

Released: October 2017
 Next MECS will be fielded in 2019

Table 5.3 End Uses of Fuel Consumption, 2014;

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

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	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	894,015	5	17	5,693	22	35
	Indirect Uses-Boiler Fuel	15,181	3	2	2,240	2	18
	Conventional Boiler Use	15,181	2	1	735	1	2
	CHP and/or Cogeneration Process	--	2	1	1,505	1	16
	Direct Uses-Total Process	703,149	1	4	2,869	12	13
	Process Heating	106,168	1	1	2,517	10	13
	Process Cooling and Refrigeration	63,128	*	*	26	*	0
	Machine Drive	446,420	*	2	158	1	*
	Electro-Chemical Processes	67,477	--	--	--	--	--
	Other Process Use	19,956	*	1	169	1	1
	Direct Uses-Total Nonprocess	161,142	*	10	421	7	*
	Facility HVAC (f)	81,530	*	1	358	2	*
	Facility Lighting	55,456	--	--	--	--	--
	Other Facility Support	16,723	*	*	40	*	*
	Onsite Transportation	3,984	--	7	2	5	--
	Conventional Electricity Generation	--	*	*	12	*	*
	Other Nonprocess Use	3,449	*	2	8	*	*
	End Use Not Reported	14,543	*	1	163	1	4
311	FOOD						
	TOTAL FUEL CONSUMPTION	76,701	1	3	554	1	5
	Indirect Uses-Boiler Fuel	2,344	1	1	321	*	3
	Conventional Boiler Use	2,344	*	*	143	*	1
	CHP and/or Cogeneration Process	--	*	1	178	*	3
	Direct Uses-Total Process	58,044	*	*	175	*	1
	Process Heating	3,287	*	*	158	*	1
	Process Cooling and Refrigeration	19,994	*	*	3	*	0
	Machine Drive	33,211	*	*	4	*	0
	Electro-Chemical Processes	170	--	--	--	--	--
	Other Process Use	1,381	0	*	11	*	0
	Direct Uses-Total Nonprocess	14,623	*	2	48	1	*
	Facility HVAC (f)	6,416	*	*	32	*	*
	Facility Lighting	5,650	--	--	--	--	--
	Other Facility Support	1,530	*	*	15	*	*
	Onsite Transportation	706	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	320	0	1	1	*	0
	End Use Not Reported	1,690	0	*	10	*	1
3112	Grain and Oilseed Milling						
	TOTAL FUEL CONSUMPTION	15,641	*	*	129	*	3
	Indirect Uses-Boiler Fuel	558	*	*	84	*	2
	Conventional Boiler Use	558	0	*	49	*	1
	CHP and/or Cogeneration Process	--	*	*	35	*	1
	Direct Uses-Total Process	13,437	*	*	41	*	*
	Process Heating	432	*	*	34	*	*
	Process Cooling and Refrigeration	1,574	0	*	2	0	0
	Machine Drive	11,341	0	*	1	*	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	86	0	*	4	*	0
	Direct Uses-Total Nonprocess	1,551	*	*	4	*	*
	Facility HVAC (f)	630	*	*	3	*	*
	Facility Lighting	699	--	--	--	--	--
	Other Facility Support	137	0	*	1	*	*
	Onsite Transportation	55	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	30	0	*	*	*	0

End Use Not Reported	Q	0	*	*	*	1
311221 Wet Corn Milling						
TOTAL FUEL CONSUMPTION	7,274	0	*	46	*	2
Indirect Uses-Boiler Fuel	321	0	*	31	0	1
Conventional Boiler Use	321	0	*	17	0	*
CHP and/or Cogeneration Process	--	0	0	13	0	1
Direct Uses-Total Process	6,437	0	*	15	*	*
Process Heating	86	0	*	14	*	*
Process Cooling and Refrigeration	1,061	0	0	*	0	0
Machine Drive	5,287	0	*	*	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	4	0	0	*	0	0
Direct Uses-Total Nonprocess	516	0	*	1	*	0
Facility HVAC (f)	197	0	*	1	*	0
Facility Lighting	260	--	--	--	--	--
Other Facility Support	52	0	0	*	*	0
Onsite Transportation	7	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	0	0	*	0	0	0
End Use Not Reported	0	0	0	0	*	1
31131 Sugar						
TOTAL FUEL CONSUMPTION	3,002	*	*	15	*	2
Indirect Uses-Boiler Fuel	202	*	*	10	0	1
Conventional Boiler Use	202	*	0	3	0	0
CHP and/or Cogeneration Process	--	*	*	8	0	1
Direct Uses-Total Process	2,282	*	*	5	0	1
Process Heating	84	0	0	5	0	1
Process Cooling and Refrigeration	80	0	0	0	0	0
Machine Drive	2,112	*	*	0	0	0
Electro-Chemical Processes	5	--	--	--	--	--
Other Process Use	0	0	0	*	0	0
Direct Uses-Total Nonprocess	518	0	*	*	*	0
Facility HVAC (f)	149	0	0	*	*	0
Facility Lighting	184	--	--	--	--	--
Other Facility Support	74	0	0	*	0	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	109	0	*	0	*	0
End Use Not Reported	0	0	0	0	*	0
3114 Fruit and Vegetable Preserving and Specialty Foods						
TOTAL FUEL CONSUMPTION	9,979	*	*	102	*	*
Indirect Uses-Boiler Fuel	283	*	*	67	*	*
Conventional Boiler Use	283	*	*	22	*	0
CHP and/or Cogeneration Process	--	*	*	45	*	*
Direct Uses-Total Process	7,482	*	*	20	*	0
Process Heating	453	*	*	19	*	0
Process Cooling and Refrigeration	4,184	0	*	*	0	0
Machine Drive	2,690	0	*	*	*	0
Electro-Chemical Processes	29	--	--	--	--	--
Other Process Use	125	0	*	*	*	0
Direct Uses-Total Nonprocess	2,088	*	*	9	*	0
Facility HVAC (f)	904	*	*	7	*	0
Facility Lighting	733	--	--	--	--	--
Other Facility Support	239	*	0	1	*	0
Onsite Transportation	175	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	36	0	*	0	*	0
End Use Not Reported	127	0	*	6	*	0
3115 Dairy Products						
TOTAL FUEL CONSUMPTION	10,399	*	*	66	*	*
Indirect Uses-Boiler Fuel	277	*	*	43	*	0
Conventional Boiler Use	277	*	*	21	*	0
CHP and/or Cogeneration Process	--	*	*	22	*	0
Direct Uses-Total Process	7,512	*	*	18	*	*
Process Heating	289	*	*	15	*	*
Process Cooling and Refrigeration	3,407	*	*	*	0	0
Machine Drive	3,632	*	*	1	*	0
Electro-Chemical Processes	17	--	--	--	--	--

Other Process Use	167	0	*	1	*	0
Direct Uses-Total Nonprocess	1,878	*	*	4	*	*
Facility HVAC (f)	871	*	*	4	*	*
Facility Lighting	655	--	--	--	--	--
Other Facility Support	179	0	0	1	*	0
Onsite Transportation	140	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	33	0	*	*	*	0
End Use Not Reported	733	0	*	2	*	0

3116 Animal Slaughtering and Processing

TOTAL FUEL CONSUMPTION	18,609	*	1	122	*	*
Indirect Uses-Boiler Fuel	484	*	*	77	*	*
Conventional Boiler Use	484	*	*	29	*	0
CHP and/or Cogeneration Process	--	*	*	48	*	*
Direct Uses-Total Process	14,183	0	*	26	*	0
Process Heating	867	0	*	21	*	0
Process Cooling and Refrigeration	7,535	0	*	*	*	0
Machine Drive	5,159	0	*	1	*	0
Electro-Chemical Processes	73	--	--	--	--	--
Other Process Use	550	0	*	4	*	0
Direct Uses-Total Nonprocess	3,582	*	1	19	*	0
Facility HVAC (f)	1,520	0	*	8	*	0
Facility Lighting	1,492	--	--	--	--	--
Other Facility Support	394	*	*	11	*	0
Onsite Transportation	110	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	65	0	*	*	*	0
End Use Not Reported	Q	0	*	1	*	0

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	10,014	*	*	47	*	*
Indirect Uses-Boiler Fuel	161	*	*	33	*	*
Conventional Boiler Use	161	*	*	20	*	*
CHP and/or Cogeneration Process	--	0	*	13	*	*
Direct Uses-Total Process	6,376	0	*	6	*	*
Process Heating	436	0	*	6	*	*
Process Cooling and Refrigeration	1,972	0	0	*	0	0
Machine Drive	3,698	0	*	*	*	0
Electro-Chemical Processes	21	--	--	--	--	--
Other Process Use	249	0	*	*	*	0
Direct Uses-Total Nonprocess	2,711	0	*	5	*	*
Facility HVAC (f)	1,190	0	*	4	*	*
Facility Lighting	943	--	--	--	--	--
Other Facility Support	331	0	*	*	*	0
Onsite Transportation	204	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	43	0	*	*	*	0
End Use Not Reported	766	0	*	2	*	0

3121 Beverages

TOTAL FUEL CONSUMPTION	9,065	0	*	42	*	*
Indirect Uses-Boiler Fuel	154	0	*	30	*	*
Conventional Boiler Use	154	0	*	17	*	*
CHP and/or Cogeneration Process	--	0	*	12	*	*
Direct Uses-Total Process	5,881	0	*	5	*	0
Process Heating	393	0	*	5	*	0
Process Cooling and Refrigeration	1,926	0	0	*	0	0
Machine Drive	3,301	0	*	*	*	0
Electro-Chemical Processes	21	--	--	--	--	--
Other Process Use	240	0	*	*	*	0
Direct Uses-Total Nonprocess	2,264	0	*	5	*	0
Facility HVAC (f)	922	0	*	4	*	0
Facility Lighting	820	--	--	--	--	--
Other Facility Support	284	0	0	*	*	0
Onsite Transportation	197	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	41	0	*	*	*	0
End Use Not Reported	766	0	*	2	*	0

3122 Tobacco

TOTAL FUEL CONSUMPTION	949	*	*	5	*	*
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Indirect Uses-Boiler Fuel	7	*	*	4	*	*
Conventional Boiler Use	7	*	*	3	*	*
CHP and/or Cogeneration Process	--	0	*	1	*	*
Direct Uses-Total Process	495	0	*	1	*	*
Process Heating	43	0	*	1	*	*
Process Cooling and Refrigeration	46	0	0	*	0	0
Machine Drive	397	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	9	0	0	*	*	0
Direct Uses-Total Nonprocess	447	0	*	1	*	*
Facility HVAC (f)	268	0	*	*	*	*
Facility Lighting	123	--	--	--	--	--
Other Facility Support	47	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	0

313 TEXTILE MILLS

TOTAL FUEL CONSUMPTION	12,687	*	*	35	*	*
Indirect Uses-Boiler Fuel	261	*	*	13	*	*
Conventional Boiler Use	261	0	*	4	*	*
CHP and/or Cogeneration Process	--	*	*	9	*	*
Direct Uses-Total Process	9,282	*	*	19	*	0
Process Heating	1,078	*	*	12	*	0
Process Cooling and Refrigeration	468	0	0	*	*	0
Machine Drive	7,505	0	0	Q	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	229	0	*	1	*	0
Direct Uses-Total Nonprocess	3,111	*	*	3	*	0
Facility HVAC (f)	1,882	*	*	2	*	0
Facility Lighting	924	--	--	--	--	--
Other Facility Support	189	0	*	*	*	0
Onsite Transportation	110	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	Q	0	*	0	*	0
End Use Not Reported	Q	0	0	1	*	0

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	2,748	*	*	16	*	*
Indirect Uses-Boiler Fuel	134	*	*	7	*	*
Conventional Boiler Use	134	0	*	4	*	*
CHP and/or Cogeneration Process	--	*	*	2	*	*
Direct Uses-Total Process	1,832	0	*	6	*	0
Process Heating	191	0	*	5	*	0
Process Cooling and Refrigeration	180	0	0	0	0	0
Machine Drive	1,442	0	*	*	*	0
Electro-Chemical Processes	8	--	--	--	--	--
Other Process Use	12	0	*	*	*	0
Direct Uses-Total Nonprocess	780	0	*	4	*	0
Facility HVAC (f)	355	0	*	3	*	0
Facility Lighting	289	--	--	--	--	--
Other Facility Support	67	0	*	*	*	0
Onsite Transportation	68	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	Q	0	*	*	*	0

315 APPAREL

TOTAL FUEL CONSUMPTION	803	0	*	2	*	0
Indirect Uses-Boiler Fuel	17	0	*	1	*	0
Conventional Boiler Use	17	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	374	0	*	*	*	0
Process Heating	39	0	0	*	*	0
Process Cooling and Refrigeration	14	0	0	0	0	0
Machine Drive	314	0	0	*	0	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	0	0	*	*	*	0
Direct Uses-Total Nonprocess	395	0	*	*	*	0
Facility HVAC (f)	228	0	*	*	*	0

Facility Lighting	134	--	--	--	--	--
Other Facility Support	27	0	0	*	0	0
Onsite Transportation	6	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	Q	0	0	*	*	0

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	316	*	*	1	*	0
Indirect Uses-Boiler Fuel	2	*	*	*	0	0
Conventional Boiler Use	2	0	0	*	0	0
CHP and/or Cogeneration Process	--	*	*	*	0	0
Direct Uses-Total Process	241	*	*	1	*	0
Process Heating	25	0	*	1	*	0
Process Cooling and Refrigeration	11	0	0	0	0	0
Machine Drive	202	0	0	*	0	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	2	*	0	*	*	0
Direct Uses-Total Nonprocess	72	0	*	*	*	0
Facility HVAC (f)	31	0	*	*	*	0
Facility Lighting	33	--	--	--	--	--
Other Facility Support	7	0	0	*	*	0
Onsite Transportation	1	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	Q	0	0	*	*	0

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	22,353	*	2	48	1	*
Indirect Uses-Boiler Fuel	383	0	*	11	*	*
Conventional Boiler Use	383	0	*	3	*	*
CHP and/or Cogeneration Process	--	0	*	7	*	*
Direct Uses-Total Process	18,341	*	*	31	*	*
Process Heating	1,393	*	*	27	*	*
Process Cooling and Refrigeration	153	0	*	*	0	0
Machine Drive	16,501	*	*	2	*	0
Electro-Chemical Processes	63	--	--	--	--	--
Other Process Use	232	*	*	2	*	0
Direct Uses-Total Nonprocess	3,396	0	1	6	1	0
Facility HVAC (f)	1,626	0	*	6	*	0
Facility Lighting	1,303	--	--	--	--	--
Other Facility Support	341	0	*	*	*	0
Onsite Transportation	53	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	73	0	*	*	*	0
End Use Not Reported	233	0	*	*	*	0

321113 Sawmills

TOTAL FUEL CONSUMPTION	5,956	*	1	6	*	*
Indirect Uses-Boiler Fuel	118	0	*	2	*	0
Conventional Boiler Use	118	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	5,050	*	*	4	*	*
Process Heating	456	*	*	4	*	*
Process Cooling and Refrigeration	14	0	0	0	0	0
Machine Drive	4,541	*	*	*	*	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	33	0	*	0	*	0
Direct Uses-Total Nonprocess	678	0	1	*	*	0
Facility HVAC (f)	215	0	*	*	*	0
Facility Lighting	366	--	--	--	--	--
Other Facility Support	91	0	*	*	*	0
Onsite Transportation	6	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	1	0	*	*	*	0
End Use Not Reported	109	0	*	0	*	0

3212 Veneer, Plywood, and Engineered Woods

TOTAL FUEL CONSUMPTION	7,459	0	*	28	*	*
Indirect Uses-Boiler Fuel	156	0	*	4	*	*
Conventional Boiler Use	156	0	*	2	*	*
CHP and/or Cogeneration Process	--	0	*	3	*	*
Direct Uses-Total Process	6,357	0	*	22	*	0
Process Heating	543	0	*	18	*	0
Process Cooling and Refrigeration	60	0	0	0	0	0
Machine Drive	5,663	0	*	1	*	0
Electro-Chemical Processes	42	--	--	--	--	--
Other Process Use	49	0	*	2	*	0
Direct Uses-Total Nonprocess	896	0	*	2	*	0
Facility HVAC (f)	341	0	*	1	*	0
Facility Lighting	394	--	--	--	--	--
Other Facility Support	107	0	*	*	*	0
Onsite Transportation	7	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	47	0	*	*	*	0
End Use Not Reported	51	0	*	*	*	0

321219 Reconstituted Wood Products

TOTAL FUEL CONSUMPTION	4,996	0	*	20	*	*
Indirect Uses-Boiler Fuel	113	0	*	3	*	*
Conventional Boiler Use	113	0	0	1	*	*
CHP and/or Cogeneration Process	--	0	*	2	*	*
Direct Uses-Total Process	4,311	0	*	17	*	0
Process Heating	400	0	*	14	*	0
Process Cooling and Refrigeration	37	0	0	0	0	0
Machine Drive	3,807	0	*	1	*	0
Electro-Chemical Processes	40	--	--	--	--	--
Other Process Use	27	0	0	2	*	0
Direct Uses-Total Nonprocess	559	0	*	*	*	0
Facility HVAC (f)	229	0	*	*	*	0
Facility Lighting	237	--	--	--	--	--
Other Facility Support	71	0	*	*	*	0
Onsite Transportation	6	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	17	0	*	*	*	0
End Use Not Reported	13	0	0	0	0	0

3219 Other Wood Products

TOTAL FUEL CONSUMPTION	8,549	*	1	12	1	0
Indirect Uses-Boiler Fuel	98	0	*	4	*	0
Conventional Boiler Use	98	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	6,649	*	*	5	*	0
Process Heating	306	0	*	4	*	0
Process Cooling and Refrigeration	59	0	*	*	0	0
Machine Drive	6,126	*	*	Q	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	149	0	*	*	*	0
Direct Uses-Total Nonprocess	1,746	0	*	4	*	0
Facility HVAC (f)	1,042	0	*	4	*	0
Facility Lighting	512	--	--	--	--	--
Other Facility Support	133	0	0	*	*	0
Onsite Transportation	34	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	25	0	*	0	*	0
End Use Not Reported	55	0	*	*	*	0

322 PAPER

TOTAL FUEL CONSUMPTION	99,474	3	1	424	1	7
Indirect Uses-Boiler Fuel	4,655	2	*	262	*	6
Conventional Boiler Use	4,655	1	*	40	0	*
CHP and/or Cogeneration Process	--	1	*	222	*	6
Direct Uses-Total Process	84,622	1	*	139	*	*
Process Heating	3,901	1	*	120	*	*
Process Cooling and Refrigeration	1,689	0	0	*	0	0
Machine Drive	74,796	*	*	16	*	*
Electro-Chemical Processes	828	--	--	--	--	--
Other Process Use	3,407	0	*	3	*	*

Direct Uses-Total Nonprocess	9,692	*	*	21	1	*
Facility HVAC (f)	4,409	*	*	16	*	*
Facility Lighting	3,846	--	--	--	--	--
Other Facility Support	1,084	0	*	2	*	0
Onsite Transportation	205	--	*	*	1	--
Conventional Electricity Generation	--	*	*	3	*	*
Other Nonprocess Use	Q	*	*	*	*	0
End Use Not Reported	505	*	*	Q	*	*

322110 Pulp Mills

TOTAL FUEL CONSUMPTION	6,886	*	*	29	*	*
Indirect Uses-Boiler Fuel	411	*	*	15	*	*
Conventional Boiler Use	411	0	*	0	0	0
CHP and/or Cogeneration Process	--	*	*	15	*	*
Direct Uses-Total Process	5,780	*	*	14	*	0
Process Heating	49	*	*	14	*	0
Process Cooling and Refrigeration	45	0	0	0	0	0
Machine Drive	5,687	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	0	0	0	0
Direct Uses-Total Nonprocess	694	0	*	*	*	0
Facility HVAC (f)	353	0	0	*	*	0
Facility Lighting	297	--	--	--	--	--
Other Facility Support	43	0	0	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	0	0	0	0	*	0

322121 Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	36,416	1	*	156	*	4
Indirect Uses-Boiler Fuel	2,388	1	*	87	*	4
Conventional Boiler Use	2,388	1	*	14	0	*
CHP and/or Cogeneration Process	--	*	*	73	*	4
Direct Uses-Total Process	30,814	*	*	63	*	*
Process Heating	1,548	*	*	47	*	*
Process Cooling and Refrigeration	462	0	0	*	0	0
Machine Drive	28,491	*	*	15	*	*
Electro-Chemical Processes	199	--	--	--	--	--
Other Process Use	114	0	*	1	0	*
Direct Uses-Total Nonprocess	3,214	*	*	6	*	*
Facility HVAC (f)	1,393	*	*	3	*	*
Facility Lighting	1,360	--	--	--	--	--
Other Facility Support	404	0	*	*	*	0
Onsite Transportation	57	--	*	*	*	--
Conventional Electricity Generation	--	*	*	3	0	*
Other Nonprocess Use	0	*	*	*	*	0
End Use Not Reported	0	0	*	0	*	*

322122 Newsprint Mills

TOTAL FUEL CONSUMPTION	8,634	0	*	8	*	*
Indirect Uses-Boiler Fuel	191	0	*	6	0	*
Conventional Boiler Use	191	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	6	0	*
Direct Uses-Total Process	7,952	0	*	2	*	0
Process Heating	104	0	0	2	*	0
Process Cooling and Refrigeration	86	0	0	0	0	0
Machine Drive	4,788	0	*	0	0	0
Electro-Chemical Processes	456	--	--	--	--	--
Other Process Use	2,519	0	*	*	0	0
Direct Uses-Total Nonprocess	251	0	*	*	*	0
Facility HVAC (f)	94	0	0	*	*	0
Facility Lighting	116	--	--	--	--	--
Other Facility Support	28	0	0	*	0	0
Onsite Transportation	13	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	*	0	0	0
End Use Not Reported	239	0	0	0	0	0

322130 Paperboard Mills

TOTAL FUEL CONSUMPTION	34,373	1	*	183	*	2
Indirect Uses-Boiler Fuel	1,361	1	*	136	*	2
Conventional Boiler Use	1,361	*	*	18	0	*
CHP and/or Cogeneration Process	--	*	*	119	*	2
Direct Uses-Total Process	30,054	*	*	41	*	*
Process Heating	1,029	*	*	37	*	*
Process Cooling and Refrigeration	582	0	0	0	0	0
Machine Drive	27,775	0	*	1	*	0
Electro-Chemical Processes	168	--	--	--	--	--
Other Process Use	500	0	*	2	*	0
Direct Uses-Total Nonprocess	2,765	*	*	6	*	*
Facility HVAC (f)	1,089	*	*	5	*	0
Facility Lighting	1,219	--	--	--	--	--
Other Facility Support	366	0	0	1	*	0
Onsite Transportation	43	--	*	0	*	--
Conventional Electricity Generation	--	*	*	*	0	*
Other Nonprocess Use	47	0	*	0	*	0
End Use Not Reported	194	*	*	0	*	0

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	14,232	*	*	38	*	0
Indirect Uses-Boiler Fuel	118	*	*	7	*	0
Conventional Boiler Use	118	*	*	4	*	0
CHP and/or Cogeneration Process	--	0	*	3	*	0
Direct Uses-Total Process	9,525	0	*	18	*	0
Process Heating	581	0	0	17	*	0
Process Cooling and Refrigeration	1,043	0	0	*	0	0
Machine Drive	7,541	0	*	1	*	0
Electro-Chemical Processes	159	--	--	--	--	--
Other Process Use	200	0	*	Q	*	0
Direct Uses-Total Nonprocess	4,146	0	*	12	*	0
Facility HVAC (f)	2,374	0	*	11	*	0
Facility Lighting	1,184	--	--	--	--	--
Other Facility Support	393	0	*	*	*	0
Onsite Transportation	153	--	*	*	*	--
Conventional Electricity Generation	--	0	*	Q	0	0
Other Nonprocess Use	Q	0	*	*	0	0
End Use Not Reported	Q	0	0	1	*	0

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	67,662	1	2	1,041	10	*
Indirect Uses-Boiler Fuel	507	*	*	339	1	*
Conventional Boiler Use	507	*	*	108	1	0
CHP and/or Cogeneration Process	--	*	*	231	*	*
Direct Uses-Total Process	61,351	1	1	592	8	*
Process Heating	2,293	*	*	550	8	0
Process Cooling and Refrigeration	2,875	*	*	1	*	0
Machine Drive	54,710	*	*	12	*	0
Electro-Chemical Processes	988	--	--	--	--	--
Other Process Use	485	*	*	29	*	*
Direct Uses-Total Nonprocess	5,040	*	1	8	*	*
Facility HVAC (f)	2,579	*	*	5	*	0
Facility Lighting	1,716	--	--	--	--	--
Other Facility Support	668	0	*	*	*	0
Onsite Transportation	7	--	1	*	*	--
Conventional Electricity Generation	--	0	*	3	*	0
Other Nonprocess Use	70	0	*	*	*	*
End Use Not Reported	763	*	*	101	*	0

324110 Petroleum Refineries

TOTAL FUEL CONSUMPTION	64,158	*	1	972	10	*
Indirect Uses-Boiler Fuel	423	*	*	323	1	*
Conventional Boiler Use	423	*	*	102	1	0
CHP and/or Cogeneration Process	--	0	*	221	*	*
Direct Uses-Total Process	58,475	*	*	543	8	0
Process Heating	1,939	*	*	507	8	0
Process Cooling and Refrigeration	2,717	0	0	*	*	0
Machine Drive	52,396	0	*	9	*	0
Electro-Chemical Processes	975	--	--	--	--	--
Other Process Use	449	0	*	27	*	0
Direct Uses-Total Nonprocess	4,527	0	1	6	*	0
Facility HVAC (f)	2,357	0	*	2	*	0
Facility Lighting	1,507	--	--	--	--	--

Other Facility Support	601	0	*	*	*	0
Onsite Transportation	0	--	*	0	*	--
Conventional Electricity Generation	--	0	*	3	*	0
Other Nonprocess Use	62	0	*	*	0	0
End Use Not Reported	733	*	*	101	*	0

324121 Asphalt Paving Mixture and Block

TOTAL FUEL CONSUMPTION	935	*	1	41	*	0
Indirect Uses-Boiler Fuel	31	0	*	5	*	0
Conventional Boiler Use	31	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	751	*	*	35	*	0
Process Heating	151	*	*	30	*	0
Process Cooling and Refrigeration	3	*	*	*	0	0
Machine Drive	595	*	*	3	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	1	*	*	2	*	0
Direct Uses-Total Nonprocess	125	*	*	1	*	0
Facility HVAC (f)	53	*	*	1	*	0
Facility Lighting	47	--	--	--	--	--
Other Facility Support	21	0	*	*	*	0
Onsite Transportation	1	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	*	*	0
End Use Not Reported	29	0	*	*	*	0

324122 Asphalt Shingle and Coating Materials

TOTAL FUEL CONSUMPTION	738	*	*	10	*	*
Indirect Uses-Boiler Fuel	19	*	*	3	*	0
Conventional Boiler Use	19	0	*	1	*	0
CHP and/or Cogeneration Process	--	*	*	2	*	0
Direct Uses-Total Process	580	0	*	7	*	*
Process Heating	57	0	*	6	*	0
Process Cooling and Refrigeration	33	0	0	*	0	0
Machine Drive	473	0	*	*	*	0
Electro-Chemical Processes	12	--	--	--	--	--
Other Process Use	7	0	*	*	*	*
Direct Uses-Total Nonprocess	139	0	*	1	*	0
Facility HVAC (f)	60	0	*	1	*	0
Facility Lighting	64	--	--	--	--	--
Other Facility Support	13	0	*	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	0	0	*	*	*	0
End Use Not Reported	0	0	*	0	*	0

324199 Other Petroleum and Coal Products

TOTAL FUEL CONSUMPTION	1,145	0	*	7	*	*
Indirect Uses-Boiler Fuel	10	0	*	2	*	0
Conventional Boiler Use	10	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	1,017	0	*	5	*	*
Process Heating	90	0	*	5	*	0
Process Cooling and Refrigeration	39	0	0	0	*	0
Machine Drive	888	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	*	0	*	0	*	*
Direct Uses-Total Nonprocess	117	0	*	1	*	*
Facility HVAC (f)	50	0	*	1	*	0
Facility Lighting	50	--	--	--	--	--
Other Facility Support	17	0	0	*	*	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	*	0	*
End Use Not Reported	0	0	0	0	*	0

325 CHEMICALS

TOTAL FUEL CONSUMPTION	183,096	*	2	1,946	1	11
Indirect Uses-Boiler Fuel	3,776	*	*	1,023	*	7
Conventional Boiler Use	3,776	*	*	324	*	1
CHP and/or Cogeneration Process	--	*	*	700	*	6
Direct Uses-Total Process	155,375	*	*	855	*	1

Process Heating	6,403	*	*	688	*	1
Process Cooling and Refrigeration	17,107	0	*	15	*	0
Machine Drive	98,971	0	*	88	*	*
Electro-Chemical Processes	30,163	--	--	--	--	--
Other Process Use	2,731	0	*	64	*	0
Direct Uses-Total Nonprocess	21,509	*	1	56	*	*
Facility HVAC (f)	11,240	*	*	47	*	*
Facility Lighting	7,229	--	--	--	--	--
Other Facility Support	2,140	0	*	6	*	0
Onsite Transportation	452	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	448	0	*	2	*	0
End Use Not Reported	2,436	0	*	11	*	3

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	9,717	0	*	300	*	0
Indirect Uses-Boiler Fuel	21	0	*	85	*	0
Conventional Boiler Use	21	0	*	18	*	0
CHP and/or Cogeneration Process	--	0	*	66	*	0
Direct Uses-Total Process	9,234	0	*	215	*	0
Process Heating	298	0	0	C	*	0
Process Cooling and Refrigeration	2,106	0	0	3	0	0
Machine Drive	5,992	0	*	W	*	0
Electro-Chemical Processes	837	--	--	--	--	--
Other Process Use	0	0	*	C	*	0
Direct Uses-Total Nonprocess	463	0	*	1	*	0
Facility HVAC (f)	242	0	*	*	*	0
Facility Lighting	168	--	--	--	--	--
Other Facility Support	51	0	*	*	0	0
Onsite Transportation	1	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	*	0	*	1	0	0
End Use Not Reported	0	0	*	0	*	0

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	19,979	0	*	37	*	0
Indirect Uses-Boiler Fuel	26	0	*	5	*	0
Conventional Boiler Use	26	0	*	3	0	0
CHP and/or Cogeneration Process	--	0	*	2	*	0
Direct Uses-Total Process	19,306	0	*	16	0	0
Process Heating	244	0	*	7	0	0
Process Cooling and Refrigeration	432	0	*	*	0	0
Machine Drive	18,625	0	*	5	0	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	0	0	0	4	0	0
Direct Uses-Total Nonprocess	642	0	*	15	*	0
Facility HVAC (f)	426	0	*	15	*	0
Facility Lighting	144	--	--	--	--	--
Other Facility Support	44	0	*	*	*	0
Onsite Transportation	Q	--	*	*	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	Q	0	*	0	0	0
End Use Not Reported	4	0	0	0	*	0

325180 Other Basic Inorganic Chemicals

TOTAL FUEL CONSUMPTION	27,836	0	*	147	*	2
Indirect Uses-Boiler Fuel	2,050	0	*	50	*	2
Conventional Boiler Use	2,050	0	*	15	*	*
CHP and/or Cogeneration Process	--	0	*	35	*	2
Direct Uses-Total Process	23,541	0	*	94	*	*
Process Heating	1,045	0	*	47	*	*
Process Cooling and Refrigeration	997	0	*	*	0	0
Machine Drive	6,274	0	*	45	*	0
Electro-Chemical Processes	13,683	--	--	--	--	--
Other Process Use	1,542	0	*	1	*	0
Direct Uses-Total Nonprocess	1,947	0	*	3	*	0
Facility HVAC (f)	808	0	*	2	*	0
Facility Lighting	764	--	--	--	--	--
Other Facility Support	223	0	*	*	*	0
Onsite Transportation	31	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	121	0	*	0	*	0
End Use Not Reported	Q	0	0	Q	*	0

325193	Ethyl Alcohol						
TOTAL FUEL CONSUMPTION	13,699	0	*	353	*	4	
Indirect Uses-Boiler Fuel	380	0	0	212	0	2	
Conventional Boiler Use	380	0	0	117	0	*	
CHP and/or Cogeneration Process	--	0	0	94	0	1	
Direct Uses-Total Process	12,010	0	*	134	*	*	
Process Heating	549	0	0	117	0	*	
Process Cooling and Refrigeration	1,494	0	0	1	0	0	
Machine Drive	9,608	0	*	1	*	0	
Electro-Chemical Processes	196	--	--	--	--	--	
Other Process Use	162	0	0	15	0	0	
Direct Uses-Total Nonprocess	903	0	*	4	*	0	
Facility HVAC (f)	381	0	0	3	*	0	
Facility Lighting	373	--	--	--	--	--	
Other Facility Support	129	0	*	1	*	0	
Onsite Transportation	21	--	*	*	*	--	
Conventional Electricity Generation	--	0	*	0	0	0	
Other Nonprocess Use	0	0	*	*	0	0	
End Use Not Reported	406	0	*	Q	*	2	
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals						
TOTAL FUEL CONSUMPTION	3,124	0	*	23	*	0	
Indirect Uses-Boiler Fuel	22	0	*	14	0	0	
Conventional Boiler Use	22	0	*	6	0	0	
CHP and/or Cogeneration Process	--	0	0	9	0	0	
Direct Uses-Total Process	2,551	0	*	9	*	0	
Process Heating	252	0	0	8	*	0	
Process Cooling and Refrigeration	688	0	*	0	0	0	
Machine Drive	1,514	0	*	0	0	0	
Electro-Chemical Processes	97	--	--	--	--	--	
Other Process Use	*	0	*	*	*	0	
Direct Uses-Total Nonprocess	547	0	*	*	*	0	
Facility HVAC (f)	271	0	*	*	*	0	
Facility Lighting	152	--	--	--	--	--	
Other Facility Support	121	0	0	*	*	0	
Onsite Transportation	3	--	*	0	*	--	
Conventional Electricity Generation	--	0	*	0	0	0	
Other Nonprocess Use	0	0	0	*	0	0	
End Use Not Reported	5	0	0	0	0	0	
325199	Other Basic Organic Chemicals						
TOTAL FUEL CONSUMPTION	27,763	*	*	353	*	3	
Indirect Uses-Boiler Fuel	242	*	*	223	*	2	
Conventional Boiler Use	242	*	*	82	*	*	
CHP and/or Cogeneration Process	--	0	*	141	*	2	
Direct Uses-Total Process	24,447	0	*	124	*	0	
Process Heating	767	0	*	85	*	0	
Process Cooling and Refrigeration	3,758	0	0	4	*	0	
Machine Drive	17,370	0	*	15	*	0	
Electro-Chemical Processes	2,496	--	--	--	--	--	
Other Process Use	56	0	*	20	*	0	
Direct Uses-Total Nonprocess	2,886	0	*	6	*	0	
Facility HVAC (f)	1,283	0	*	4	*	0	
Facility Lighting	1,161	--	--	--	--	--	
Other Facility Support	245	0	*	1	*	0	
Onsite Transportation	99	--	*	*	*	--	
Conventional Electricity Generation	--	0	*	*	0	0	
Other Nonprocess Use	99	0	*	Q	*	0	
End Use Not Reported	187	0	*	*	*	1	
325211	Plastics Materials and Resins						
TOTAL FUEL CONSUMPTION	39,470	*	*	365	*	1	
Indirect Uses-Boiler Fuel	349	*	*	275	*	*	
Conventional Boiler Use	349	*	*	25	*	*	
CHP and/or Cogeneration Process	--	*	*	250	*	0	
Direct Uses-Total Process	36,135	*	*	84	*	*	
Process Heating	998	*	0	70	*	*	
Process Cooling and Refrigeration	3,067	0	*	6	*	0	
Machine Drive	19,567	0	*	4	*	0	
Electro-Chemical Processes	12,392	--	--	--	--	--	
Other Process Use	113	0	*	5	*	0	

Direct Uses-Total Nonprocess	2,703	*	*	6	*	*
Facility HVAC (f)	1,294	*	*	4	*	*
Facility Lighting	1,032	--	--	--	--	--
Other Facility Support	296	0	*	2	*	0
Onsite Transportation	32	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	50	0	*	*	*	0
End Use Not Reported	283	0	0	*	*	0

325212 Synthetic Rubber

TOTAL FUEL CONSUMPTION	1,428	0	*	18	*	*
Indirect Uses-Boiler Fuel	8	0	*	17	*	*
Conventional Boiler Use	8	0	*	8	0	0
CHP and/or Cogeneration Process	--	0	*	9	*	*
Direct Uses-Total Process	1,014	0	*	1	*	0
Process Heating	96	0	*	1	0	0
Process Cooling and Refrigeration	241	0	0	*	0	0
Machine Drive	677	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	*	0	0
Direct Uses-Total Nonprocess	155	0	*	*	*	0
Facility HVAC (f)	91	0	0	*	*	0
Facility Lighting	36	--	--	--	--	--
Other Facility Support	22	0	0	*	0	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	4	0	*	*	*	0
End Use Not Reported	251	0	*	0	*	0

325220 Artificial and Synthetic Fibers and Filaments

TOTAL FUEL CONSUMPTION	3,405	*	*	13	*	*
Indirect Uses-Boiler Fuel	43	*	*	9	*	*
Conventional Boiler Use	43	*	*	4	*	*
CHP and/or Cogeneration Process	--	0	*	5	0	*
Direct Uses-Total Process	2,790	*	*	4	*	*
Process Heating	393	*	*	3	*	*
Process Cooling and Refrigeration	460	0	0	1	0	0
Machine Drive	1,746	0	*	*	*	0
Electro-Chemical Processes	1	--	--	--	--	--
Other Process Use	189	0	0	*	*	0
Direct Uses-Total Nonprocess	573	0	*	*	*	0
Facility HVAC (f)	297	0	0	*	*	0
Facility Lighting	202	--	--	--	--	--
Other Facility Support	54	0	*	*	0	0
Onsite Transportation	15	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	4	0	*	0	*	0
End Use Not Reported	0	0	0	*	*	0

325311 Nitrogenous Fertilizers

TOTAL FUEL CONSUMPTION	4,088	*	*	154	*	0
Indirect Uses-Boiler Fuel	33	*	0	35	*	0
Conventional Boiler Use	33	0	0	12	0	0
CHP and/or Cogeneration Process	--	*	0	23	*	0
Direct Uses-Total Process	3,248	0	*	111	*	0
Process Heating	226	0	*	100	*	0
Process Cooling and Refrigeration	243	0	*	*	0	0
Machine Drive	2,665	0	*	3	0	0
Electro-Chemical Processes	67	--	--	--	--	--
Other Process Use	48	0	*	8	0	0
Direct Uses-Total Nonprocess	520	0	*	*	*	0
Facility HVAC (f)	223	0	0	*	*	0
Facility Lighting	194	--	--	--	--	--
Other Facility Support	67	0	0	*	0	0
Onsite Transportation	24	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	12	0	*	0	0	0
End Use Not Reported	286	0	0	7	*	0

325312 Phosphatic Fertilizers

TOTAL FUEL CONSUMPTION	3,810	*	*	24	*	*
Indirect Uses-Boiler Fuel	2	*	*	3	*	*

Conventional Boiler Use	2	0	0	1	0	0
CHP and/or Cogeneration Process	--	*	*	2	*	*
Direct Uses-Total Process	3,404	0	*	21	*	0
Process Heating	13	0	0	21	*	0
Process Cooling and Refrigeration	3	0	0	*	0	0
Machine Drive	3,388	0	*	0	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	*	*	0
Direct Uses-Total Nonprocess	346	0	*	*	*	0
Facility HVAC (f)	167	0	0	*	*	0
Facility Lighting	107	--	--	--	--	--
Other Facility Support	71	0	0	*	0	0
Onsite Transportation	*	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	*	0	*	0	0	0
End Use Not Reported	59	0	0	*	0	0

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	11,460	0	*	49	*	*
Indirect Uses-Boiler Fuel	263	0	*	35	*	*
Conventional Boiler Use	263	0	*	17	*	*
CHP and/or Cogeneration Process	--	0	*	19	*	*
Direct Uses-Total Process	5,488	0	*	5	*	0
Process Heating	317	0	*	4	*	0
Process Cooling and Refrigeration	1,886	0	*	*	0	0
Machine Drive	3,042	0	*	*	*	0
Electro-Chemical Processes	12	--	--	--	--	--
Other Process Use	232	0	*	1	*	0
Direct Uses-Total Nonprocess	5,613	0	*	8	*	*
Facility HVAC (f)	3,707	0	*	7	*	*
Facility Lighting	1,438	--	--	--	--	--
Other Facility Support	381	0	*	1	*	0
Onsite Transportation	70	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	17	0	*	*	*	0
End Use Not Reported	95	0	*	*	0	0

325412 Pharmaceutical Preparation

TOTAL FUEL CONSUMPTION	5,754	0	*	21	*	*
Indirect Uses-Boiler Fuel	126	0	*	13	*	*
Conventional Boiler Use	126	0	*	8	*	*
CHP and/or Cogeneration Process	--	0	*	5	*	*
Direct Uses-Total Process	2,863	0	*	3	*	0
Process Heating	217	0	*	2	*	0
Process Cooling and Refrigeration	842	0	*	*	0	0
Machine Drive	1,660	0	*	*	*	0
Electro-Chemical Processes	6	--	--	--	--	--
Other Process Use	138	0	*	1	*	0
Direct Uses-Total Nonprocess	2,669	0	*	4	*	*
Facility HVAC (f)	1,740	0	*	4	*	*
Facility Lighting	646	--	--	--	--	--
Other Facility Support	229	0	*	*	*	0
Onsite Transportation	50	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	5	0	*	*	*	0
End Use Not Reported	95	0	0	*	0	0

325992 Photographic Film, Paper, Plate, and Chemicals

TOTAL FUEL CONSUMPTION	993	*	*	4	*	0
Indirect Uses-Boiler Fuel	16	*	*	2	*	0
Conventional Boiler Use	16	0	0	1	0	0
CHP and/or Cogeneration Process	--	*	*	1	*	0
Direct Uses-Total Process	615	0	*	1	*	0
Process Heating	48	0	0	1	*	0
Process Cooling and Refrigeration	149	0	0	0	*	0
Machine Drive	339	0	*	*	*	0
Electro-Chemical Processes	45	--	--	--	--	--
Other Process Use	34	0	0	*	0	0
Direct Uses-Total Nonprocess	361	0	*	*	*	0
Facility HVAC (f)	186	0	*	*	*	0
Facility Lighting	109	--	--	--	--	--
Other Facility Support	40	0	*	*	*	0
Onsite Transportation	8	--	*	0	*	--

Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	19	0	*	*	0	0
End Use Not Reported	1	0	0	*	*	0

326 PLASTICS AND RUBBER PRODUCTS

TOTAL FUEL CONSUMPTION	55,967	0	Q	87	1	*
Indirect Uses-Boiler Fuel	272	0	*	41	*	*
Conventional Boiler Use	272	0	*	20	*	*
CHP and/or Cogeneration Process	--	0	0	21	*	*
Direct Uses-Total Process	42,762	0	*	24	*	0
Process Heating	8,647	0	*	22	*	0
Process Cooling and Refrigeration	4,355	0	0	*	0	0
Machine Drive	28,841	0	*	1	*	0
Electro-Chemical Processes	Q	--	--	--	--	--
Other Process Use	Q	0	0	*	*	0
Direct Uses-Total Nonprocess	12,507	0	Q	21	1	*
Facility HVAC (f)	5,487	0	*	20	*	*
Facility Lighting	5,125	--	--	--	--	--
Other Facility Support	1,239	0	*	1	*	0
Onsite Transportation	233	--	*	*	1	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	Q	0	*	Q	*	0

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	37,841	*	3	324	1	11
Indirect Uses-Boiler Fuel	319	*	*	13	*	*
Conventional Boiler Use	319	0	*	2	*	0
CHP and/or Cogeneration Process	--	*	*	11	*	*
Direct Uses-Total Process	30,950	*	1	270	*	11
Process Heating	9,065	*	*	258	*	10
Process Cooling and Refrigeration	1,395	0	0	2	*	0
Machine Drive	19,079	0	1	7	*	*
Electro-Chemical Processes	636	--	--	--	--	--
Other Process Use	774	0	*	3	*	0
Direct Uses-Total Nonprocess	4,840	*	2	20	*	*
Facility HVAC (f)	2,323	*	*	18	*	*
Facility Lighting	1,775	--	--	--	--	--
Other Facility Support	550	0	*	1	*	0
Onsite Transportation	136	--	1	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	57	0	*	*	*	0
End Use Not Reported	Q	0	*	Q	*	*

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	1,502	*	*	34	*	*
Indirect Uses-Boiler Fuel	6	0	0	1	0	0
Conventional Boiler Use	6	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	1	0	0
Direct Uses-Total Process	1,237	*	*	31	*	*
Process Heating	329	*	*	31	*	*
Process Cooling and Refrigeration	25	0	0	0	0	0
Machine Drive	846	0	*	*	*	0
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	37	0	*	*	*	0
Direct Uses-Total Nonprocess	257	0	*	2	*	0
Facility HVAC (f)	95	0	*	1	*	0
Facility Lighting	125	--	--	--	--	--
Other Facility Support	32	0	0	*	*	0
Onsite Transportation	5	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	*	0	*	*	0	0
End Use Not Reported	3	0	*	1	*	*

327211 Flat Glass

TOTAL FUEL CONSUMPTION	1,658	0	*	45	*	0
Indirect Uses-Boiler Fuel	28	0	0	*	0	0
Conventional Boiler Use	28	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	0	0	0
Direct Uses-Total Process	1,378	0	*	42	*	0
Process Heating	662	0	0	38	*	0
Process Cooling and Refrigeration	102	0	0	2	0	0

Machine Drive	542	0	*	2	0	0
Electro-Chemical Processes	12	--	--	--	--	--
Other Process Use	61	0	*	1	*	0
Direct Uses-Total Nonprocess	189	0	*	1	*	0
Facility HVAC (f)	79	0	*	1	*	0
Facility Lighting	74	--	--	--	--	--
Other Facility Support	21	0	0	*	*	0
Onsite Transportation	16	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	0	0	*	0	0	0
End Use Not Reported	63	0	*	2	*	0

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	2,237	0	*	24	*	0
Indirect Uses-Boiler Fuel	101	0	*	3	0	0
Conventional Boiler Use	101	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	*	2	0	0
Direct Uses-Total Process	1,789	0	*	20	*	0
Process Heating	939	0	*	18	*	0
Process Cooling and Refrigeration	215	0	0	*	0	0
Machine Drive	614	0	*	1	*	0
Electro-Chemical Processes	2	--	--	--	--	--
Other Process Use	20	0	*	1	*	0
Direct Uses-Total Nonprocess	347	0	*	1	*	0
Facility HVAC (f)	180	0	0	1	*	0
Facility Lighting	119	--	--	--	--	--
Other Facility Support	35	0	0	*	0	0
Onsite Transportation	13	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	0	0	*	0	*	0
End Use Not Reported	0	0	0	0	*	0

327213 Glass Containers

TOTAL FUEL CONSUMPTION	3,544	0	*	45	*	0
Indirect Uses-Boiler Fuel	1	0	0	*	*	0
Conventional Boiler Use	1	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	3,137	0	*	42	*	0
Process Heating	1,307	0	*	41	*	0
Process Cooling and Refrigeration	86	0	0	*	0	0
Machine Drive	1,730	0	*	1	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	15	0	*	0	0	0
Direct Uses-Total Nonprocess	406	0	*	2	*	0
Facility HVAC (f)	186	0	*	2	*	0
Facility Lighting	171	--	--	--	--	--
Other Facility Support	48	0	0	*	*	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	0	0	*	0	0	0
End Use Not Reported	0	0	0	0	*	0

327215 Glass Products from Purchased Glass

TOTAL FUEL CONSUMPTION	3,350	*	*	11	*	*
Indirect Uses-Boiler Fuel	47	*	*	1	*	0
Conventional Boiler Use	47	0	0	*	*	0
CHP and/or Cogeneration Process	--	*	*	1	*	0
Direct Uses-Total Process	2,502	0	*	8	*	0
Process Heating	1,281	0	0	7	*	0
Process Cooling and Refrigeration	145	0	0	*	0	0
Machine Drive	993	0	*	*	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	80	0	*	*	*	0
Direct Uses-Total Nonprocess	597	0	*	2	*	*
Facility HVAC (f)	283	0	0	2	*	*
Facility Lighting	208	--	--	--	--	--
Other Facility Support	81	0	0	*	*	0
Onsite Transportation	19	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	6	0	*	*	*	0
End Use Not Reported	204	0	*	*	*	0

327310 Cements

TOTAL FUEL CONSUMPTION	11,180	*	1	20	*	7
Indirect Uses-Boiler Fuel	6	0	0	*	0	*
Conventional Boiler Use	6	0	0	0	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	*
Direct Uses-Total Process	10,518	*	*	20	*	7
Process Heating	1,942	*	*	19	*	7
Process Cooling and Refrigeration	525	0	0	*	*	0
Machine Drive	7,867	0	*	*	*	*
Electro-Chemical Processes	*	--	--	--	--	--
Other Process Use	184	0	*	0	*	0
Direct Uses-Total Nonprocess	550	0	*	*	*	0
Facility HVAC (f)	280	0	*	*	*	0
Facility Lighting	166	--	--	--	--	--
Other Facility Support	50	0	0	*	*	0
Onsite Transportation	25	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	28	0	*	0	*	0
End Use Not Reported	105	0	*	*	*	0

327410 Lime

TOTAL FUEL CONSUMPTION	1,481	0	*	6	*	3
Indirect Uses-Boiler Fuel	6	0	0	0	0	0
Conventional Boiler Use	6	0	0	0	0	0
CHP and/or Cogeneration Process	--	0	0	0	0	0
Direct Uses-Total Process	1,350	0	*	6	*	3
Process Heating	266	0	*	6	*	3
Process Cooling and Refrigeration	2	0	0	0	0	0
Machine Drive	1,059	0	*	0	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	23	0	*	0	*	0
Direct Uses-Total Nonprocess	124	0	*	*	*	0
Facility HVAC (f)	63	0	0	*	*	0
Facility Lighting	52	--	--	--	--	--
Other Facility Support	9	0	0	*	0	0
Onsite Transportation	1	--	*	0	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	1	0	*	0	*	0

327420 Gypsum

TOTAL FUEL CONSUMPTION	1,406	0	*	46	*	0
Indirect Uses-Boiler Fuel	2	0	*	1	0	0
Conventional Boiler Use	2	0	*	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	1,162	0	*	44	0	0
Process Heating	113	0	*	42	0	0
Process Cooling and Refrigeration	25	0	0	0	0	0
Machine Drive	1,025	0	*	2	0	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	0	0	*	0	0	0
Direct Uses-Total Nonprocess	241	0	*	2	*	0
Facility HVAC (f)	77	0	*	1	*	0
Facility Lighting	107	--	--	--	--	--
Other Facility Support	54	0	*	*	*	0
Onsite Transportation	4	--	*	0	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	0	0	0	0	0	0
End Use Not Reported	0	0	0	0	0	0

327993 Mineral Wool

TOTAL FUEL CONSUMPTION	3,207	0	*	20	*	0
Indirect Uses-Boiler Fuel	54	0	*	*	0	0
Conventional Boiler Use	54	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	2,686	0	*	18	*	0
Process Heating	1,338	0	0	17	*	0
Process Cooling and Refrigeration	96	0	0	*	*	0
Machine Drive	1,077	0	*	*	*	0
Electro-Chemical Processes	0	--	--	--	--	--
Other Process Use	174	0	*	1	*	0
Direct Uses-Total Nonprocess	350	0	*	2	*	0
Facility HVAC (f)	143	0	*	2	*	0

Facility Lighting	163	--	--	--	--	--
Other Facility Support	30	0	*	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	12	0	*	*	*	0
End Use Not Reported	118	0	0	*	*	0

331 PRIMARY METALS

TOTAL FUEL CONSUMPTION	138,437	*	1	625	1	1
Indirect Uses-Boiler Fuel	621	*	*	83	*	0
Conventional Boiler Use	621	*	*	22	*	0
CHP and/or Cogeneration Process	--	*	*	61	*	0
Direct Uses-Total Process	118,803	*	*	490	*	1
Process Heating	47,292	*	*	439	*	*
Process Cooling and Refrigeration	1,962	0	*	5	*	0
Machine Drive	37,159	*	*	11	*	0
Electro-Chemical Processes	30,335	--	--	--	--	--
Other Process Use	2,055	0	*	35	*	*
Direct Uses-Total Nonprocess	16,414	*	1	46	*	0
Facility HVAC (f)	8,359	*	*	38	*	0
Facility Lighting	5,890	--	--	--	--	--
Other Facility Support	1,584	0	*	6	*	0
Onsite Transportation	216	--	1	1	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	364	0	*	1	*	0
End Use Not Reported	2,599	*	*	6	*	0

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	64,471	*	1	390	*	1
Indirect Uses-Boiler Fuel	341	*	0	44	*	0
Conventional Boiler Use	341	*	0	14	0	0
CHP and/or Cogeneration Process	--	*	0	30	*	0
Direct Uses-Total Process	57,120	0	*	324	*	1
Process Heating	32,077	0	*	283	*	*
Process Cooling and Refrigeration	1,005	0	0	5	*	0
Machine Drive	21,695	0	*	3	*	0
Electro-Chemical Processes	1,491	--	--	--	--	--
Other Process Use	852	0	*	33	*	*
Direct Uses-Total Nonprocess	4,672	0	1	18	*	0
Facility HVAC (f)	1,522	0	*	14	*	0
Facility Lighting	2,207	--	--	--	--	--
Other Facility Support	706	0	0	4	*	0
Onsite Transportation	138	--	1	*	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	99	0	*	1	*	0
End Use Not Reported	2,337	*	*	4	*	0

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	6,565	0	*	26	*	0
Indirect Uses-Boiler Fuel	20	0	*	3	*	0
Conventional Boiler Use	20	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	5,645	0	*	19	*	0
Process Heating	1,665	0	*	17	*	0
Process Cooling and Refrigeration	150	0	*	*	0	0
Machine Drive	3,775	0	*	Q	*	0
Electro-Chemical Processes	23	--	--	--	--	--
Other Process Use	33	0	*	*	*	0
Direct Uses-Total Nonprocess	888	0	*	4	*	0
Facility HVAC (f)	352	0	*	3	*	0
Facility Lighting	416	--	--	--	--	--
Other Facility Support	94	0	0	*	*	0
Onsite Transportation	16	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	Q	0	0	*	*	0
End Use Not Reported	12	0	*	*	*	0

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	41,107	*	*	114	*	0
Indirect Uses-Boiler Fuel	117	*	0	26	*	0
Conventional Boiler Use	117	*	0	2	*	0
CHP and/or Cogeneration Process	--	0	0	24	*	0

Direct Uses-Total Process	33,837	*	*	78	*	0
Process Heating	1,647	*	*	72	*	0
Process Cooling and Refrigeration	169	0	*	*	0	0
Machine Drive	4,961	0	*	5	*	0
Electro-Chemical Processes	26,949	--	--	--	--	--
Other Process Use	110	0	*	*	*	0
Direct Uses-Total Nonprocess	7,051	*	*	9	*	0
Facility HVAC (f)	4,501	*	*	7	*	0
Facility Lighting	2,022	--	--	--	--	--
Other Facility Support	458	0	0	2	*	0
Onsite Transportation	7	--	*	1	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	64	0	*	0	*	0
End Use Not Reported	103	0	*	2	*	0
331314 Secondary Smelting and Alloying of Aluminum						
TOTAL FUEL CONSUMPTION	847	0	*	16	*	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	678	0	*	14	*	0
Process Heating	200	0	*	14	*	0
Process Cooling and Refrigeration	31	0	0	0	0	0
Machine Drive	426	0	*	*	*	0
Electro-Chemical Processes	3	--	--	--	--	--
Other Process Use	18	0	*	0	*	0
Direct Uses-Total Nonprocess	162	0	*	1	*	0
Facility HVAC (f)	59	0	*	1	*	0
Facility Lighting	81	--	--	--	--	--
Other Facility Support	19	0	0	*	0	0
Onsite Transportation	2	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	*	0	*	0	*	0
End Use Not Reported	6	0	0	1	*	0
331315 Aluminum Sheet, Plate and Foils						
TOTAL FUEL CONSUMPTION	4,504	*	*	44	*	0
Indirect Uses-Boiler Fuel	1	0	0	2	0	0
Conventional Boiler Use	1	0	0	2	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	3,929	*	*	37	*	0
Process Heating	768	*	0	33	*	0
Process Cooling and Refrigeration	58	0	*	*	0	0
Machine Drive	3,078	0	*	3	0	0
Electro-Chemical Processes	12	--	--	--	--	--
Other Process Use	13	0	0	*	*	0
Direct Uses-Total Nonprocess	573	0	*	5	*	0
Facility HVAC (f)	268	0	0	4	0	0
Facility Lighting	225	--	--	--	--	--
Other Facility Support	70	0	0	1	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	0	0	0	0
Other Nonprocess Use	7	0	*	0	0	0
End Use Not Reported	0	0	0	0	0	0
331318 Other Aluminum Rolling, Drawing and Extruding						
TOTAL FUEL CONSUMPTION	1,744	*	*	13	*	0
Indirect Uses-Boiler Fuel	24	0	0	1	*	0
Conventional Boiler Use	24	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	0	*	*	0
Direct Uses-Total Process	1,301	0	*	11	*	0
Process Heating	325	0	0	10	*	0
Process Cooling and Refrigeration	65	0	0	*	0	0
Machine Drive	862	0	*	*	*	0
Electro-Chemical Processes	39	--	--	--	--	--
Other Process Use	9	0	*	*	*	0
Direct Uses-Total Nonprocess	322	*	*	1	*	0
Facility HVAC (f)	134	*	*	1	*	0
Facility Lighting	154	--	--	--	--	--
Other Facility Support	30	0	0	*	*	0
Onsite Transportation	2	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	2	0	*	0	0	0

End Use Not Reported	97	0	*	*	*	0
3314 Nonferrous Metals, except Aluminum						
TOTAL FUEL CONSUMPTION	13,054	0	*	41	*	*
Indirect Uses-Boiler Fuel	59	0	*	8	*	0
Conventional Boiler Use	59	0	*	4	*	0
CHP and/or Cogeneration Process	--	0	*	5	*	0
Direct Uses-Total Process	11,652	0	*	29	*	*
Process Heating	5,644	0	*	28	*	0
Process Cooling and Refrigeration	400	0	0	0	0	0
Machine Drive	2,950	0	*	*	*	0
Electro-Chemical Processes	1,814	--	--	--	--	--
Other Process Use	844	0	*	*	*	*
Direct Uses-Total Nonprocess	1,319	0	*	4	*	0
Facility HVAC (f)	611	0	*	3	*	0
Facility Lighting	435	--	--	--	--	--
Other Facility Support	118	0	*	*	*	0
Onsite Transportation	10	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	145	0	*	*	*	0
End Use Not Reported	24	0	0	0	*	0
331410 Nonferrous Metal (except Aluminum) Smelting and Refining						
TOTAL FUEL CONSUMPTION	7,821	0	*	16	*	*
Indirect Uses-Boiler Fuel	26	0	*	6	0	0
Conventional Boiler Use	26	0	*	2	0	0
CHP and/or Cogeneration Process	--	0	*	4	0	0
Direct Uses-Total Process	7,337	0	*	9	*	*
Process Heating	4,064	0	*	8	*	0
Process Cooling and Refrigeration	286	0	0	0	0	0
Machine Drive	569	0	*	*	0	0
Electro-Chemical Processes	1,679	--	--	--	--	--
Other Process Use	739	0	*	*	*	*
Direct Uses-Total Nonprocess	458	0	*	1	*	0
Facility HVAC (f)	164	0	0	1	*	0
Facility Lighting	122	--	--	--	--	--
Other Facility Support	37	0	0	*	*	0
Onsite Transportation	1	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	134	0	*	0	*	0
End Use Not Reported	*	0	0	0	*	0
3315 Foundries						
TOTAL FUEL CONSUMPTION	13,241	*	*	54	*	*
Indirect Uses-Boiler Fuel	84	0	*	1	*	0
Conventional Boiler Use	84	0	*	1	*	0
CHP and/or Cogeneration Process	--	0	*	1	*	0
Direct Uses-Total Process	10,548	*	*	41	*	*
Process Heating	6,259	0	*	39	*	*
Process Cooling and Refrigeration	238	0	0	*	*	0
Machine Drive	3,779	*	*	1	*	0
Electro-Chemical Processes	58	--	--	--	--	--
Other Process Use	215	0	*	1	*	0
Direct Uses-Total Nonprocess	2,484	*	*	12	*	0
Facility HVAC (f)	1,373	*	*	11	*	0
Facility Lighting	811	--	--	--	--	--
Other Facility Support	209	0	*	1	*	0
Onsite Transportation	45	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	46	0	*	*	*	0
End Use Not Reported	124	0	*	*	*	0
331511 Iron Foundries						
TOTAL FUEL CONSUMPTION	6,055	*	*	15	*	*
Indirect Uses-Boiler Fuel	7	0	*	*	*	0
Conventional Boiler Use	7	0	0	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	4,761	0	*	9	*	*
Process Heating	2,983	0	*	8	*	*
Process Cooling and Refrigeration	47	0	0	0	0	0
Machine Drive	1,597	0	*	*	*	0
Electro-Chemical Processes	11	--	--	--	--	--

Other Process Use	122	0	0	1	*	0
Direct Uses-Total Nonprocess	1,286	*	*	6	*	0
Facility HVAC (f)	783	*	*	6	*	0
Facility Lighting	380	--	--	--	--	--
Other Facility Support	84	0	*	*	*	0
Onsite Transportation	16	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	24	0	*	*	*	0
End Use Not Reported	*	0	*	*	*	0

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	2,105	0	*	16	*	0
Indirect Uses-Boiler Fuel	2	0	0	1	0	0
Conventional Boiler Use	2	0	0	*	0	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	1,580	0	*	13	*	0
Process Heating	571	0	0	13	*	0
Process Cooling and Refrigeration	77	0	0	*	0	0
Machine Drive	910	0	*	*	*	0
Electro-Chemical Processes	4	--	--	--	--	--
Other Process Use	17	0	*	*	*	0
Direct Uses-Total Nonprocess	478	0	*	3	*	0
Facility HVAC (f)	219	0	*	2	*	0
Facility Lighting	179	--	--	--	--	--
Other Facility Support	56	0	*	*	*	0
Onsite Transportation	4	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	20	0	*	*	0	0
End Use Not Reported	47	0	0	0	*	0

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	793	*	*	8	*	0
Indirect Uses-Boiler Fuel	3	0	*	*	*	0
Conventional Boiler Use	3	0	*	*	*	0
CHP and/or Cogeneration Process	--	0	*	*	*	0
Direct Uses-Total Process	598	*	*	7	*	0
Process Heating	247	0	*	7	*	0
Process Cooling and Refrigeration	26	0	0	*	0	0
Machine Drive	317	*	*	*	*	0
Electro-Chemical Processes	4	--	--	--	--	--
Other Process Use	4	0	*	*	*	0
Direct Uses-Total Nonprocess	179	0	*	1	*	0
Facility HVAC (f)	72	0	*	1	*	0
Facility Lighting	77	--	--	--	--	--
Other Facility Support	25	0	0	*	*	0
Onsite Transportation	3	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	1	0	0	0	*	0
End Use Not Reported	13	0	0	*	*	0

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	43,683	0	*	186	2	0
Indirect Uses-Boiler Fuel	Q	0	0	19	*	0
Conventional Boiler Use	Q	0	0	Q	*	0
CHP and/or Cogeneration Process	--	0	0	15	*	0
Direct Uses-Total Process	29,714	0	*	115	*	0
Process Heating	6,410	0	*	108	*	0
Process Cooling and Refrigeration	1,376	0	0	*	0	0
Machine Drive	18,745	0	*	Q	*	0
Electro-Chemical Processes	1,648	--	--	--	--	--
Other Process Use	1,535	0	*	Q	*	0
Direct Uses-Total Nonprocess	12,617	0	*	46	1	0
Facility HVAC (f)	6,634	0	*	44	*	0
Facility Lighting	4,179	--	--	--	--	--
Other Facility Support	1,426	0	*	2	*	0
Onsite Transportation	291	--	*	*	1	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	86	0	*	*	*	0
End Use Not Reported	Q	0	0	Q	*	0

333 MACHINERY

TOTAL FUEL CONSUMPTION	23,758	*	1	70	1	*
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Indirect Uses-Boiler Fuel	223	0	*	14	*	*
Conventional Boiler Use	223	0	*	4	0	0
CHP and/or Cogeneration Process	--	0	*	10	*	*
Direct Uses-Total Process	13,929	0	1	24	*	0
Process Heating	2,289	0	0	18	*	0
Process Cooling and Refrigeration	942	0	*	*	*	0
Machine Drive	9,923	0	*	2	*	0
Electro-Chemical Processes	236	--	--	--	--	--
Other Process Use	540	0	1	Q	*	0
Direct Uses-Total Nonprocess	9,251	*	*	31	*	0
Facility HVAC (f)	4,781	*	*	30	*	0
Facility Lighting	3,268	--	--	--	--	--
Other Facility Support	858	0	*	1	*	0
Onsite Transportation	233	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	Q	*	*	*	*	0
End Use Not Reported	Q	0	*	Q	*	0

334 COMPUTER AND ELECTRONIC PRODUCTS

TOTAL FUEL CONSUMPTION	32,864	*	*	45	*	0
Indirect Uses-Boiler Fuel	292	0	*	15	*	0
Conventional Boiler Use	292	0	*	11	*	0
CHP and/or Cogeneration Process	--	0	0	4	*	0
Direct Uses-Total Process	18,444	0	*	13	*	0
Process Heating	3,914	0	*	9	*	0
Process Cooling and Refrigeration	3,835	0	0	*	0	0
Machine Drive	7,491	0	*	*	*	0
Electro-Chemical Processes	756	--	--	--	--	--
Other Process Use	2,447	0	*	4	*	0
Direct Uses-Total Nonprocess	13,406	*	*	16	*	0
Facility HVAC (f)	8,005	*	*	15	*	0
Facility Lighting	3,044	--	--	--	--	--
Other Facility Support	1,631	0	*	1	*	0
Onsite Transportation	86	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	640	0	*	1	*	0
End Use Not Reported	722	0	0	*	*	0

334413 Semiconductors and Related Devices

TOTAL FUEL CONSUMPTION	19,135	*	*	24	*	0
Indirect Uses-Boiler Fuel	198	0	*	9	*	0
Conventional Boiler Use	198	0	*	7	*	0
CHP and/or Cogeneration Process	--	0	0	2	*	0
Direct Uses-Total Process	11,761	0	*	6	*	0
Process Heating	2,298	0	0	3	0	0
Process Cooling and Refrigeration	2,631	0	0	*	0	0
Machine Drive	4,510	0	*	*	*	0
Electro-Chemical Processes	547	--	--	--	--	--
Other Process Use	1,775	0	*	3	0	0
Direct Uses-Total Nonprocess	6,901	*	*	8	*	0
Facility HVAC (f)	4,429	*	*	7	*	0
Facility Lighting	1,120	--	--	--	--	--
Other Facility Support	794	0	*	*	*	0
Onsite Transportation	6	--	*	0	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	551	0	*	1	*	0
End Use Not Reported	275	0	0	*	0	0

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	11,764	0	*	26	*	0
Indirect Uses-Boiler Fuel	55	0	0	3	*	0
Conventional Boiler Use	55	0	0	2	*	0
CHP and/or Cogeneration Process	--	0	0	Q	0	0
Direct Uses-Total Process	8,174	0	*	16	*	0
Process Heating	2,730	0	*	16	*	0
Process Cooling and Refrigeration	761	0	0	*	0	0
Machine Drive	3,328	0	*	*	*	0
Electro-Chemical Processes	922	--	--	--	--	--
Other Process Use	433	0	0	*	0	0
Direct Uses-Total Nonprocess	3,517	0	*	6	*	0
Facility HVAC (f)	1,966	0	*	6	*	0
Facility Lighting	1,164	--	--	--	--	--
Other Facility Support	269	0	*	*	*	0

Onsite Transportation	82	--	*	0	*	--
Conventional Electricity Generation	--	0	*	0	*	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	Q	0	*	0	*	0

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	45,584	*	1	141	1	*
Indirect Uses-Boiler Fuel	377	*	*	23	*	*
Conventional Boiler Use	377	*	*	17	*	*
CHP and/or Cogeneration Process	--	0	*	7	0	*
Direct Uses-Total Process	27,329	0	*	63	*	0
Process Heating	4,983	0	*	55	*	0
Process Cooling and Refrigeration	2,283	0	0	*	*	0
Machine Drive	17,541	0	*	Q	*	0
Electro-Chemical Processes	293	--	--	--	--	--
Other Process Use	2,227	0	*	5	*	0
Direct Uses-Total Nonprocess	17,168	0	*	53	1	0
Facility HVAC (f)	8,503	0	*	47	*	0
Facility Lighting	5,694	--	--	--	--	--
Other Facility Support	1,791	0	*	2	*	0
Onsite Transportation	638	--	*	*	1	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	542	0	*	Q	*	0
End Use Not Reported	710	0	*	2	*	0

336111 Automobiles

TOTAL FUEL CONSUMPTION	3,631	0	*	18	*	*
Indirect Uses-Boiler Fuel	62	0	*	2	*	*
Conventional Boiler Use	62	0	0	2	*	*
CHP and/or Cogeneration Process	--	0	*	*	0	0
Direct Uses-Total Process	2,265	0	*	11	*	0
Process Heating	223	0	0	10	*	0
Process Cooling and Refrigeration	295	0	0	0	0	0
Machine Drive	1,569	0	*	0	0	0
Electro-Chemical Processes	100	--	--	--	--	--
Other Process Use	78	0	*	1	0	0
Direct Uses-Total Nonprocess	1,300	0	*	5	*	0
Facility HVAC (f)	653	0	*	4	*	0
Facility Lighting	481	--	--	--	--	--
Other Facility Support	124	0	*	*	*	0
Onsite Transportation	41	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	0	0
Other Nonprocess Use	1	0	*	0	0	0
End Use Not Reported	4	0	0	*	0	0

336112 Light Trucks and Utility Vehicles

TOTAL FUEL CONSUMPTION	3,656	0	*	24	*	*
Indirect Uses-Boiler Fuel	21	0	0	5	0	*
Conventional Boiler Use	21	0	0	4	0	*
CHP and/or Cogeneration Process	--	0	0	1	0	0
Direct Uses-Total Process	2,391	0	*	14	*	0
Process Heating	71	0	0	13	0	0
Process Cooling and Refrigeration	420	0	0	*	0	0
Machine Drive	1,600	0	*	*	0	0
Electro-Chemical Processes	27	--	--	--	--	--
Other Process Use	273	0	*	1	*	0
Direct Uses-Total Nonprocess	1,244	0	*	6	*	0
Facility HVAC (f)	666	0	0	5	*	0
Facility Lighting	449	--	--	--	--	--
Other Facility Support	94	0	*	*	0	0
Onsite Transportation	34	--	*	*	*	--
Conventional Electricity Generation	--	0	*	0	0	0
Other Nonprocess Use	2	0	*	0	*	0
End Use Not Reported	0	0	*	0	0	0

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	9,645	*	*	28	*	0
Indirect Uses-Boiler Fuel	85	*	*	11	*	0
Conventional Boiler Use	85	*	*	7	*	0
CHP and/or Cogeneration Process	--	0	*	4	0	0
Direct Uses-Total Process	4,506	0	*	5	*	0
Process Heating	1,345	0	*	4	*	0

Process Cooling and Refrigeration	569	0	0	*	*	0
Machine Drive	2,153	0	*	*	*	0
Electro-Chemical Processes	49	--	--	--	--	--
Other Process Use	390	0	*	1	*	0
Direct Uses-Total Nonprocess	4,861	0	*	12	*	0
Facility HVAC (f)	2,300	0	*	10	*	0
Facility Lighting	1,840	--	--	--	--	--
Other Facility Support	567	0	*	1	*	0
Onsite Transportation	89	--	*	*	*	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	Q	0	*	*	*	0
End Use Not Reported	192	0	*	*	*	0
336411 Aircraft						
TOTAL FUEL CONSUMPTION	3,198	*	*	10	*	0
Indirect Uses-Boiler Fuel	42	*	*	3	*	0
Conventional Boiler Use	42	*	*	3	*	0
CHP and/or Cogeneration Process	--	0	0	*	0	0
Direct Uses-Total Process	1,026	0	*	1	*	0
Process Heating	175	0	*	1	*	0
Process Cooling and Refrigeration	107	0	0	*	*	0
Machine Drive	618	0	*	*	*	0
Electro-Chemical Processes	5	--	--	--	--	--
Other Process Use	Q	0	0	*	0	0
Direct Uses-Total Nonprocess	2,003	0	*	5	*	0
Facility HVAC (f)	857	0	*	5	*	0
Facility Lighting	778	--	--	--	--	--
Other Facility Support	282	0	0	*	*	0
Onsite Transportation	28	--	*	*	*	--
Conventional Electricity Generation	--	0	0	*	0	0
Other Nonprocess Use	Q	0	*	*	0	0
End Use Not Reported	126	0	0	*	*	0
337 FURNITURE AND RELATED PRODUCTS						
TOTAL FUEL CONSUMPTION	5,169	0	*	14	*	*
Indirect Uses-Boiler Fuel	59	0	*	Q	*	*
Conventional Boiler Use	59	0	0	*	*	*
CHP and/or Cogeneration Process	--	0	*	Q	*	0
Direct Uses-Total Process	2,898	0	*	6	*	*
Process Heating	186	0	*	6	*	*
Process Cooling and Refrigeration	82	0	0	*	*	0
Machine Drive	2,524	0	0	*	*	0
Electro-Chemical Processes	18	--	--	--	--	--
Other Process Use	Q	0	0	0	*	0
Direct Uses-Total Nonprocess	2,083	0	*	7	*	*
Facility HVAC (f)	1,006	0	*	7	*	*
Facility Lighting	835	--	--	--	--	--
Other Facility Support	165	0	*	*	*	0
Onsite Transportation	54	--	*	*	*	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	23	0	*	*	*	0
End Use Not Reported	Q	0	0	*	*	0
339 MISCELLANEOUS						
TOTAL FUEL CONSUMPTION	8,863	*	*	25	*	0
Indirect Uses-Boiler Fuel	141	0	*	Q	0	0
Conventional Boiler Use	141	0	*	1	0	0
CHP and/or Cogeneration Process	--	0	*	Q	0	0
Direct Uses-Total Process	4,781	0	*	5	*	0
Process Heating	1,022	0	*	4	*	0
Process Cooling and Refrigeration	630	0	0	*	*	0
Machine Drive	2,899	0	*	*	*	0
Electro-Chemical Processes	62	--	--	--	--	--
Other Process Use	167	0	*	Q	*	0
Direct Uses-Total Nonprocess	3,864	*	*	9	*	0
Facility HVAC (f)	2,133	*	*	6	*	0
Facility Lighting	1,229	--	--	--	--	--
Other Facility Support	430	*	0	1	*	0
Onsite Transportation	51	--	*	*	*	--
Conventional Electricity Generation	--	0	*	Q	*	0
Other Nonprocess Use	21	0	*	*	*	0
End Use Not Reported	Q	0	0	*	*	0

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

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

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

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

(e) Hydrocarbon Gas Liquids '(HGL)' include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids (NGL).

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

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

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

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

RSE Table 5.3 Relative Standard Errors for Table 5.3;

Unit: Percents.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	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	1.1	2.2	5.4	0.8	2.8	1.1
	Indirect Uses-Boiler Fuel	2.7	2.9	7.3	1.0	3.6	1.3
	Conventional Boiler Use	2.7	0.4	6.3	2.1	4.6	1.6
	CHP and/or Cogeneration Process	--	6.1	10.0	1.1	5.8	1.5
	Direct Uses-Total Process	1.0	2.7	10.6	1.0	2.9	1.8
	Process Heating	2.1	1.6	7.5	1.1	2.1	2.0
	Process Cooling and Refrigeration	1.7	73.1	10.3	5.7	27.2	X
	Machine Drive	1.2	0.1	13.7	3.8	26.1	23.0
	Electro-Chemical Processes	1.1	--	--	--	--	--
	Other Process Use	4.5	42.3	25.7	3.3	16.9	0.1
	Direct Uses-Total Nonprocess	2.1	2.3	6.7	2.5	6.0	12.2
	Facility HVAC (f)	2.3	4.0	16.4	2.7	17.0	20.2
	Facility Lighting	2.4	--	--	--	--	--
	Other Facility Support	3.7	40.2	44.8	3.0	14.8	0.1
	Onsite Transportation	4.6	--	4.5	9.0	5.3	--
	Conventional Electricity Generation	--	0.1	38.1	17.4	14.5	0.1
	Other Nonprocess Use	14.2	63.0	28.4	27.9	29.9	0.1
	End Use Not Reported	10.5	0.1	23.2	7.3	12.6	4.2
311	FOOD						
	TOTAL FUEL CONSUMPTION	2.3	16.2	11.0	3.1	12.2	0.1
	Indirect Uses-Boiler Fuel	8.2	17.6	16.0	2.5	14.5	0.1
	Conventional Boiler Use	8.2	1.9	9.9	4.3	19.4	0.1
	CHP and/or Cogeneration Process	--	40.8	21.5	3.2	21.8	0.2
	Direct Uses-Total Process	2.4	14.2	31.5	7.4	29.5	0.1
	Process Heating	7.9	26.5	45.1	8.2	28.0	0.1
	Process Cooling and Refrigeration	3.5	0.1	10.7	6.5	48.8	X
	Machine Drive	2.8	0.1	46.9	13.9	59.6	X
	Electro-Chemical Processes	14.1	--	--	--	--	--
	Other Process Use	12.9	X	73.0	7.2	8.9	X
	Direct Uses-Total Nonprocess	3.5	13.1	10.9	4.5	16.4	0.1
	Facility HVAC (f)	4.5	4.1	6.3	6.0	42.1	0.1
	Facility Lighting	4.1	--	--	--	--	--
	Other Facility Support	5.0	41.3	4.6	4.7	29.5	0.1
	Onsite Transportation	7.8	--	14.6	36.1	11.9	--
	Conventional Electricity Generation	--	X	60.7	39.9	0.1	X
	Other Nonprocess Use	13.1	X	10.5	25.2	10.4	X
	End Use Not Reported	21.8	X	24.9	13.5	62.6	0.1
3112	Grain and Oilseed Milling						
	TOTAL FUEL CONSUMPTION	1.7	37.1	8.0	2.3	31.2	0.1
	Indirect Uses-Boiler Fuel	2.5	56.6	6.0	3.2	52.7	0.2
	Conventional Boiler Use	2.5	X	4.2	4.8	0.1	0.1
	CHP and/or Cogeneration Process	--	56.6	18.9	4.6	60.0	0.2
	Direct Uses-Total Process	1.8	44.0	30.0	3.7	47.8	0.1
	Process Heating	5.6	44.0	56.7	4.5	44.0	0.1
	Process Cooling and Refrigeration	3.0	X	80.5	9.2	X	X
	Machine Drive	1.9	X	15.5	13.3	89.3	X
	Electro-Chemical Processes	19.1	--	--	--	--	--
	Other Process Use	32.9	X	4.5	3.8	3.2	X
	Direct Uses-Total Nonprocess	2.8	44.7	5.6	4.8	15.7	0.1
	Facility HVAC (f)	3.8	44.7	22.7	5.4	41.2	0.1
	Facility Lighting	2.9	--	--	--	--	--
	Other Facility Support	3.2	X	82.3	6.3	58.5	0.1
	Onsite Transportation	13.0	--	3.6	0.1	9.8	--

Conventional Electricity Generation	--	X	9.3	0.1	0.1	X
Other Nonprocess Use	25.6	X	0.2	0.1	0.1	X
End Use Not Reported	52.3	X	93.7	93.7	17.3	0.1

311221 Wet Corn Milling

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

31131 Sugar

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

3114 Fruit and Vegetable Preserving and Specialty Foods

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

3115 Dairy Products

TOTAL FUEL CONSUMPTION	2.2	0.4	26.6	2.3	20.3	0.1
Indirect Uses-Boiler Fuel	8.6	0.5	22.7	2.8	32.7	X
Conventional Boiler Use	8.6	0.2	0.9	3.2	88.6	X

CHP and/or Cogeneration Process	--	57.2	38.8	4.9	34.8	X
Direct Uses-Total Process	2.5	0.1	64.6	4.5	11.3	0.1
Process Heating	7.0	0.1	93.6	4.4	17.3	0.1
Process Cooling and Refrigeration	4.0	0.1	33.2	11.6	X	X
Machine Drive	3.0	0.1	95.7	34.3	0.1	X
Electro-Chemical Processes	10.9	--	--	--	--	--
Other Process Use	6.6	X	55.2	23.2	0.1	X
Direct Uses-Total Nonprocess	3.3	0.1	21.2	6.2	17.3	0.1
Facility HVAC (f)	3.7	0.1	78.5	6.8	28.3	0.1
Facility Lighting	3.3	--	--	--	--	--
Other Facility Support	7.0	X	X	9.5	95.6	X
Onsite Transportation	7.8	--	19.7	0.1	14.5	--
Conventional Electricity Generation	--	X	65.6	X	X	X
Other Nonprocess Use	19.6	X	30.3	17.5	0.1	X
End Use Not Reported	12.5	X	58.6	13.3	38.0	X

3116 Animal Slaughtering and Processing

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

312 BEVERAGE AND TOBACCO PRODUCTS

TOTAL FUEL CONSUMPTION	7.4	0.1	18.5	4.4	10.3	0.1
Indirect Uses-Boiler Fuel	4.6	0.1	33.5	3.0	36.2	0.1
Conventional Boiler Use	4.6	0.1	33.6	3.1	69.1	0.1
CHP and/or Cogeneration Process	--	X	61.3	6.4	22.9	0.1
Direct Uses-Total Process	5.6	X	71.7	17.8	26.2	0.1
Process Heating	10.0	X	60.2	19.3	19.7	0.1
Process Cooling and Refrigeration	10.4	X	X	54.3	X	X
Machine Drive	3.6	X	87.6	19.1	61.1	X
Electro-Chemical Processes	10.2	--	--	--	--	--
Other Process Use	5.8	X	83.9	3.7	23.1	X
Direct Uses-Total Nonprocess	14.9	X	18.4	7.5	9.0	0.1
Facility HVAC (f)	9.7	X	24.4	7.6	27.6	0.1
Facility Lighting	15.5	--	--	--	--	--
Other Facility Support	22.1	X	0.1	25.4	46.1	X
Onsite Transportation	35.8	--	20.8	54.6	9.5	--
Conventional Electricity Generation	--	X	77.2	0.1	X	X
Other Nonprocess Use	12.0	X	52.8	1.8	16.9	X
End Use Not Reported	9.6	X	0.1	7.6	8.4	X

3121 Beverages

TOTAL FUEL CONSUMPTION	8.2	X	19.8	5.0	11.0	0.1
Indirect Uses-Boiler Fuel	4.8	X	40.9	3.4	41.1	0.1
Conventional Boiler Use	4.8	X	50.2	3.6	69.2	0.1
CHP and/or Cogeneration Process	--	X	62.0	6.7	30.0	0.1
Direct Uses-Total Process	6.0	X	74.3	20.6	29.3	X
Process Heating	11.1	X	75.8	22.3	19.8	X
Process Cooling and Refrigeration	10.6	X	X	81.0	X	X
Machine Drive	4.1	X	87.7	19.8	68.5	X
Electro-Chemical Processes	10.4	--	--	--	--	--
Other Process Use	6.0	X	83.9	4.2	33.2	X
Direct Uses-Total Nonprocess	17.8	X	18.6	8.6	9.5	X
Facility HVAC (f)	12.5	X	24.5	8.2	28.5	X

Facility Lighting	17.9	--	--	--	--	--
Other Facility Support	25.7	X	X	26.8	46.1	X
Onsite Transportation	37.0	--	20.9	57.8	10.1	--
Conventional Electricity Generation	--	X	81.6	0.1	X	X
Other Nonprocess Use	12.5	X	54.7	18.6	21.5	X
End Use Not Reported	9.6	X	0.1	7.6	8.4	X

3122 Tobacco

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

313 TEXTILE MILLS

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

314 TEXTILE PRODUCT MILLS

TOTAL FUEL CONSUMPTION	9.0	0.1	18.8	16.6	50.0	9.7
Indirect Uses-Boiler Fuel	28.6	0.1	18.4	21.3	17.9	9.7
Conventional Boiler Use	28.6	X	28.9	31.5	42.5	31.1
CHP and/or Cogeneration Process	--	0.1	0.1	18.1	0.1	7.2
Direct Uses-Total Process	10.3	X	37.6	14.9	40.3	X
Process Heating	13.0	X	0.1	15.2	46.6	X
Process Cooling and Refrigeration	18.3	X	X	X	X	X
Machine Drive	11.4	X	79.6	81.0	99.4	X
Electro-Chemical Processes	3.6	--	--	--	--	--
Other Process Use	36.0	X	0.1	40.0	62.3	X
Direct Uses-Total Nonprocess	13.6	X	28.6	42.7	28.8	X
Facility HVAC (f)	17.1	X	0.1	43.2	71.3	X
Facility Lighting	13.5	--	--	--	--	--
Other Facility Support	27.6	X	0.1	36.6	0.1	X
Onsite Transportation	15.2	--	38.7	X	32.6	--
Conventional Electricity Generation	--	X	45.2	X	X	X
Other Nonprocess Use	82.7	X	0.1	X	84.7	X
End Use Not Reported	97.8	X	94.3	0.1	89.9	X

315 APPAREL

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

316 LEATHER AND ALLIED PRODUCTS

TOTAL FUEL CONSUMPTION	7.4	67.2	12.4	5.4	8.8	X
Indirect Uses-Boiler Fuel	46.8	78.4	0.1	9.9	X	X
Conventional Boiler Use	46.8	X	X	32.3	X	X
CHP and/or Cogeneration Process	--	78.4	0.1	9.8	X	X
Direct Uses-Total Process	7.9	89.5	47.8	7.4	2.1	X
Process Heating	23.7	X	47.8	8.1	0.1	X
Process Cooling and Refrigeration	21.4	X	X	X	X	X
Machine Drive	7.4	X	X	12.1	X	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	42.8	89.5	X	0.1	57.9	X
Direct Uses-Total Nonprocess	7.3	X	15.2	12.5	15.1	X
Facility HVAC (f)	9.8	X	15.9	11.9	23.6	X
Facility Lighting	8.9	--	--	--	--	--
Other Facility Support	19.0	X	X	47.6	0.1	X
Onsite Transportation	15.4	--	53.6	X	8.5	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	25.9	X	0.1	X	X	X
End Use Not Reported	51.0	X	X	10.8	55.2	X

321 WOOD PRODUCTS

TOTAL FUEL CONSUMPTION	11.4	0.1	9.7	3.9	8.9	0.1
Indirect Uses-Boiler Fuel	6.1	X	10.6	7.7	33.6	0.1
Conventional Boiler Use	6.1	X	9.2	4.8	1.1	0.1
CHP and/or Cogeneration Process	--	X	35.7	11.1	49.7	0.1
Direct Uses-Total Process	11.2	0.1	30.8	4.8	14.6	0.1
Process Heating	3.5	0.1	19.7	5.4	13.2	0.1
Process Cooling and Refrigeration	9.1	X	69.0	0.1	X	X
Machine Drive	12.4	0.1	15.4	17.9	33.6	X
Electro-Chemical Processes	13.0	--	--	--	--	--
Other Process Use	16.0	0.1	71.5	0.1	45.5	X
Direct Uses-Total Nonprocess	15.0	X	8.0	10.3	11.5	X
Facility HVAC (f)	29.3	X	17.5	10.7	37.1	X
Facility Lighting	4.1	--	--	--	--	--
Other Facility Support	7.8	X	15.2	19.8	68.4	X
Onsite Transportation	12.5	--	8.3	21.9	10.2	--
Conventional Electricity Generation	--	X	11.5	85.5	0.2	X
Other Nonprocess Use	11.7	X	38.9	0.1	36.9	X
End Use Not Reported	13.2	X	63.5	59.6	35.2	X

321113 Sawmills

TOTAL FUEL CONSUMPTION	3.0	0.1	12.1	3.0	11.0	0.1
Indirect Uses-Boiler Fuel	3.1	X	1.0	6.1	21.7	X
Conventional Boiler Use	3.1	X	0.1	2.7	X	X
CHP and/or Cogeneration Process	--	X	1.5	17.2	21.7	X
Direct Uses-Total Process	3.3	0.1	8.9	3.5	20.9	0.1
Process Heating	2.6	0.1	10.1	3.6	25.9	0.1
Process Cooling and Refrigeration	2.6	X	X	X	X	X
Machine Drive	3.6	0.1	11.2	8.3	17.0	X
Electro-Chemical Processes	6.2	--	--	--	--	--
Other Process Use	1.4	X	31.3	X	4.5	X

Direct Uses-Total Nonprocess	5.9	X	5.1	4.7	3.8	X
Facility HVAC (f)	6.3	X	21.6	5.3	11.3	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	14.6	X	2.4	17.2	16.4	X
Onsite Transportation	7.9	--	5.2	0.1	3.5	--
Conventional Electricity Generation	--	X	13.2	86.9	0.1	X
Other Nonprocess Use	2.1	X	7.9	0.1	2.6	X
End Use Not Reported	13.0	X	79.4	X	38.2	X

3212 Veneer, Plywood, and Engineered Woods

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

321219 Reconstituted Wood Products

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

3219 Other Wood Products

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

TOTAL FUEL CONSUMPTION	0.9	0.1	0.8	1.1	9.0	0.1
Indirect Uses-Boiler Fuel	1.6	0.1	0.9	1.1	34.7	0.1
Conventional Boiler Use	1.6	0.1	8.1	4.5	X	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	1.1	34.7	0.1
Direct Uses-Total Process	0.9	0.1	5.5	2.2	14.2	0.1
Process Heating	5.8	0.1	12.5	2.6	15.9	0.1
Process Cooling and Refrigeration	5.4	X	X	0.1	X	X
Machine Drive	0.9	0.1	3.7	1.0	0.1	0.1
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	2.5	X	4.0	6.0	49.8	0.1
Direct Uses-Total Nonprocess	2.8	0.1	0.1	5.2	8.0	0.1
Facility HVAC (f)	4.5	0.1	0.1	6.6	19.6	0.1
Facility Lighting	2.1	--	--	--	--	--
Other Facility Support	2.7	X	39.5	6.0	19.8	X
Onsite Transportation	11.5	--	0.1	65.7	8.3	--
Conventional Electricity Generation	--	0.1	12.0	1.0	92.3	0.1
Other Nonprocess Use	51.1	0.1	0.3	50.4	6.0	X
End Use Not Reported	13.8	0.1	4.7	97.4	54.5	0.1

322110 Pulp Mills

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

322121 Paper Mills, except Newsprint

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	0.1
Conventional Boiler Use	0.1	0.1	0.1	0.1	X	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	0.1	0.1	0.1
Direct Uses-Total Process	0.1	0.1	0.1	0.1	0.1	0.1
Process Heating	0.1	0.1	0.1	0.1	0.1	0.1
Process Cooling and Refrigeration	0.1	X	X	0.1	X	X
Machine Drive	0.1	0.1	0.1	0.1	0.1	0.1
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	X	0.1
Direct Uses-Total Nonprocess	0.1	0.1	0.0	0.1	0.1	0.1
Facility HVAC (f)	0.1	0.1	0.1	0.1	0.1	0.1
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.1	X	0.1	0.1	0.1	X
Onsite Transportation	0.0	--	0.1	0.1	0.1	--
Conventional Electricity Generation	--	0.1	0.1	0.1	X	0.1
Other Nonprocess Use	X	0.1	0.1	0.1	0.1	X
End Use Not Reported	X	X	0.1	X	0.1	0.1

322122 Newsprint Mills

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

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

323 PRINTING AND RELATED SUPPORT

TOTAL FUEL CONSUMPTION	17.5	51.8	25.1	20.0	33.8	X
Indirect Uses-Boiler Fuel	33.9	51.8	69.0	16.4	45.3	X
Conventional Boiler Use	33.9	51.8	50.6	16.5	60.9	X
CHP and/or Cogeneration Process	--	X	72.0	32.8	65.0	X
Direct Uses-Total Process	19.5	X	72.2	25.4	71.3	X
Process Heating	15.0	X	X	27.2	77.9	X
Process Cooling and Refrigeration	24.9	X	X	98.2	X	X
Machine Drive	20.9	X	23.2	39.9	22.8	X
Electro-Chemical Processes	46.4	--	--	--	--	--
Other Process Use	26.6	X	84.7	69.4	66.1	X
Direct Uses-Total Nonprocess	15.9	X	27.9	26.5	26.9	X
Facility HVAC (f)	21.0	X	72.0	28.3	43.5	X
Facility Lighting	13.8	--	--	--	--	--
Other Facility Support	14.1	X	81.4	19.8	71.3	X
Onsite Transportation	25.4	--	7.1	67.7	29.6	--
Conventional Electricity Generation	--	X	65.2	92.5	X	X
Other Nonprocess Use	90.8	X	91.3	86.6	X	X
End Use Not Reported	59.9	X	X	49.5	77.6	X

324 PETROLEUM AND COAL PRODUCTS

TOTAL FUEL CONSUMPTION	0.1	5.2	1.7	0.3	0.2	0.1
Indirect Uses-Boiler Fuel	0.3	0.1	2.0	0.1	0.6	0.1
Conventional Boiler Use	0.3	0.1	4.9	0.1	0.1	X
CHP and/or Cogeneration Process	--	0.1	1.3	0.2	1.6	0.1
Direct Uses-Total Process	0.1	6.7	3.7	0.4	0.2	0.1
Process Heating	0.7	4.1	6.8	0.5	0.1	X
Process Cooling and Refrigeration	0.3	79.0	57.8	0.1	0.1	X
Machine Drive	0.1	0.1	4.4	2.7	30.2	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	3.7	61.5	14.6	0.3	3.7	0.1
Direct Uses-Total Nonprocess	0.4	0.1	1.1	2.0	6.6	0.1
Facility HVAC (f)	0.3	0.1	27.3	3.6	3.0	X
Facility Lighting	0.4	--	--	--	--	--
Other Facility Support	0.5	X	2.6	4.1	0.2	X
Onsite Transportation	21.8	--	1.1	40.2	9.3	--
Conventional Electricity Generation	--	X	0.5	0.1	6.7	X

	Other Nonprocess Use	2.1	X	1.1	1.8	0.1	0.1
	End Use Not Reported	1.4	0.1	17.6	0.2	1.1	X
324110	Petroleum Refineries						
	TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.1	0.1	0.1
	Indirect Uses-Boiler Fuel	0.1	0.1	0.1	0.1	0.1	0.1
	Conventional Boiler Use	0.1	0.1	0.1	0.1	0.1	X
	CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	0.1
	Direct Uses-Total Process	0.1	0.1	0.1	0.2	0.1	X
	Process Heating	0.5	0.1	0.1	0.2	0.1	X
	Process Cooling and Refrigeration	0.3	X	X	0.1	0.1	X
	Machine Drive	0.1	X	0.1	0.1	0.1	X
	Electro-Chemical Processes	0.1	--	--	--	--	--
	Other Process Use	0.1	X	0.1	0.1	0.1	X
	Direct Uses-Total Nonprocess	0.1	X	0.1	1.1	0.5	X
	Facility HVAC (f)	0.1	X	0.1	2.5	0.1	X
	Facility Lighting	0.2	--	--	--	--	--
	Other Facility Support	0.2	X	0.1	6.0	0.1	X
	Onsite Transportation	X	--	0.1	X	0.1	--
	Conventional Electricity Generation	--	X	0.1	0.1	6.7	X
	Other Nonprocess Use	0.1	X	0.1	0.1	X	X
	End Use Not Reported	0.1	0.1	0.1	0.1	0.1	X
324121	Asphalt Paving Mixture and Block						
	TOTAL FUEL CONSUMPTION	3.5	13.5	3.8	5.6	6.0	X
	Indirect Uses-Boiler Fuel	4.0	X	2.5	7.3	47.5	X
	Conventional Boiler Use	4.0	X	0.3	12.3	21.1	X
	CHP and/or Cogeneration Process	--	X	2.9	7.8	49.4	X
	Direct Uses-Total Process	3.6	13.5	5.3	6.4	4.8	X
	Process Heating	9.1	10.1	7.8	7.5	5.5	X
	Process Cooling and Refrigeration	6.6	79.0	57.8	0.1	X	X
	Machine Drive	3.6	0.1	8.2	9.8	11.5	X
	Electro-Chemical Processes	4.5	--	--	--	--	--
	Other Process Use	1.0	61.5	14.1	5.6	13.0	X
	Direct Uses-Total Nonprocess	5.4	0.1	3.9	8.9	26.9	X
	Facility HVAC (f)	6.7	0.1	11.4	9.5	32.4	X
	Facility Lighting	6.1	--	--	--	--	--
	Other Facility Support	4.7	X	3.9	11.9	11.0	X
	Onsite Transportation	19.7	--	4.4	59.7	49.8	--
	Conventional Electricity Generation	--	X	1.2	0.1	X	X
	Other Nonprocess Use	16.1	X	21.5	28.5	0.1	X
	End Use Not Reported	36.4	X	54.8	42.2	42.4	X
324122	Asphalt Shingle and Coating Materials						
	TOTAL FUEL CONSUMPTION	0.9	0.1	19.7	1.3	19.7	0.1
	Indirect Uses-Boiler Fuel	1.5	0.1	0.2	3.0	0.1	X
	Conventional Boiler Use	1.5	X	6.9	2.3	0.1	X
	CHP and/or Cogeneration Process	--	0.1	0.1	4.0	0.1	X
	Direct Uses-Total Process	0.7	X	45.9	1.1	65.5	0.1
	Process Heating	7.2	X	26.8	1.1	6.5	X
	Process Cooling and Refrigeration	2.2	X	X	0.1	X	X
	Machine Drive	0.5	X	68.7	0.1	79.6	X
	Electro-Chemical Processes	0.1	--	--	--	--	--
	Other Process Use	0.1	X	53.3	1.3	54.6	0.1
	Direct Uses-Total Nonprocess	2.4	X	0.1	1.3	4.0	X
	Facility HVAC (f)	0.7	X	0.1	1.3	0.1	X
	Facility Lighting	4.3	--	--	--	--	--
	Other Facility Support	2.8	X	0.1	2.3	0.1	X
	Onsite Transportation	0.4	--	0.1	0.1	4.2	--
	Conventional Electricity Generation	--	X	0.1	0.1	X	X
	Other Nonprocess Use	X	X	5.4	76.6	0.1	X
	End Use Not Reported	X	X	0.1	X	31.1	X
324199	Other Petroleum and Coal Products						
	TOTAL FUEL CONSUMPTION	0.0	X	0.0	0.0	0.0	0.0
	Indirect Uses-Boiler Fuel	0.0	X	0.0	0.0	0.0	X
	Conventional Boiler Use	0.0	X	0.0	0.0	X	X
	CHP and/or Cogeneration Process	--	X	0.0	0.0	0.0	X

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

325 CHEMICALS

TOTAL FUEL CONSUMPTION	1.4	4.8	4.2	1.0	6.5	3.3
Indirect Uses-Boiler Fuel	4.0	4.8	7.7	1.5	8.9	2.4
Conventional Boiler Use	4.0	0.2	15.3	3.9	7.0	2.4
CHP and/or Cogeneration Process	--	24.4	8.8	1.5	12.7	2.8
Direct Uses-Total Process	1.3	24.1	4.4	1.1	9.5	30.8
Process Heating	3.3	24.1	39.4	1.3	17.0	30.9
Process Cooling and Refrigeration	1.9	X	30.8	9.6	67.6	X
Machine Drive	1.8	X	3.6	2.1	39.9	70.3
Electro-Chemical Processes	0.7	--	--	--	--	--
Other Process Use	7.3	X	6.1	4.2	11.2	X
Direct Uses-Total Nonprocess	3.9	0.1	7.3	4.0	14.3	25.8
Facility HVAC (f)	4.1	0.1	68.0	4.1	36.3	25.8
Facility Lighting	5.0	--	--	--	--	--
Other Facility Support	3.7	X	2.3	6.7	19.6	X
Onsite Transportation	10.9	--	4.2	36.0	15.8	--
Conventional Electricity Generation	--	X	19.3	36.7	17.2	X
Other Nonprocess Use	17.4	X	6.2	34.3	42.6	X
End Use Not Reported	16.0	X	8.2	14.0	3.0	6.1

325110 Petrochemicals

TOTAL FUEL CONSUMPTION	0.1	X	0.1	0.1	0.3	X
Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	0.1	X
Conventional Boiler Use	0.1	X	0.1	0.1	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	0.1	0.1	X
Direct Uses-Total Process	0.1	X	0.1	0.1	0.1	X
Process Heating	0.1	X	X	0.1	0.1	X
Process Cooling and Refrigeration	0.1	X	X	0.1	X	X
Machine Drive	0.1	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	X	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	0.1	X	0.1	0.1	76.5	X
Facility HVAC (f)	0.2	X	0.1	0.1	85.3	X
Facility Lighting	0.1	--	--	--	--	--
Other Facility Support	0.2	X	0.1	0.1	X	X
Onsite Transportation	0.1	--	0.1	X	72.5	--
Conventional Electricity Generation	--	X	0.1	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	X	X	0.1	X	0.1	X

325120 Industrial Gases

TOTAL FUEL CONSUMPTION	6.9	X	37.8	1.4	50.2	X
Indirect Uses-Boiler Fuel	0.3	X	7.2	6.8	73.7	X
Conventional Boiler Use	0.3	X	0.1	0.5	X	X
CHP and/or Cogeneration Process	--	X	30.0	15.0	73.7	X
Direct Uses-Total Process	6.8	X	5.9	1.9	X	X
Process Heating	13.0	X	19.5	3.8	X	X
Process Cooling and Refrigeration	8.6	X	57.0	19.1	X	X
Machine Drive	7.1	X	0.2	0.8	X	X
Electro-Chemical Processes	24.5	--	--	--	--	--
Other Process Use	X	X	X	0.8	X	X
Direct Uses-Total Nonprocess	8.9	X	55.5	0.2	56.3	X
Facility HVAC (f)	2.9	X	88.5	0.2	34.2	X
Facility Lighting	8.4	--	--	--	--	--

Other Facility Support	25.7	X	19.1	36.3	37.3	X
Onsite Transportation	76.4	--	66.2	51.1	64.4	--
Conventional Electricity Generation	--	X	X	X	X	X
Other Nonprocess Use	85.4	X	13.9	X	X	X
End Use Not Reported	0.1	X	X	X	85.9	X

325180 Other Basic Inorganic Chemicals

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

325193 Ethyl Alcohol

TOTAL FUEL CONSUMPTION	3.1	X	25.8	3.8	8.6	2.6
Indirect Uses-Boiler Fuel	10.4	X	X	5.7	X	5.9
Conventional Boiler Use	10.4	X	X	10.1	X	0.1
CHP and/or Cogeneration Process	--	X	X	5.9	X	7.1
Direct Uses-Total Process	3.1	X	43.0	2.7	0.1	9.3
Process Heating	4.2	X	X	3.0	X	9.3
Process Cooling and Refrigeration	5.0	X	X	0.1	X	X
Machine Drive	3.0	X	43.0	29.1	0.1	X
Electro-Chemical Processes	7.2	--	--	--	--	--
Other Process Use	32.2	X	X	13.7	X	X
Direct Uses-Total Nonprocess	6.9	X	24.2	5.0	9.8	X
Facility HVAC (f)	11.7	X	X	5.9	71.6	X
Facility Lighting	4.3	--	--	--	--	--
Other Facility Support	4.3	X	0.1	6.8	0.1	X
Onsite Transportation	13.1	--	25.7	0.1	0.4	--
Conventional Electricity Generation	--	X	64.6	X	X	X
Other Nonprocess Use	X	X	6.7	0.1	X	X
End Use Not Reported	36.1	X	0.1	53.1	0.1	0.1

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

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

325199 Other Basic Organic Chemicals

TOTAL FUEL CONSUMPTION	2.2	0.1	2.6	1.4	18.8	5.7
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Indirect Uses-Boiler Fuel	8.6	0.1	13.5	1.3	0.2	0.2
Conventional Boiler Use	8.6	0.1	16.8	2.5	0.1	15.3
CHP and/or Cogeneration Process	--	X	0.1	1.7	74.2	0.1
Direct Uses-Total Process	1.5	X	1.3	2.6	23.1	X
Process Heating	7.6	X	0.2	3.4	24.5	X
Process Cooling and Refrigeration	2.5	X	X	34.9	74.2	X
Machine Drive	1.6	X	0.1	0.2	43.2	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	13.6	X	11.1	4.0	0.1	X
Direct Uses-Total Nonprocess	10.1	X	7.4	11.3	26.9	X
Facility HVAC (f)	7.2	X	63.8	3.7	83.8	X
Facility Lighting	14.8	--	--	--	--	--
Other Facility Support	3.1	X	1.3	3.7	46.2	X
Onsite Transportation	29.5	--	14.3	44.1	22.6	--
Conventional Electricity Generation	--	X	9.5	15.0	X	X
Other Nonprocess Use	46.2	X	6.1	82.0	80.9	X
End Use Not Reported	36.2	X	18.6	61.5	10.0	25.7

325211 Plastics Materials and Resins

TOTAL FUEL CONSUMPTION	1.6	17.8	5.0	0.8	4.4	32.4
Indirect Uses-Boiler Fuel	4.0	13.0	1.0	0.4	4.7	0.1
Conventional Boiler Use	4.0	49.0	3.0	3.4	0.1	0.1
CHP and/or Cogeneration Process	--	0.1	0.1	0.3	9.5	X
Direct Uses-Total Process	1.5	50.0	1.6	2.6	1.6	58.0
Process Heating	8.1	50.0	X	3.1	6.4	58.0
Process Cooling and Refrigeration	3.6	X	43.6	0.1	89.5	X
Machine Drive	2.1	X	1.6	0.3	65.1	X
Electro-Chemical Processes	1.1	--	--	--	--	--
Other Process Use	10.3	X	40.1	6.9	0.4	X
Direct Uses-Total Nonprocess	4.3	0.1	9.5	5.3	25.0	42.3
Facility HVAC (f)	4.3	0.1	15.9	6.8	27.4	42.3
Facility Lighting	5.5	--	--	--	--	--
Other Facility Support	5.6	X	20.8	4.2	23.6	X
Onsite Transportation	21.4	--	9.6	82.4	31.3	--
Conventional Electricity Generation	--	X	15.0	77.1	X	X
Other Nonprocess Use	2.0	X	14.3	72.5	1.3	X
End Use Not Reported	0.6	X	X	0.1	1.1	X

325212 Synthetic Rubber

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

325220 Artificial and Synthetic Fibers and Filaments

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

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

325311 Nitrogenous Fertilizers

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

325312 Phosphatic Fertilizers

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

3254 Pharmaceuticals and Medicines

TOTAL FUEL CONSUMPTION	10.5	X	31.9	2.5	23.2	23.2	0.1
Indirect Uses-Boiler Fuel	3.5	X	0.2	2.4	16.1	16.1	0.1
Conventional Boiler Use	3.5	X	0.1	4.8	0.4	0.4	0.1
CHP and/or Cogeneration Process	--	X	1.9	1.2	20.6	20.6	0.1
Direct Uses-Total Process	11.0	X	35.4	3.3	23.1	23.1	X
Process Heating	6.0	X	78.1	3.7	5.3	5.3	X
Process Cooling and Refrigeration	10.3	X	0.1	56.5	X	X	X
Machine Drive	13.6	X	0.1	47.6	0.1	0.1	X
Electro-Chemical Processes	2.3	--	--	--	--	--	--
Other Process Use	4.0	X	38.4	4.4	55.5	55.5	X
Direct Uses-Total Nonprocess	10.7	X	64.3	11.1	35.0	35.0	0.1
Facility HVAC (f)	9.8	X	82.8	12.3	25.7	25.7	0.1
Facility Lighting	16.7	--	--	--	--	--	--
Other Facility Support	3.1	X	19.7	3.0	8.8	8.8	X
Onsite Transportation	4.7	--	8.0	11.2	13.9	13.9	--
Conventional Electricity Generation	--	X	2.9	41.3	1.3	1.3	X
Other Nonprocess Use	8.3	X	9.9	8.3	66.5	66.5	X
End Use Not Reported	17.1	X	22.0	97.5	X	X	X

325412 Pharmaceutical Preparation

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

325992 Photographic Film, Paper, Plate, and Chemicals

TOTAL FUEL CONSUMPTION	0.7	0.0	0.1	3.2	39.7	X
Indirect Uses-Boiler Fuel	0.1	0.0	0.1	0.1	0.1	X
Conventional Boiler Use	0.1	X	X	0.1	X	X
CHP and/or Cogeneration Process	--	0.0	0.1	0.0	0.1	X
Direct Uses-Total Process	0.9	X	0.1	13.7	0.1	X
Process Heating	0.1	X	X	14.4	0.1	X
Process Cooling and Refrigeration	0.8	X	X	X	0.1	X
Machine Drive	1.3	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	X	0.1	X	X
Direct Uses-Total Nonprocess	0.4	X	0.1	0.6	0.1	X
Facility HVAC (f)	0.5	X	0.1	0.6	0.1	X
Facility Lighting	0.2	--	--	--	--	--
Other Facility Support	0.4	X	0.1	0.4	0.1	X
Onsite Transportation	1.6	--	0.1	X	0.1	--
Conventional Electricity Generation	--	X	0.0	0.1	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	0.1	X	X	0.1	60.4	X

326 PLASTICS AND RUBBER PRODUCTS

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

327 NONMETALLIC MINERAL PRODUCTS

TOTAL FUEL CONSUMPTION	3.5	5.6	16.9	4.1	14.9	0.9
Indirect Uses-Boiler Fuel	9.7	79.8	78.4	20.2	48.8	0.1
Conventional Boiler Use	9.7	X	85.6	17.2	66.5	X
CHP and/or Cogeneration Process	--	79.8	79.2	23.7	50.9	0.1
Direct Uses-Total Process	1.9	1.5	28.3	2.4	28.8	0.9
Process Heating	1.9	1.5	4.3	2.4	36.7	0.9
Process Cooling and Refrigeration	4.3	X	X	4.1	0.1	X

Machine Drive	2.4	X	34.9	14.2	47.8	30.3
Electro-Chemical Processes	32.2	--	--	--	--	--
Other Process Use	12.7	X	71.4	3.2	82.9	X
Direct Uses-Total Nonprocess	6.0	99.0	16.3	9.1	10.7	61.7
Facility HVAC (f)	8.0	99.0	26.5	9.7	27.6	61.7
Facility Lighting	5.4	--	--	--	--	--
Other Facility Support	7.6	X	13.9	13.1	69.0	X
Onsite Transportation	10.6	--	15.6	3.6	10.5	--
Conventional Electricity Generation	--	X	18.1	0.2	0.1	X
Other Nonprocess Use	14.8	X	48.6	0.1	65.4	X
End Use Not Reported	65.5	X	27.3	55.4	45.0	0.1

327120 Clay Building Material and Refractories

TOTAL FUEL CONSUMPTION	1.8	59.3	8.0	3.3	4.7	3.2
Indirect Uses-Boiler Fuel	22.1	X	X	4.1	X	X
Conventional Boiler Use	22.1	X	X	2.1	X	X
CHP and/or Cogeneration Process	--	X	X	4.7	X	X
Direct Uses-Total Process	1.8	59.3	3.4	3.6	0.7	3.5
Process Heating	3.6	59.3	34.4	3.6	1.5	3.5
Process Cooling and Refrigeration	13.4	X	X	X	X	X
Machine Drive	1.9	X	7.9	0.1	2.2	X
Electro-Chemical Processes	34.7	--	--	--	--	--
Other Process Use	0.3	X	0.5	0.9	0.1	X
Direct Uses-Total Nonprocess	5.4	X	9.7	3.3	4.2	X
Facility HVAC (f)	8.6	X	22.1	3.9	9.5	X
Facility Lighting	4.9	--	--	--	--	--
Other Facility Support	2.4	X	X	8.3	43.5	X
Onsite Transportation	3.2	--	5.0	11.6	4.4	--
Conventional Electricity Generation	--	X	51.3	0.1	0.1	X
Other Nonprocess Use	86.0	X	40.8	0.1	X	X
End Use Not Reported	0.1	X	0.1	0.1	33.0	0.1

327211 Flat Glass

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

327212 Other Pressed and Blown Glass and Glassware

TOTAL FUEL CONSUMPTION	1.0	X	0.1	0.9	0.5	X
Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	X	X
Conventional Boiler Use	0.1	X	0.1	0.5	X	X
CHP and/or Cogeneration Process	--	X	0.1	0.1	X	X
Direct Uses-Total Process	0.6	X	0.1	1.0	0.3	X
Process Heating	0.6	X	0.0	1.0	0.3	X
Process Cooling and Refrigeration	0.3	X	X	0.1	X	X
Machine Drive	1.4	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	4.2	X	0.2	4.1	0.5	X
Facility HVAC (f)	4.9	X	X	4.3	0.1	X
Facility Lighting	4.5	--	--	--	--	--
Other Facility Support	3.9	X	X	0.9	X	X
Onsite Transportation	0.3	--	0.3	0.1	0.6	--
Conventional Electricity Generation	--	X	0.1	X	X	X

Other Nonprocess Use	X	X	0.1	X	0.1	X
End Use Not Reported	X	X	X	X	18.4	X

327213 Glass Containers

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

327215 Glass Products from Purchased Glass

TOTAL FUEL CONSUMPTION	1.8	79.8	3.2	13.7	11.6	81.2
Indirect Uses-Boiler Fuel	1.1	79.8	2.1	4.6	60.1	X
Conventional Boiler Use	1.1	X	X	13.7	0.1	X
CHP and/or Cogeneration Process	--	79.8	2.1	2.0	68.5	X
Direct Uses-Total Process	2.0	X	32.7	9.5	1.3	X
Process Heating	3.4	X	X	10.0	1.3	X
Process Cooling and Refrigeration	1.4	X	X	56.8	X	X
Machine Drive	1.5	X	33.6	2.2	4.9	X
Electro-Chemical Processes	7.0	--	--	--	--	--
Other Process Use	8.2	X	0.1	0.1	17.0	X
Direct Uses-Total Nonprocess	2.2	X	1.4	39.5	16.7	81.2
Facility HVAC (f)	2.4	X	X	38.2	29.9	81.2
Facility Lighting	2.0	--	--	--	--	--
Other Facility Support	4.2	X	X	66.7	45.7	X
Onsite Transportation	1.5	--	2.6	0.1	9.5	--
Conventional Electricity Generation	--	X	3.9	7.9	0.1	X
Other Nonprocess Use	11.7	X	0.1	0.1	0.1	X
End Use Not Reported	0.3	X	1.3	1.5	2.9	X

327310 Cements

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

327410 Lime

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

	Direct Uses-Total Process	0.0	X	0.0	0.0	0.0	0.0
	Process Heating	0.0	X	0.0	0.0	0.0	0.0
	Process Cooling and Refrigeration	0.0	X	X	X	X	X
	Machine Drive	0.0	X	0.0	X	0.0	X
	Electro-Chemical Processes	X	--	--	--	--	--
	Other Process Use	0.0	X	0.0	X	0.0	X
	Direct Uses-Total Nonprocess	0.0	X	0.0	0.0	0.0	X
	Facility HVAC (f)	0.0	X	X	0.0	0.0	X
	Facility Lighting	0.0	--	--	--	--	--
	Other Facility Support	0.0	X	X	0.0	X	X
	Onsite Transportation	0.0	--	0.0	X	0.0	--
	Conventional Electricity Generation	--	X	X	X	X	X
	Other Nonprocess Use	X	X	X	X	X	X
	End Use Not Reported	0.0	X	0.0	X	0.0	X
327420	Gypsum						
	TOTAL FUEL CONSUMPTION	1.8	X	0.1	0.1	1.4	X
	Indirect Uses-Boiler Fuel	0.1	X	0.1	0.1	X	X
	Conventional Boiler Use	0.1	X	0.1	0.1	X	X
	CHP and/or Cogeneration Process	--	X	X	0.1	X	X
	Direct Uses-Total Process	2.1	X	0.1	0.1	X	X
	Process Heating	0.1	X	0.1	0.1	X	X
	Process Cooling and Refrigeration	0.1	X	X	X	X	X
	Machine Drive	2.3	X	0.1	0.1	X	X
	Electro-Chemical Processes	X	--	--	--	--	--
	Other Process Use	X	X	0.1	X	X	X
	Direct Uses-Total Nonprocess	1.1	X	0.1	0.1	1.4	X
	Facility HVAC (f)	1.5	X	0.1	0.1	0.1	X
	Facility Lighting	1.5	--	--	--	--	--
	Other Facility Support	0.1	X	0.1	0.1	0.1	X
	Onsite Transportation	0.1	--	0.1	X	1.4	--
	Conventional Electricity Generation	--	X	X	0.1	X	X
	Other Nonprocess Use	X	X	X	X	X	X
	End Use Not Reported	X	X	X	X	X	X
327993	Mineral Wool						
	TOTAL FUEL CONSUMPTION	0.6	X	8.0	0.8	3.8	X
	Indirect Uses-Boiler Fuel	0.9	X	0.1	0.0	X	X
	Conventional Boiler Use	0.9	X	X	0.1	X	X
	CHP and/or Cogeneration Process	--	X	0.1	0.1	X	X
	Direct Uses-Total Process	0.6	X	0.1	0.6	0.0	X
	Process Heating	0.1	X	X	0.6	0.1	X
	Process Cooling and Refrigeration	1.1	X	X	0.1	0.1	X
	Machine Drive	1.3	X	0.0	4.2	0.1	X
	Electro-Chemical Processes	0.1	--	--	--	--	--
	Other Process Use	0.1	X	0.1	0.1	0.1	X
	Direct Uses-Total Nonprocess	2.1	X	8.4	4.3	5.1	X
	Facility HVAC (f)	3.4	X	0.1	4.5	0.1	X
	Facility Lighting	1.3	--	--	--	--	--
	Other Facility Support	1.8	X	0.1	2.9	0.1	X
	Onsite Transportation	0.1	--	22.1	0.1	5.2	--
	Conventional Electricity Generation	--	X	0.1	X	X	X
	Other Nonprocess Use	0.1	X	0.1	0.1	57.4	X
	End Use Not Reported	0.1	X	X	0.1	0.1	X
331	PRIMARY METALS						
	TOTAL FUEL CONSUMPTION	1.1	0.1	0.8	0.6	2.5	0.1
	Indirect Uses-Boiler Fuel	2.3	0.1	0.1	0.8	12.6	X
	Conventional Boiler Use	2.3	0.1	0.1	2.7	0.1	X
	CHP and/or Cogeneration Process	--	0.1	0.1	0.2	14.5	X
	Direct Uses-Total Process	1.2	0.1	0.4	0.7	2.9	0.1
	Process Heating	1.6	0.1	0.7	0.7	3.4	0.1
	Process Cooling and Refrigeration	0.9	X	13.5	0.5	0.1	X
	Machine Drive	3.1	0.1	0.4	12.5	2.6	X
	Electro-Chemical Processes	0.1	--	--	--	--	--
	Other Process Use	1.1	X	1.9	0.1	8.1	0.1
	Direct Uses-Total Nonprocess	1.1	0.1	1.0	0.9	3.9	X
	Facility HVAC (f)	1.0	0.1	10.6	1.0	12.4	X
	Facility Lighting	1.5	--	--	--	--	--

Other Facility Support	1.9	X	11.2	0.6	2.9	X
Onsite Transportation	1.0	--	1.0	0.3	4.2	--
Conventional Electricity Generation	--	X	1.3	53.6	13.8	X
Other Nonprocess Use	2.4	X	0.1	0.2	8.2	X
End Use Not Reported	0.4	0.1	0.1	0.5	11.6	X

331110 Iron and Steel Mills and Ferroalloys

TOTAL FUEL CONSUMPTION	0.2	0.1	0.1	0.3	0.3	0.1
Indirect Uses-Boiler Fuel	1.3	0.1	X	1.2	0.1	X
Conventional Boiler Use	1.3	0.1	X	3.7	X	X
CHP and/or Cogeneration Process	--	0.1	X	0.1	0.1	X
Direct Uses-Total Process	0.2	X	0.1	0.2	0.1	0.1
Process Heating	0.1	X	0.1	0.3	0.1	0.1
Process Cooling and Refrigeration	0.1	X	X	0.1	0.1	X
Machine Drive	0.3	X	0.1	0.1	0.1	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	0.1
Direct Uses-Total Nonprocess	1.2	X	0.1	0.3	0.5	X
Facility HVAC (f)	0.8	X	0.1	0.4	0.1	X
Facility Lighting	1.9	--	--	--	--	--
Other Facility Support	0.4	X	X	0.1	0.1	X
Onsite Transportation	0.1	--	0.1	0.1	0.5	--
Conventional Electricity Generation	--	X	0.1	X	0.1	X
Other Nonprocess Use	0.1	X	0.1	0.1	0.1	X
End Use Not Reported	0.1	0.1	0.1	0.1	0.1	X

3312 Steel Products from Purchased Steel

TOTAL FUEL CONSUMPTION	18.6	X	6.2	5.8	13.8	X
Indirect Uses-Boiler Fuel	3.5	X	0.1	5.2	0.1	X
Conventional Boiler Use	3.5	X	X	7.5	X	X
CHP and/or Cogeneration Process	--	X	0.1	7.5	0.1	X
Direct Uses-Total Process	19.5	X	1.0	7.7	4.9	X
Process Heating	1.5	X	0.1	2.0	3.0	X
Process Cooling and Refrigeration	2.2	X	97.5	31.6	X	X
Machine Drive	29.2	X	0.1	85.8	10.3	X
Electro-Chemical Processes	35.8	--	--	--	--	--
Other Process Use	8.4	X	19.3	1.2	2.6	X
Direct Uses-Total Nonprocess	13.9	X	6.8	8.2	9.9	X
Facility HVAC (f)	11.1	X	46.9	8.6	68.0	X
Facility Lighting	14.8	--	--	--	--	--
Other Facility Support	26.2	X	X	6.4	3.0	X
Onsite Transportation	9.5	--	6.6	0.1	8.7	--
Conventional Electricity Generation	--	X	66.3	0.1	97.5	X
Other Nonprocess Use	73.6	X	X	0.1	0.5	X
End Use Not Reported	0.1	X	0.1	0.1	65.4	X

3313 Alumina and Aluminum

TOTAL FUEL CONSUMPTION	0.1	0.1	0.1	0.4	1.2	X
Indirect Uses-Boiler Fuel	0.4	0.1	X	1.2	2.8	X
Conventional Boiler Use	0.4	0.1	X	12.4	0.1	X
CHP and/or Cogeneration Process	--	X	X	0.1	33.9	X
Direct Uses-Total Process	0.1	0.1	0.1	0.2	0.9	X
Process Heating	0.3	0.1	0.1	0.2	1.4	X
Process Cooling and Refrigeration	4.3	X	0.1	16.0	X	X
Machine Drive	0.3	X	0.1	0.4	1.5	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.1	0.1	X
Direct Uses-Total Nonprocess	0.3	0.1	0.1	1.2	2.6	X
Facility HVAC (f)	0.2	0.1	0.1	0.4	5.1	X
Facility Lighting	0.5	--	--	--	--	--
Other Facility Support	0.6	X	X	0.2	13.6	X
Onsite Transportation	7.3	--	0.1	0.2	2.7	--
Conventional Electricity Generation	--	X	0.1	83.1	X	X
Other Nonprocess Use	0.1	X	0.1	X	0.1	X
End Use Not Reported	4.6	X	0.1	0.1	1.1	X

331314 Secondary Smelting and Alloying of Aluminum

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

331315 Aluminum Sheet, Plate and Foils

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

331318 Other Aluminum Rolling, Drawing and Extruding

TOTAL FUEL CONSUMPTION	0.7	0.1	0.3	1.2	2.5	X
Indirect Uses-Boiler Fuel	1.8	X	X	6.3	2.8	X
Conventional Boiler Use	1.8	X	X	10.6	0.1	X
CHP and/or Cogeneration Process	--	X	X	8.0	33.9	X
Direct Uses-Total Process	0.9	X	0.1	0.8	1.2	X
Process Heating	1.2	X	X	0.7	2.6	X
Process Cooling and Refrigeration	1.5	X	X	16.9	X	X
Machine Drive	1.0	X	0.1	6.3	1.6	X
Electro-Chemical Processes	1.9	--	--	--	--	--
Other Process Use	0.1	X	0.1	0.0	0.0	X
Direct Uses-Total Nonprocess	0.9	0.1	0.3	7.5	3.7	X
Facility HVAC (f)	0.9	0.1	0.1	2.1	8.0	X
Facility Lighting	1.2	--	--	--	--	--
Other Facility Support	2.2	X	X	5.7	33.9	X
Onsite Transportation	3.7	--	0.4	0.9	3.8	--
Conventional Electricity Generation	--	X	0.1	83.4	X	X
Other Nonprocess Use	0.1	X	0.1	X	X	X
End Use Not Reported	4.8	X	0.1	0.1	23.6	X

3314 Nonferrous Metals, except Aluminum

TOTAL FUEL CONSUMPTION	2.2	X	3.2	3.8	4.1	0.1
Indirect Uses-Boiler Fuel	1.6	X	0.1	0.7	0.1	X
Conventional Boiler Use	1.6	X	0.1	1.2	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	0.8	0.1	X
Direct Uses-Total Process	2.3	X	1.9	5.3	0.3	0.1
Process Heating	1.9	X	0.1	5.4	0.2	X
Process Cooling and Refrigeration	2.4	X	X	X	X	X
Machine Drive	7.7	X	1.2	2.4	0.1	X
Electro-Chemical Processes	0.4	--	--	--	--	--
Other Process Use	2.4	X	60.0	9.5	30.0	0.1

Direct Uses-Total Nonprocess	2.9	X	5.1	3.8	14.2	X
Facility HVAC (f)	2.3	X	13.2	4.1	23.9	X
Facility Lighting	4.2	--	--	--	--	--
Other Facility Support	9.1	X	7.5	5.3	89.0	X
Onsite Transportation	12.7	--	6.3	0.1	16.0	--
Conventional Electricity Generation	--	X	0.4	1.7	X	X
Other Nonprocess Use	2.6	X	0.1	5.7	24.8	X
End Use Not Reported	0.1	X	X	X	20.5	X

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

TOTAL FUEL CONSUMPTION	0.7	X	0.1	0.9	4.1	0.0
Indirect Uses-Boiler Fuel	0.0	X	0.0	0.1	X	X
Conventional Boiler Use	0.0	X	0.1	0.1	X	X
CHP and/or Cogeneration Process	--	X	0.0	0.0	X	X
Direct Uses-Total Process	0.7	X	0.1	0.8	11.7	0.0
Process Heating	0.5	X	0.0	0.5	0.0	X
Process Cooling and Refrigeration	0.8	X	X	X	X	X
Machine Drive	0.8	X	0.0	0.0	X	X
Electro-Chemical Processes	0.2	--	--	--	--	--
Other Process Use	2.6	X	0.0	11.9	50.8	0.0
Direct Uses-Total Nonprocess	1.4	X	0.0	8.0	0.1	X
Facility HVAC (f)	2.7	X	X	9.6	0.0	X
Facility Lighting	1.3	--	--	--	--	--
Other Facility Support	1.5	X	X	0.1	0.0	X
Onsite Transportation	0.0	--	0.0	0.0	0.0	--
Conventional Electricity Generation	--	X	0.0	0.1	X	X
Other Nonprocess Use	0.1	X	0.0	X	0.1	X
End Use Not Reported	0.1	X	X	X	0.1	X

3315 Foundries

TOTAL FUEL CONSUMPTION	6.8	0.1	4.9	4.4	4.9	0.1
Indirect Uses-Boiler Fuel	15.8	X	0.1	7.3	13.7	X
Conventional Boiler Use	15.8	X	0.1	3.2	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	15.2	15.1	X
Direct Uses-Total Process	7.7	0.1	6.6	5.8	9.3	0.1
Process Heating	12.0	X	13.3	6.1	12.5	0.1
Process Cooling and Refrigeration	5.1	X	X	43.8	0.1	X
Machine Drive	4.0	0.1	6.5	8.9	4.2	X
Electro-Chemical Processes	5.4	--	--	--	--	--
Other Process Use	5.4	X	2.5	4.1	13.7	X
Direct Uses-Total Nonprocess	4.6	0.1	5.4	1.6	2.8	X
Facility HVAC (f)	5.2	0.1	17.6	1.7	2.7	X
Facility Lighting	5.0	--	--	--	--	--
Other Facility Support	6.1	X	36.5	5.5	3.9	X
Onsite Transportation	0.9	--	5.7	6.0	3.5	--
Conventional Electricity Generation	--	X	18.3	40.8	0.1	X
Other Nonprocess Use	4.3	X	0.9	1.0	14.0	X
End Use Not Reported	8.2	X	79.6	19.7	14.7	X

331511 Iron Foundries

TOTAL FUEL CONSUMPTION	2.5	0.0	1.9	1.4	3.6	0.1
Indirect Uses-Boiler Fuel	9.1	X	0.1	11.2	82.1	X
Conventional Boiler Use	9.1	X	X	3.7	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	12.7	89.0	X
Direct Uses-Total Process	1.9	X	7.1	1.5	3.3	0.1
Process Heating	1.8	X	5.4	1.6	7.7	0.1
Process Cooling and Refrigeration	7.0	X	X	X	X	X
Machine Drive	2.8	X	13.1	0.1	3.6	X
Electro-Chemical Processes	22.7	--	--	--	--	--
Other Process Use	7.7	X	X	5.2	0.1	X
Direct Uses-Total Nonprocess	5.6	0.0	1.8	1.9	3.9	X
Facility HVAC (f)	4.6	0.0	18.5	2.1	3.1	X
Facility Lighting	9.4	--	--	--	--	--
Other Facility Support	2.0	X	50.7	2.7	10.9	X
Onsite Transportation	1.7	--	1.8	X	5.9	--
Conventional Electricity Generation	--	X	0.1	X	0.1	X
Other Nonprocess Use	8.3	X	5.0	0.1	0.1	X
End Use Not Reported	0.1	X	79.6	79.4	52.2	X

331523 Nonferrous Metal Die-Casting Foundries

TOTAL FUEL CONSUMPTION	1.2	X	3.6	1.4	9.5	X
Indirect Uses-Boiler Fuel	21.0	X	X	13.6	X	X
Conventional Boiler Use	21.0	X	X	0.1	X	X
CHP and/or Cogeneration Process	--	X	X	56.6	X	X
Direct Uses-Total Process	1.1	X	3.3	1.4	15.5	X
Process Heating	2.0	X	X	1.4	18.5	X
Process Cooling and Refrigeration	1.2	X	X	92.1	X	X
Machine Drive	1.2	X	3.5	62.8	1.6	X
Electro-Chemical Processes	23.2	--	--	--	--	--
Other Process Use	0.4	X	0.1	3.2	0.2	X
Direct Uses-Total Nonprocess	3.7	X	3.9	3.9	4.7	X
Facility HVAC (f)	2.5	X	0.1	3.3	14.4	X
Facility Lighting	2.5	--	--	--	--	--
Other Facility Support	15.7	X	0.1	13.6	34.2	X
Onsite Transportation	2.4	--	6.7	32.2	4.8	--
Conventional Electricity Generation	--	X	2.7	X	X	X
Other Nonprocess Use	0.1	X	0.1	0.1	X	X
End Use Not Reported	1.8	X	X	X	1.3	X

331524 Aluminum Foundries, except Die-Casting

TOTAL FUEL CONSUMPTION	3.9	0.1	54.9	11.7	4.4	X
Indirect Uses-Boiler Fuel	5.2	X	0.1	6.5	0.1	X
Conventional Boiler Use	5.2	X	0.1	3.9	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	18.3	0.1	X
Direct Uses-Total Process	4.7	0.1	12.5	13.4	1.9	X
Process Heating	2.0	X	13.0	13.8	1.4	X
Process Cooling and Refrigeration	0.6	X	X	8.5	X	X
Machine Drive	8.8	0.1	63.9	2.2	5.0	X
Electro-Chemical Processes	0.1	--	--	--	--	--
Other Process Use	0.1	X	0.1	1.3	28.1	X
Direct Uses-Total Nonprocess	1.8	X	75.5	1.4	10.8	X
Facility HVAC (f)	1.4	X	0.1	1.5	1.9	X
Facility Lighting	2.1	--	--	--	--	--
Other Facility Support	3.5	X	X	2.0	0.1	X
Onsite Transportation	5.0	--	75.9	18.8	15.6	--
Conventional Electricity Generation	--	X	X	0.1	X	X
Other Nonprocess Use	40.9	X	X	X	1.2	X
End Use Not Reported	4.8	X	X	0.1	6.4	X

332 FABRICATED METAL PRODUCTS

TOTAL FUEL CONSUMPTION	8.8	X	29.7	12.0	19.6	X
Indirect Uses-Boiler Fuel	54.8	X	X	34.4	72.4	X
Conventional Boiler Use	54.8	X	X	53.4	78.0	X
CHP and/or Cogeneration Process	--	X	X	41.3	99.5	X
Direct Uses-Total Process	9.1	X	64.9	14.9	38.6	X
Process Heating	15.8	X	99.5	15.6	52.9	X
Process Cooling and Refrigeration	20.3	X	X	88.2	X	X
Machine Drive	11.1	X	54.4	51.6	48.1	X
Electro-Chemical Processes	37.5	--	--	--	--	--
Other Process Use	35.6	X	74.3	61.5	73.4	X
Direct Uses-Total Nonprocess	11.6	X	30.4	11.5	22.1	X
Facility HVAC (f)	13.6	X	57.7	11.8	53.3	X
Facility Lighting	13.1	--	--	--	--	--
Other Facility Support	28.0	X	97.6	31.6	97.7	X
Onsite Transportation	26.4	--	35.1	67.4	20.2	--
Conventional Electricity Generation	--	X	64.0	92.1	X	X
Other Nonprocess Use	44.0	X	67.7	87.9	96.6	X
End Use Not Reported	71.1	X	X	54.1	64.6	X

333 MACHINERY

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

Machine Drive	10.0	X	64.7	42.3	54.4	X
Electro-Chemical Processes	42.9	--	--	--	--	--
Other Process Use	27.3	X	40.1	65.6	52.6	X
Direct Uses-Total Nonprocess	10.1	99.0	62.7	11.7	31.0	X
Facility HVAC (f)	12.6	99.0	56.1	11.9	62.2	X
Facility Lighting	9.9	--	--	--	--	--
Other Facility Support	14.0	X	99.0	29.0	52.1	X
Onsite Transportation	21.4	--	37.9	73.5	18.0	--
Conventional Electricity Generation	--	X	16.4	98.8	99.0	X
Other Nonprocess Use	56.7	99.0	75.7	67.3	26.5	X
End Use Not Reported	69.9	X	99.0	73.8	49.9	X

334 COMPUTER AND ELECTRONIC PRODUCTS

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

334413 Semiconductors and Related Devices

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

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

TOTAL FUEL CONSUMPTION	8.5	X	33.6	9.7	50.0	X
Indirect Uses-Boiler Fuel	44.2	X	X	28.2	89.5	X
Conventional Boiler Use	44.2	X	X	31.2	89.5	X
CHP and/or Cogeneration Process	--	X	X	50.9	X	X
Direct Uses-Total Process	9.1	X	94.7	11.7	88.9	X
Process Heating	12.5	X	82.7	12.1	60.1	X
Process Cooling and Refrigeration	21.0	X	X	36.8	X	X
Machine Drive	11.4	X	95.7	81.0	91.4	X
Electro-Chemical Processes	21.5	--	--	--	--	--
Other Process Use	36.9	X	X	46.0	X	X
Direct Uses-Total Nonprocess	10.9	X	13.9	12.7	27.8	X
Facility HVAC (f)	12.6	X	81.4	12.4	77.5	X
Facility Lighting	12.0	--	--	--	--	--
Other Facility Support	14.6	X	73.7	24.1	76.3	X
Onsite Transportation	26.4	--	1.8	X	27.0	--
Conventional Electricity Generation	--	X	26.3	X	98.9	X

Other Nonprocess Use	83.1	X	39.7	91.4	91.9	X
End Use Not Reported	98.9	X	45.9	X	72.9	X

336 TRANSPORTATION EQUIPMENT

TOTAL FUEL CONSUMPTION	5.1	0.1	34.0	5.5	16.3	0.1
Indirect Uses-Boiler Fuel	19.7	0.1	8.9	7.0	68.3	0.1
Conventional Boiler Use	19.7	0.1	9.0	7.2	68.3	0.1
CHP and/or Cogeneration Process	--	X	0.1	16.7	X	0.1
Direct Uses-Total Process	5.7	X	58.4	7.4	29.4	X
Process Heating	12.4	X	18.2	7.8	30.1	X
Process Cooling and Refrigeration	7.1	X	X	7.7	45.2	X
Machine Drive	7.1	X	59.5	66.2	43.4	X
Electro-Chemical Processes	29.5	--	--	--	--	--
Other Process Use	19.0	X	0.7	22.4	62.9	X
Direct Uses-Total Nonprocess	5.9	X	39.8	8.7	18.1	X
Facility HVAC (f)	6.7	X	54.2	8.4	22.7	X
Facility Lighting	5.7	--	--	--	--	--
Other Facility Support	10.4	X	58.5	13.6	35.1	X
Onsite Transportation	12.9	--	43.5	11.6	20.7	--
Conventional Electricity Generation	--	X	52.0	55.7	0.1	X
Other Nonprocess Use	42.0	X	75.8	88.6	25.0	X
End Use Not Reported	43.2	X	86.4	44.8	64.0	X

336111 Automobiles

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

336112 Light Trucks and Utility Vehicles

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

3364 Aerospace Products

TOTAL FUEL CONSUMPTION	6.6	0.1	68.1	6.4	14.2	X
Indirect Uses-Boiler Fuel	14.7	0.1	0.1	6.8	0.1	X
Conventional Boiler Use	14.7	0.1	0.1	1.6	0.1	X
CHP and/or Cogeneration Process	--	X	0.1	20.8	X	X

	Direct Uses-Total Process	5.9	X	92.8	6.3	27.1	X
	Process Heating	6.6	X	0.1	7.6	29.0	X
	Process Cooling and Refrigeration	4.0	X	X	9.9	45.2	X
	Machine Drive	6.1	X	93.3	9.4	67.9	X
	Electro-Chemical Processes	21.6	--	--	--	--	--
	Other Process Use	27.8	X	4.6	0.8	3.3	X
	Direct Uses-Total Nonprocess	7.8	X	77.2	12.8	15.7	X
	Facility HVAC (f)	7.1	X	6.2	13.7	34.6	X
	Facility Lighting	9.9	--	--	--	--	--
	Other Facility Support	8.5	X	66.2	10.3	1.6	X
	Onsite Transportation	7.6	--	86.4	8.7	6.8	--
	Conventional Electricity Generation	--	X	49.0	65.0	0.1	X
	Other Nonprocess Use	57.4	X	2.9	78.9	0.1	X
	End Use Not Reported	0.1	X	0.1	0.1	5.8	X
336411	Aircraft						
	TOTAL FUEL CONSUMPTION	19.0	0.1	84.4	14.0	3.2	X
	Indirect Uses-Boiler Fuel	28.6	0.1	0.1	0.2	0.1	X
	Conventional Boiler Use	28.6	0.1	0.1	0.2	0.1	X
	CHP and/or Cogeneration Process	--	X	X	0.1	X	X
	Direct Uses-Total Process	22.4	X	94.7	1.6	5.0	X
	Process Heating	13.5	X	0.1	1.9	0.1	X
	Process Cooling and Refrigeration	9.3	X	X	0.1	45.2	X
	Machine Drive	16.8	X	94.8	1.1	0.1	X
	Electro-Chemical Processes	2.8	--	--	--	--	--
	Other Process Use	88.9	X	X	25.5	X	X
	Direct Uses-Total Nonprocess	18.3	X	89.9	26.6	4.4	X
	Facility HVAC (f)	17.6	X	0.1	28.3	18.4	X
	Facility Lighting	23.0	--	--	--	--	--
	Other Facility Support	16.4	X	X	16.9	0.1	X
	Onsite Transportation	21.4	--	90.5	12.1	2.9	--
	Conventional Electricity Generation	--	X	X	0.1	X	X
	Other Nonprocess Use	63.8	X	35.7	87.3	X	X
	End Use Not Reported	0.1	X	X	0.1	0.1	X
337	FURNITURE AND RELATED PRODUCTS						
	TOTAL FUEL CONSUMPTION	8.4	X	54.6	13.2	27.2	4.4
	Indirect Uses-Boiler Fuel	30.6	X	99.0	50.1	96.4	0.1
	Conventional Boiler Use	30.6	X	X	46.4	96.4	0.1
	CHP and/or Cogeneration Process	--	X	99.0	58.1	96.4	X
	Direct Uses-Total Process	9.7	X	95.7	18.4	68.6	77.3
	Process Heating	16.2	X	95.7	18.5	95.3	77.3
	Process Cooling and Refrigeration	22.4	X	X	70.7	96.4	X
	Machine Drive	10.1	X	X	96.4	53.0	X
	Electro-Chemical Processes	37.3	--	--	--	--	--
	Other Process Use	51.6	X	X	X	65.5	X
	Direct Uses-Total Nonprocess	10.6	X	48.0	13.1	24.3	4.4
	Facility HVAC (f)	14.4	X	95.3	13.3	51.4	4.4
	Facility Lighting	11.0	--	--	--	--	--
	Other Facility Support	13.8	X	0.1	23.0	87.6	X
	Onsite Transportation	24.5	--	5.4	21.5	19.7	--
	Conventional Electricity Generation	--	X	0.1	96.4	96.4	X
	Other Nonprocess Use	43.0	X	43.1	96.4	69.2	X
	End Use Not Reported	51.2	X	X	83.7	65.7	X
339	MISCELLANEOUS						
	TOTAL FUEL CONSUMPTION	9.3	0.1	67.5	27.2	49.3	X
	Indirect Uses-Boiler Fuel	32.0	X	72.5	55.7	X	X
	Conventional Boiler Use	32.0	X	78.0	45.8	X	X
	CHP and/or Cogeneration Process	--	X	74.2	61.3	X	X
	Direct Uses-Total Process	11.3	X	94.6	30.9	57.6	X
	Process Heating	21.0	X	99.0	36.6	87.2	X
	Process Cooling and Refrigeration	20.2	X	X	70.6	99.0	X
	Machine Drive	13.0	X	99.0	99.0	74.5	X
	Electro-Chemical Processes	30.7	--	--	--	--	--
	Other Process Use	44.2	X	0.1	75.1	99.0	X
	Direct Uses-Total Nonprocess	9.3	0.1	57.5	21.2	58.8	X
	Facility HVAC (f)	9.7	0.1	99.0	14.6	83.6	X
	Facility Lighting	10.8	--	--	--	--	--

Other Facility Support	13.5	0.1	X	13.5	99.0	X
Onsite Transportation	22.2	--	55.1	78.0	48.7	--
Conventional Electricity Generation	--	X	33.0	87.4	91.1	X
Other Nonprocess Use	1.0	X	6.9	66.5	0.1	X
End Use Not Reported	53.6	X	X	53.3	66.8	X

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

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

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

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

(e) Hydrocarbon Gas Liquids '(HGL)' include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids (NGL).

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

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

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

-- Estimation is not applicable.

S=Negative value.

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

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'