Boiler Fuel	1	*	*	6	*	0
Conventional Boiler Use	1	0	*	1	*	0
CHP and/or Cogeneration Process	--	*	*	5	*	0
Direct Uses-Total Process	25	0	1	Q	*	0
Process Heating	1	0	*	Q	*	0
Process Cooling and Refrigeration	*	0	*	*	0	0
Machine Drive	24	0	1	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	0	*	0
Direct Uses-Total Nonprocess	3	*	4	1	*	0
Facility HVAC (f)	1	*	*	1	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	4	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	*	*	0

3212   Veneer, Plywood, and Engineered Woods

	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	24	*	1	32	1	*
Indirect Uses-Boiler Fuel	*	0	*	9	*	*
Conventional Boiler Use	*	0	*	3	*	0
CHP and/or Cogeneration Process	--	0	*	7	*	*
Direct Uses-Total Process	20	*	*	20	*	0
Process Heating	1	*	*	15	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	19	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	4	*	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	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	1	*	0

End Use Not Reported		*	0	0	*	*	0

321219 **Reconstituted Wood Products**

TOTAL FUEL CONSUMPTION	15	*	*	20	*	0
Indirect Uses-Boiler Fuel	*	0	*	5	*	0
Conventional Boiler Use	*	0	*	2	*	0
CHP and/or Cogeneration Process	--	0	0	3	*	0
Direct Uses-Total Process	13	*	*	14	*	0
Process Heating	*	*	*	10	*	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	13	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	4	0	0
Direct Uses-Total Nonprocess	2	0	*	1	*	0
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	0	1	*	0
End Use Not Reported	0	0	0	0	0	0

3219 **Other Wood Products**

TOTAL FUEL CONSUMPTION	22	*	Q	15	1	*
Indirect Uses-Boiler Fuel	1	0	*	2	*	0
Conventional Boiler Use	1	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	16	0	Q	8	*	*
Process Heating	2	0	*	7	*	*
Process Cooling and Refrigeration	*	0	*	*	*	0
Machine Drive	14	0	*	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	Q	*	*	0
Direct Uses-Total Nonprocess	5	*	1	5	1	*
Facility HVAC (f)	3	*	*	4	*	*
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	0	*	*	0

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

322   PAPER

TOTAL FUEL CONSUMPTION	311	9	4	572	3	54
Indirect Uses-Boiler Fuel	13	7	2	386	*	52
Conventional Boiler Use	13	1	*	65	*	1
CHP and/or Cogeneration Process	--	5	2	321	*	51
Direct Uses-Total Process	260	2	*	158	*	1
Process Heating	11	2	*	143	*	0
Process Cooling and Refrigeration	9	0	0	*	*	0
Machine Drive	236	0	*	7	*	1
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	2	0	*	7	*	*
Direct Uses-Total Nonprocess	36	*	2	27	2	0
Facility HVAC (f)	16	*	*	18	*	0
Facility Lighting	14	--	--	--	--	--
Other Facility Support	5	0	*	2	*	0
Onsite Transportation	1	--	2	*	2	--
Conventional Electricity Generation	--	*	*	6	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	Q	*	*	Q	*	0

322110   Pulp Mills

TOTAL FUEL CONSUMPTION	27	3	1	40	*	*
Indirect Uses-Boiler Fuel	2	2	*	21	*	*
Conventional Boiler Use	2	0	*	1	0	0
CHP and/or Cogeneration Process	--	2	*	21	*	*
Direct Uses-Total Process	23	*	*	18	0	0
Process Heating	1	*	*	18	0	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	21	0	*	*	0	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	*	0	0	0	0	0
Direct Uses-Total Nonprocess	3	*	*	1	*	0

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

322121   Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	106	3	2	224	1	39
Indirect Uses-Boiler Fuel	5	3	1	154	*	37
Conventional Boiler Use	5	1	*	25	*	*
CHP and/or Cogeneration Process	--	1	1	129	*	37
Direct Uses-Total Process	89	1	*	64	*	1
Process Heating	4	1	*	56	*	0
Process Cooling and Refrigeration	3	0	0	0	0	0
Machine Drive	80	0	*	2	*	1
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	*	0	*	6	0	*
Direct Uses-Total Nonprocess	12	*	1	7	*	0
Facility HVAC (f)	5	*	*	3	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	3	0	0
Other Nonprocess Use	0	0	*	0	*	0
End Use Not Reported	0	0	*	0	*	0

322122   Newsprint Mills

TOTAL FUEL CONSUMPTION	18	0	*	5	*	0
Indirect Uses-Boiler Fuel	2	0	*	3	*	0
Conventional Boiler Use	2	0	0	3	*	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	16	0	0	2	0	0
Process Heating	*	0	0	2	0	0
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	15	0	0	0	0	0

Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	0	0	0	0
Direct Uses-Total Nonprocess	1	0	*	*	*	0
Facility HVAC (f)	*	0	0	*	0	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	0	0	0	*	0	0
Onsite Transportation	0	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	0	0	0	0	0	0

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	115	3	2	235	*	13
Indirect Uses-Boiler Fuel	5	2	1	175	*	13
Conventional Boiler Use	5	*	*	25	0	1
CHP and/or Cogeneration Process	--	2	1	150	*	13
Direct Uses-Total Process	99	1	*	51	*	0
Process Heating	4	1	*	48	*	0
Process Cooling and Refrigeration	2	0	0	*	0	0
Machine Drive	92	0	*	2	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	1	*	0
Direct Uses-Total Nonprocess	11	0	1	9	*	0
Facility HVAC (f)	5	0	*	5	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	1	0	0	1	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	0	2	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	0	*	*	0	*	0

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	34	*	*	24	1	0
Indirect Uses-Boiler Fuel	*	0	*	3	*	0
Conventional Boiler Use	*	0	*	3	*	0
CHP and/or Cogeneration Process	--	0	0	Q	0	0
Direct Uses-Total Process	23	*	*	12	*	0

End Use						
Process Heating	1	0	*	8	*	0
Process Cooling and Refrigeration	2	0	0	*	0	0
Machine Drive	19	0	*	2	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	1	*	0	Q	0	0
Direct Uses-Total Nonprocess	10	*	*	9	*	0
Facility HVAC (f)	6	*	*	8	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

324   PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	245	3	14	1,077	19	*
Indirect Uses-Boiler Fuel	2	*	1	342	2	0
Conventional Boiler Use	2	*	*	134	2	0
CHP and/or Cogeneration Process	--	0	*	208	1	0
Direct Uses-Total Process	226	3	8	696	16	*
Process Heating	9	3	4	656	15	*
Process Cooling and Refrigeration	11	0	*	1	*	0
Machine Drive	201	0	4	15	Q	0
Electro-Chemical Processes	4	--	--	--	--	--
Other Process Use	2	0	*	24	*	0
Direct Uses-Total Nonprocess	17	0	5	29	1	0
Facility HVAC (f)	8	0	*	7	*	0
Facility Lighting	6	--	--	--	--	--
Other Facility Support	3	0	*	1	*	0
Onsite Transportation	*	--	4	*	*	--
Conventional Electricity Generation	--	0	*	20	*	0
Other Nonprocess Use	*	0	1	1	*	0
End Use Not Reported	*	0	*	10	*	0

324110   Petroleum Refineries

TOTAL FUEL CONSUMPTION	230	2	5	994	16	0
Indirect Uses-Boiler Fuel	1	*	*	323	2	0

	Col1	Col2	Col3	Col4	Col5	Col6
Conventional Boiler Use	1	*	*	129	2	0
CHP and/or Cogeneration Process	--	0	*	194	1	0
Direct Uses-Total Process	214	2	3	636	13	0
Process Heating	8	2	2	604	13	0
Process Cooling and Refrigeration	10	0	0	*	*	0
Machine Drive	191	0	1	10	*	0
Electro-Chemical Processes	4	--	--	--	--	--
Other Process Use	1	0	*	22	*	0
Direct Uses-Total Nonprocess	14	0	2	25	*	0
Facility HVAC (f)	7	0	*	5	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	2	0	0	*	*	0
Onsite Transportation	*	--	2	0	*	--
Conventional Electricity Generation	--	0	*	20	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	10	*	0

324121   Asphalt Paving Mixture and Block

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	5	1	8	41	3	*
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	4	1	6	36	3	*
Process Heating	*	1	2	31	2	*
Process Cooling and Refrigeration	*	0	*	*	0	0
Machine Drive	3	0	3	4	Q	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	1	*	0
Direct Uses-Total Nonprocess	1	0	2	1	*	0
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	2	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	Q	*	*	0
End Use Not Reported	*	0	0	*	*	0

324122   Asphalt Shingle and Coating Materials

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	3	0	*	14	*	0
Indirect Uses-Boiler Fuel	*	0	*	3	*	0
Conventional Boiler Use	*	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	2	0	*	10	*	0
Process Heating	*	0	*	8	*	0
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	2	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	0	*	0

324191 Petroleum Lubricating Oil and Grease Products

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	5	0	*	19	*	0
Indirect Uses-Boiler Fuel	*	0	*	10	*	0
Conventional Boiler Use	*	0	*	2	0	0
CHP and/or Cogeneration Process	--	0	*	9	*	0
Direct Uses-Total Process	4	0	*	8	*	0
Process Heating	*	0	*	7	*	0
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	3	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (f)	*	0	*	1	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	*	0	*	0

324199	**Other Petroleum and Coal Products**					
	TOTAL FUEL CONSUMPTION	3	0	*	8	*	0
	Indirect Uses-Boiler Fuel	*	0	*	1	0	0
	Conventional Boiler Use	*	0	*	1	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	Direct Uses-Total Process	2	0	*	6	*	0
	Process Heating	*	0	*	5	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	0	0
	Direct Uses-Total Nonprocess	*	0	*	*	*	0
	Facility HVAC (f)	*	0	0	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	0	0
	End Use Not Reported	*	0	0	0	*	0
325	**CHEMICALS**						
	TOTAL FUEL CONSUMPTION	708	3	6	2,344	7	113
	Indirect Uses-Boiler Fuel	8	2	2	1,203	1	98
	Conventional Boiler Use	8	2	1	389	*	7
	CHP and/or Cogeneration Process	--	*	1	813	1	91
	Direct Uses-Total Process	613	*	1	1,054	D	15
	Process Heating	22	*	*	797	1	7
	Process Cooling and Refrigeration	68	0	*	9	*	0
	Machine Drive	373	0	*	89	*	0
	Electro-Chemical Processes	135	--	--	--	--	--
	Other Process Use	15	0	*	160	D	8
	Direct Uses-Total Nonprocess	76	0	3	71	D	*
	Facility HVAC (f)	39	0	*	57	D	*
	Facility Lighting	25	--	--	--	--	--
	Other Facility Support	9	0	*	11	*	0
	Onsite Transportation	1	--	2	*	2	--

Conventional Electricity Generation	--	0	*	1	*	0
Other Nonprocess Use	2	0	*	3	*	0
End Use Not Reported	10	*	*	16	1	0

325110   **Petrochemicals**

TOTAL FUEL CONSUMPTION	37	0	1	304	1	0
Indirect Uses-Boiler Fuel	1	0	*	125	*	0
Conventional Boiler Use	1	0	*	36	*	0
CHP and/or Cogeneration Process	--	0	*	89	*	0
Direct Uses-Total Process	35	0	*	178	*	0
Process Heating	1	0	0	145	*	0
Process Cooling and Refrigeration	8	0	0	4	*	0
Machine Drive	26	0	*	D	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	D	*	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	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	1	0	0
End Use Not Reported	0	0	0	0	*	0

325120   **Industrial Gases**

TOTAL FUEL CONSUMPTION	86	0	*	83	*	0
Indirect Uses-Boiler Fuel	*	0	*	64	0	0
Conventional Boiler Use	*	0	*	9	0	0
CHP and/or Cogeneration Process	--	0	0	55	0	0
Direct Uses-Total Process	83	0	*	19	*	0
Process Heating	*	0	0	5	0	0
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	72	0	*	0	0	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	5	0	0	14	0	0
Direct Uses-Total Nonprocess	3	0	*	*	*	0
Facility HVAC (f)	2	0	0	*	*	0

	Col1	Col2	Col3	Col4	Col5	Col6
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	0	*	*	0
End Use Not Reported	*	0	*	0	*	0

325180   Other Basic Inorganic Chemicals

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	148	0	*	218	*	33
Indirect Uses-Boiler Fuel	1	0	*	99	*	30
Conventional Boiler Use	1	0	*	17	*	4
CHP and/or Cogeneration Process	--	0	*	82	*	26
Direct Uses-Total Process	134	0	*	115	*	3
Process Heating	7	0	0	58	*	3
Process Cooling and Refrigeration	6	0	0	1	0	0
Machine Drive	25	0	*	52	*	0
Electro-Chemical Processes	92	--	--	--	--	--
Other Process Use	5	0	*	5	*	0
Direct Uses-Total Nonprocess	8	0	*	4	*	0
Facility HVAC (f)	4	0	*	3	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	*	0	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	Q	*	0
End Use Not Reported	5	0	0	1	*	0

325193   Ethyl Alcohol

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	46	0	*	359	*	44
Indirect Uses-Boiler Fuel	2	0	0	205	*	44
Conventional Boiler Use	2	0	0	115	*	0
CHP and/or Cogeneration Process	--	0	0	90	*	44
Direct Uses-Total Process	41	0	*	143	*	0
Process Heating	1	0	0	127	*	0
Process Cooling and Refrigeration	6	0	*	1	0	0
Machine Drive	33	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--

Other Process Use	*	0	*	14	0	0
Direct Uses-Total Nonprocess	3	0	*	11	*	0
Facility HVAC (f)	1	0	*	7	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	0	*	4	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	0	0	0	0	*	0

325194   Cyclic Crudes, Intermediate and Gum and Wood Chemicals

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

325199   Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	105	2	1	401	*	30
Indirect Uses-Boiler Fuel	1	2	*	214	*	22
Conventional Boiler Use	1	2	*	72	*	1
CHP and/or Cogeneration Process	--	*	*	142	*	21
Direct Uses-Total Process	91	0	*	169	*	8
Process Heating	2	0	*	120	*	*

Process Cooling and Refrigeration	14	0	*	1	*	0
Machine Drive	66	0	*	11	*	0
Electro-Chemical Processes	7	--	--	--	--	--
Other Process Use	1	0	*	36	*	8
Direct Uses-Total Nonprocess	10	0	1	6	*	0
Facility HVAC (f)	5	0	0	3	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	1	0	*	2	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	3	0	0	12	*	0

325211   Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	132	0	D	418	D	D
Indirect Uses-Boiler Fuel	1	0	*	283	Q	0
Conventional Boiler Use	1	0	*	38	*	0
CHP and/or Cogeneration Process	--	0	*	244	*	0
Direct Uses-Total Process	120	0	D	130	D	D
Process Heating	3	0	D	82	*	D
Process Cooling and Refrigeration	12	0	*	1	0	0
Machine Drive	73	0	*	4	*	0
Electro-Chemical Processes	31	--	--	--	--	--
Other Process Use	1	0	*	43	D	0
Direct Uses-Total Nonprocess	11	0	1	4	*	0
Facility HVAC (f)	5	0	*	3	*	0
Facility Lighting	4	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	Q	0	*	*	*	0

325212   Synthetic Rubber

TOTAL FUEL CONSUMPTION	6	0	*	19	*	2
Indirect Uses-Boiler Fuel	*	0	*	17	*	2
Conventional Boiler Use	*	0	*	10	*	1

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

325220   Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	10	0	*	23	*	*
Indirect Uses-Boiler Fuel	*	0	*	14	*	*
Conventional Boiler Use	*	0	*	9	*	0
CHP and/or Cogeneration Process	--	0	0	5	*	*
Direct Uses-Total Process	8	0	*	7	*	0
Process Heating	1	0	*	6	*	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	6	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	*	*	0
Direct Uses-Total Nonprocess	2	0	*	2	*	0
Facility HVAC (f)	1	0	0	2	*	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
End Use Not Reported	*	0	0	0	*	0

325311   Nitrogenous Fertilizers

Row	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	19	0	*	213	*	0
Indirect Uses-Boiler Fuel	*	0	*	53	*	0
Conventional Boiler Use	*	0	*	26	*	0
CHP and/or Cogeneration Process	--	0	*	27	0	0
Direct Uses-Total Process	17	0	*	159	*	0
Process Heating	*	0	0	136	*	0
Process Cooling and Refrigeration	2	0	0	0	0	0
Machine Drive	15	0	*	4	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	20	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	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	0	0	0	0	*	0

325312   Phosphatic Fertilizers

Row	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	8	*	D	24	*	D
Indirect Uses-Boiler Fuel	*	0	*	2	*	0
Conventional Boiler Use	*	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	8	*	D	22	*	D
Process Heating	*	*	D	20	*	D
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	7	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	1	0	0
Direct Uses-Total Nonprocess	1	0	*	*	*	0
Facility HVAC (f)	*	0	*	*	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	0	0	*	0	0	0
End Use Not Reported	0	0	0	0	*	0

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	38	0	1	62	*	*
Indirect Uses-Boiler Fuel	1	0	*	37	*	*
Conventional Boiler Use	1	0	*	20	*	*
CHP and/or Cogeneration Process	--	0	*	17	*	0
Direct Uses-Total Process	19	0	*	8	*	0
Process Heating	1	0	*	6	*	0
Process Cooling and Refrigeration	7	0	*	*	0	0
Machine Drive	10	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	17	0	*	17	*	*
Facility HVAC (f)	11	0	*	15	*	*
Facility Lighting	4	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	0	*	*	*	0
End Use Not Reported	1	0	0	1	*	0

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	21	0	*	30	*	*
Indirect Uses-Boiler Fuel	1	0	*	14	*	*
Conventional Boiler Use	1	0	*	9	*	*
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	11	0	*	5	*	0
Process Heating	1	0	*	4	*	0
Process Cooling and Refrigeration	3	0	*	*	0	0
Machine Drive	6	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	9	0	*	11	*	*
Facility HVAC (f)	6	0	*	10	*	*
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0

	Col1	Col2	Col3	Col4	Col5	Col6
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

325992   **Photographic Film, Paper, Plate, and Chemicals**

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	3	*	*	3	*	0
Indirect Uses-Boiler Fuel	*	*	*	2	0	0
Conventional Boiler Use	*	0	*	1	0	0
CHP and/or Cogeneration Process	--	*	*	1	0	0
Direct Uses-Total Process	2	0	*	1	*	0
Process Heating	*	0	*	*	0	0
Process Cooling and Refrigeration	1	0	*	*	0	0
Machine Drive	1	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	0	0
Direct Uses-Total Nonprocess	1	0	*	*	*	0
Facility HVAC (f)	1	0	*	*	0	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

326   **PLASTICS AND RUBBER PRODUCTS**

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	168	*	Q	83	3	0
Indirect Uses-Boiler Fuel	Q	*	*	31	*	0
Conventional Boiler Use	Q	*	*	11	*	0
CHP and/or Cogeneration Process	--	0	*	20	*	0
Direct Uses-Total Process	126	0	Q	31	Q	0
Process Heating	19	0	Q	29	*	0
Process Cooling and Refrigeration	14	0	0	*	0	0
Machine Drive	86	0	*	*	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	5	0	*	Q	*	0
Direct Uses-Total Nonprocess	39	0	*	22	2	0
Facility HVAC (f)	17	0	0	21	*	0
Facility Lighting	13	--	--	--	--	--

Other Facility Support	5	0	0	1	*	0
Onsite Transportation	2	--	*	*	2	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	Q	0	*	0	*	0
End Use Not Reported	Q	0	0	0	*	0

327   NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	130	*	20	348	2	189
Indirect Uses-Boiler Fuel	*	0	*	12	*	*
Conventional Boiler Use	*	0	*	2	*	*
CHP and/or Cogeneration Process	--	0	*	10	*	*
Direct Uses-Total Process	113	*	10	317	Q	189
Process Heating	26	*	Q	283	Q	154
Process Cooling and Refrigeration	6	0	0	3	0	3
Machine Drive	71	*	6	25	*	14
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	7	0	*	Q	*	Q
Direct Uses-Total Nonprocess	16	0	11	18	1	*
Facility HVAC (f)	7	0	*	16	*	0
Facility Lighting	6	--	--	--	--	--
Other Facility Support	2	0	*	2	*	*
Onsite Transportation	*	--	9	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	0	Q	1	*	0
End Use Not Reported	1	0	0	1	*	0

327120   Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	6	0	*	36	*	3
Indirect Uses-Boiler Fuel	*	0	0	*	*	0
Conventional Boiler Use	*	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	5	0	*	35	*	3
Process Heating	1	0	*	34	*	2
Process Cooling and Refrigeration	*	0	0	0	0	0
Machine Drive	4	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	*	*	*	1

Direct Uses-Total Nonprocess	1	0	*	1	*	0
Facility HVAC (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
End Use Not Reported	*	0	0	0	*	0

327211 Flat Glass

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

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	7	0	*	22	*	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	6	0	*	21	*	0
Process Heating	3	0	*	20	*	0
Process Cooling and Refrigeration	1	0	0	*	0	0

	Col1	Col2	Col3	Col4	Col5	Col6
Machine Drive	2	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	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
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	0	0	0	0	*	0

327213   Glass Containers

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	12	0	*	42	*	0
Indirect Uses-Boiler Fuel	*	0	0	*	0	0
Conventional Boiler Use	*	0	0	0	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	10	0	*	39	*	0
Process Heating	4	0	0	37	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	5	0	*	2	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	0	0	0
Direct Uses-Total Nonprocess	1	0	*	3	*	0
Facility HVAC (f)	1	0	0	2	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	0	*	0	0
End Use Not Reported	*	0	0	*	0	0

327215   Glass Products from Purchased Glass

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	13	0	*	8	*	0
Indirect Uses-Boiler Fuel	*	0	*	*	*	0
Conventional Boiler Use	*	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0

	Col1	Col2	Col3	Col4	Col5	Col6
Direct Uses-Total Process	10	0	*	6	*	0
Process Heating	5	0	0	5	*	0
Process Cooling and Refrigeration	1	0	0	*	0	0
Machine Drive	3	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	*	*	*	0
Direct Uses-Total Nonprocess	3	0	*	1	*	0
Facility HVAC (f)	1	0	*	1	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

327310　　Cements

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	39	0	1	58	*	106
Indirect Uses-Boiler Fuel	*	0	0	*	0	*
Conventional Boiler Use	*	0	0	*	0	*
CHP and/or Cogeneration Process	--	0	0	*	0	*
Direct Uses-Total Process	37	0	1	57	*	105
Process Heating	4	0	*	36	*	89
Process Cooling and Refrigeration	2	0	0	3	0	3
Machine Drive	30	0	*	17	*	14
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	1	0	*	0	0	0
Direct Uses-Total Nonprocess	2	0	1	*	*	*
Facility HVAC (f)	1	0	*	*	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	*	*
Onsite Transportation	*	--	1	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	*	0	0	*	0	0

327410　　Lime

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	5	0	1	18	*	63

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

327420   Gypsum

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

327993   Mineral Wool

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

331   PRIMARY METALS

TOTAL FUEL CONSUMPTION	414	*	6	639	3	26
Indirect Uses-Boiler Fuel	2	*	*	68	*	0
Conventional Boiler Use	2	*	*	21	*	0
CHP and/or Cogeneration Process	--	*	*	47	*	0
Direct Uses-Total Process	376	*	1	524	1	26
Process Heating	130	0	*	480	1	7
Process Cooling and Refrigeration	11	0	*	3	*	0
Machine Drive	126	*	1	5	*	0
Electro-Chemical Processes	91	--	--	--	--	--
Other Process Use	18	0	*	36	*	20
Direct Uses-Total Nonprocess	36	0	5	46	2	0
Facility HVAC (f)	14	0	*	40	*	0
Facility Lighting	15	--	--	--	--	--
Other Facility Support	5	0	*	3	*	0
Onsite Transportation	1	--	5	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	0	*	2	*	0

End Use Not Reported	1	0	0	2	*	0

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	206	*	4	411	*	26
Indirect Uses-Boiler Fuel	1	*	*	41	*	0
Conventional Boiler Use	1	*	0	16	0	0
CHP and/or Cogeneration Process	--	*	*	25	*	0
Direct Uses-Total Process	191	0	*	349	*	26
Process Heating	91	0	*	314	*	7
Process Cooling and Refrigeration	5	0	0	3	*	0
Machine Drive	74	0	*	1	*	0
Electro-Chemical Processes	10	--	--	--	--	--
Other Process Use	11	0	*	31	*	20
Direct Uses-Total Nonprocess	15	0	4	19	*	0
Facility HVAC (f)	5	0	*	15	*	0
Facility Lighting	7	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	4	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	2	*	0
End Use Not Reported	*	0	0	1	*	0

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	24	0	*	25	*	*
Indirect Uses-Boiler Fuel	*	0	*	3	*	0
Conventional Boiler Use	*	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	20	0	*	19	*	*
Process Heating	5	0	*	18	*	*
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	10	0	*	1	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	*	0	*	1	*	0
Direct Uses-Total Nonprocess	3	0	*	3	*	0
Facility HVAC (f)	1	0	*	3	*	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0

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

3313   Alumina and Aluminum

TOTAL FUEL CONSUMPTION	102	0	1	116	1	0
Indirect Uses-Boiler Fuel	1	0	*	14	*	0
Conventional Boiler Use	1	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	14	*	0
Direct Uses-Total Process	94	0	*	93	*	0
Process Heating	4	0	*	90	*	0
Process Cooling and Refrigeration	1	0	0	*	*	0
Machine Drive	21	0	*	1	*	0
Electro-Chemical Processes	67	--	--	--	--	--
Other Process Use	1	0	*	2	*	0
Direct Uses-Total Nonprocess	8	0	1	9	*	0
Facility HVAC (f)	2	0	*	8	*	0
Facility Lighting	3	--	--	--	--	--
Other Facility Support	2	0	*	1	*	0
Onsite Transportation	*	--	1	*	*	--
Conventional Electricity Generation	--	0	0	*	*	0
Other Nonprocess Use	1	0	*	0	*	0
End Use Not Reported	*	0	0	1	*	0

331314   Secondary Smelting and Alloying of Aluminum

TOTAL FUEL CONSUMPTION	3	0	*	18	*	0
Indirect Uses-Boiler Fuel	*	0	0	*	0	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	2	0	*	17	*	0
Process Heating	*	0	0	17	*	0
Process Cooling and Refrigeration	*	0	0	*	0	0
Machine Drive	2	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	0	*	*	0
Direct Uses-Total Nonprocess	*	0	*	1	*	0

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

331315 **Aluminum Sheet, Plate and Foils**

TOTAL FUEL CONSUMPTION	18	0	*	54	*	0
Indirect Uses-Boiler Fuel	*	0	*	1	0	0
Conventional Boiler Use	*	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	16	0	*	51	*	0
Process Heating	2	0	0	50	*	0
Process Cooling and Refrigeration	1	0	0	0	0	0
Machine Drive	13	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	2	*	0
Direct Uses-Total Nonprocess	2	0	*	2	*	0
Facility HVAC (f)	1	0	0	2	0	0
Facility Lighting	1	--	--	--	--	--
Other Facility Support	*	0	0	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	*	0	*	0
End Use Not Reported	0	0	0	0	0	0

331318 **Other Aluminum Rolling, Drawing and Extruding**

TOTAL FUEL CONSUMPTION	7	0	*	17	*	0
Indirect Uses-Boiler Fuel	*	0	0	1	*	0
Conventional Boiler Use	*	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	1	*	0
Direct Uses-Total Process	5	0	*	15	*	0
Process Heating	1	0	*	14	*	0
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	3	0	0	1	*	0

	Col1	Col2	Col3	Col4	Col5	Col6
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	1	--	--	--	--	--
Other Facility Support	*	0	0	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	*	0	0	0	*	0
End Use Not Reported	*	0	0	*	*	0

3314 Nonferrous Metals, except Aluminum

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	45	0	*	42	1	0
Indirect Uses-Boiler Fuel	*	0	*	8	*	0
Conventional Boiler Use	*	0	0	3	*	0
CHP and/or Cogeneration Process	--	0	*	6	*	0
Direct Uses-Total Process	41	0	*	29	*	0
Process Heating	13	0	*	28	*	0
Process Cooling and Refrigeration	2	0	0	*	*	0
Machine Drive	10	0	*	*	*	0
Electro-Chemical Processes	12	--	--	--	--	--
Other Process Use	4	0	0	*	*	0
Direct Uses-Total Nonprocess	4	0	*	4	*	0
Facility HVAC (f)	2	0	*	4	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	*	0	0	*	*	0

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	27	0	*	16	*	0
Indirect Uses-Boiler Fuel	*	0	*	6	*	0
Conventional Boiler Use	*	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	*	4	*	0
Direct Uses-Total Process	26	0	*	9	*	0

		1	2	3	4	5	6
	Process Heating	8	0	*	9	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	3	0	*	*	*	0
	Electro-Chemical Processes	11	--	--	--	--	--
	Other Process Use	2	0	0	*	*	0
	Direct Uses-Total Nonprocess	1	0	*	1	*	0
	Facility HVAC (f)	1	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	End Use Not Reported	*	0	0	0	*	0
3315	**Foundries**						
	TOTAL FUEL CONSUMPTION	37	*	*	44	1	*
	Indirect Uses-Boiler Fuel	*	0	*	1	*	0
	Conventional Boiler Use	*	0	*	*	*	0
	CHP and/or Cogeneration Process	--	0	*	1	*	0
	Direct Uses-Total Process	31	*	*	33	*	*
	Process Heating	16	0	*	29	*	*
	Process Cooling and Refrigeration	1	0	*	*	*	0
	Machine Drive	12	*	*	2	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	0	*	2	*	*
	Direct Uses-Total Nonprocess	5	0	*	10	*	0
	Facility HVAC (f)	3	0	*	9	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	End Use Not Reported	1	0	0	*	*	0
331511	**Iron Foundries**						
	TOTAL FUEL CONSUMPTION	18	0	*	12	*	*
	Indirect Uses-Boiler Fuel	*	0	*	*	*	0

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

331523   Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	7	*	*	15	*	0
Indirect Uses-Boiler Fuel	*	0	*	*	*	0
Conventional Boiler Use	*	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	6	*	*	12	*	0
Process Heating	2	0	*	10	*	0
Process Cooling and Refrigeration	*	0	*	*	*	0
Machine Drive	3	*	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	*	*	*	0
Direct Uses-Total Nonprocess	1	0	*	2	*	0
Facility HVAC (f)	1	0	*	2	*	0
Facility Lighting	*	--	--	--	--	--
Other Facility Support	*	0	*	*	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	*	0	0	*	*	0

331524   Aluminum Foundries, except Die-Casting

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

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	124	0	Q	124	3	*
Indirect Uses-Boiler Fuel	1	0	*	13	*	0
Conventional Boiler Use	1	0	0	Q	*	0
CHP and/or Cogeneration Process	--	0	*	11	*	0
Direct Uses-Total Process	84	0	*	74	*	0
Process Heating	20	0	0	70	*	0
Process Cooling and Refrigeration	5	0	0	*	0	0
Machine Drive	51	0	*	Q	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	2	0	*	Q	*	0
Direct Uses-Total Nonprocess	34	0	Q	33	3	*
Facility HVAC (f)	17	0	*	31	1	*
Facility Lighting	13	--	--	--	--	--
Other Facility Support	3	0	*	2	*	0
Onsite Transportation	1	--	Q	*	2	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	Q	0	0	Q	*	0

333	**MACHINERY**					
	TOTAL FUEL CONSUMPTION	81	*	2	59	3	*
	Indirect Uses-Boiler Fuel	1	*	*	7	*	0
	Conventional Boiler Use	1	0	0	Q	0	0
	CHP and/or Cogeneration Process	--	*	*	5	*	0
	Direct Uses-Total Process	50	0	1	25	Q	0
	Process Heating	4	0	*	19	Q	0
	Process Cooling and Refrigeration	3	0	0	*	0	0
	Machine Drive	41	0	*	3	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	1	0	1	2	*	0
	Direct Uses-Total Nonprocess	27	*	1	27	2	*
	Facility HVAC (f)	14	*	*	25	1	*
	Facility Lighting	10	--	--	--	--	--
	Other Facility Support	3	0	0	1	*	0
	Onsite Transportation	1	--	Q	*	1	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	End Use Not Reported	Q	0	0	*	Q	0
334	**COMPUTER AND ELECTRONIC PRODUCTS**						
	TOTAL FUEL CONSUMPTION	76	*	*	30	*	0
	Indirect Uses-Boiler Fuel	1	*	*	11	*	0
	Conventional Boiler Use	1	0	*	8	*	0
	CHP and/or Cogeneration Process	--	*	*	3	0	0
	Direct Uses-Total Process	42	0	*	3	*	0
	Process Heating	7	0	*	1	*	0
	Process Cooling and Refrigeration	12	0	0	*	0	0
	Machine Drive	14	0	*	Q	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	7	0	*	1	0	0
	Direct Uses-Total Nonprocess	29	*	*	17	*	0
	Facility HVAC (f)	19	*	*	15	*	0
	Facility Lighting	6	--	--	--	--	--
	Other Facility Support	3	0	*	1	*	0
	Onsite Transportation	*	--	*	*	*	--

Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	1	0	*	1	*	0
End Use Not Reported	3	0	0	*	*	0

334413 Semiconductors and Related Devices

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

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	38	*	*	37	1	0
Indirect Uses-Boiler Fuel	Q	0	*	6	*	0
Conventional Boiler Use	Q	0	*	2	0	0
CHP and/or Cogeneration Process	--	0	0	Q	*	0
Direct Uses-Total Process	25	0	*	19	*	0
Process Heating	8	0	0	18	*	0
Process Cooling and Refrigeration	2	0	0	*	0	0
Machine Drive	13	0	*	*	0	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	2	0	*	Q	*	0
Direct Uses-Total Nonprocess	12	*	*	10	1	0
Facility HVAC (f)	7	0	0	9	*	0

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

336   TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	174	2	4	157	3	0
Indirect Uses-Boiler Fuel	1	2	*	25	*	0
Conventional Boiler Use	1	2	*	14	*	0
CHP and/or Cogeneration Process	--	*	*	12	*	0
Direct Uses-Total Process	111	*	2	69	*	0
Process Heating	16	0	0	63	*	0
Process Cooling and Refrigeration	12	0	0	2	*	0
Machine Drive	76	0	2	1	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	7	*	*	3	*	0
Direct Uses-Total Nonprocess	60	*	2	62	2	0
Facility HVAC (f)	31	0	*	58	*	0
Facility Lighting	20	--	--	--	--	--
Other Facility Support	5	0	*	2	*	0
Onsite Transportation	2	--	1	*	2	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	*	*	1	*	0
End Use Not Reported	Q	0	0	1	*	0

336111   Automobiles

TOTAL FUEL CONSUMPTION	14	0	*	18	*	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	9	0	*	13	*	0
Process Heating	1	0	0	11	*	0
Process Cooling and Refrigeration	1	0	0	1	*	0
Machine Drive	7	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--

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

336112   Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	15	0	*	25	*	0
Indirect Uses-Boiler Fuel	1	0	0	5	*	0
Conventional Boiler Use	1	0	0	2	*	0
CHP and/or Cogeneration Process	--	0	0	3	0	0
Direct Uses-Total Process	10	0	*	14	*	0
Process Heating	1	0	0	13	*	0
Process Cooling and Refrigeration	1	0	0	*	0	0
Machine Drive	7	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	0	0	1	*	0
Direct Uses-Total Nonprocess	4	0	*	7	*	0
Facility HVAC (f)	2	0	0	6	*	0
Facility Lighting	2	--	--	--	--	--
Other Facility Support	*	0	*	*	0	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	0	0	0	*	*	0

3364   Aerospace Products

TOTAL FUEL CONSUMPTION	34	*	*	27	*	0
Indirect Uses-Boiler Fuel	*	*	*	12	*	0
Conventional Boiler Use	*	0	*	8	*	0
CHP and/or Cogeneration Process	--	*	*	5	*	0
Direct Uses-Total Process	16	0	*	5	*	0
Process Heating	4	0	0	4	*	0

Process Cooling and Refrigeration	3	0	0	*	*	0
Machine Drive	8	0	*	1	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	2	0	*	*	*	0
Direct Uses-Total Nonprocess	17	0	*	9	*	0
Facility HVAC (f)	10	0	*	7	*	0
Facility Lighting	5	--	--	--	--	--
Other Facility Support	1	0	*	1	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	1	*	0
End Use Not Reported	*	0	0	Q	*	0

336411 Aircraft

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

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	16	0	*	15	1	*
Indirect Uses-Boiler Fuel	*	0	*	1	*	0
Conventional Boiler Use	*	0	0	*	*	0

CHP and/or Cogeneration Process	--	0	*	Q	*	0
Direct Uses-Total Process	10	0	*	7	*	*
Process Heating	1	0	0	6	*	*
Process Cooling and Refrigeration	*	0	0	*	*	0
Machine Drive	9	0	*	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	*	*	0
Direct Uses-Total Nonprocess	6	0	*	8	1	*
Facility HVAC (f)	3	0	*	7	*	*
Facility Lighting	2	--	--	--	--	--
Other Facility Support	1	0	0	Q	*	0
Onsite Transportation	*	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	Q	0	0	*	*	0

339 **MISCELLANEOUS**

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

(a) The Bureau of the Census classifies establishments using the 2017 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.

D=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells. Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

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

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	1.6	2.5	7.9	0.9	3.9	3.3
	Indirect Uses-Boiler Fuel	3.2	0.7	7.0	1.0	9.2	0.2
	Conventional Boiler Use	3.2	1.3	17.8	1.7	12.1	1.8
	CHP and/or Cogeneration Process	--	0.2	4.2	1.2	14.0	0.1
	Direct Uses-Total Process	1.3	6.3	16.3	1.3	D	5.9
	Process Heating	2.4	6.3	29.1	1.4	6.7	0.2
	Process Cooling and Refrigeration	4.1	0.0	8.5	4.8	20.0	4.9
	Machine Drive	1.5	72.5	14.9	3.4	40.8	0.0
	Electro-Chemical Processes	1.7	--	--	--	--	--
	Other Process Use	4.7	90.0	46.3	3.3	D	31.0
	Direct Uses-Total Nonprocess	3.7	30.1	6.5	3.3	D	17.7
	Facility HVAC (f)	3.8	7.4	29.2	3.9	D	27.6
	Facility Lighting	5.1	--	--	--	--	--
	Other Facility Support	2.7	X	49.1	6.2	19.2	0.0
	Onsite Transportation	4.8	--	6.3	13.4	4.6	--
	Conventional Electricity Generation	--	0.0	23.8	1.3	46.3	0.0
	Other Nonprocess Use	18.8	61.2	24.7	12.1	15.0	X
	End Use Not Reported	13.1	0.0	12.7	8.5	21.8	X
311	**FOOD**						
	TOTAL FUEL CONSUMPTION	11.0	2.2	29.3	4.5	18.4	0.0
	Indirect Uses-Boiler Fuel	8.0	3.1	24.3	4.0	16.2	0.0
	Conventional Boiler Use	8.0	5.7	40.0	6.2	20.1	0.0

	C1	C2	C3	C4	C5	C6
CHP and/or Cogeneration Process	--	0.0	11.1	5.3	25.1	0.0
Direct Uses-Total Process	8.3	1.9	57.3	7.7	45.8	0.0
Process Heating	11.1	2.2	84.4	8.6	54.6	0.0
Process Cooling and Refrigeration	10.3	0.0	9.0	6.8	11.7	X
Machine Drive	9.2	0.0	19.0	28.4	53.2	X
Electro-Chemical Processes	28.3	--	--	--	--	--
Other Process Use	13.4	X	64.3	25.0	58.0	X
Direct Uses-Total Nonprocess	23.4	0.3	17.5	11.4	13.9	0.0
Facility HVAC (f)	25.1	0.3	69.7	15.6	29.0	X
Facility Lighting	29.8	--	--	--	--	--
Other Facility Support	6.5	X	77.6	12.0	47.4	X
Onsite Transportation	6.7	--	9.3	11.3	9.7	--
Conventional Electricity Generation	--	X	31.1	8.6	87.8	0.0
Other Nonprocess Use	14.3	X	28.9	3.7	69.2	X
End Use Not Reported	31.3	X	X	19.4	30.0	X

3112   Grain and Oilseed Milling

	C1	C2	C3	C4	C5	C6
TOTAL FUEL CONSUMPTION	1.7	15.8	15.6	3.6	15.0	0.0
Indirect Uses-Boiler Fuel	2.3	X	74.0	2.7	52.9	0.0
Conventional Boiler Use	2.3	X	0.0	6.3	X	0.0
CHP and/or Cogeneration Process	--	X	82.2	2.5	52.9	0.0
Direct Uses-Total Process	1.8	15.8	0.1	6.2	22.7	X
Process Heating	26.2	15.8	0.0	7.2	26.2	X
Process Cooling and Refrigeration	1.1	X	X	0.3	0.0	X
Machine Drive	1.9	X	0.1	8.2	25.0	X
Electro-Chemical Processes	1.2	--	--	--	--	--
Other Process Use	1.5	X	0.0	5.0	0.0	X
Direct Uses-Total Nonprocess	4.2	48.4	5.7	17.2	9.4	X
Facility HVAC (f)	4.7	48.4	53.7	20.0	22.8	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	4.9	X	0.0	12.6	30.6	X
Onsite Transportation	15.1	--	2.5	2.6	5.9	--
Conventional Electricity Generation	--	X	0.1	0.0	0.0	X
Other Nonprocess Use	27.3	X	0.2	53.7	0.0	X
End Use Not Reported	53.0	X	X	83.9	0.0	X

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	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	0.0
Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	X
Process Heating	0.0	X	X	0.0	0.0	X
Process Cooling and Refrigeration	0.0	X	X	0.0	X	X
Machine Drive	0.0	X	0.0	X	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	X	X	0.0	0.0	X	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	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	0.0	0.0	0.0	X
Onsite Transportation	0.0	--	0.0	0.0	0.0	--
Conventional Electricity Generation	--	X	0.0	0.0	X	X
Other Nonprocess Use	X	X	0.0	X	0.0	X
End Use Not Reported	X	X	X	X	X	X

31131   **Sugar**

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

3114   Fruit and Vegetable Preserving and Specialty Foods

TOTAL FUEL CONSUMPTION	5.8	0.0	6.9	3.2	5.8	X
Indirect Uses-Boiler Fuel	5.1	X	3.9	4.1	7.5	X
Conventional Boiler Use	5.1	X	X	3.5	0.1	X
CHP and/or Cogeneration Process	--	X	3.9	5.7	13.5	X
Direct Uses-Total Process	6.8	0.0	15.8	6.3	22.4	X
Process Heating	13.2	0.0	60.4	6.8	30.9	X
Process Cooling and Refrigeration	9.4	X	12.1	7.5	19.2	X
Machine Drive	6.1	X	18.1	4.3	15.2	X
Electro-Chemical Processes	14.2	--	--	--	--	--
Other Process Use	3.2	X	74.6	0.0	70.7	X
Direct Uses-Total Nonprocess	4.4	0.0	8.1	4.1	8.6	X
Facility HVAC (f)	4.9	0.0	64.0	5.2	11.1	X
Facility Lighting	6.4	--	--	--	--	--
Other Facility Support	3.4	X	0.0	5.4	17.0	X
Onsite Transportation	5.8	--	3.1	55.2	9.6	--
Conventional Electricity Generation	--	X	64.2	3.9	41.6	X
Other Nonprocess Use	18.5	X	41.1	0.8	0.0	X
End Use Not Reported	35.5	X	X	17.7	64.3	X

3115   Dairy Products

TOTAL FUEL CONSUMPTION	3.2	28.5	32.4	2.3	12.9	X
Indirect Uses-Boiler Fuel	4.9	67.2	0.4	2.6	22.5	X
Conventional Boiler Use	4.9	67.2	0.1	4.9	5.1	X
CHP and/or Cogeneration Process	--	X	1.2	3.2	53.5	X
Direct Uses-Total Process	3.8	0.0	41.1	4.2	6.1	X
Process Heating	40.4	X	82.9	4.0	7.2	X
Process Cooling and Refrigeration	3.1	0.0	34.7	6.9	11.4	X
Machine Drive	2.5	0.0	74.4	19.1	0.0	X
Electro-Chemical Processes	32.6	--	--	--	--	--
Other Process Use	7.0	X	5.1	27.4	X	X
Direct Uses-Total Nonprocess	3.7	0.0	42.1	4.9	16.3	X
Facility HVAC (f)	3.7	0.0	54.4	5.0	20.6	X
Facility Lighting	6.7	--	--	--	--	--
Other Facility Support	3.7	X	2.8	8.3	68.9	X
Onsite Transportation	4.8	--	27.4	22.3	17.7	--
Conventional Electricity Generation	--	X	20.7	75.7	X	X

Other Nonprocess Use	12.9	X	63.6	0.9	0.3	X
End Use Not Reported	24.4	X	X	24.3	64.6	X

3116 **Animal Slaughtering and Processing**

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

312 **BEVERAGE AND TOBACCO PRODUCTS**

TOTAL FUEL CONSUMPTION	15.3	0.0	29.3	8.5	11.3	0.0
Indirect Uses-Boiler Fuel	12.8	0.0	0.1	11.6	20.5	0.0
Conventional Boiler Use	12.8	0.0	0.0	22.7	27.4	0.0
CHP and/or Cogeneration Process	--	0.0	0.1	3.8	29.6	0.0
Direct Uses-Total Process	17.3	X	3.9	5.7	32.5	0.0
Process Heating	13.1	X	0.6	6.3	50.4	0.0
Process Cooling and Refrigeration	12.1	X	8.6	24.4	78.9	X
Machine Drive	21.7	X	30.6	8.0	22.6	X
Electro-Chemical Processes	12.6	--	--	--	--	--
Other Process Use	6.9	X	0.1	20.4	27.7	X
Direct Uses-Total Nonprocess	10.8	0.0	37.9	9.9	10.5	0.0
Facility HVAC (f)	14.6	X	71.2	10.7	18.9	0.0
Facility Lighting	11.0	--	--	--	--	--

Other Facility Support	7.7	X	X	18.0	24.9	X
Onsite Transportation	8.0	--	15.0	6.2	10.2	--
Conventional Electricity Generation	--	X	96.6	19.2	77.0	X
Other Nonprocess Use	26.2	0.0	82.9	18.0	92.2	X
End Use Not Reported	22.7	X	X	65.7	47.4	X

3121   **Beverages**

TOTAL FUEL CONSUMPTION	16.1	0.0	31.3	9.2	12.9	0.0
Indirect Uses-Boiler Fuel	13.2	0.0	0.1	12.9	27.8	0.0
Conventional Boiler Use	13.2	X	0.0	25.7	68.3	0.0
CHP and/or Cogeneration Process	--	0.0	0.1	4.1	29.8	0.0
Direct Uses-Total Process	18.1	X	3.9	5.9	38.8	0.0
Process Heating	13.4	X	0.6	6.5	62.1	0.0
Process Cooling and Refrigeration	12.2	X	8.6	24.4	78.9	X
Machine Drive	23.0	X	30.6	9.7	30.0	X
Electro-Chemical Processes	12.7	--	--	--	--	--
Other Process Use	6.9	X	0.1	20.6	27.7	X
Direct Uses-Total Nonprocess	12.0	0.0	38.5	10.5	11.0	0.0
Facility HVAC (f)	16.5	X	71.6	11.1	19.8	0.0
Facility Lighting	12.1	--	--	--	--	--
Other Facility Support	8.8	X	X	18.6	25.2	X
Onsite Transportation	8.3	--	15.2	13.6	10.7	--
Conventional Electricity Generation	--	X	96.6	19.2	77.0	X
Other Nonprocess Use	26.7	0.0	86.3	23.9	92.4	X
End Use Not Reported	22.8	X	X	65.7	47.4	X

3122   **Tobacco**

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

		Col1	Col2	Col3	Col4	Col5	Col6
	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	X	X
	Other Nonprocess Use	0.0	X	0.0	0.0	0.0	X
	End Use Not Reported	0.0	X	X	X	X	X
313	**TEXTILE MILLS**						
	TOTAL FUEL CONSUMPTION	6.1	78.4	21.0	12.7	25.7	16.2
	Indirect Uses-Boiler Fuel	35.2	78.4	54.0	19.1	46.5	16.2
	Conventional Boiler Use	35.2	82.3	43.5	29.1	1.9	45.3
	CHP and/or Cogeneration Process	--	88.0	63.3	22.5	76.0	0.0
	Direct Uses-Total Process	6.2	X	13.9	12.6	7.1	X
	Process Heating	12.0	X	0.0	13.3	4.7	X
	Process Cooling and Refrigeration	17.6	X	X	80.3	X	X
	Machine Drive	7.5	X	79.1	31.1	59.8	X
	Electro-Chemical Processes	52.5	--	--	--	--	--
	Other Process Use	40.1	X	X	51.7	36.9	X
	Direct Uses-Total Nonprocess	8.3	X	13.1	12.8	16.5	X
	Facility HVAC (f)	9.8	X	83.3	14.9	38.0	X
	Facility Lighting	9.8	--	--	--	--	--
	Other Facility Support	9.6	X	0.0	23.6	83.5	X
	Onsite Transportation	14.3	--	72.2	42.1	13.1	--
	Conventional Electricity Generation	--	X	X	68.1	X	X
	Other Nonprocess Use	23.5	X	0.4	X	81.2	X
	End Use Not Reported	73.1	X	X	X	68.9	X
314	**TEXTILE PRODUCT MILLS**						
	TOTAL FUEL CONSUMPTION	7.9	X	28.1	13.5	29.1	0.0
	Indirect Uses-Boiler Fuel	15.7	X	33.6	18.2	0.0	X
	Conventional Boiler Use	15.7	X	33.8	20.1	0.0	X
	CHP and/or Cogeneration Process	--	X	0.0	6.2	X	X
	Direct Uses-Total Process	8.5	X	2.0	16.8	58.4	0.0
	Process Heating	23.5	X	0.0	15.0	44.6	0.0
	Process Cooling and Refrigeration	18.9	X	X	X	X	X

Machine Drive	8.5	X	X	54.2	99.4	X
Electro-Chemical Processes	99.4	--	--	--	--	--
Other Process Use	91.3	X	39.7	X	X	X
Direct Uses-Total Nonprocess	13.2	X	53.2	32.2	34.9	X
Facility HVAC (f)	14.7	X	89.5	29.2	53.7	X
Facility Lighting	15.9	--	--	--	--	--
Other Facility Support	13.8	X	46.2	88.3	X	X
Onsite Transportation	28.4	--	48.7	X	39.0	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	76.1	X	X	X	X	X
End Use Not Reported	82.0	X	X	86.6	88.6	

315 APPAREL

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

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	5.1	X	4.0	11.6	31.1	X
Indirect Uses-Boiler Fuel	21.2	X	2.5	12.8	55.8	X
Conventional Boiler Use	21.2	X	0.1	7.0	X	X
CHP and/or Cogeneration Process	--	X	19.0	22.7	55.8	X

Direct Uses-Total Process	4.6	X	X	17.4	52.2	X
Process Heating	11.2	X	X	16.2	55.1	X
Process Cooling and Refrigeration	33.9	X	X	52.4	X	X
Machine Drive	5.0	X	X	28.6	67.1	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	12.2	X	X	45.5	X	X
Direct Uses-Total Nonprocess	11.3	X	22.5	20.7	27.6	X
Facility HVAC (f)	17.5	X	45.5	22.0	42.0	X
Facility Lighting	8.0	--	--	--	--	--
Other Facility Support	10.3	X	X	13.3	62.0	X
Onsite Transportation	20.1	--	0.3	X	5.5	--
Conventional Electricity Generation	--	X	38.1	X	X	X
Other Nonprocess Use	94.5	X	0.0	82.8	X	X
End Use Not Reported	37.6	X	X	33.4	0.0	X

321   **WOOD PRODUCTS**

TOTAL FUEL CONSUMPTION	2.8	3.5	31.5	10.2	5.6	63.3
Indirect Uses-Boiler Fuel	11.1	86.3	14.2	2.8	3.8	80.4
Conventional Boiler Use	11.1	X	4.5	3.4	5.0	X
CHP and/or Cogeneration Process	--	86.3	24.6	3.5	3.5	80.4
Direct Uses-Total Process	2.9	0.0	71.3	16.8	12.9	97.1
Process Heating	10.3	0.0	28.3	19.9	14.4	97.1
Process Cooling and Refrigeration	5.7	X	93.2	64.3	97.1	X
Machine Drive	3.0	0.0	19.7	15.5	23.6	X
Electro-Chemical Processes	7.6	--	--	--	--	--
Other Process Use	23.2	X	94.3	0.9	38.0	X
Direct Uses-Total Nonprocess	5.4	1.3	4.8	8.8	4.7	95.1
Facility HVAC (f)	9.6	1.3	26.2	10.2	24.2	95.1
Facility Lighting	3.7	--	--	--	--	--
Other Facility Support	5.1	X	9.8	14.3	55.8	X
Onsite Transportation	9.9	--	4.0	82.1	4.8	--
Conventional Electricity Generation	--	X	44.5	50.8	37.5	X
Other Nonprocess Use	27.0	X	50.2	6.1	3.8	X
End Use Not Reported	10.5	X	X	42.8	53.5	X

321113   **Sawmills**

TOTAL FUEL CONSUMPTION	5.8	3.6	3.6	36.2	8.6	X

Indirect Uses-Boiler Fuel	6.4	86.3	7.0	3.1	2.0	X
Conventional Boiler Use	6.4	X	0.8	4.5	0.0	X
CHP and/or Cogeneration Process	--	86.3	13.7	3.5	2.0	X
Direct Uses-Total Process	6.1	X	12.5	55.3	14.6	X
Process Heating	2.5	X	20.9	56.9	14.8	X
Process Cooling and Refrigeration	32.6	X	55.9	43.8	X	X
Machine Drive	6.6	X	15.8	2.1	34.5	X
Electro-Chemical Processes	6.4	--	--	--	--	--
Other Process Use	15.3	X	16.7	X	43.3	X
Direct Uses-Total Nonprocess	6.1	0.6	3.6	5.2	8.1	X
Facility HVAC (f)	9.8	0.6	7.4	5.0	6.4	X
Facility Lighting	5.6	--	--	--	--	--
Other Facility Support	5.9	X	17.5	23.9	7.8	X
Onsite Transportation	6.5	--	3.6	31.5	11.1	--
Conventional Electricity Generation	--	X	12.2	0.0	0.0	X
Other Nonprocess Use	23.5	X	22.2	X	45.3	X
End Use Not Reported	3.9	X	X	0.0	7.2	X

3212   **Veneer, Plywood, and Engineered Woods**

TOTAL FUEL CONSUMPTION	1.2	0.0	3.2	1.2	3.1	80.4
Indirect Uses-Boiler Fuel	1.3	X	29.6	2.7	0.1	80.4
Conventional Boiler Use	1.3	X	0.0	0.1	0.0	X
CHP and/or Cogeneration Process	--	X	66.4	3.6	2.4	80.4
Direct Uses-Total Process	1.2	0.0	7.8	1.0	4.9	X
Process Heating	1.1	0.0	0.0	1.4	0.0	X
Process Cooling and Refrigeration	2.5	X	X	0.0	X	X
Machine Drive	1.3	0.0	24.8	1.8	14.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	2.5	X	0.0	0.9	1.6	X
Direct Uses-Total Nonprocess	1.8	X	3.3	4.0	3.5	X
Facility HVAC (f)	3.2	X	36.5	6.4	28.7	X
Facility Lighting	1.6	--	--	--	--	--
Other Facility Support	2.2	X	4.1	8.0	47.9	X
Onsite Transportation	10.0	--	3.1	80.4	3.1	--
Conventional Electricity Generation	--	X	40.0	0.0	43.2	X
Other Nonprocess Use	4.5	X	32.4	0.0	0.0	X
End Use Not Reported	4.7	X	X	60.6	63.6	X

321219   **Reconstituted Wood Products**

TOTAL FUEL CONSUMPTION	1.5	0.0	2.7	0.9	5.9	X
Indirect Uses-Boiler Fuel	0.1	X	0.0	0.1	0.0	X
Conventional Boiler Use	0.1	X	0.0	0.0	0.0	X
CHP and/or Cogeneration Process	--	X	X	0.1	0.0	X
Direct Uses-Total Process	1.5	0.0	0.0	1.3	15.6	X
Process Heating	0.7	0.0	0.0	2.0	0.0	X
Process Cooling and Refrigeration	0.3	X	X	X	X	X
Machine Drive	1.6	0.0	0.0	0.0	23.4	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	4.3	X	X	0.2	X	X
Direct Uses-Total Nonprocess	1.5	X	2.7	1.2	7.4	X
Facility HVAC (f)	2.6	X	0.0	3.0	53.2	X
Facility Lighting	1.3	--	--	--	--	--
Other Facility Support	0.8	X	5.8	31.4	56.9	X
Onsite Transportation	14.4	--	2.8	X	5.9	--
Conventional Electricity Generation	--	X	0.0	0.0	X	X
Other Nonprocess Use	0.0	X	X	0.0	0.0	X
End Use Not Reported	X	X	X	X	X	X

3219   Other Wood Products

TOTAL FUEL CONSUMPTION	5.7	85.9	65.7	14.9	14.7	75.3
Indirect Uses-Boiler Fuel	32.1	X	66.9	16.5	67.3	X
Conventional Boiler Use	32.1	X	54.5	12.4	88.5	X
CHP and/or Cogeneration Process	--	X	80.7	23.4	63.1	X
Direct Uses-Total Process	5.4	X	86.8	26.1	24.5	97.1
Process Heating	26.2	X	61.0	27.7	27.5	97.1
Process Cooling and Refrigeration	10.6	X	97.1	82.7	97.1	X
Machine Drive	5.4	X	54.5	59.7	45.4	X
Electro-Chemical Processes	73.7	--	--	--	--	--
Other Process Use	44.2	X	96.3	14.3	65.7	X
Direct Uses-Total Nonprocess	11.7	85.9	20.2	13.8	14.5	95.1
Facility HVAC (f)	17.5	85.9	52.3	14.5	36.4	95.1
Facility Lighting	8.9	--	--	--	--	--
Other Facility Support	12.8	X	X	22.0	95.4	X
Onsite Transportation	16.2	--	18.0	83.5	16.1	--
Conventional Electricity Generation	--	X	83.5	69.6	X	X
Other Nonprocess Use	56.7	X	73.1	75.0	0.0	X

	End Use Not Reported	77.4	X	X	81.0	59.2	X
322	**PAPER**						
	TOTAL FUEL CONSUMPTION	0.8	0.0	0.7	1.0	11.1	0.0
	Indirect Uses-Boiler Fuel	1.0	0.0	1.3	1.2	27.4	0.0
	Conventional Boiler Use	1.0	0.0	25.4	4.9	0.0	0.0
	CHP and/or Cogeneration Process	--	0.0	0.1	1.1	45.7	0.0
	Direct Uses-Total Process	0.7	0.0	0.0	2.2	24.2	0.0
	Process Heating	2.8	0.0	0.0	2.3	19.7	X
	Process Cooling and Refrigeration	7.2	X	X	11.8	95.9	X
	Machine Drive	0.7	X	0.0	16.9	85.2	0.0
	Electro-Chemical Processes	8.2	--	--	--	--	--
	Other Process Use	6.7	X	0.0	1.5	0.0	0.0
	Direct Uses-Total Nonprocess	2.3	0.0	0.6	6.4	14.3	X
	Facility HVAC (f)	2.8	0.0	0.0	8.9	79.0	X
	Facility Lighting	2.2	--	--	--	--	--
	Other Facility Support	4.7	X	71.8	8.8	22.4	X
	Onsite Transportation	11.8	--	0.6	0.1	10.3	--
	Conventional Electricity Generation	--	0.0	0.0	0.2	98.3	X
	Other Nonprocess Use	12.8	X	0.1	85.0	20.9	X
	End Use Not Reported	68.4	0.0	0.0	98.9	32.0	X
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	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	0.0	0.0	0.0	X	X
	Process Heating	0.0	0.0	0.0	0.0	X	X
	Process Cooling and Refrigeration	0.0	X	X	X	X	X
	Machine Drive	0.0	X	0.0	0.0	X	X
	Electro-Chemical Processes	0.0	--	--	--	--	--
	Other Process Use	0.0	X	X	X	X	X
	Direct Uses-Total Nonprocess	0.0	0.0	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	--	0.0	0.0	0.0	X	X
Other Nonprocess Use	X	X	X	X	X	X
End Use Not Reported	X	X	0.0	X	X	X

322121   **Paper Mills, except Newsprint**

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

322122   **Newsprint Mills**

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

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

322130   **Paperboard 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	0.0	0.0	0.0	X	0.0
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	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	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	0.0	0.0	--
Conventional Electricity Generation	--	X	X	0.0	X	X
Other Nonprocess Use	0.0	X	0.0	X	0.0	X
End Use Not Reported	X	0.0	0.0	X	0.0	X

323   **PRINTING AND RELATED SUPPORT**

TOTAL FUEL CONSUMPTION	7.8	50.9	43.0	10.0	21.4	X
Indirect Uses-Boiler Fuel	31.0	X	57.8	18.8	0.0	X
Conventional Boiler Use	31.0	X	57.8	16.7	0.0	X
CHP and/or Cogeneration Process	--	X	X	60.9	X	X
Direct Uses-Total Process	8.5	50.9	61.6	14.8	50.1	X
Process Heating	17.7	X	99.0	14.5	67.0	X
Process Cooling and Refrigeration	15.0	X	X	70.5	X	X
Machine Drive	8.6	X	76.5	41.4	70.0	X

Electro-Chemical Processes	86.8	--	--	--	--	--
Other Process Use	34.9	50.9	X	82.9	X	X
Direct Uses-Total Nonprocess	9.3	50.9	52.7	11.7	17.4	X
Facility HVAC (f)	10.3	50.9	66.1	12.2	59.8	X
Facility Lighting	10.8	--	--	--	--	--
Other Facility Support	14.6	X	99.0	26.0	96.0	X
Onsite Transportation	20.2	--	18.6	52.8	16.5	--
Conventional Electricity Generation	--	X	38.7	99.0	X	X
Other Nonprocess Use	51.1	X	55.9	57.8	99.0	X
End Use Not Reported	43.5	X	94.9	41.3	98.2	X

324   **PETROLEUM AND COAL PRODUCTS**

TOTAL FUEL CONSUMPTION	0.4	9.1	8.9	0.3	5.6	19.9
Indirect Uses-Boiler Fuel	0.8	0.0	7.3	0.3	2.6	X
Conventional Boiler Use	0.8	0.0	0.8	0.1	1.2	X
CHP and/or Cogeneration Process	--	X	9.9	0.5	6.3	X
Direct Uses-Total Process	0.4	9.7	6.8	0.4	6.6	19.9
Process Heating	0.3	9.7	10.5	0.4	2.8	19.9
Process Cooling and Refrigeration	0.5	X	0.0	11.6	0.0	X
Machine Drive	0.5	X	8.9	2.6	85.8	X
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	0.4	X	23.8	0.3	5.0	X
Direct Uses-Total Nonprocess	0.2	X	23.2	0.4	6.4	X
Facility HVAC (f)	0.3	X	23.2	0.7	17.8	X
Facility Lighting	0.3	--	--	--	--	--
Other Facility Support	0.2	X	6.4	1.0	0.0	X
Onsite Transportation	1.7	--	17.6	6.3	7.7	--
Conventional Electricity Generation	--	X	0.0	0.1	0.0	X
Other Nonprocess Use	2.2	X	50.0	9.5	21.1	X
End Use Not Reported	17.0	X	24.0	0.0	13.7	X

324110   **Petroleum Refineries**

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

Process Heating	0.0	0.0	0.0	0.0	0.0	X
Process Cooling and Refrigeration	0.0	X	X	0.0	0.0	X
Machine Drive	0.0	X	0.0	0.0	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (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	0.0	0.0	X
Other Nonprocess Use	0.0	X	0.0	0.0	0.0	X
End Use Not Reported	0.0	X	0.0	0.0	0.0	X

324121   **Asphalt Paving Mixture and Block**

TOTAL FUEL CONSUMPTION	8.6	30.1	15.2	3.9	36.8	19.9
Indirect Uses-Boiler Fuel	2.5	X	48.8	5.2	73.8	X
Conventional Boiler Use	2.5	X	9.1	10.3	88.6	X
CHP and/or Cogeneration Process	--	X	57.4	6.1	93.6	X
Direct Uses-Total Process	10.7	30.1	10.1	4.5	38.7	19.9
Process Heating	8.8	30.1	17.8	5.1	26.2	19.9
Process Cooling and Refrigeration	30.0	X	0.0	49.6	X	X
Machine Drive	12.4	X	11.9	9.0	87.5	X
Electro-Chemical Processes	55.3	--	--	--	--	--
Other Process Use	3.6	X	3.3	3.1	0.0	X
Direct Uses-Total Nonprocess	3.6	X	45.4	6.8	20.8	X
Facility HVAC (f)	3.4	X	65.9	4.6	54.2	X
Facility Lighting	6.5	--	--	--	--	--
Other Facility Support	4.1	X	52.7	2.7	0.0	X
Onsite Transportation	12.9	--	37.5	69.2	19.1	--
Conventional Electricity Generation	--	X	0.0	X	X	X
Other Nonprocess Use	6.8	X	66.5	26.9	0.0	X
End Use Not Reported	37.6	X	X	0.0	55.4	X

324122   **Asphalt Shingle and Coating Materials**

TOTAL FUEL CONSUMPTION	1.7	X	0.9	1.1	2.6	X
Indirect Uses-Boiler Fuel	8.6	X	0.0	0.7	1.1	X

	Col1	Col2	Col3	Col4	Col5	Col6
Conventional Boiler Use	8.6	X	0.0	0.2	0.0	X
CHP and/or Cogeneration Process	--	X	0.0	0.9	1.3	X
Direct Uses-Total Process	1.9	X	0.0	1.5	0.3	X
Process Heating	2.4	X	0.0	1.7	1.4	X
Process Cooling and Refrigeration	7.6	X	X	0.3	0.0	X
Machine Drive	1.9	X	0.0	0.5	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	1.5	X	1.2	5.4	2.7	X
Facility HVAC (f)	1.4	X	0.0	3.6	0.3	X
Facility Lighting	2.0	--	--	--	--	--
Other Facility Support	2.8	X	0.0	0.8	0.0	X
Onsite Transportation	0.0	--	1.4	0.0	2.9	--
Conventional Electricity Generation	--	X	0.0	0.0	X	X
Other Nonprocess Use	24.0	X	0.0	22.0	0.0	X
End Use Not Reported	28.4	X	X	X	26.2	X

324191   Petroleum Lubricating Oil and Grease Products

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	19.1	X	51.2	17.4	19.5	X
Indirect Uses-Boiler Fuel	6.0	X	35.9	10.0	0.5	X
Conventional Boiler Use	6.0	X	0.0	5.2	X	X
CHP and/or Cogeneration Process	--	X	70.9	11.9	0.5	X
Direct Uses-Total Process	23.4	X	84.2	28.3	25.3	X
Process Heating	4.9	X	0.0	30.0	46.2	X
Process Cooling and Refrigeration	10.6	X	X	56.7	0.0	X
Machine Drive	27.8	X	0.0	48.1	0.5	X
Electro-Chemical Processes	49.8	--	--	--	--	--
Other Process Use	0.1	X	87.4	17.7	56.6	X
Direct Uses-Total Nonprocess	2.8	X	8.4	4.3	30.5	X
Facility HVAC (f)	4.7	X	21.9	4.7	83.9	X
Facility Lighting	1.9	--	--	--	--	--
Other Facility Support	2.4	X	0.0	3.8	0.0	X
Onsite Transportation	3.9	--	4.5	0.0	38.0	--
Conventional Electricity Generation	--	X	0.0	68.5	X	X
Other Nonprocess Use	19.6	X	0.7	0.0	56.6	X
End Use Not Reported	47.4	X	88.8	X	7.3	X

324199   Other Petroleum and Coal Products

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	0.0	0.0	0.0	X
Process Cooling and Refrigeration	0.0	X	X	X	X	X
Machine Drive	0.0	X	0.0	0.0	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	X	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	0.0	X	X	0.0	0.0	X
Facility Lighting	0.0	--	--	--	--	--
Other Facility Support	0.0	X	0.0	0.0	0.0	X
Onsite Transportation	0.0	--	0.0	0.0	0.0	--
Conventional Electricity Generation	--	X	0.0	X	0.0	X
Other Nonprocess Use	0.0	X	0.0	0.0	X	X
End Use Not Reported	0.0	X	X	X	0.0	X
325 **CHEMICALS**						
TOTAL FUEL CONSUMPTION	1.1	8.3	2.2	1.7	13.9	0.4
Indirect Uses-Boiler Fuel	3.7	3.3	5.2	1.3	26.6	0.3
Conventional Boiler Use	3.7	3.3	5.5	2.3	29.2	0.0
CHP and/or Cogeneration Process	--	0.0	7.9	1.8	34.7	0.3
Direct Uses-Total Process	1.1	38.3	4.3	2.9	D	1.6
Process Heating	6.0	38.3	13.9	3.6	34.1	3.6
Process Cooling and Refrigeration	1.9	X	2.3	6.6	20.9	X
Machine Drive	1.5	X	2.6	2.9	54.8	X
Electro-Chemical Processes	0.3	--	--	--	--	--
Other Process Use	3.1	X	2.5	4.4	D	0.0
Direct Uses-Total Nonprocess	2.8	X	2.2	6.1	D	0.0
Facility HVAC (f)	3.0	X	7.1	6.6	D	0.0
Facility Lighting	3.1	--	--	--	--	--
Other Facility Support	5.9	X	0.1	10.9	23.8	X
Onsite Transportation	10.9	--	2.5	8.6	20.9	--
Conventional Electricity Generation	--	X	2.0	23.2	0.0	X
Other Nonprocess Use	14.9	X	9.0	21.5	42.9	X
End Use Not Reported	10.4	0.0	0.0	0.9	44.0	X

325110   **Petrochemicals**

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

325120   **Industrial Gases**

TOTAL FUEL CONSUMPTION	3.2	X	0.0	1.9	70.3	X
Indirect Uses-Boiler Fuel	14.6	X	0.0	0.1	X	X
Conventional Boiler Use	14.6	X	0.0	0.9	X	X
CHP and/or Cogeneration Process	--	X	X	0.1	X	X
Direct Uses-Total Process	3.2	X	0.0	8.0	40.4	X
Process Heating	22.1	X	X	4.6	X	X
Process Cooling and Refrigeration	22.5	X	X	34.3	40.4	X
Machine Drive	3.7	X	0.0	X	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	X	10.0	X	X
Direct Uses-Total Nonprocess	6.1	X	0.0	26.9	81.0	X
Facility HVAC (f)	5.2	X	X	25.8	0.0	X
Facility Lighting	13.7	--	--	--	--	--
Other Facility Support	24.4	X	X	38.0	X	X
Onsite Transportation	0.4	--	0.0	X	68.0	--

Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	70.7	X	X	18.8	94.1	X
End Use Not Reported	3.1	X	0.0	X	65.0	X

325180   Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	1.4	X	3.2	4.0	9.2	0.0
Indirect Uses-Boiler Fuel	1.7	X	0.5	0.5	0.0	0.0
Conventional Boiler Use	1.7	X	1.5	2.3	0.0	0.0
CHP and/or Cogeneration Process	--	X	0.3	0.4	0.0	0.0
Direct Uses-Total Process	1.4	X	2.3	7.6	8.5	0.0
Process Heating	4.1	X	X	15.1	8.5	0.0
Process Cooling and Refrigeration	3.2	X	X	32.1	X	X
Machine Drive	7.0	X	3.0	1.5	0.0	X
Electro-Chemical Processes	0.3	--	--	--	--	--
Other Process Use	1.4	X	0.4	11.9	52.0	X
Direct Uses-Total Nonprocess	7.7	X	4.4	16.1	19.3	X
Facility HVAC (f)	10.7	X	0.0	8.5	29.9	X
Facility Lighting	5.4	--	--	--	--	--
Other Facility Support	11.8	X	0.0	7.8	X	X
Onsite Transportation	53.7	--	5.8	51.7	26.0	--
Conventional Electricity Generation	--	X	38.9	85.7	X	X
Other Nonprocess Use	25.5	X	48.7	81.0	3.8	X
End Use Not Reported	0.0	X	X	0.1	44.8	X

325193   Ethyl Alcohol

TOTAL FUEL CONSUMPTION	1.5	X	2.8	1.5	8.6	0.0
Indirect Uses-Boiler Fuel	5.2	X	X	2.0	16.2	0.0
Conventional Boiler Use	5.2	X	X	2.8	0.0	X
CHP and/or Cogeneration Process	--	X	X	4.1	31.3	0.0
Direct Uses-Total Process	1.4	X	2.0	2.4	6.2	X
Process Heating	11.8	X	X	2.5	10.3	X
Process Cooling and Refrigeration	3.6	X	0.0	7.8	X	X
Machine Drive	1.3	X	2.2	2.2	2.1	X
Electro-Chemical Processes	53.7	--	--	--	--	--
Other Process Use	25.2	X	0.0	15.9	X	X
Direct Uses-Total Nonprocess	5.4	X	3.3	7.4	5.4	X
Facility HVAC (f)	4.3	X	72.0	5.9	19.3	X

Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	11.3	X	0.0	10.9	0.0	X
Onsite Transportation	57.1	--	3.4	0.0	4.2	--
Conventional Electricity Generation	--	X	1.2	0.0	X	X
Other Nonprocess Use	0.0	X	0.0	59.1	0.0	X
End Use Not Reported	X	X	X	X	3.3	X

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	0.0	X
Conventional Boiler Use	0.0	X	0.0	0.0	0.0	X
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	0.0	0.0	0.0	X
Process Cooling and Refrigeration	0.0	X	X	0.0	X	X
Machine Drive	0.0	X	0.0	X	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	X	0.0	X	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (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	X	X
Other Nonprocess Use	0.0	X	0.0	X	X	X
End Use Not Reported	0.0	X	X	0.0	0.0	X

325199   **Other Basic Organic Chemicals**

TOTAL FUEL CONSUMPTION	3.6	0.0	9.2	6.0	8.3	1.6
Indirect Uses-Boiler Fuel	4.7	0.0	39.2	5.9	18.8	1.1
Conventional Boiler Use	4.7	0.0	0.4	7.4	0.0	0.0
CHP and/or Cogeneration Process	--	0.0	57.3	8.4	84.8	1.2
Direct Uses-Total Process	3.8	X	10.0	7.6	3.3	3.0
Process Heating	5.2	X	29.1	6.3	3.4	87.5
Process Cooling and Refrigeration	3.5	X	5.0	37.4	33.4	X
Machine Drive	4.6	X	2.9	16.1	17.8	X
Electro-Chemical Processes	0.9	--	--	--	--	--

	Col1	Col2	Col3	Col4	Col5	Col6
Other Process Use	0.8	X	0.1	17.5	60.5	0.0
Direct Uses-Total Nonprocess	9.5	X	7.0	15.3	16.9	X
Facility HVAC (f)	8.1	X	X	6.4	37.0	X
Facility Lighting	7.2	--	--	--	--	--
Other Facility Support	25.3	X	0.8	37.3	46.0	X
Onsite Transportation	31.9	--	7.7	46.0	18.8	--
Conventional Electricity Generation	--	X	0.1	5.2	0.0	X
Other Nonprocess Use	0.7	X	30.4	0.0	0.0	X
End Use Not Reported	17.8	X	X	0.4	0.0	X

325211 Plastics Materials and Resins

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	1.5	X	D	1.1	D	D
Indirect Uses-Boiler Fuel	3.7	X	0.1	1.3	65.7	X
Conventional Boiler Use	3.7	X	0.1	9.4	0.0	X
CHP and/or Cogeneration Process	--	X	0.0	0.4	87.8	X
Direct Uses-Total Process	1.4	X	D	1.8	D	D
Process Heating	8.4	X	D	2.9	78.2	D
Process Cooling and Refrigeration	4.9	X	21.4	0.1	X	X
Machine Drive	1.9	X	13.3	0.5	9.4	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	7.7	X	51.7	1.7	D	X
Direct Uses-Total Nonprocess	5.0	X	4.0	8.6	8.9	X
Facility HVAC (f)	9.0	X	68.1	11.4	15.4	X
Facility Lighting	4.1	--	--	--	--	--
Other Facility Support	3.0	X	0.0	3.2	1.4	X
Onsite Transportation	3.6	--	4.2	26.8	11.8	--
Conventional Electricity Generation	--	X	12.7	92.5	X	X
Other Nonprocess Use	1.9	X	0.2	0.1	6.8	X
End Use Not Reported	56.6	X	0.0	33.0	20.6	X

325212 Synthetic Rubber

	Col1	Col2	Col3	Col4	Col5	Col6
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	0.0	0.0
CHP and/or Cogeneration Process	--	X	0.0	0.0	X	0.0
Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	X
Process Heating	0.0	X	X	0.0	0.0	X

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

325220   **Artificial and Synthetic Fibers and Filaments**

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	0.0	X
CHP and/or Cogeneration Process	--	X	X	0.0	0.0	0.0
Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	X
Process Heating	0.0	X	0.0	0.0	0.0	X
Process Cooling and Refrigeration	0.0	X	X	X	X	X
Machine Drive	0.0	X	0.0	0.0	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	X	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (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	0.0	X	0.0	X	0.0	X
End Use Not Reported	0.0	X	X	X	0.0	X

325311   **Nitrogenous Fertilizers**

TOTAL FUEL CONSUMPTION	11.4	X	2.7	3.2	86.5	X
Indirect Uses-Boiler Fuel	0.8	X	0.0	0.3	0.0	X
Conventional Boiler Use	0.8	X	0.0	0.5	0.0	X

	Col1	Col2	Col3	Col4	Col5	Col6
CHP and/or Cogeneration Process	--	X	0.0	0.1	X	X
Direct Uses-Total Process	11.6	X	0.0	4.1	29.3	X
Process Heating	9.3	X	X	4.9	40.7	X
Process Cooling and Refrigeration	11.6	X	X	X	X	X
Machine Drive	10.4	X	0.0	4.4	0.0	X
Electro-Chemical Processes	65.9	--	--	--	--	--
Other Process Use	80.7	X	0.0	0.1	X	X
Direct Uses-Total Nonprocess	12.1	X	6.1	36.5	89.2	X
Facility HVAC (f)	5.7	X	0.0	36.8	0.0	X
Facility Lighting	17.8	--	--	--	--	--
Other Facility Support	29.6	X	X	43.0	0.0	X
Onsite Transportation	34.5	--	10.2	X	89.7	--
Conventional Electricity Generation	--	X	68.4	76.6	X	X
Other Nonprocess Use	0.0	X	0.5	X	X	X
End Use Not Reported	X	X	X	X	47.5	X

325312   Phosphatic Fertilizers

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	0.0	0.0	D	0.0	0.0	D
Indirect Uses-Boiler Fuel	0.0	X	0.0	0.0	0.0	X
Conventional Boiler Use	0.0	X	X	0.0	0.0	X
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	X
Direct Uses-Total Process	0.0	0.0	D	0.0	0.0	D
Process Heating	0.0	0.0	D	0.0	0.0	D
Process Cooling and Refrigeration	0.0	X	X	X	X	X
Machine Drive	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	0.0	0.0	0.0	X
Facility Lighting	0.0	--	--	--	--	--
Other Facility Support	0.0	X	0.0	0.0	0.0	X
Onsite Transportation	0.0	--	0.0	X	0.0	--
Conventional Electricity Generation	--	X	0.0	X	X	X
Other Nonprocess Use	X	X	0.0	X	X	X
End Use Not Reported	X	X	X	X	0.0	X

3254   Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	2.8	X	2.6	5.2	25.5	0.0
Indirect Uses-Boiler Fuel	8.4	X	0.6	3.6	34.6	0.0
Conventional Boiler Use	8.4	X	0.0	6.4	41.8	0.0
CHP and/or Cogeneration Process	--	X	6.3	2.5	5.2	X
Direct Uses-Total Process	1.5	X	3.5	8.8	29.4	X
Process Heating	2.8	X	0.0	10.1	28.0	X
Process Cooling and Refrigeration	2.0	X	5.2	13.1	X	X
Machine Drive	2.2	X	0.0	26.5	95.4	X
Electro-Chemical Processes	19.6	--	--	--	--	--
Other Process Use	3.0	X	23.0	3.2	58.7	X
Direct Uses-Total Nonprocess	4.7	X	4.6	13.5	52.9	0.0
Facility HVAC (f)	5.0	X	8.0	14.0	61.0	0.0
Facility Lighting	3.6	--	--	--	--	--
Other Facility Support	9.8	X	0.0	6.2	43.9	X
Onsite Transportation	5.9	--	4.4	18.8	17.9	--
Conventional Electricity Generation	--	X	3.4	41.0	0.0	X
Other Nonprocess Use	9.7	X	6.0	1.1	14.3	X
End Use Not Reported	25.6	X	X	10.6	35.9	X

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	1.7	X	2.9	9.6	30.1	0.0
Indirect Uses-Boiler Fuel	12.9	X	0.7	3.0	43.4	0.0
Conventional Boiler Use	12.9	X	0.0	2.4	43.4	0.0
CHP and/or Cogeneration Process	--	X	11.5	7.8	0.0	X
Direct Uses-Total Process	1.6	X	3.8	12.2	34.9	X
Process Heating	2.9	X	0.0	14.8	36.1	X
Process Cooling and Refrigeration	2.3	X	0.0	15.1	X	X
Machine Drive	2.4	X	0.0	31.9	95.4	X
Electro-Chemical Processes	38.3	--	--	--	--	--
Other Process Use	1.7	X	30.0	3.9	58.7	X
Direct Uses-Total Nonprocess	2.0	X	5.3	21.1	57.5	0.0
Facility HVAC (f)	2.2	X	8.2	22.1	61.1	0.0
Facility Lighting	2.2	--	--	--	--	--
Other Facility Support	5.7	X	0.0	9.2	65.3	X
Onsite Transportation	6.7	--	8.8	20.1	19.7	--
Conventional Electricity Generation	--	X	4.2	43.3	X	X
Other Nonprocess Use	4.1	X	6.4	1.4	0.0	X
End Use Not Reported	0.0	X	X	0.0	50.6	X

325992   **Photographic Film, Paper, Plate, and Chemicals**

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

326   **PLASTICS AND RUBBER PRODUCTS**

TOTAL FUEL CONSUMPTION	7.7	72.4	64.9	14.3	17.3	X
Indirect Uses-Boiler Fuel	59.1	72.4	59.5	24.3	19.5	X
Conventional Boiler Use	59.1	72.4	80.3	33.6	72.1	X
CHP and/or Cogeneration Process	--	X	82.0	33.4	0.0	X
Direct Uses-Total Process	8.3	X	84.3	19.7	52.3	X
Process Heating	17.4	X	99.0	20.8	67.7	X
Process Cooling and Refrigeration	13.9	X	X	95.4	X	X
Machine Drive	9.4	X	64.6	63.4	73.7	X
Electro-Chemical Processes	54.0	--	--	--	--	--
Other Process Use	45.9	X	57.5	56.5	14.0	X
Direct Uses-Total Nonprocess	9.7	X	43.0	19.5	16.2	X
Facility HVAC (f)	10.0	X	X	20.4	61.6	X
Facility Lighting	9.7	--	--	--	--	--
Other Facility Support	15.8	X	X	32.9	95.2	X
Onsite Transportation	20.5	--	53.0	89.9	16.9	--
Conventional Electricity Generation	--	X	67.7	95.9	X	X

Other Nonprocess Use	90.7	X	55.8	X	94.0	X
End Use Not Reported	74.6	X	X	X	76.4	X

327   **NONMETALLIC MINERAL PRODUCTS**

TOTAL FUEL CONSUMPTION	2.5	97.3	16.7	1.7	27.5	7.5
Indirect Uses-Boiler Fuel	13.0	X	88.1	17.0	12.8	0.0
Conventional Boiler Use	13.0	X	47.9	30.0	0.1	0.0
CHP and/or Cogeneration Process	--	X	99.0	19.6	65.2	0.0
Direct Uses-Total Process	2.6	97.3	28.0	1.6	51.5	7.5
Process Heating	2.9	97.3	58.3	1.3	57.7	0.2
Process Cooling and Refrigeration	7.8	X	X	21.6	X	4.9
Machine Drive	2.8	97.3	31.9	6.8	63.0	0.0
Electro-Chemical Processes	1.5	--	--	--	--	--
Other Process Use	25.8	X	42.0	54.8	44.6	76.3
Direct Uses-Total Nonprocess	4.0	X	19.1	7.8	11.5	0.0
Facility HVAC (f)	4.3	X	51.6	8.3	38.2	X
Facility Lighting	4.9	--	--	--	--	--
Other Facility Support	6.8	X	83.9	9.8	64.6	0.0
Onsite Transportation	8.7	--	19.2	42.8	11.4	--
Conventional Electricity Generation	--	X	74.9	70.9	0.0	X
Other Nonprocess Use	27.5	X	57.4	26.1	66.7	X
End Use Not Reported	24.9	X	X	13.3	91.0	X

327120   **Clay Building Material and Refractories**

TOTAL FUEL CONSUMPTION	3.6	X	2.2	2.2	5.5	0.0
Indirect Uses-Boiler Fuel	35.2	X	X	8.4	0.0	X
Conventional Boiler Use	35.2	X	X	2.7	0.0	X
CHP and/or Cogeneration Process	--	X	X	8.7	X	X
Direct Uses-Total Process	3.2	X	10.0	1.9	8.1	0.0
Process Heating	3.6	X	0.1	2.0	0.3	0.0
Process Cooling and Refrigeration	12.2	X	X	X	X	X
Machine Drive	3.8	X	16.1	15.7	70.0	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	58.2	X	0.0	9.9	72.5	0.0
Direct Uses-Total Nonprocess	7.0	X	2.2	9.5	6.9	X
Facility HVAC (f)	6.0	X	35.5	10.0	30.2	X
Facility Lighting	9.9	--	--	--	--	--

Other Facility Support	8.8	X	0.0	17.4	X	X
Onsite Transportation	13.1	--	2.2	0.1	5.8	--
Conventional Electricity Generation	--	X	0.4	X	X	X
Other Nonprocess Use	49.2	X	8.5	X	0.0	X
End Use Not Reported	8.2	X	X	X	8.1	X

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

327212 **Other Pressed and Blown Glass and Glassware**

TOTAL FUEL CONSUMPTION	0.8	X	0.7	0.7	27.7	X
Indirect Uses-Boiler Fuel	17.5	X	0.0	3.9	44.6	X
Conventional Boiler Use	17.5	X	0.0	2.6	X	X
CHP and/or Cogeneration Process	--	X	X	5.2	44.6	X
Direct Uses-Total Process	0.5	X	0.0	0.7	37.2	X
Process Heating	0.8	X	0.0	0.7	40.1	X
Process Cooling and Refrigeration	0.5	X	X	9.8	X	X
Machine Drive	1.0	X	0.0	0.3	0.3	X
Electro-Chemical Processes	1.7	--	--	--	--	--
Other Process Use	0.4	X	0.0	0.0	0.0	X

	Col1	Col2	Col3	Col4	Col5	Col6
Direct Uses-Total Nonprocess	2.3	X	0.9	2.1	24.5	X
Facility HVAC (f)	3.1	X	X	2.2	71.6	X
Facility Lighting	1.9	--	--	--	--	--
Other Facility Support	3.4	X	X	1.8	73.7	X
Onsite Transportation	5.0	--	0.5	X	16.1	--
Conventional Electricity Generation	--	X	0.0	91.9	X	X
Other Nonprocess Use	0.0	X	24.7	X	0.0	X
End Use Not Reported	X	X	X	X	10.3	X

327213 Glass Containers

	Col1	Col2	Col3	Col4	Col5	Col6
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	X	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	X	0.0	X	X
Machine Drive	0.0	X	0.0	0.0	X	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	X	X	X	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (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	X	0.0	X	X
End Use Not Reported	0.0	X	X	0.0	X	X

327215 Glass Products from Purchased Glass

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	1.4	X	26.8	1.1	1.9	X
Indirect Uses-Boiler Fuel	14.8	X	54.8	1.2	0.1	X
Conventional Boiler Use	14.8	X	54.9	0.7	0.1	X
CHP and/or Cogeneration Process	--	X	0.0	1.5	0.0	X
Direct Uses-Total Process	1.6	X	0.0	1.2	1.4	X
Process Heating	2.9	X	X	1.4	0.1	X
Process Cooling and Refrigeration	1.2	X	X	70.0	X	X

Machine Drive	1.2	X	0.0	0.6	0.3	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	1.5	X	0.0	0.5	81.4	X
Direct Uses-Total Nonprocess	1.8	X	30.0	3.7	2.5	X
Facility HVAC (f)	2.3	X	45.0	4.1	0.0	X
Facility Lighting	4.1	--	--	--	--	--
Other Facility Support	2.0	X	91.2	5.4	75.8	X
Onsite Transportation	1.3	--	5.7	62.3	2.9	--
Conventional Electricity Generation	--	X	0.0	0.0	0.0	X
Other Nonprocess Use	1.2	X	1.1	0.2	5.1	X
End Use Not Reported	18.3	X	X	0.0	45.9	X

327310   Cements

TOTAL FUEL CONSUMPTION	0.3	X	0.3	1.2	1.1	0.3
Indirect Uses-Boiler Fuel	0.0	X	X	0.0	X	0.0
Conventional Boiler Use	0.0	X	X	0.0	X	0.0
CHP and/or Cogeneration Process	--	X	X	0.0	X	0.0
Direct Uses-Total Process	0.3	X	0.1	1.2	8.7	0.3
Process Heating	1.0	X	0.0	0.2	0.0	0.3
Process Cooling and Refrigeration	0.8	X	X	23.5	X	4.9
Machine Drive	0.4	X	0.1	0.0	12.3	0.0
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	43.0	X	X	X
Direct Uses-Total Nonprocess	1.4	X	0.5	3.4	0.1	0.0
Facility HVAC (f)	1.3	X	0.0	3.8	0.0	X
Facility Lighting	2.1	--	--	--	--	--
Other Facility Support	1.1	X	X	0.1	0.0	0.0
Onsite Transportation	0.0	--	0.5	X	0.2	--
Conventional Electricity Generation	--	X	0.0	X	X	X
Other Nonprocess Use	0.0	X	0.0	X	1.2	X
End Use Not Reported	0.0	X	X	0.0	X	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	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	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	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	X	0.0	0.0	X
Facility Lighting	0.0	--	--	--	--	--
Other Facility Support	0.0	X	X	0.0	0.0	X
Onsite Transportation	0.0	--	0.0	X	0.0	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	0.0	X	X	X	0.0	X
End Use Not Reported	X	X	X	X	X	X
327420 **Gypsum**						
TOTAL FUEL CONSUMPTION	2.6	X	47.3	0.5	1.4	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	0.0	X	X
Direct Uses-Total Process	2.9	X	75.4	0.5	X	X
Process Heating	17.0	X	72.8	0.5	X	X
Process Cooling and Refrigeration	3.5	X	X	0.0	X	X
Machine Drive	3.1	X	78.2	0.0	X	X
Electro-Chemical Processes	X	--	--	--	--	--
Other Process Use	51.8	X	X	X	X	X
Direct Uses-Total Nonprocess	1.9	X	37.9	2.9	1.4	X
Facility HVAC (f)	2.0	X	0.0	3.8	0.0	X
Facility Lighting	2.0	--	--	--	--	--
Other Facility Support	4.9	X	0.0	0.3	X	X
Onsite Transportation	0.0	--	17.8	0.0	1.4	--
Conventional Electricity Generation	--	X	87.6	X	X	X
Other Nonprocess Use	0.0	X	57.2	X	57.9	X
End Use Not Reported	0.0	X	X	14.4	0.0	X
327993 **Mineral Wool**						
TOTAL FUEL CONSUMPTION	0.4	X	0.1	1.0	6.3	0.0

	Col1	Col2	Col3	Col4	Col5	Col6
Indirect Uses-Boiler Fuel	16.6	X	X	20.4	X	X
Conventional Boiler Use	16.6	X	X	0.0	X	X
CHP and/or Cogeneration Process	--	X	X	23.7	X	X
Direct Uses-Total Process	0.4	X	0.1	0.7	0.4	0.0
Process Heating	0.8	X	0.0	0.7	0.0	0.0
Process Cooling and Refrigeration	0.3	X	X	0.0	X	X
Machine Drive	0.5	X	0.1	2.3	5.5	X
Electro-Chemical Processes	2.2	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	X	X
Direct Uses-Total Nonprocess	0.9	X	0.1	2.0	7.2	X
Facility HVAC (f)	1.5	X	0.4	2.4	0.0	X
Facility Lighting	0.7	--	--	--	--	--
Other Facility Support	1.2	X	0.1	0.5	X	X
Onsite Transportation	5.9	--	0.0	0.0	7.2	--
Conventional Electricity Generation	--	X	0.0	0.0	X	X
Other Nonprocess Use	5.9	X	0.0	X	X	X
End Use Not Reported	0.0	X	X	X	X	X

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	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	1.0	0.3	0.9	0.2	2.2	0.1
Indirect Uses-Boiler Fuel	4.9	0.0	0.0	0.5	2.4	X
Conventional Boiler Use	4.9	0.0	0.0	0.3	2.5	X
CHP and/or Cogeneration Process	--	0.0	0.0	0.7	4.1	X
Direct Uses-Total Process	0.9	89.7	0.5	0.2	1.7	0.1
Process Heating	1.3	X	5.2	0.2	2.0	0.1
Process Cooling and Refrigeration	0.6	X	0.0	0.2	0.6	X
Machine Drive	1.3	89.7	0.3	5.2	5.1	X
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	0.4	X	0.0	0.3	3.6	0.0
Direct Uses-Total Nonprocess	2.5	X	1.1	0.7	3.6	X
Facility HVAC (f)	2.9	X	4.0	0.8	19.0	X
Facility Lighting	2.8	--	--	--	--	--
Other Facility Support	1.2	X	8.5	1.1	3.8	X
Onsite Transportation	2.0	--	1.1	2.1	2.8	--
Conventional Electricity Generation	--	X	0.3	1.4	8.3	X
Other Nonprocess Use	4.3	X	2.2	0.1	0.7	X
End Use Not Reported	5.9	X	X	2.2	5.8	X

331110 Iron and Steel Mills and Ferroalloys

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	X
Conventional Boiler Use	0.0	0.0	X	0.0	X	X
CHP and/or Cogeneration Process	--	0.0	0.0	0.0	0.0	X
Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	0.0
Process Heating	0.0	X	0.0	0.0	0.0	0.0
Process Cooling and Refrigeration	0.0	X	X	0.0	0.0	X
Machine Drive	0.0	X	0.0	0.0	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	0.0	0.0
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (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	0.0	X
Other Nonprocess Use	0.0	X	0.0	0.0	0.0	X
End Use Not Reported	0.0	X	X	0.0	0.0	X

3312   Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	17.6	X	11.1	3.9	15.4	0.0
Indirect Uses-Boiler Fuel	42.2	X	0.0	10.8	66.2	X
Conventional Boiler Use	42.2	X	X	6.0	72.5	X
CHP and/or Cogeneration Process	--	X	0.0	16.1	26.0	X
Direct Uses-Total Process	16.4	X	2.0	3.3	20.7	0.0
Process Heating	30.9	X	0.0	3.4	33.2	0.0
Process Cooling and Refrigeration	2.2	X	X	0.0	0.0	X
Machine Drive	15.7	X	2.1	25.8	28.8	X
Electro-Chemical Processes	2.1	--	--	--	--	--
Other Process Use	5.0	X	0.0	0.5	50.7	X
Direct Uses-Total Nonprocess	26.0	X	13.7	4.8	17.3	X
Facility HVAC (f)	29.0	X	45.2	5.1	54.6	X
Facility Lighting	28.7	--	--	--	--	--
Other Facility Support	12.9	X	0.0	10.7	68.2	X
Onsite Transportation	8.4	--	13.8	X	12.4	--
Conventional Electricity Generation	--	X	0.0	3.2	63.9	X
Other Nonprocess Use	4.1	X	X	X	73.7	X

	End Use Not Reported	90.8	X	X	X	7.9	X

3313	**Alumina and Aluminum**						
	TOTAL FUEL CONSUMPTION	0.1	X	0.7	0.4	1.0	X
	Indirect Uses-Boiler Fuel	0.1	X	0.0	0.1	13.4	X
	Conventional Boiler Use	0.1	X	X	0.0	0.0	X
	CHP and/or Cogeneration Process	--	X	0.0	0.1	13.8	X
	Direct Uses-Total Process	0.1	X	0.0	0.5	1.0	X
	Process Heating	0.9	X	0.0	0.5	1.7	X
	Process Cooling and Refrigeration	0.8	X	X	6.3	0.0	X
	Machine Drive	0.2	X	0.0	3.5	0.1	X
	Electro-Chemical Processes	0.0	--	--	--	--	--
	Other Process Use	0.1	X	0.0	0.1	0.0	X
	Direct Uses-Total Nonprocess	0.2	X	0.9	0.3	1.2	X
	Facility HVAC (f)	0.4	X	0.0	0.3	0.1	X
	Facility Lighting	0.2	--	--	--	--	--
	Other Facility Support	0.2	X	9.7	0.6	0.0	X
	Onsite Transportation	1.0	--	0.9	27.8	2.3	--
	Conventional Electricity Generation	--	X	X	0.1	0.0	X
	Other Nonprocess Use	0.2	X	0.0	X	0.0	X
	End Use Not Reported	0.0	X	X	0.1	0.2	X

331314	**Secondary Smelting and Alloying of Aluminum**						
	TOTAL FUEL CONSUMPTION	1.5	X	2.8	2.3	1.1	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	0.0	X	X
	Direct Uses-Total Process	1.6	X	0.0	2.4	0.0	X
	Process Heating	3.7	X	X	2.4	0.0	X
	Process Cooling and Refrigeration	2.6	X	X	0.0	X	X
	Machine Drive	1.9	X	0.0	0.0	0.0	X
	Electro-Chemical Processes	X	--	--	--	--	--
	Other Process Use	0.0	X	X	0.0	0.0	X
	Direct Uses-Total Nonprocess	3.1	X	3.4	1.8	1.3	X
	Facility HVAC (f)	4.8	X	0.0	1.8	0.6	X
	Facility Lighting	1.7	--	--	--	--	--
	Other Facility Support	3.3	X	9.7	3.8	0.0	X

	Col1	Col2	Col3	Col4	Col5	Col6
Onsite Transportation	0.0	--	3.4	X	13.3	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	28.2	X	0.0	X	0.0	X
End Use Not Reported	X	X	X	X	1.0	X

331315 Aluminum Sheet, Plate and Foils

	Col1	Col2	Col3	Col4	Col5	Col6
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	X	0.0	X	X
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	0.0	0.0	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.0	X	0.0	0.0	0.0	X
Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
Facility HVAC (f)	0.0	X	X	0.0	X	X
Facility Lighting	0.0	--	--	--	--	--
Other Facility Support	0.0	X	X	0.0	X	X
Onsite Transportation	0.0	--	0.0	X	0.0	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	X	X	0.0	X	0.0	X
End Use Not Reported	X	X	X	X	X	X

331318 Other Aluminum Rolling, Drawing and Extruding

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	1.2	X	0.3	0.4	2.3	X
Indirect Uses-Boiler Fuel	0.3	X	X	0.5	13.6	X
Conventional Boiler Use	0.3	X	X	0.0	0.0	X
CHP and/or Cogeneration Process	--	X	X	0.7	14.0	X
Direct Uses-Total Process	1.4	X	0.0	0.5	2.1	X
Process Heating	2.8	X	0.0	0.4	2.7	X
Process Cooling and Refrigeration	2.0	X	X	8.7	0.0	X
Machine Drive	1.2	X	X	4.0	0.1	X
Electro-Chemical Processes	0.0	--	--	--	--	--
Other Process Use	0.8	X	X	3.2	0.0	X
Direct Uses-Total Nonprocess	0.8	X	0.3	1.3	2.8	X

Facility HVAC (f)	1.0	X	0.0	1.3	0.0	X
Facility Lighting	0.9	--	--	--	--	--
Other Facility Support	1.8	X	X	2.4	0.0	X
Onsite Transportation	2.0	--	0.3	27.8	3.0	--
Conventional Electricity Generation	--	X	X	72.2	X	X
Other Nonprocess Use	1.6	X	X	X	0.0	X
End Use Not Reported	0.0	X	X	0.0	0.0	X

3314   **Nonferrous Metals, except Aluminum**

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

331410   **Nonferrous Metal (except Aluminum) Smelting and Refining**

TOTAL FUEL CONSUMPTION	0.6	X	0.2	1.3	3.1	X
Indirect Uses-Boiler Fuel	0.0	X	0.0	0.0	0.0	X
Conventional Boiler Use	0.0	X	X	0.0	X	X
CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	X
Direct Uses-Total Process	0.6	X	0.0	0.1	0.4	X
Process Heating	0.2	X	0.0	0.1	0.0	X
Process Cooling and Refrigeration	0.7	X	X	0.0	X	X
Machine Drive	1.0	X	0.0	0.0	0.7	X

	Col1	Col2	Col3	Col4	Col5	Col6
Electro-Chemical Processes	0.9	--	--	--	--	--
Other Process Use	1.6	X	X	0.0	0.0	X
Direct Uses-Total Nonprocess	1.4	X	0.4	17.7	8.4	X
Facility HVAC (f)	1.9	X	0.0	19.7	0.0	X
Facility Lighting	1.5	--	--	--	--	--
Other Facility Support	2.2	X	60.2	35.3	0.0	X
Onsite Transportation	0.0	--	0.1	0.0	9.5	--
Conventional Electricity Generation	--	X	2.9	0.0	X	X
Other Nonprocess Use	X	X	0.0	X	69.2	X
End Use Not Reported	0.0	X	X	X	0.0	X
3315 **Foundries**						
TOTAL FUEL CONSUMPTION	0.9	89.7	1.6	0.9	1.8	0.9
Indirect Uses-Boiler Fuel	8.2	X	0.0	4.9	0.0	X
Conventional Boiler Use	8.2	X	0.0	16.2	0.0	X
CHP and/or Cogeneration Process	--	X	0.0	4.7	0.0	X
Direct Uses-Total Process	0.9	89.7	8.9	0.9	3.4	0.9
Process Heating	1.0	X	12.9	1.0	4.4	45.8
Process Cooling and Refrigeration	4.2	X	0.0	1.3	37.4	X
Machine Drive	1.1	89.7	1.8	4.7	5.6	X
Electro-Chemical Processes	42.7	--	--	--	--	--
Other Process Use	2.5	X	0.0	7.2	0.6	0.0
Direct Uses-Total Nonprocess	1.5	X	1.2	1.8	2.2	X
Facility HVAC (f)	2.0	X	43.1	1.9	2.4	X
Facility Lighting	1.1	--	--	--	--	--
Other Facility Support	2.5	X	11.8	4.5	26.9	X
Onsite Transportation	5.3	--	1.0	8.1	2.5	--
Conventional Electricity Generation	--	X	0.0	3.6	X	X
Other Nonprocess Use	40.9	X	15.4	1.7	6.7	X
End Use Not Reported	7.6	X	X	1.0	11.7	X
331511 **Iron Foundries**						
TOTAL FUEL CONSUMPTION	1.5	X	0.8	2.0	4.5	0.0
Indirect Uses-Boiler Fuel	14.5	X	0.0	27.3	0.0	X
Conventional Boiler Use	14.5	X	0.0	0.0	0.0	X
CHP and/or Cogeneration Process	--	X	0.0	35.2	X	X
Direct Uses-Total Process	1.5	X	0.5	1.6	9.9	0.0

Process Heating	1.3	X	0.1	1.9	19.4	X
Process Cooling and Refrigeration	1.8	X	X	96.5	96.5	X
Machine Drive	1.9	X	5.6	0.1	14.2	X
Electro-Chemical Processes	50.2	--	--	--	--	--
Other Process Use	3.2	X	X	1.4	0.1	0.0
Direct Uses-Total Nonprocess	2.9	X	0.9	3.4	4.9	X
Facility HVAC (f)	4.5	X	8.9	3.5	1.7	X
Facility Lighting	2.0	--	--	--	--	--
Other Facility Support	4.5	X	X	2.8	23.0	X
Onsite Transportation	10.9	--	0.9	49.4	6.8	--
Conventional Electricity Generation	--	X	0.0	X	X	X
Other Nonprocess Use	0.0	X	36.4	0.0	7.4	X
End Use Not Reported	0.0	X	X	0.0	14.0	X

331523   Nonferrous Metal Die-Casting Foundries

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

331524   Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	1.1	X	1.6	1.3	2.9	X
Indirect Uses-Boiler Fuel	4.4	X	X	0.1	0.0	X

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

332   FABRICATED METAL PRODUCTS

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

333   MACHINERY

TOTAL FUEL CONSUMPTION	17.1	99.0	29.7	13.0	28.0	99.0
Indirect Uses-Boiler Fuel	40.3	99.0	0.0	24.0	86.0	X
Conventional Boiler Use	40.3	X	X	53.4	X	X
CHP and/or Cogeneration Process	--	99.0	0.0	25.9	86.0	X
Direct Uses-Total Process	19.9	X	38.6	23.6	63.5	X
Process Heating	23.8	X	99.0	28.6	70.6	X
Process Cooling and Refrigeration	19.9	X	X	71.2	X	X
Machine Drive	23.7	X	52.0	41.0	47.1	X
Electro-Chemical Processes	56.2	--	--	--	--	--
Other Process Use	49.5	X	39.6	38.5	56.3	X
Direct Uses-Total Nonprocess	15.3	99.0	44.2	13.1	20.9	99.0
Facility HVAC (f)	14.1	99.0	58.4	13.3	34.5	99.0
Facility Lighting	18.4	--	--	--	--	--
Other Facility Support	19.9	X	X	37.0	94.2	X
Onsite Transportation	21.3	--	55.0	49.4	21.0	--
Conventional Electricity Generation	--	X	79.4	60.8	99.0	X
Other Nonprocess Use	75.7	X	38.8	41.9	24.1	X
End Use Not Reported	74.4	X	X	94.8	59.5	X

334   **COMPUTER AND ELECTRONIC PRODUCTS**

TOTAL FUEL CONSUMPTION	6.7	0.0	57.2	10.4	48.0	X
Indirect Uses-Boiler Fuel	30.4	0.0	23.7	11.6	0.0	X
Conventional Boiler Use	30.4	X	13.5	15.6	0.0	X
CHP and/or Cogeneration Process	--	0.0	26.4	8.5	X	X
Direct Uses-Total Process	7.6	X	88.3	16.7	69.0	X
Process Heating	8.6	X	88.8	9.7	74.1	X
Process Cooling and Refrigeration	22.4	X	X	39.8	X	X
Machine Drive	5.9	X	28.2	74.9	71.8	X
Electro-Chemical Processes	12.7	--	--	--	--	--
Other Process Use	3.9	X	27.9	7.1	X	X
Direct Uses-Total Nonprocess	7.9	0.0	39.4	17.1	54.6	X
Facility HVAC (f)	7.3	0.0	64.6	18.4	82.7	X
Facility Lighting	14.7	--	--	--	--	--
Other Facility Support	9.9	X	59.2	22.9	55.0	X
Onsite Transportation	21.7	--	13.6	96.2	42.5	--
Conventional Electricity Generation	--	X	5.6	96.2	X	X
Other Nonprocess Use	21.6	X	11.0	3.1	9.6	X
End Use Not Reported	28.0	X	X	29.2	0.0	X

334413 Semiconductors and Related Devices

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

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	8.8	47.2	23.6	15.1	24.5	X
Indirect Uses-Boiler Fuel	74.6	X	91.3	35.0	98.9	X
Conventional Boiler Use	74.6	X	91.3	31.7	X	X
CHP and/or Cogeneration Process	--	X	X	53.9	98.9	X
Direct Uses-Total Process	8.5	X	62.3	17.0	61.8	X
Process Heating	16.3	X	X	18.1	63.8	X
Process Cooling and Refrigeration	16.1	X	X	66.7	X	X
Machine Drive	9.9	X	41.4	50.5	X	X
Electro-Chemical Processes	42.5	--	--	--	--	--
Other Process Use	29.8	X	98.4	52.4	79.4	X
Direct Uses-Total Nonprocess	12.5	47.2	25.6	13.9	25.5	X
Facility HVAC (f)	12.3	X	X	13.1	44.4	X
Facility Lighting	14.2	--	--	--	--	--
Other Facility Support	14.1	X	X	40.7	X	X
Onsite Transportation	22.3	--	26.8	87.7	26.4	--

		Col1	Col2	Col3	Col4	Col5	Col6
	Conventional Electricity Generation	--	X	86.8	87.7	X	X
	Other Nonprocess Use	85.5	47.2	48.4	95.7	95.9	X
	End Use Not Reported	58.2	X	X	58.4	55.0	X
336	**TRANSPORTATION EQUIPMENT**						
	TOTAL FUEL CONSUMPTION	9.1	10.2	26.4	8.5	13.5	X
	Indirect Uses-Boiler Fuel	6.8	0.0	2.4	6.1	33.4	X
	Conventional Boiler Use	6.8	0.0	0.0	4.9	37.2	X
	CHP and/or Cogeneration Process	--	0.0	65.7	11.8	58.9	X
	Direct Uses-Total Process	11.5	91.0	43.2	13.8	20.5	X
	Process Heating	23.5	X	X	14.7	27.7	X
	Process Cooling and Refrigeration	29.9	X	X	24.7	21.6	X
	Machine Drive	13.5	X	48.4	19.8	70.6	X
	Electro-Chemical Processes	17.5	--	--	--	--	--
	Other Process Use	20.7	91.0	32.8	37.6	32.6	X
	Direct Uses-Total Nonprocess	6.5	61.5	21.8	14.4	15.3	X
	Facility HVAC (f)	6.8	X	34.3	15.3	17.8	X
	Facility Lighting	10.0	--	--	--	--	--
	Other Facility Support	9.2	X	0.2	12.7	11.5	X
	Onsite Transportation	17.8	--	24.0	47.3	17.3	--
	Conventional Electricity Generation	--	X	38.5	1.1	0.0	X
	Other Nonprocess Use	26.7	61.5	16.4	8.4	25.6	X
	End Use Not Reported	56.0	X	X	38.5	7.1	X
336111	**Automobiles**						
	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	0.0	X	X
	Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	X
	Process Heating	0.0	X	X	0.0	0.0	X
	Process Cooling and Refrigeration	0.0	X	X	0.0	0.0	X
	Machine Drive	0.0	X	0.0	0.0	0.0	X
	Electro-Chemical Processes	0.0	--	--	--	--	--
	Other Process Use	0.0	X	0.0	0.0	0.0	X
	Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
	Facility HVAC (f)	0.0	X	X	0.0	0.0	X

	Col1	Col2	Col3	Col4	Col5	Col6
Facility Lighting	0.0	--	--	--	--	--
Other Facility Support	0.0	X	X	0.0	0.0	X
Onsite Transportation	0.0	--	0.0	X	0.0	--
Conventional Electricity Generation	--	X	0.0	0.0	0.0	X
Other Nonprocess Use	0.0	X	0.0	X	0.0	X
End Use Not Reported	0.0	X	X	0.0	0.0	X

336112 **Light Trucks and Utility Vehicles**

	Col1	Col2	Col3	Col4	Col5	Col6
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	0.0	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	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	0.0	X	X
Other Nonprocess Use	0.0	X	0.0	X	X	X
End Use Not Reported	X	X	X	0.0	0.0	X

3364 **Aerospace Products**

	Col1	Col2	Col3	Col4	Col5	Col6
TOTAL FUEL CONSUMPTION	4.1	0.0	3.9	2.8	18.5	X
Indirect Uses-Boiler Fuel	11.5	0.0	2.4	2.6	36.7	X
Conventional Boiler Use	11.5	X	0.0	4.2	38.9	X
CHP and/or Cogeneration Process	--	0.0	65.7	1.0	0.0	X
Direct Uses-Total Process	3.5	X	4.5	4.1	7.0	X
Process Heating	3.2	X	X	5.0	0.8	X
Process Cooling and Refrigeration	5.6	X	X	0.0	22.0	X
Machine Drive	4.1	X	0.0	7.8	61.7	X
Electro-Chemical Processes	15.7	--	--	--	--	--

Other Process Use	9.1	X	5.4	6.0	14.5	X
Direct Uses-Total Nonprocess	6.1	X	8.3	2.7	21.3	X
Facility HVAC (f)	10.0	X	0.0	3.1	35.7	X
Facility Lighting	3.4	--	--	--	--	--
Other Facility Support	2.5	X	1.6	2.0	2.6	X
Onsite Transportation	4.9	--	9.7	2.0	6.7	--
Conventional Electricity Generation	--	X	31.4	45.9	0.0	X
Other Nonprocess Use	3.6	X	0.8	0.8	0.4	X
End Use Not Reported	28.5	X	X	59.3	12.9	X

336411   Aircraft

TOTAL FUEL CONSUMPTION	10.0	X	8.0	1.6	52.7	X
Indirect Uses-Boiler Fuel	4.2	X	0.0	0.7	74.6	X
Conventional Boiler Use	4.2	X	0.0	0.1	74.6	X
CHP and/or Cogeneration Process	--	X	X	29.0	X	X
Direct Uses-Total Process	2.8	X	0.0	5.1	X	X
Process Heating	5.2	X	X	4.6	X	X
Process Cooling and Refrigeration	4.1	X	X	0.0	X	X
Machine Drive	3.0	X	0.0	25.6	X	X
Electro-Chemical Processes	6.4	--	--	--	--	--
Other Process Use	11.6	X	0.0	0.0	X	X
Direct Uses-Total Nonprocess	14.8	X	10.6	1.8	54.6	X
Facility HVAC (f)	22.3	X	X	1.9	88.6	X
Facility Lighting	2.4	--	--	--	--	--
Other Facility Support	1.7	X	0.0	1.1	X	X
Onsite Transportation	0.5	--	11.1	0.0	7.4	--
Conventional Electricity Generation	--	X	0.0	X	X	X
Other Nonprocess Use	73.8	X	15.6	X	X	X
End Use Not Reported	0.0	X	X	X	47.4	X

337   FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	8.9	X	60.4	12.4	24.6	75.8
Indirect Uses-Boiler Fuel	40.6	X	86.7	36.6	96.1	X
Conventional Boiler Use	40.6	X	X	37.0	99.0	X
CHP and/or Cogeneration Process	--	X	86.7	50.4	90.9	X
Direct Uses-Total Process	10.6	X	97.4	19.6	61.1	75.8
Process Heating	24.2	X	X	21.8	70.3	75.8

Process Cooling and Refrigeration	28.5	X	X	78.7	99.0	X
Machine Drive	11.3	X	97.4	64.7	93.7	X
Electro-Chemical Processes	90.2	--	--	--	--	--
Other Process Use	41.7	X	X	63.5	63.7	X
Direct Uses-Total Nonprocess	9.5	X	57.1	14.9	27.4	75.8
Facility HVAC (f)	12.2	X	79.0	13.2	55.9	75.8
Facility Lighting	9.1	--	--	--	--	--
Other Facility Support	18.3	X	X	77.4	99.0	X
Onsite Transportation	22.0	--	30.2	81.7	20.6	--
Conventional Electricity Generation	--	X	78.8	52.4	99.0	X
Other Nonprocess Use	63.6	X	84.4	X	0.0	X
End Use Not Reported	59.9	X	X	78.3	90.6	X
339 **MISCELLANEOUS**						
TOTAL FUEL CONSUMPTION	11.1	X	59.8	17.6	45.0	99.0
Indirect Uses-Boiler Fuel	33.3	X	99.0	35.8	87.5	X
Conventional Boiler Use	33.3	X	X	25.6	88.1	X
CHP and/or Cogeneration Process	--	X	99.0	45.3	99.0	X
Direct Uses-Total Process	11.8	X	19.5	23.9	64.7	99.0
Process Heating	19.6	X	0.0	26.0	70.1	99.0
Process Cooling and Refrigeration	26.0	X	X	58.8	X	X
Machine Drive	10.7	X	93.4	46.2	59.3	X
Electro-Chemical Processes	63.3	--	--	--	--	--
Other Process Use	61.8	X	X	64.9	X	X
Direct Uses-Total Nonprocess	11.9	X	65.0	17.7	36.6	X
Facility HVAC (f)	10.5	X	69.8	15.0	43.3	X
Facility Lighting	11.8	--	--	--	--	--
Other Facility Support	12.8	X	0.0	27.3	97.3	X
Onsite Transportation	17.7	--	24.4	91.6	56.8	--
Conventional Electricity Generation	--	X	92.6	93.9	X	X
Other Nonprocess Use	84.2	X	28.0	98.9	72.5	X
End Use Not Reported	46.3	X	X	82.6	82.9	X

(a) The Bureau of the Census classifies establishments using the 2017 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

(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.

D=Withheld to avoid disclosing data for individual establishments.

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

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells. Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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