

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

Table 5.3 End Uses of Fuel Consumption, 2018;

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

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	HGL (excluding natural gasoline)(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)
Total United States							
311 - 339	ALL MANUFACTURING INDUSTRIES						
	TOTAL FUEL CONSUMPTION	894,476	3	15	6,129	17	21
	Indirect Uses-Boiler Fuel	13,268	2	1	2,475	2	9
	Conventional Boiler Use	13,268	1	*	793	1	1
	CHP and/or Cogeneration Process	--	1	1	1,683	1	8
	Direct Uses-Total Process	718,068	1	6	3,149	D	12
	Process Heating	86,292	1	2	2,707	6	9
	Process Cooling and Refrigeration	74,977	*	*	24	*	*
	Machine Drive	460,930	*	2	165	1	1
	Electro-Chemical Processes	73,394	--	--	--	--	--
	Other Process Use	22,475	*	1	253	D	2
	Direct Uses-Total Nonprocess	152,648	*	7	464	D	*
	Facility HVAC (f)	75,538	*	*	372	D	*
	Facility Lighting	53,024	--	--	--	--	--
	Other Facility Support	16,147	0	*	51	*	*
	Onsite Transportation	4,266	--	6	3	5	--
	Conventional Electricity Generation	--	*	1	27	*	*
	Other Nonprocess Use	3,673	*	1	11	*	0
	End Use Not Reported	10,492	*	*	42	1	0
311	FOOD						

TOTAL FUEL CONSUMPTION	94,854	*	2	644	2	2
Indirect Uses-Boiler Fuel	2,717	*	*	374	1	2
Conventional Boiler Use	2,717	*	*	131	*	*
CHP and/or Cogeneration Process	--	*	*	242	*	2
Direct Uses-Total Process	69,592	*	Q	191	1	*
Process Heating	3,324	*	Q	161	Q	*
Process Cooling and Refrigeration	25,003	*	*	4	*	0
Machine Drive	39,621	*	*	13	*	0
Electro-Chemical Processes	592	--	--	--	--	--
Other Process Use	1,051	0	*	14	*	0
Direct Uses-Total Nonprocess	21,167	*	1	74	*	*
Facility HVAC (f)	9,908	*	*	51	*	0
Facility Lighting	8,309	--	--	--	--	--
Other Facility Support	1,865	0	*	22	*	0
Onsite Transportation	820	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	*
Other Nonprocess Use	266	0	*	*	*	0
End Use Not Reported	1,379	0	0	5	*	0

3112 Grain and Oilseed Milling

TOTAL FUEL CONSUMPTION	15,720	*	*	144	*	1
Indirect Uses-Boiler Fuel	596	0	*	96	*	1
Conventional Boiler Use	596	0	*	35	0	*
CHP and/or Cogeneration Process	--	0	*	60	*	1
Direct Uses-Total Process	13,420	*	*	43	*	0
Process Heating	615	*	*	37	*	0
Process Cooling and Refrigeration	1,799	0	0	*	*	0
Machine Drive	10,698	0	*	3	*	0
Electro-Chemical Processes	135	--	--	--	--	--
Other Process Use	173	0	*	2	*	0
Direct Uses-Total Nonprocess	1,626	*	*	4	*	0
Facility HVAC (f)	639	*	*	4	*	0
Facility Lighting	608	--	--	--	--	--
Other Facility Support	180	0	*	*	*	0
Onsite Transportation	73	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	126	0	*	*	*	0
End Use Not Reported	Q	0	0	Q	*	0

311221 Wet Corn Milling

TOTAL FUEL CONSUMPTION	6,575	0	*	59	*	1
Indirect Uses-Boiler Fuel	288	0	0	42	0	1
Conventional Boiler Use	288	0	0	8	0	*
CHP and/or Cogeneration Process	--	0	0	34	0	*
Direct Uses-Total Process	5,985	0	*	16	*	0
Process Heating	73	0	0	16	*	0
Process Cooling and Refrigeration	1,233	0	0	*	0	0
Machine Drive	4,559	0	*	0	*	0
Electro-Chemical Processes	120	--	--	--	--	--
Other Process Use	0	0	*	*	0	0
Direct Uses-Total Nonprocess	302	0	*	1	*	0
Facility HVAC (f)	147	0	*	*	*	0
Facility Lighting	106	--	--	--	--	--
Other Facility Support	34	0	*	*	*	0
Onsite Transportation	16	--	*	*	*	--
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	2,038	*	*	32	*	1
Indirect Uses-Boiler Fuel	231	*	*	24	0	1
Conventional Boiler Use	231	*	*	4	0	*
CHP and/or Cogeneration Process	--	*	*	19	0	1
Direct Uses-Total Process	1,592	0	*	8	*	*
Process Heating	75	0	0	8	0	*
Process Cooling and Refrigeration	89	0	0	*	0	0
Machine Drive	1,304	0	*	*	0	0
Electro-Chemical Processes	30	--	--	--	--	--
Other Process Use	94	0	*	*	*	0
Direct Uses-Total Nonprocess	215	0	*	*	*	*
Facility HVAC (f)	76	0	0	*	*	0
Facility Lighting	91	--	--	--	--	--
Other Facility Support	25	0	*	*	*	0
Onsite Transportation	10	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	*

Other Nonprocess Use	13	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	10,516	*	*	88	*	0
Indirect Uses-Boiler Fuel	357	0	*	57	*	0
Conventional Boiler Use	357	0	0	17	*	0
CHP and/or Cogeneration Process	--	0	*	40	*	0
Direct Uses-Total Process	8,054	*	*	23	*	0
Process Heating	328	*	*	22	*	0
Process Cooling and Refrigeration	4,137	0	*	*	*	0
Machine Drive	3,419	0	*	1	*	0
Electro-Chemical Processes	10	--	--	--	--	--
Other Process Use	159	0	*	*	*	0
Direct Uses-Total Nonprocess	2,020	*	*	8	*	0
Facility HVAC (f)	827	*	*	6	*	0
Facility Lighting	743	--	--	--	--	--
Other Facility Support	255	0	*	2	*	0
Onsite Transportation	137	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	57	0	*	*	*	0
End Use Not Reported	86	0	0	1	*	0

3115 Dairy Products

TOTAL FUEL CONSUMPTION	11,570	*	*	76	*	0
Indirect Uses-Boiler Fuel	294	*	*	46	*	0
Conventional Boiler Use	294	*	*	20	*	0
CHP and/or Cogeneration Process	--	0	*	25	*	0
Direct Uses-Total Process	8,658	*	*	24	*	0
Process Heating	647	0	*	21	*	0
Process Cooling and Refrigeration	3,559	*	*	1	*	0
Machine Drive	4,185	*	*	1	*	0
Electro-Chemical Processes	132	--	--	--	--	--
Other Process Use	135	0	*	1	0	0
Direct Uses-Total Nonprocess	2,403	*	*	5	*	0
Facility HVAC (f)	1,097	*	*	4	*	0
Facility Lighting	861	--	--	--	--	--

Other Facility Support	246	0	*	1	*	0
Onsite Transportation	168	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	31	0	*	*	*	0
End Use Not Reported	215	0	0	1	*	0

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	31,698	*	1	144	*	0
Indirect Uses-Boiler Fuel	564	*	*	86	*	0
Conventional Boiler Use	564	*	*	37	*	0
CHP and/or Cogeneration Process	--	0	*	49	*	0
Direct Uses-Total Process	21,677	0	*	32	*	0
Process Heating	686	0	*	24	*	0
Process Cooling and Refrigeration	11,711	0	*	2	*	0
Machine Drive	9,040	0	*	2	*	0
Electro-Chemical Processes	89	--	--	--	--	--
Other Process Use	150	0	*	4	*	0
Direct Uses-Total Nonprocess	Q	0	*	25	*	0
Facility HVAC (f)	Q	0	*	12	*	0
Facility Lighting	Q	--	--	--	--	--
Other Facility Support	451	0	*	12	*	0
Onsite Transportation	216	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	24	0	*	*	*	0
End Use Not Reported	119	0	0	1	*	0

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	14,442	*	*	52	*	*
Indirect Uses-Boiler Fuel	255	*	*	34	*	*
Conventional Boiler Use	255	*	*	17	*	*
CHP and/or Cogeneration Process	--	*	*	17	*	*
Direct Uses-Total Process	10,962	0	*	13	*	*
Process Heating	422	0	*	11	*	*
Process Cooling and Refrigeration	2,805	0	*	*	*	0
Machine Drive	7,237	0	*	1	*	0
Electro-Chemical Processes	128	--	--	--	--	--
Other Process Use	370	0	*	1	*	0

Direct Uses-Total Nonprocess	3,127	*	*	5	*	*
Facility HVAC (f)	1,557	0	*	4	*	*
Facility Lighting	1,057	--	--	--	--	--
Other Facility Support	260	0	0	1	*	0
Onsite Transportation	172	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	80	*	*	*	*	0
End Use Not Reported	98	0	0	*	*	0

3121 Beverages

TOTAL FUEL CONSUMPTION	13,657	*	*	48	*	*
Indirect Uses-Boiler Fuel	247	*	*	30	*	*
Conventional Boiler Use	247	0	*	15	*	*
CHP and/or Cogeneration Process	--	*	*	15	*	*
Direct Uses-Total Process	10,504	0	*	13	*	*
Process Heating	413	0	*	11	*	*
Process Cooling and Refrigeration	2,777	0	*	*	*	0
Machine Drive	6,820	0	*	1	*	0
Electro-Chemical Processes	128	--	--	--	--	--
Other Process Use	366	0	*	1	*	0
Direct Uses-Total Nonprocess	2,808	*	*	5	*	*
Facility HVAC (f)	1,372	0	*	4	*	*
Facility Lighting	962	--	--	--	--	--
Other Facility Support	230	0	0	1	*	0
Onsite Transportation	166	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	78	*	*	*	*	0
End Use Not Reported	98	0	0	*	*	0

3122 Tobacco

TOTAL FUEL CONSUMPTION	785	*	*	4	*	0
Indirect Uses-Boiler Fuel	8	*	*	3	*	0
Conventional Boiler Use	8	*	*	2	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	458	0	*	1	*	0
Process Heating	9	0	0	*	*	0
Process Cooling and Refrigeration	28	0	0	0	0	0

Machine Drive	417	0	*	*	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	3	0	0	*	0	0
Direct Uses-Total Nonprocess	318	0	*	*	*	0
Facility HVAC (f)	185	0	*	*	*	0
Facility Lighting	95	--	--	--	--	--
Other Facility Support	31	0	0	*	*	0
Onsite Transportation	7	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	2	0	*	*	*	0
End Use Not Reported	*	0	0	0	0	0

313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	10,949	*	*	22	*	*
Indirect Uses-Boiler Fuel	228	*	*	11	*	*
Conventional Boiler Use	228	*	*	7	*	*
CHP and/or Cogeneration Process	--	*	*	4	*	*
Direct Uses-Total Process	7,833	0	*	9	*	0
Process Heating	869	0	*	8	*	0
Process Cooling and Refrigeration	538	0	0	*	0	0
Machine Drive	6,146	0	*	*	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	152	0	0	*	*	0
Direct Uses-Total Nonprocess	2,833	0	*	2	*	0
Facility HVAC (f)	1,765	0	*	2	*	0
Facility Lighting	677	--	--	--	--	--
Other Facility Support	193	0	*	*	*	0
Onsite Transportation	82	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	116	0	*	0	*	0
End Use Not Reported	Q	0	0	0	*	0

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	2,858	0	*	11	*	*
Indirect Uses-Boiler Fuel	101	0	*	4	*	0
Conventional Boiler Use	101	0	*	3	*	0
CHP and/or Cogeneration Process	--	0	*	*	0	0

Direct Uses-Total Process	2,197	0	*	6	*	*
Process Heating	188	0	*	5	*	*
Process Cooling and Refrigeration	135	0	0	0	0	0
Machine Drive	1,848	0	0	Q	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	Q	0	*	0	0	0
Direct Uses-Total Nonprocess	514	0	*	1	*	0
Facility HVAC (f)	273	0	*	1	*	0
Facility Lighting	184	--	--	--	--	--
Other Facility Support	36	0	*	*	0	0
Onsite Transportation	16	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	Q	0	0	0	0	0
End Use Not Reported	Q	0	0	*	*	0

315 APPAREL

TOTAL FUEL CONSUMPTION	724	0	*	2	*	*
Indirect Uses-Boiler Fuel	19	0	0	1	*	0
Conventional Boiler Use	19	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	375	0	*	*	*	0
Process Heating	17	0	0	*	*	0
Process Cooling and Refrigeration	44	0	0	*	0	0
Machine Drive	302	0	0	*	0	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	Q	0	*	0	0	0
Direct Uses-Total Nonprocess	314	0	0	*	*	*
Facility HVAC (f)	164	0	0	*	*	*
Facility Lighting	102	--	--	--	--	--
Other Facility Support	33	0	0	*	0	0
Onsite Transportation	6	--	0	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	9	0	0	*	*	0
End Use Not Reported	Q	0	0	*	*	0

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	226	0	*	1	*	0
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Indirect Uses-Boiler Fuel	2	0	*	*	*	0
Conventional Boiler Use	2	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	130	0	0	*	*	0
Process Heating	11	0	0	*	*	0
Process Cooling and Refrigeration	4	0	0	*	0	0
Machine Drive	114	0	0	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	*	0	0	*	0	0
Direct Uses-Total Nonprocess	85	0	*	*	*	0
Facility HVAC (f)	48	0	*	*	*	0
Facility Lighting	26	--	--	--	--	--
Other Facility Support	9	0	0	*	*	0
Onsite Transportation	1	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	Q	0	*	*	0	0
End Use Not Reported	8	0	0	*	*	0

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	22,526	*	2	65	1	*
Indirect Uses-Boiler Fuel	536	*	*	19	*	*
Conventional Boiler Use	536	0	*	4	*	0
CHP and/or Cogeneration Process	--	*	*	14	*	*
Direct Uses-Total Process	18,418	*	Q	39	*	*
Process Heating	1,176	*	*	33	*	*
Process Cooling and Refrigeration	212	0	*	*	*	0
Machine Drive	16,872	*	*	2	*	0
Electro-Chemical Processes	46	--	--	--	--	--
Other Process Use	113	0	Q	4	*	0
Direct Uses-Total Nonprocess	3,371	*	1	7	1	*
Facility HVAC (f)	1,387	*	*	6	*	*
Facility Lighting	1,452	--	--	--	--	--
Other Facility Support	441	0	*	*	*	0
Onsite Transportation	67	--	1	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	24	0	*	1	*	0
End Use Not Reported	201	0	0	*	*	0

321113 Sawmills

TOTAL FUEL CONSUMPTION	8,650	*	1	17	*	0
Indirect Uses-Boiler Fuel	192	*	*	5	*	0
Conventional Boiler Use	192	0	*	1	*	0
CHP and/or Cogeneration Process	--	*	*	5	*	0
Direct Uses-Total Process	7,405	0	*	Q	*	0
Process Heating	439	0	*	Q	*	0
Process Cooling and Refrigeration	27	0	*	*	0	0
Machine Drive	6,911	0	*	*	*	0
Electro-Chemical Processes	21	--	--	--	--	--
Other Process Use	7	0	*	0	*	0
Direct Uses-Total Nonprocess	934	*	1	1	*	0
Facility HVAC (f)	281	*	*	*	*	0
Facility Lighting	462	--	--	--	--	--
Other Facility Support	180	0	*	*	*	0
Onsite Transportation	8	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	3	0	*	0	*	0
End Use Not Reported	119	0	0	*	*	0

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	6,999	*	*	30	*	*
Indirect Uses-Boiler Fuel	146	0	*	9	*	*
Conventional Boiler Use	146	0	*	2	*	0
CHP and/or Cogeneration Process	--	0	*	7	*	*
Direct Uses-Total Process	5,959	*	*	19	*	0
Process Heating	225	*	*	14	*	0
Process Cooling and Refrigeration	81	0	0	*	0	0
Machine Drive	5,589	*	*	1	*	0
Electro-Chemical Processes	20	--	--	--	--	--
Other Process Use	43	0	*	4	*	0
Direct Uses-Total Nonprocess	860	0	*	2	*	0
Facility HVAC (f)	317	0	*	1	*	0
Facility Lighting	437	--	--	--	--	--
Other Facility Support	89	0	*	*	*	0
Onsite Transportation	8	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	10	0	*	1	*	0

End Use Not Reported	34	0	0	*	*	0
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321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	4,423	*	*	20	*	0
Indirect Uses-Boiler Fuel	40	0	*	5	*	0
Conventional Boiler Use	40	0	*	2	*	0
CHP and/or Cogeneration Process	--	0	0	3	*	0
Direct Uses-Total Process	3,910	*	*	14	*	0
Process Heating	120	*	*	9	*	0
Process Cooling and Refrigeration	59	0	0	0	0	0
Machine Drive	3,713	*	*	1	*	0
Electro-Chemical Processes	8	--	--	--	--	--
Other Process Use	11	0	0	4	0	0
Direct Uses-Total Nonprocess	472	0	*	1	*	0
Facility HVAC (f)	166	0	*	*	*	0
Facility Lighting	251	--	--	--	--	--
Other Facility Support	42	0	*	*	*	0
Onsite Transportation	3	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	9	0	0	1	*	0
End Use Not Reported	0	0	0	0	0	0

3219 Other Wood Products

TOTAL FUEL CONSUMPTION	6,422	*	Q	15	*	*
Indirect Uses-Boiler Fuel	181	0	*	2	*	0
Conventional Boiler Use	181	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	4,756	0	Q	7	*	*
Process Heating	460	0	*	7	*	*
Process Cooling and Refrigeration	76	0	*	*	*	0
Machine Drive	4,157	0	*	*	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	59	0	Q	*	*	0
Direct Uses-Total Nonprocess	1,463	*	*	5	*	*
Facility HVAC (f)	745	*	*	4	*	*
Facility Lighting	516	--	--	--	--	--
Other Facility Support	150	0	0	*	*	0

Onsite Transportation	40	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	Q	0	0	*	*	0

322 PAPER

TOTAL FUEL CONSUMPTION	91,108	1	1	551	1	3
Indirect Uses-Boiler Fuel	3,932	1	*	372	*	3
Conventional Boiler Use	3,932	*	*	63	*	*
CHP and/or Cogeneration Process	--	1	*	309	*	2
Direct Uses-Total Process	76,310	*	*	152	*	*
Process Heating	3,133	*	*	138	*	0
Process Cooling and Refrigeration	2,689	0	0	*	*	0
Machine Drive	69,030	0	*	7	*	*
Electro-Chemical Processes	844	--	--	--	--	--
Other Process Use	613	0	*	7	*	*
Direct Uses-Total Nonprocess	10,618	*	*	26	1	0
Facility HVAC (f)	4,748	*	*	17	*	0
Facility Lighting	4,193	--	--	--	--	--
Other Facility Support	1,380	0	*	2	*	0
Onsite Transportation	263	--	*	*	*	--
Conventional Electricity Generation	--	*	*	6	*	0
Other Nonprocess Use	33	0	*	*	*	0
End Use Not Reported	Q	*	*	Q	*	0

322110 Pulp Mills

TOTAL FUEL CONSUMPTION	8,015	*	*	39	*	*
Indirect Uses-Boiler Fuel	489	*	*	20	*	*
Conventional Boiler Use	489	0	*	1	0	0
CHP and/or Cogeneration Process	--	*	*	20	*	*
Direct Uses-Total Process	6,780	*	*	18	0	0
Process Heating	197	*	*	18	0	0
Process Cooling and Refrigeration	161	0	0	0	0	0
Machine Drive	6,106	0	*	*	0	0
Electro-Chemical Processes	301	--	--	--	--	--
Other Process Use	14	0	0	0	0	0
Direct Uses-Total Nonprocess	746	*	*	1	*	0

Facility HVAC (f)	374	0	0	*	*	0
Facility Lighting	306	--	--	--	--	--
Other Facility Support	62	0	0	*	0	0
Onsite Transportation	4	--	*	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	31,159	1	*	216	*	2
Indirect Uses-Boiler Fuel	1,441	*	*	148	*	2
Conventional Boiler Use	1,441	*	*	24	*	*
CHP and/or Cogeneration Process	--	*	*	124	*	2
Direct Uses-Total Process	26,176	*	*	61	*	*
Process Heating	1,289	*	*	54	*	0
Process Cooling and Refrigeration	1,025	0	0	0	0	0
Machine Drive	23,519	0	*	2	*	*
Electro-Chemical Processes	230	--	--	--	--	--
Other Process Use	113	0	*	5	0	*
Direct Uses-Total Nonprocess	3,542	*	*	6	*	0
Facility HVAC (f)	1,472	*	*	3	*	0
Facility Lighting	1,398	--	--	--	--	--
Other Facility Support	544	0	*	1	*	0
Onsite Transportation	128	--	*	*	*	--
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	5,378	0	*	5	*	0
Indirect Uses-Boiler Fuel	444	0	*	3	*	0
Conventional Boiler Use	444	0	0	3	*	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	4,696	0	0	2	0	0
Process Heating	75	0	0	2	0	0
Process Cooling and Refrigeration	138	0	0	0	0	0
Machine Drive	4,483	0	0	0	0	0

Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	0	0	0	0
Direct Uses-Total Nonprocess	238	0	*	*	*	0
Facility HVAC (f)	108	0	0	*	0	0
Facility Lighting	129	--	--	--	--	--
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	33,668	*	*	227	*	1
Indirect Uses-Boiler Fuel	1,403	*	*	169	*	1
Conventional Boiler Use	1,403	*	*	24	0	*
CHP and/or Cogeneration Process	--	*	*	144	*	1
Direct Uses-Total Process	29,077	*	*	50	*	0
Process Heating	1,088	*	*	46	*	0
Process Cooling and Refrigeration	602	0	0	*	0	0
Machine Drive	26,982	0	*	2	*	0
Electro-Chemical Processes	18	--	--	--	--	--
Other Process Use	388	0	*	1	*	0
Direct Uses-Total Nonprocess	3,189	0	*	9	*	0
Facility HVAC (f)	1,404	0	*	5	*	0
Facility Lighting	1,344	--	--	--	--	--
Other Facility Support	415	0	0	1	*	0
Onsite Transportation	19	--	*	*	*	--
Conventional Electricity Generation	--	0	0	2	0	0
Other Nonprocess Use	7	0	*	0	*	0
End Use Not Reported	0	*	*	0	*	0

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	10,044	*	*	23	*	0
Indirect Uses-Boiler Fuel	68	0	*	3	*	0
Conventional Boiler Use	68	0	*	2	*	0
CHP and/or Cogeneration Process	--	0	0	0	0	0
Direct Uses-Total Process	6,853	*	*	11	*	0

Process Heating	288	0	*	8	*	0
Process Cooling and Refrigeration	669	0	0	*	0	0
Machine Drive	5,526	0	*	2	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	222	*	0	Q	0	0
Direct Uses-Total Nonprocess	3,040	*	*	9	*	0
Facility HVAC (f)	1,649	*	*	8	*	0
Facility Lighting	917	--	--	--	--	--
Other Facility Support	341	0	*	*	*	0
Onsite Transportation	110	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	83	0	*	*	*	0

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	71,694	1	2	1,037	5	*
Indirect Uses-Boiler Fuel	559	*	*	330	1	0
Conventional Boiler Use	559	*	*	129	*	0
CHP and/or Cogeneration Process	--	0	*	201	*	0
Direct Uses-Total Process	66,141	*	1	671	4	*
Process Heating	2,514	*	1	632	4	*
Process Cooling and Refrigeration	3,221	0	*	1	*	0
Machine Drive	58,871	0	1	14	*	0
Electro-Chemical Processes	1,070	--	--	--	--	--
Other Process Use	464	0	*	23	*	0
Direct Uses-Total Nonprocess	4,931	0	1	27	*	0
Facility HVAC (f)	2,400	0	*	7	*	0
Facility Lighting	1,716	--	--	--	--	--
Other Facility Support	746	0	*	1	*	0
Onsite Transportation	10	--	1	*	*	--
Conventional Electricity Generation	--	0	*	19	*	0
Other Nonprocess Use	60	0	*	1	*	0
End Use Not Reported	64	0	*	10	*	0

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	67,296	*	1	958	4	0
Indirect Uses-Boiler Fuel	356	*	*	311	1	0

Conventional Boiler Use	356	*	*	124	*	0
CHP and/or Cogeneration Process	--	0	*	187	*	0
Direct Uses-Total Process	62,687	*	*	613	3	0
Process Heating	2,243	*	*	582	3	0
Process Cooling and Refrigeration	2,998	0	0	*	*	0
Machine Drive	56,052	0	*	9	*	0
Electro-Chemical Processes	1,053	--	--	--	--	--
Other Process Use	341	0	*	21	*	0
Direct Uses-Total Nonprocess	4,247	0	*	24	*	0
Facility HVAC (f)	2,074	0	*	5	*	0
Facility Lighting	1,462	--	--	--	--	--
Other Facility Support	671	0	0	*	*	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	*	19	*	0
Other Nonprocess Use	38	0	*	*	*	0
End Use Not Reported	6	0	*	10	*	0

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	1,386	*	1	40	1	*
Indirect Uses-Boiler Fuel	94	0	*	4	*	0
Conventional Boiler Use	94	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	1,073	*	1	34	1	*
Process Heating	89	*	*	30	*	*
Process Cooling and Refrigeration	16	0	*	*	0	0
Machine Drive	915	0	*	4	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	48	0	*	1	*	0
Direct Uses-Total Nonprocess	191	0	*	1	*	0
Facility HVAC (f)	90	0	*	1	*	0
Facility Lighting	61	--	--	--	--	--
Other Facility Support	22	0	*	*	*	0
Onsite Transportation	1	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	18	0	*	*	*	0
End Use Not Reported	27	0	0	*	*	0

324122 Asphalt Shingle and Coating Materials

TOTAL FUEL CONSUMPTION	930	0	*	13	*	0
Indirect Uses-Boiler Fuel	26	0	*	3	*	0
Conventional Boiler Use	26	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	724	0	*	9	*	0
Process Heating	67	0	*	8	*	0
Process Cooling and Refrigeration	44	0	0	*	*	0
Machine Drive	596	0	*	1	*	0
Electro-Chemical Processes	10	--	--	--	--	--
Other Process Use	7	0	*	*	*	0
Direct Uses-Total Nonprocess	168	0	*	1	*	0
Facility HVAC (f)	85	0	*	1	*	0
Facility Lighting	64	--	--	--	--	--
Other Facility Support	15	0	*	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	3	0	*	*	*	0
End Use Not Reported	12	0	0	0	*	0

324191 Petroleum Lubricating Oil and Grease Products

TOTAL FUEL CONSUMPTION	1,340	0	*	18	*	0
Indirect Uses-Boiler Fuel	45	0	*	10	*	0
Conventional Boiler Use	45	0	*	2	0	0
CHP and/or Cogeneration Process	--	0	*	8	*	0
Direct Uses-Total Process	1,087	0	*	8	*	0
Process Heating	40	0	*	7	*	0
Process Cooling and Refrigeration	146	0	0	*	*	0
Machine Drive	862	0	*	*	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	37	0	*	*	*	0
Direct Uses-Total Nonprocess	207	0	*	1	*	0
Facility HVAC (f)	111	0	*	*	*	0
Facility Lighting	61	--	--	--	--	--
Other Facility Support	32	0	*	*	*	0
Onsite Transportation	3	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	*	*	0
End Use Not Reported	1	0	*	0	*	0

324199 Other Petroleum and Coal Products

TOTAL FUEL CONSUMPTION	742	0	*	8	*	0
Indirect Uses-Boiler Fuel	37	0	*	1	0	0
Conventional Boiler Use	37	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	570	0	*	6	*	0
Process Heating	75	0	*	5	*	0
Process Cooling and Refrigeration	17	0	0	0	0	0
Machine Drive	445	0	*	*	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	31	0	*	1	0	0
Direct Uses-Total Nonprocess	118	0	*	*	*	0
Facility HVAC (f)	40	0	0	*	*	0
Facility Lighting	67	--	--	--	--	--
Other Facility Support	7	0	*	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	2	0	*	*	0	0
End Use Not Reported	17	0	0	0	*	0

325 CHEMICALS

TOTAL FUEL CONSUMPTION	207,450	*	1	2,258	2	5
Indirect Uses-Boiler Fuel	2,454	*	*	1,159	*	5
Conventional Boiler Use	2,454	*	*	375	*	*
CHP and/or Cogeneration Process	--	*	*	784	*	4
Direct Uses-Total Process	179,791	*	*	1,016	D	1
Process Heating	6,392	*	*	768	*	*
Process Cooling and Refrigeration	20,001	0	*	9	*	0
Machine Drive	109,299	0	*	86	*	0
Electro-Chemical Processes	39,645	--	--	--	--	--
Other Process Use	4,454	0	*	154	D	*
Direct Uses-Total Nonprocess	22,217	0	*	68	D	*
Facility HVAC (f)	11,413	0	*	55	D	*
Facility Lighting	7,233	--	--	--	--	--
Other Facility Support	2,516	0	*	10	*	0
Onsite Transportation	429	--	*	*	*	--

Conventional Electricity Generation	--	0	*	1	*	0
Other Nonprocess Use	627	0	*	2	*	0
End Use Not Reported	2,987	*	*	15	*	0

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	10,929	0	*	292	*	0
Indirect Uses-Boiler Fuel	157	0	*	120	*	0
Conventional Boiler Use	157	0	*	34	*	0
CHP and/or Cogeneration Process	--	0	*	86	*	0
Direct Uses-Total Process	10,208	0	*	171	*	0
Process Heating	244	0	0	140	*	0
Process Cooling and Refrigeration	2,386	0	0	3	*	0
Machine Drive	7,568	0	*	D	0	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	9	0	*	D	*	0
Direct Uses-Total Nonprocess	564	0	*	1	*	0
Facility HVAC (f)	328	0	*	1	*	0
Facility Lighting	197	--	--	--	--	--
Other Facility Support	39	0	0	*	*	0
Onsite Transportation	1	--	*	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	25,176	0	*	80	*	0
Indirect Uses-Boiler Fuel	24	0	*	62	0	0
Conventional Boiler Use	24	0	*	8	0	0
CHP and/or Cogeneration Process	--	0	0	53	0	0
Direct Uses-Total Process	24,258	0	*	18	*	0
Process Heating	112	0	0	4	0	0
Process Cooling and Refrigeration	582	0	0	*	*	0
Machine Drive	21,132	0	*	0	0	0
Electro-Chemical Processes	898	--	--	--	--	--
Other Process Use	1,534	0	0	13	0	0
Direct Uses-Total Nonprocess	884	0	*	*	*	0
Facility HVAC (f)	625	0	0	*	*	0

Facility Lighting	201	--	--	--	--	--
Other Facility Support	27	0	0	*	0	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	Q	0	0	*	*	0
End Use Not Reported	9	0	*	0	*	0

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	43,271	0	*	210	*	2
Indirect Uses-Boiler Fuel	175	0	*	95	*	1
Conventional Boiler Use	175	0	*	16	*	*
CHP and/or Cogeneration Process	--	0	*	79	*	1
Direct Uses-Total Process	39,362	0	*	111	*	*
Process Heating	2,189	0	0	56	*	*
Process Cooling and Refrigeration	1,712	0	0	1	0	0
Machine Drive	7,216	0	*	50	*	0
Electro-Chemical Processes	26,871	--	--	--	--	--
Other Process Use	1,374	0	*	4	*	0
Direct Uses-Total Nonprocess	2,399	0	*	3	*	0
Facility HVAC (f)	1,203	0	*	2	*	0
Facility Lighting	853	--	--	--	--	--
Other Facility Support	202	0	*	*	0	0
Onsite Transportation	Q	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	102	0	*	Q	*	0
End Use Not Reported	1,335	0	0	1	*	0

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	13,469	0	*	346	*	2
Indirect Uses-Boiler Fuel	615	0	0	198	*	2
Conventional Boiler Use	615	0	0	111	*	0
CHP and/or Cogeneration Process	--	0	0	87	*	2
Direct Uses-Total Process	11,951	0	*	137	*	0
Process Heating	319	0	0	122	*	0
Process Cooling and Refrigeration	1,713	0	*	1	0	0
Machine Drive	9,603	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--

Other Process Use	122	0	*	13	0	0
Direct Uses-Total Nonprocess	903	0	*	11	*	0
Facility HVAC (f)	316	0	*	7	*	0
Facility Lighting	485	--	--	--	--	--
Other Facility Support	83	0	*	4	*	0
Onsite Transportation	Q	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	*	*	0
End Use Not Reported	0	0	0	0	*	0

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

TOTAL FUEL CONSUMPTION	3,243	0	*	49	*	0
Indirect Uses-Boiler Fuel	135	0	*	22	*	0
Conventional Boiler Use	135	0	*	11	*	0
CHP and/or Cogeneration Process	--	0	*	11	0	0
Direct Uses-Total Process	2,586	0	*	26	*	0
Process Heating	198	0	*	18	*	0
Process Cooling and Refrigeration	641	0	0	*	0	0
Machine Drive	1,495	0	*	0	*	0
Electro-Chemical Processes	249	--	--	--	--	--
Other Process Use	3	0	0	7	0	0
Direct Uses-Total Nonprocess	522	0	*	*	*	0
Facility HVAC (f)	241	0	*	*	*	0
Facility Lighting	150	--	--	--	--	--
Other Facility Support	118	0	0	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	10	0	*	0	0	0
End Use Not Reported	*	0	0	2	*	0

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	30,668	*	*	386	*	1
Indirect Uses-Boiler Fuel	377	*	*	206	*	1
Conventional Boiler Use	377	*	*	69	*	*
CHP and/or Cogeneration Process	--	*	*	137	*	1
Direct Uses-Total Process	26,556	0	*	163	*	*
Process Heating	638	0	*	116	*	*

Process Cooling and Refrigeration	4,133	0	*	1	*	0
Machine Drive	19,373	0	*	11	*	0
Electro-Chemical Processes	2,097	--	--	--	--	--
Other Process Use	315	0	*	35	*	*
Direct Uses-Total Nonprocess	2,853	0	*	5	*	0
Facility HVAC (f)	1,343	0	0	3	*	0
Facility Lighting	994	--	--	--	--	--
Other Facility Support	436	0	*	2	*	0
Onsite Transportation	72	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	8	0	*	*	*	0
End Use Not Reported	882	0	0	12	*	0

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	38,820	0	D	402	D	D
Indirect Uses-Boiler Fuel	267	0	*	272	*	0
Conventional Boiler Use	267	0	*	37	*	0
CHP and/or Cogeneration Process	--	0	*	236	*	0
Direct Uses-Total Process	35,077	0	D	125	D	D
Process Heating	919	0	D	79	*	D
Process Cooling and Refrigeration	3,464	0	*	1	0	0
Machine Drive	21,387	0	*	4	*	0
Electro-Chemical Processes	9,125	--	--	--	--	--
Other Process Use	182	0	*	41	D	0
Direct Uses-Total Nonprocess	3,267	0	*	4	*	0
Facility HVAC (f)	1,329	0	*	3	*	0
Facility Lighting	1,228	--	--	--	--	--
Other Facility Support	515	0	*	1	*	0
Onsite Transportation	76	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	119	0	*	*	*	0
End Use Not Reported	Q	0	*	*	*	0

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	1,659	0	*	19	*	*
Indirect Uses-Boiler Fuel	36	0	*	16	*	*
Conventional Boiler Use	36	0	*	10	*	*

CHP and/or Cogeneration Process	--	0	*	6	0	*
Direct Uses-Total Process	1,369	0	*	2	*	0
Process Heating	58	0	0	2	*	0
Process Cooling and Refrigeration	408	0	0	*	*	0
Machine Drive	898	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	5	0	*	*	*	0
Direct Uses-Total Nonprocess	244	0	*	*	*	0
Facility HVAC (f)	135	0	0	*	*	0
Facility Lighting	82	--	--	--	--	--
Other Facility Support	18	0	*	*	*	0
Onsite Transportation	6	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	4	0	*	*	0	0
End Use Not Reported	10	0	0	*	*	0

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	2,969	0	*	22	*	*
Indirect Uses-Boiler Fuel	75	0	*	14	*	*
Conventional Boiler Use	75	0	*	8	*	0
CHP and/or Cogeneration Process	--	0	0	5	*	*
Direct Uses-Total Process	2,398	0	*	6	*	0
Process Heating	160	0	*	6	*	0
Process Cooling and Refrigeration	369	0	0	0	0	0
Machine Drive	1,845	0	*	*	*	0
Electro-Chemical Processes	4	--	--	--	--	--
Other Process Use	21	0	0	*	*	0
Direct Uses-Total Nonprocess	495	0	*	2	*	0
Facility HVAC (f)	250	0	0	2	*	0
Facility Lighting	157	--	--	--	--	--
Other Facility Support	41	0	0	*	*	0
Onsite Transportation	8	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	39	0	*	0	*	0
End Use Not Reported	1	0	0	0	*	0

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	5,672	0	*	205	*	0
Indirect Uses-Boiler Fuel	60	0	*	51	*	0
Conventional Boiler Use	60	0	*	25	*	0
CHP and/or Cogeneration Process	--	0	*	26	0	0
Direct Uses-Total Process	5,120	0	*	153	*	0
Process Heating	82	0	0	131	*	0
Process Cooling and Refrigeration	560	0	0	0	0	0
Machine Drive	4,388	0	*	4	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	Q	0	*	19	0	0
Direct Uses-Total Nonprocess	493	0	*	1	*	0
Facility HVAC (f)	226	0	*	1	*	0
Facility Lighting	186	--	--	--	--	--
Other Facility Support	66	0	0	*	*	0
Onsite Transportation	6	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	9	0	*	0	0	0
End Use Not Reported	0	0	0	0	*	0

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	2,470	*	D	24	*	D
Indirect Uses-Boiler Fuel	20	0	*	2	*	0
Conventional Boiler Use	20	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	2,238	*	D	21	*	D
Process Heating	27	*	D	20	*	D
Process Cooling and Refrigeration	80	0	0	0	0	0
Machine Drive	2,131	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	1	0	0
Direct Uses-Total Nonprocess	212	0	*	*	*	0
Facility HVAC (f)	93	0	*	*	*	0
Facility Lighting	79	--	--	--	--	--
Other Facility Support	39	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	11,104	0	*	60	*	*
Indirect Uses-Boiler Fuel	264	0	*	35	*	*
Conventional Boiler Use	264	0	*	19	*	*
CHP and/or Cogeneration Process	--	0	*	16	*	0
Direct Uses-Total Process	5,608	0	*	7	*	0
Process Heating	298	0	*	6	*	0
Process Cooling and Refrigeration	1,995	0	*	*	0	0
Machine Drive	3,003	0	*	*	*	0
Electro-Chemical Processes	59	--	--	--	--	--
Other Process Use	253	0	*	*	*	0
Direct Uses-Total Nonprocess	5,072	0	*	17	*	*
Facility HVAC (f)	3,224	0	*	15	*	*
Facility Lighting	1,132	--	--	--	--	--
Other Facility Support	461	0	*	1	*	0
Onsite Transportation	68	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	186	0	*	*	*	0
End Use Not Reported	161	0	0	1	*	0

325412

Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	6,189	0	*	29	*	*
Indirect Uses-Boiler Fuel	157	0	*	13	*	*
Conventional Boiler Use	157	0	*	9	*	*
CHP and/or Cogeneration Process	--	0	*	4	*	0
Direct Uses-Total Process	3,211	0	*	5	*	0
Process Heating	203	0	*	4	*	0
Process Cooling and Refrigeration	1,002	0	*	*	0	0
Machine Drive	1,774	0	*	*	*	0
Electro-Chemical Processes	30	--	--	--	--	--
Other Process Use	202	0	*	*	*	0
Direct Uses-Total Nonprocess	2,767	0	*	11	*	*
Facility HVAC (f)	1,693	0	*	9	*	*
Facility Lighting	614	--	--	--	--	--
Other Facility Support	266	0	*	*	*	0
Onsite Transportation	48	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0

	Other Nonprocess Use	146	0	*	*	*	0
	End Use Not Reported	54	0	0	*	*	0
325992	Photographic Film, Paper, Plate, and Chemicals						
	TOTAL FUEL CONSUMPTION	921	*	*	3	*	0
	Indirect Uses-Boiler Fuel	9	*	*	2	0	0
	Conventional Boiler Use	9	0	*	1	0	0
	CHP and/or Cogeneration Process	--	*	*	1	0	0
	Direct Uses-Total Process	560	0	*	1	*	0
	Process Heating	36	0	*	*	0	0
	Process Cooling and Refrigeration	147	0	*	*	0	0
	Machine Drive	316	0	*	*	*	0
	Electro-Chemical Processes	41	--	--	--	--	--
	Other Process Use	20	0	*	*	0	0
	Direct Uses-Total Nonprocess	322	0	*	*	*	0
	Facility HVAC (f)	173	0	*	*	0	0
	Facility Lighting	94	--	--	--	--	--
	Other Facility Support	41	0	*	*	*	0
	Onsite Transportation	3	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	12	0	*	*	*	0
	End Use Not Reported	30	0	0	*	*	0
326	PLASTICS AND RUBBER PRODUCTS						
	TOTAL FUEL CONSUMPTION	49,342	*	*	80	1	0
	Indirect Uses-Boiler Fuel	Q	*	*	30	*	0
	Conventional Boiler Use	Q	*	*	11	*	0
	CHP and/or Cogeneration Process	--	0	*	19	*	0
	Direct Uses-Total Process	36,804	0	*	30	*	0
	Process Heating	5,602	0	*	28	*	0
	Process Cooling and Refrigeration	4,131	0	0	*	0	0
	Machine Drive	25,321	0	*	*	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	1,323	0	*	Q	*	0
	Direct Uses-Total Nonprocess	11,408	0	*	21	1	0
	Facility HVAC (f)	5,074	0	0	20	*	0
	Facility Lighting	3,699	--	--	--	--	--

Other Facility Support	1,439	0	0	1	*	0
Onsite Transportation	582	--	*	*	*	--
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	38,145	*	4	335	1	9
Indirect Uses-Boiler Fuel	134	0	*	11	*	*
Conventional Boiler Use	134	0	*	2	*	*
CHP and/or Cogeneration Process	--	0	*	9	*	*
Direct Uses-Total Process	33,181	*	2	305	*	9
Process Heating	7,723	*	Q	273	*	7
Process Cooling and Refrigeration	1,667	0	0	3	0	*
Machine Drive	20,886	*	1	24	*	1
Electro-Chemical Processes	794	--	--	--	--	--
Other Process Use	2,110	0	*	Q	*	Q
Direct Uses-Total Nonprocess	4,680	0	2	18	*	*
Facility HVAC (f)	2,138	0	*	15	*	0
Facility Lighting	1,730	--	--	--	--	--
Other Facility Support	485	0	*	2	*	*
Onsite Transportation	145	--	2	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	182	0	*	1	*	0
End Use Not Reported	150	0	0	1	*	0

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	1,770	0	*	35	*	*
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	1,535	0	*	34	*	*
Process Heating	287	0	*	33	*	*
Process Cooling and Refrigeration	28	0	0	0	0	0
Machine Drive	1,183	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	Q	0	*	*	*	*

Direct Uses-Total Nonprocess	225	0	*	1	*	0
Facility HVAC (f)	83	0	*	1	*	0
Facility Lighting	117	--	--	--	--	--
Other Facility Support	18	0	*	*	0	0
Onsite Transportation	6	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	9	0	0	0	*	0

327211 Flat Glass

TOTAL FUEL CONSUMPTION	1,420	0	*	40	*	0
Indirect Uses-Boiler Fuel	4	0	0	*	0	0
Conventional Boiler Use	4	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	1,189	0	*	38	*	0
Process Heating	501	0	0	38	*	0
Process Cooling and Refrigeration	175	0	0	0	0	0
Machine Drive	392	0	*	*	*	0
Electro-Chemical Processes	59	--	--	--	--	--
Other Process Use	62	0	*	*	0	0
Direct Uses-Total Nonprocess	225	0	*	2	*	0
Facility HVAC (f)	105	0	0	1	0	0
Facility Lighting	75	--	--	--	--	--
Other Facility Support	19	0	0	*	0	0
Onsite Transportation	22	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	4	0	*	*	0	0
End Use Not Reported	2	0	0	0	*	0

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	2,135	0	*	22	*	0
Indirect Uses-Boiler Fuel	8	0	*	1	*	0
Conventional Boiler Use	8	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	1,794	0	*	20	*	0
Process Heating	900	0	*	19	*	0
Process Cooling and Refrigeration	200	0	0	*	0	0

Machine Drive	657	0	*	1	*	0
Electro-Chemical Processes	15	--	--	--	--	--
Other Process Use	21	0	*	*	*	0
Direct Uses-Total Nonprocess	333	0	*	1	*	0
Facility HVAC (f)	155	0	0	1	*	0
Facility Lighting	134	--	--	--	--	--
Other Facility Support	32	0	0	*	*	0
Onsite Transportation	11	--	*	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

TOTAL FUEL CONSUMPTION	3,447	0	*	41	*	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	3,039	0	*	38	*	0
Process Heating	1,310	0	0	36	*	0
Process Cooling and Refrigeration	77	0	0	*	0	0
Machine Drive	1,572	0	*	2	0	0
Electro-Chemical Processes	34	--	--	--	--	--
Other Process Use	46	0	0	0	0	0
Direct Uses-Total Nonprocess	403	0	*	3	*	0
Facility HVAC (f)	193	0	0	2	*	0
Facility Lighting	168	--	--	--	--	--
Other Facility Support	22	0	0	*	0	0
Onsite Transportation	5	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	15	0	0	*	0	0
End Use Not Reported	5	0	0	*	0	0

327215 Glass Products from Purchased Glass

TOTAL FUEL CONSUMPTION	3,676	0	*	8	*	0
Indirect Uses-Boiler Fuel	8	0	*	*	*	0
Conventional Boiler Use	8	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0

Direct Uses-Total Process	2,928	0	*	6	*	0
Process Heating	1,418	0	0	5	*	0
Process Cooling and Refrigeration	181	0	0	*	0	0
Machine Drive	909	0	*	*	*	0
Electro-Chemical Processes	52	--	--	--	--	--
Other Process Use	368	0	*	*	*	0
Direct Uses-Total Nonprocess	738	0	*	1	*	0
Facility HVAC (f)	350	0	*	1	*	0
Facility Lighting	211	--	--	--	--	--
Other Facility Support	79	0	*	*	*	0
Onsite Transportation	27	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	72	0	*	*	*	0
End Use Not Reported	2	0	0	*	*	0

327310 Cements

TOTAL FUEL CONSUMPTION	11,444	0	*	55	*	5
Indirect Uses-Boiler Fuel	43	0	0	*	0	*
Conventional Boiler Use	43	0	0	*	0	*
CHP and/or Cogeneration Process	--	0	0	*	0	*
Direct Uses-Total Process	10,882	0	*	55	*	5
Process Heating	1,142	0	*	35	*	4
Process Cooling and Refrigeration	440	0	0	3	0	*
Machine Drive	8,659	0	*	17	*	1
Electro-Chemical Processes	257	--	--	--	--	--
Other Process Use	385	0	*	0	0	0
Direct Uses-Total Nonprocess	518	0	*	*	*	*
Facility HVAC (f)	266	0	*	*	*	0
Facility Lighting	169	--	--	--	--	--
Other Facility Support	51	0	0	*	*	*
Onsite Transportation	18	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	13	0	*	0	*	0
End Use Not Reported	1	0	0	*	0	0

327410 Lime

TOTAL FUEL CONSUMPTION	1,398	0	*	18	*	3
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Indirect Uses-Boiler Fuel	2	0	0	*	0	0
Conventional Boiler Use	2	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	0	0	0
Direct Uses-Total Process	1,304	0	*	17	*	3
Process Heating	370	0	*	17	*	3
Process Cooling and Refrigeration	30	0	0	0	0	0
Machine Drive	889	0	*	1	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	15	0	*	0	0	0
Direct Uses-Total Nonprocess	92	0	*	*	*	0
Facility HVAC (f)	49	0	0	*	*	0
Facility Lighting	31	--	--	--	--	--
Other Facility Support	11	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

327420 Gypsum

TOTAL FUEL CONSUMPTION	1,583	0	*	50	*	0
Indirect Uses-Boiler Fuel	4	0	0	1	0	0
Conventional Boiler Use	4	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	1	0	0
Direct Uses-Total Process	1,354	0	*	48	0	0
Process Heating	86	0	*	47	0	0
Process Cooling and Refrigeration	25	0	0	*	0	0
Machine Drive	1,240	0	*	1	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	Q	0	0	0	0	0
Direct Uses-Total Nonprocess	197	0	*	1	*	0
Facility HVAC (f)	72	0	*	1	*	0
Facility Lighting	105	--	--	--	--	--
Other Facility Support	15	0	*	*	0	0
Onsite Transportation	6	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	28	0	0	*	*	0

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	3,111	0	*	21	*	*
Indirect Uses-Boiler Fuel	1	0	0	*	0	0
Conventional Boiler Use	1	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	2,704	0	*	19	*	*
Process Heating	1,036	0	*	18	*	*
Process Cooling and Refrigeration	159	0	0	*	0	0
Machine Drive	1,356	0	*	*	*	0
Electro-Chemical Processes	8	--	--	--	--	--
Other Process Use	144	0	*	*	0	0
Direct Uses-Total Nonprocess	406	0	*	2	*	0
Facility HVAC (f)	147	0	*	1	*	0
Facility Lighting	199	--	--	--	--	--
Other Facility Support	45	0	*	*	0	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	13	0	*	0	0	0
End Use Not Reported	*	0	0	0	0	0

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PRIMARY METALS

TOTAL FUEL CONSUMPTION	121,469	*	1	616	1	1
Indirect Uses-Boiler Fuel	492	*	*	65	*	0
Conventional Boiler Use	492	*	*	20	*	0
CHP and/or Cogeneration Process	--	*	*	45	*	0
Direct Uses-Total Process	110,238	*	*	504	*	1
Process Heating	38,014	0	*	462	*	*
Process Cooling and Refrigeration	3,197	0	*	3	*	0
Machine Drive	37,043	*	*	5	*	0
Electro-Chemical Processes	26,592	--	--	--	--	--
Other Process Use	5,391	0	*	35	*	1
Direct Uses-Total Nonprocess	10,446	0	1	44	1	0
Facility HVAC (f)	4,227	0	*	38	*	0
Facility Lighting	4,439	--	--	--	--	--
Other Facility Support	1,350	0	*	3	*	0
Onsite Transportation	152	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	278	0	*	2	*	0

End Use Not Reported	293	0	0	2	*	0
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331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	60,516	*	1	396	*	1
Indirect Uses-Boiler Fuel	174	*	*	40	*	0
Conventional Boiler Use	174	*	0	16	0	0
CHP and/or Cogeneration Process	--	*	*	24	*	0
Direct Uses-Total Process	56,037	0	*	337	*	1
Process Heating	26,811	0	*	303	*	*
Process Cooling and Refrigeration	1,490	0	0	3	*	0
Machine Drive	21,592	0	*	1	*	0
Electro-Chemical Processes	2,787	--	--	--	--	--
Other Process Use	3,357	0	*	30	*	1
Direct Uses-Total Nonprocess	4,294	0	1	19	*	0
Facility HVAC (f)	1,602	0	*	15	*	0
Facility Lighting	2,099	--	--	--	--	--
Other Facility Support	448	0	*	1	*	0
Onsite Transportation	66	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	80	0	*	2	*	0
End Use Not Reported	11	0	0	1	*	0

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	6,919	0	*	24	*	*
Indirect Uses-Boiler Fuel	56	0	*	3	*	0
Conventional Boiler Use	56	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	5,862	0	*	18	*	*
Process Heating	1,585	0	*	17	*	*
Process Cooling and Refrigeration	620	0	0	*	*	0
Machine Drive	3,033	0	*	1	*	0
Electro-Chemical Processes	531	--	--	--	--	--
Other Process Use	94	0	*	1	*	0
Direct Uses-Total Nonprocess	988	0	*	3	*	0
Facility HVAC (f)	421	0	*	3	*	0
Facility Lighting	427	--	--	--	--	--
Other Facility Support	118	0	*	*	*	0

Onsite Transportation	19	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	3	0	0	0	*	0
End Use Not Reported	Q	0	0	0	*	0

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	29,971	0	*	112	*	0
Indirect Uses-Boiler Fuel	162	0	*	14	*	0
Conventional Boiler Use	162	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	13	*	0
Direct Uses-Total Process	27,445	0	*	89	*	0
Process Heating	1,132	0	*	87	*	0
Process Cooling and Refrigeration	314	0	0	*	*	0
Machine Drive	6,052	0	*	1	*	0
Electro-Chemical Processes	19,750	--	--	--	--	--
Other Process Use	197	0	*	2	*	0
Direct Uses-Total Nonprocess	2,316	0	*	8	*	0
Facility HVAC (f)	721	0	*	8	*	0
Facility Lighting	919	--	--	--	--	--
Other Facility Support	507	0	*	1	*	0
Onsite Transportation	15	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	*	0
Other Nonprocess Use	155	0	*	0	*	0
End Use Not Reported	48	0	0	1	*	0

331314 Secondary Smelting and Alloying of Aluminum

TOTAL FUEL CONSUMPTION	780	0	*	17	*	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	650	0	*	17	*	0
Process Heating	118	0	0	16	*	0
Process Cooling and Refrigeration	16	0	0	*	0	0
Machine Drive	481	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	35	0	0	*	*	0
Direct Uses-Total Nonprocess	129	0	*	1	*	0

Facility HVAC (f)	56	0	*	1	*	0
Facility Lighting	51	--	--	--	--	--
Other Facility Support	21	0	*	*	*	0
Onsite Transportation	1	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	1	0	*	0	*	0
End Use Not Reported	0	0	0	0	*	0

331315 Aluminum Sheet, Plate and Foils

TOTAL FUEL CONSUMPTION	5,377	0	*	52	*	0
Indirect Uses-Boiler Fuel	1	0	*	1	0	0
Conventional Boiler Use	1	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	4,677	0	*	49	*	0
Process Heating	440	0	0	48	*	0
Process Cooling and Refrigeration	171	0	0	0	0	0
Machine Drive	3,927	0	*	*	*	0
Electro-Chemical Processes	9	--	--	--	--	--
Other Process Use	131	0	*	2	*	0
Direct Uses-Total Nonprocess	698	0	*	2	*	0
Facility HVAC (f)	251	0	0	2	0	0
Facility Lighting	354	--	--	--	--	--
Other Facility Support	87	0	0	*	0	0
Onsite Transportation	6	--	*	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	1,917	0	*	17	*	0
Indirect Uses-Boiler Fuel	26	0	0	1	*	0
Conventional Boiler Use	26	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	1	*	0
Direct Uses-Total Process	1,504	0	*	14	*	0
Process Heating	344	0	*	14	*	0
Process Cooling and Refrigeration	121	0	0	*	*	0
Machine Drive	964	0	0	*	*	0

Electro-Chemical Processes	44	--	--	--	--	--
Other Process Use	31	0	0	*	*	0
Direct Uses-Total Nonprocess	375	0	*	1	*	0
Facility HVAC (f)	134	0	*	1	*	0
Facility Lighting	188	--	--	--	--	--
Other Facility Support	35	0	0	*	*	0
Onsite Transportation	8	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	10	0	0	0	*	0
End Use Not Reported	12	0	0	*	*	0

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	13,278	0	*	40	*	0
Indirect Uses-Boiler Fuel	71	0	*	8	*	0
Conventional Boiler Use	71	0	0	3	*	0
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	11,895	0	*	28	*	0
Process Heating	3,895	0	*	27	*	0
Process Cooling and Refrigeration	528	0	0	*	*	0
Machine Drive	2,938	0	*	*	*	0
Electro-Chemical Processes	3,422	--	--	--	--	--
Other Process Use	1,111	0	0	*	*	0
Direct Uses-Total Nonprocess	1,263	0	*	4	*	0
Facility HVAC (f)	676	0	*	4	*	0
Facility Lighting	440	--	--	--	--	--
Other Facility Support	114	0	*	*	*	0
Onsite Transportation	21	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	12	0	*	*	*	0
End Use Not Reported	49	0	0	*	*	0

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

TOTAL FUEL CONSUMPTION	7,887	0	*	15	*	0
Indirect Uses-Boiler Fuel	1	0	*	5	*	0
Conventional Boiler Use	1	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	7,483	0	*	9	*	0

Process Heating	2,271	0	*	8	*	0
Process Cooling and Refrigeration	387	0	0	*	0	0
Machine Drive	914	0	*	*	*	0
Electro-Chemical Processes	3,221	--	--	--	--	--
Other Process Use	690	0	0	*	*	0
Direct Uses-Total Nonprocess	403	0	*	1	*	0
Facility HVAC (f)	210	0	*	1	*	0
Facility Lighting	149	--	--	--	--	--
Other Facility Support	38	0	*	*	*	0
Onsite Transportation	5	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	0	0	*	0	*	0
End Use Not Reported	1	0	0	0	*	0

3315 Foundries

TOTAL FUEL CONSUMPTION	10,785	*	*	43	*	*
Indirect Uses-Boiler Fuel	29	0	*	1	*	0
Conventional Boiler Use	29	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	8,998	*	*	32	*	*
Process Heating	4,591	0	*	28	*	*
Process Cooling and Refrigeration	245	0	*	*	*	0
Machine Drive	3,428	*	*	2	*	0
Electro-Chemical Processes	102	--	--	--	--	--
Other Process Use	632	0	*	2	*	*
Direct Uses-Total Nonprocess	1,585	0	*	10	*	0
Facility HVAC (f)	807	0	*	9	*	0
Facility Lighting	555	--	--	--	--	--
Other Facility Support	163	0	*	*	*	0
Onsite Transportation	31	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	29	0	*	*	*	0
End Use Not Reported	173	0	0	*	*	0

331511 Iron Foundries

TOTAL FUEL CONSUMPTION	5,206	0	*	12	*	*
Indirect Uses-Boiler Fuel	2	0	*	*	*	0

Conventional Boiler Use	2	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	4,456	0	*	7	*	*
Process Heating	2,415	0	*	6	*	0
Process Cooling and Refrigeration	64	0	0	*	*	0
Machine Drive	1,467	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	423	0	0	*	*	*
Direct Uses-Total Nonprocess	687	0	*	5	*	0
Facility HVAC (f)	339	0	*	4	*	0
Facility Lighting	248	--	--	--	--	--
Other Facility Support	80	0	0	*	*	0
Onsite Transportation	13	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	7	0	*	*	*	0
End Use Not Reported	61	0	0	*	*	0

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	2,078	*	*	14	*	0
Indirect Uses-Boiler Fuel	13	0	*	*	*	0
Conventional Boiler Use	13	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	1,637	*	*	11	*	0
Process Heating	552	0	*	10	*	0
Process Cooling and Refrigeration	52	0	*	*	*	0
Machine Drive	951	*	*	1	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	79	0	*	*	*	0
Direct Uses-Total Nonprocess	356	0	*	2	*	0
Facility HVAC (f)	177	0	*	2	*	0
Facility Lighting	123	--	--	--	--	--
Other Facility Support	36	0	*	*	*	0
Onsite Transportation	12	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	7	0	*	0	0	0
End Use Not Reported	72	0	0	*	*	0

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	788	0	*	6	*	0
Indirect Uses-Boiler Fuel	2	0	0	*	*	0
Conventional Boiler Use	2	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	642	0	*	5	*	0
Process Heating	223	0	*	4	*	0
Process Cooling and Refrigeration	34	0	0	*	*	0
Machine Drive	373	0	*	*	*	0
Electro-Chemical Processes	8	--	--	--	--	--
Other Process Use	4	0	*	*	*	0
Direct Uses-Total Nonprocess	130	0	*	1	*	0
Facility HVAC (f)	72	0	*	1	*	0
Facility Lighting	43	--	--	--	--	--
Other Facility Support	13	0	*	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	14	0	0	*	*	0

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	36,281	0	*	120	1	*
Indirect Uses-Boiler Fuel	209	0	*	13	*	0
Conventional Boiler Use	209	0	0	Q	*	0
CHP and/or Cogeneration Process	--	0	*	11	*	0
Direct Uses-Total Process	24,607	0	*	71	*	0
Process Heating	5,846	0	0	67	*	0
Process Cooling and Refrigeration	1,536	0	0	*	0	0
Machine Drive	15,037	0	*	Q	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	560	0	*	Q	*	0
Direct Uses-Total Nonprocess	10,046	0	*	32	1	*
Facility HVAC (f)	5,014	0	*	29	*	*
Facility Lighting	3,853	--	--	--	--	--
Other Facility Support	838	0	*	2	*	0
Onsite Transportation	261	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	80	0	*	0	*	0
End Use Not Reported	Q	0	0	Q	*	0

333 MACHINERY

TOTAL FUEL CONSUMPTION	23,810	*	*	57	1	*
Indirect Uses-Boiler Fuel	244	*	*	7	*	0
Conventional Boiler Use	244	0	0	Q	0	0
CHP and/or Cogeneration Process	--	*	*	5	*	0
Direct Uses-Total Process	14,600	0	*	24	*	0
Process Heating	1,035	0	*	19	*	0
Process Cooling and Refrigeration	899	0	0	*	0	0
Machine Drive	12,020	0	*	3	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	395	0	*	2	*	0
Direct Uses-Total Nonprocess	8,011	*	*	26	*	*
Facility HVAC (f)	3,970	*	*	24	*	*
Facility Lighting	2,842	--	--	--	--	--
Other Facility Support	1,001	0	0	1	*	0
Onsite Transportation	174	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	Q	0	0	*	*	0

334 COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	22,245	*	*	29	*	0
Indirect Uses-Boiler Fuel	191	*	*	10	*	0
Conventional Boiler Use	191	0	*	7	*	0
CHP and/or Cogeneration Process	--	*	*	3	0	0
Direct Uses-Total Process	12,435	0	*	2	*	0
Process Heating	2,119	0	*	1	*	0
Process Cooling and Refrigeration	3,565	0	0	*	0	0
Machine Drive	4,160	0	*	Q	*	0
Electro-Chemical Processes	539	--	--	--	--	--
Other Process Use	2,051	0	*	1	0	0
Direct Uses-Total Nonprocess	8,604	*	*	16	*	0
Facility HVAC (f)	5,505	*	*	15	*	0
Facility Lighting	1,892	--	--	--	--	--
Other Facility Support	823	0	*	1	*	0
Onsite Transportation	78	--	*	*	*	--

Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	306	0	*	1	*	0
End Use Not Reported	1,015	0	0	*	*	0

334413 Semiconductors and Related Devices

TOTAL FUEL CONSUMPTION	11,614	*	*	13	*	0
Indirect Uses-Boiler Fuel	54	*	*	7	*	0
Conventional Boiler Use	54	0	*	5	*	0
CHP and/or Cogeneration Process	--	*	*	2	0	0
Direct Uses-Total Process	7,381	0	*	2	*	0
Process Heating	1,434	0	0	1	*	0
Process Cooling and Refrigeration	1,724	0	0	0	0	0
Machine Drive	2,223	0	*	0	0	0
Electro-Chemical Processes	333	--	--	--	--	--
Other Process Use	1,667	0	*	1	0	0
Direct Uses-Total Nonprocess	3,849	0	*	4	*	0
Facility HVAC (f)	2,707	0	*	4	*	0
Facility Lighting	512	--	--	--	--	--
Other Facility Support	314	0	*	*	*	0
Onsite Transportation	14	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	301	0	*	1	*	0
End Use Not Reported	330	0	0	*	*	0

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	11,083	*	*	35	*	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	7,182	0	*	19	*	0
Process Heating	2,268	0	0	17	*	0
Process Cooling and Refrigeration	652	0	0	*	0	0
Machine Drive	3,680	0	*	*	0	0
Electro-Chemical Processes	142	--	--	--	--	--
Other Process Use	441	0	*	Q	*	0
Direct Uses-Total Nonprocess	3,473	*	*	10	*	0
Facility HVAC (f)	1,964	0	0	8	*	0

Facility Lighting	982	--	--	--	--	--
Other Facility Support	333	0	0	1	0	0
Onsite Transportation	132	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	Q	*	*	*	*	0
End Use Not Reported	Q	0	0	*	*	0

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	50,891	*	1	151	1	0
Indirect Uses-Boiler Fuel	366	*	*	24	*	0
Conventional Boiler Use	366	*	*	13	*	0
CHP and/or Cogeneration Process	--	*	*	11	*	0
Direct Uses-Total Process	32,664	*	*	66	*	0
Process Heating	4,602	0	0	61	*	0
Process Cooling and Refrigeration	3,386	0	0	2	*	0
Machine Drive	22,212	0	*	1	*	0
Electro-Chemical Processes	353	--	--	--	--	--
Other Process Use	2,112	*	*	3	*	0
Direct Uses-Total Nonprocess	17,513	*	*	60	1	0
Facility HVAC (f)	9,098	0	*	56	*	0
Facility Lighting	5,915	--	--	--	--	--
Other Facility Support	1,493	0	*	2	*	0
Onsite Transportation	581	--	*	*	1	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	427	*	*	1	*	0
End Use Not Reported	Q	0	0	1	*	0

336111 Automobiles

TOTAL FUEL CONSUMPTION	4,101	0	*	18	*	0
Indirect Uses-Boiler Fuel	50	0	0	1	0	0
Conventional Boiler Use	50	0	0	1	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	2,646	0	*	12	*	0
Process Heating	225	0	0	11	*	0
Process Cooling and Refrigeration	232	0	0	1	*	0
Machine Drive	2,000	0	*	*	*	0
Electro-Chemical Processes	49	--	--	--	--	--

Other Process Use	140	0	*	1	*	0
Direct Uses-Total Nonprocess	1,405	0	*	4	*	0
Facility HVAC (f)	803	0	0	4	*	0
Facility Lighting	420	--	--	--	--	--
Other Facility Support	122	0	0	*	*	0
Onsite Transportation	54	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	6	0	*	0	*	0
End Use Not Reported	*	0	0	*	*	0

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	4,290	0	*	24	*	0
Indirect Uses-Boiler Fuel	156	0	0	4	*	0
Conventional Boiler Use	156	0	0	2	*	0
CHP and/or Cogeneration Process	--	0	0	2	0	0
Direct Uses-Total Process	2,867	0	*	13	*	0
Process Heating	153	0	0	13	*	0
Process Cooling and Refrigeration	357	0	0	*	0	0
Machine Drive	2,137	0	*	*	*	0
Electro-Chemical Processes	38	--	--	--	--	--
Other Process Use	181	0	0	1	*	0
Direct Uses-Total Nonprocess	1,267	0	*	7	*	0
Facility HVAC (f)	689	0	0	6	*	0
Facility Lighting	451	--	--	--	--	--
Other Facility Support	57	0	*	*	0	0
Onsite Transportation	67	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	0	0	0
End Use Not Reported	0	0	0	*	*	0

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	9,950	*	*	26	*	0
Indirect Uses-Boiler Fuel	98	*	*	12	*	0
Conventional Boiler Use	98	0	*	7	*	0
CHP and/or Cogeneration Process	--	*	*	4	*	0
Direct Uses-Total Process	4,750	0	*	5	*	0
Process Heating	1,079	0	0	4	*	0

Process Cooling and Refrigeration	797	0	0	*	*	0
Machine Drive	2,316	0	*	1	*	0
Electro-Chemical Processes	107	--	--	--	--	--
Other Process Use	450	0	*	*	*	0
Direct Uses-Total Nonprocess	5,019	0	*	9	*	0
Facility HVAC (f)	2,857	0	*	7	*	0
Facility Lighting	1,523	--	--	--	--	--
Other Facility Support	416	0	*	1	*	0
Onsite Transportation	84	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	139	0	*	1	*	0
End Use Not Reported	83	0	0	Q	*	0

336411 Aircraft

TOTAL FUEL CONSUMPTION	2,722	0	*	6	*	0
Indirect Uses-Boiler Fuel	28	0	*	2	*	0
Conventional Boiler Use	28	0	*	2	*	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	850	0	*	1	0	0
Process Heating	206	0	0	1	0	0
Process Cooling and Refrigeration	100	0	0	*	0	0
Machine Drive	506	0	*	*	0	0
Electro-Chemical Processes	25	--	--	--	--	--
Other Process Use	13	0	*	*	0	0
Direct Uses-Total Nonprocess	1,814	0	*	2	*	0
Facility HVAC (f)	1,206	0	0	2	*	0
Facility Lighting	449	--	--	--	--	--
Other Facility Support	140	0	*	*	0	0
Onsite Transportation	19	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	30	0	0	0	*	0

337 FURNITURE AND RELATED PRODUCTS

TOTAL FUEL CONSUMPTION	4,756	0	*	15	*	*
Indirect Uses-Boiler Fuel	32	0	*	1	*	0
Conventional Boiler Use	32	0	0	*	*	0

CHP and/or Cogeneration Process	--	0	*	Q	*	0
Direct Uses-Total Process	2,884	0	*	7	*	*
Process Heating	230	0	0	6	*	*
Process Cooling and Refrigeration	69	0	0	*	*	0
Machine Drive	2,549	0	*	Q	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	28	0	0	*	*	0
Direct Uses-Total Nonprocess	1,649	0	*	7	*	*
Facility HVAC (f)	770	0	*	7	*	*
Facility Lighting	592	--	--	--	--	--
Other Facility Support	176	0	0	Q	*	0
Onsite Transportation	83	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	Q	0	*	0	*	0
End Use Not Reported	Q	0	0	*	*	0
339 MISCELLANEOUS						
TOTAL FUEL CONSUMPTION	9,578	0	*	24	*	*
Indirect Uses-Boiler Fuel	91	0	*	3	*	0
Conventional Boiler Use	91	0	0	1	*	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	4,870	0	*	12	*	*
Process Heating	519	0	*	9	*	*
Process Cooling and Refrigeration	553	0	0	*	0	0
Machine Drive	3,155	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	Q	0	0	Q	0	0
Direct Uses-Total Nonprocess	4,602	0	*	10	*	0
Facility HVAC (f)	2,467	0	*	8	*	0
Facility Lighting	1,214	--	--	--	--	--
Other Facility Support	389	0	*	*	*	0
Onsite Transportation	102	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	Q	0	*	Q	*	0
End Use Not Reported	16	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).

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

RSE Table 5.3 Relative Standard Errors for Table 5.3;

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

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

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

31131 Sugar

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

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	X

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
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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

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

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	--	--	--	--	--

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

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

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

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

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

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

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

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
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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

331 PRIMARY METALS

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

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

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

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

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	--

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

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

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

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*.

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).