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 Next MECS will be fielded in 2023.

Table 6.1 Consumption Ratios of Fuel, 2018;

Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)
Total United States				
311	Food	778.2	3.9	1.4
3112	Grain and Oilseed Milling	4,829.4	11.9	2.9
311221	Wet Corn Milling	17,478.6	28.5	10.4
31131	Sugar Manufacturing	7,865.7	32.2	9.8
3114	Fruit and Vegetable Preserving and Specialty Food	893.3	4.3	1.9
3115	Dairy Product	822.0	3.3	1.1
3116	Animal Slaughtering and Processing	567.6	3.9	1.2
312	Beverage and Tobacco Products	559.0	1.2	0.8
3121	Beverages	556.6	1.8	1.0
3122	Tobacco	599.2	0.2	0.2
313	Textile Mills	681.1	5.5	2.3
314	Textile Product Mills	219.4	1.4	0.7
315	Apparel	78.5	1.0	0.5
316	Leather and Allied Products	87.9	1.1	0.4
321	Wood Products	950.9	7.2	3.4
321113	Sawmills	2,133.6	10.4	5.3
3212	Veneer, Plywood, and Engineered Woods	1,866.0	12.9	5.8
321219	Reconstituted Wood Products	5,865.9	18.8	9.6
3219	Other Wood Products	324.3	3.1	1.5
322	Paper	6,468.7	22.4	10.0
322110	Pulp Mills	37,920.8	102.6	52.6
322121	Paper Mills, except Newsprint	13,693.0	32.4	17.3
322122	Newsprint Mills	20,363.8	67.1	25.3
322130	Paperboard Mills	26,140.0	46.9	26.7
323	Printing and Related Support	168.8	1.4	0.8
324	Petroleum and Coal Products	30,305.6	25.2	5.1
324110	Petroleum Refineries	52,381.3	28.6	5.3
324121	Asphalt Paving Mixture and Block	3,834.6	13.1	4.5
324122	Asphalt Shingle and Coating Materials	1,555.2	2.9	1.4
324191	Petroleum Lubricating Oil and Grease Products	1,233.9	2.9	1.1
324199	Other Petroleum and Coal Products	10,014.6	17.1	7.4
325	Chemicals	5,018.2	9.4	5.0
325110	Petrochemicals	58,401.0	23.1	9.6
325120	Industrial Gases	11,965.1	29.2	18.3
325180	Other Basic Inorganic Chemicals	9,688.5	20.6	11.7
325193	Ethyl Alcohol	43,297.8	89.0	15.7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	12,419.7	12.6	7.3
325199	Other Basic Organic Chemicals	11,103.3	19.8	8.1
325211	Plastics Materials and Resins	10,477.3	20.5	7.8
325212	Synthetic Rubber	3,960.0	11.0	4.6
325220	Artificial and Synthetic Fibers and Filaments	2,482.6	12.8	5.0
325311	Nitrogenous Fertilizers	28,363.2	37.2	26.0
325312	Phosphatic Fertilizers	6,256.6	12.7	5.7
3254	Pharmaceuticals and Medicines	442.9	0.7	0.5
325412	Pharmaceutical Preparation	447.7	0.5	0.4
325992	Photographic Film, Paper, Plate, and Chemicals	832.0	2.6	1.4
326	Plastics and Rubber Products	361.4	2.5	1.2
327	Nonmetallic Mineral Products	2,257.4	12.0	6.9
327120	Clay Building Material and Refractories	1,902.0	11.9	7.0
327211	Flat Glass	4,116.7	18.8	11.6
327212	Other Pressed and Blown Glass and Glassware	2,388.1	12.2	7.6
327213	Glass Containers	4,120.0	18.2	11.9
327215	Glass Products from Purchased Glass	335.0	2.4	1.4
327310	Cements	17,960.8	52.6	34.4
327410	Lime	28,611.1	94.2	46.2
327420	Gypsum	5,933.3	14.6	8.0
327993	Mineral Wool	2,542.6	9.1	5.7
331	Primary Metals	3,848.4	16.0	6.2
331110	Iron and Steel Mills and Ferroalloys	12,548.6	28.7	10.6
3312	Steel Products from Purchased Steel	990.2	5.7	2.1

3313	Alumina and Aluminum	2,441.2	11.4	4.1
331314	Secondary Smelting and Alloying of Aluminum	3,691.9	17.5	3.2
331315	Aluminum Sheet, Plate and Foils	3,759.1	10.6	3.9
331318	Other Aluminum Rolling, Drawing and Extruding	897.2	5.8	2.1
3314	Nonferrous Metals, except Aluminum	1,550.6	6.8	2.3
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3,932.4	14.0	5.9
3315	Foundries	747.8	5.1	2.9
331511	Iron Foundries	1,144.6	7.6	4.1
331523	Nonferrous Metal Die-Casting Foundries	647.3	4.3	2.6
331524	Aluminum Foundries, except Die-Casting	584.0	4.7	2.8
332	Fabricated Metal Products	174.0	1.4	0.8
333	Machinery	140.9	0.9	0.4
334	Computer and Electronic Products	133.9	0.7	0.4
334413	Semiconductors and Related Devices	529.6	1.9	1.1
335	Electrical Equip., Appliances, and Components	222.0	1.4	0.5
336	Transportation Equipment	245.0	1.0	0.4
336111	Automobiles	360.0	1.6	0.3
336112	Light Trucks and Utility Vehicles	442.1	0.8	0.2
3364	Aerospace Product and Parts	160.2	0.5	0.3
336411	Aircraft	110.7	0.3	0.2
337	Furniture and Related Products	71.8	0.8	0.4
339	Miscellaneous	99.8 Q		0.4
	Total	1,285.1	5.6	2.6

Northeast Census Region

311	Food	359.6	2.1	0.9
3112	Grain and Oilseed Milling	1,245.9	3.1	1.1
311221	Wet Corn Milling	1,578.0	11.3	4.0
31131	Sugar Manufacturing	3,074.2	7.4	3.4
3114	Fruit and Vegetable Preserving and Specialty Food	679.8	4.4	1.7
3115	Dairy Product	709.2	4.1	1.1
3116	Animal Slaughtering and Processing	543.0	3.1	1.1
312	Beverage and Tobacco Products	410.9	1.8	1.0
3121	Beverages	401.4	1.9	1.1
3122	Tobacco	702.1	1.0	0.7
313	Textile Mills	Q	2.8	1.5
314	Textile Product Mills	Q	Q	0.6
315	Apparel	70.1	Q	Q
316	Leather and Allied Products	111.1	1.1	0.6
321	Wood Products	921.8	9.9	4.9
321113	Sawmills	937.9	8.3	4.2
3212	Veneer, Plywood, and Engineered Woods	5,583.7	54.6	23.4
321219	Reconstituted Wood Products	12,778.6	84.6	36.2
3219	Other Wood Products	319.6	3.6	2.0
322	Paper	3,785.7	13.1	5.6
322110	Pulp Mills	D	D	D
322121	Paper Mills, except Newsprint	9,599.2	19.5	11.8
322122	Newsprint Mills	0.0	0.0	0.0
322130	Paperboard Mills	8,373.9	19.5	10.9
323	Printing and Related Support	162.8	0.8	0.5
324	Petroleum and Coal Products	13,764.8	19.3	4.6
324110	Petroleum Refineries	38,052.8	29.2	5.3
324121	Asphalt Paving Mixture and Block	3,609.1	12.5	4.7
324122	Asphalt Shingle and Coating Materials	1,351.1	2.1	1.1
324191	Petroleum Lubricating Oil and Grease Products	532.2	0.7	0.2
324199	Other Petroleum and Coal Products	6,927.1	20.4	9.7
325	Chemicals	1,005.8	2.5	1.5
325110	Petrochemicals	2,399.6	1.7	1.2
325120	Industrial Gases	3,737.0	13.4	7.8
325180	Other Basic Inorganic Chemicals	2,171.9	7.0	4.5
325193	Ethyl Alcohol	19,817.5	64.9	11.3
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	1,576.3	10.3	3.4
325199	Other Basic Organic Chemicals	3,841.8	6.3	3.4
325211	Plastics Materials and Resins	1,715.6	5.3	2.2
325212	Synthetic Rubber	630.9	3.5	1.5
325220	Artificial and Synthetic Fibers and Filaments	401.5	2.8	1.1
325311	Nitrogenous Fertilizers	1,995.0	8.3	4.6
325312	Phosphatic Fertilizers	63.6	0.1	0.1
3254	Pharmaceuticals and Medicines	440.7	0.9	0.6
325412	Pharmaceutical Preparation	335.6	0.5	0.4
325992	Photographic Film, Paper, Plate, and Chemicals	1,164.0	2.7	1.4
326	Plastics and Rubber Products	316.3	3.3	1.5
327	Nonmetallic Mineral Products	1,316.8	8.8	5.2
327120	Clay Building Material and Refractories	1,223.8	7.7	4.9

327211	Flat Glass	2,668.3	19.9	11.7
327212	Other Pressed and Blown Glass and Glassware	1,583.5	10.6	7.5
327213	Glass Containers	3,631.0	16.1	11.0
327215	Glass Products from Purchased Glass	207.5	2.6	1.8
327310	Cements	10,197.3	42.2	28.7
327410	Lime	17,463.7	64.6	37.4
327420	Gypsum	11,611.4	23.5	12.1
327993	Mineral Wool	2,520.9	7.5	5.2
331	Primary Metals	2,054.7	10.2	4.0
331110	Iron and Steel Mills and Ferroalloys	9,262.2	22.0	9.2
3312	Steel Products from Purchased Steel	Q	4.9	1.8
3313	Alumina and Aluminum	563.5	3.0	1.2
331314	Secondary Smelting and Alloying of Aluminum	2,665.0	17.3	5.8
331315	Aluminum Sheet, Plate and Foils	3,475.0	9.7	2.3
331318	Other Aluminum Rolling, Drawing and Extruding	1,304	8	3
3314	Nonferrous Metals, except Aluminum	793.4	4.3	1.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	203.8	2.2	0.8
3315	Foundries	447.0	4.2	2.4
331511	Iron Foundries	747.9	6.7	3.6
331523	Nonferrous Metal Die-Casting Foundries	348.2	3.9	2.6
331524	Aluminum Foundries, except Die-Casting	399.9	3.5	2.5
332	Fabricated Metal Products	132.1	1.1	0.7
333	Machinery	71.3	0.5	0.3
334	Computer and Electronic Products	115.6	0.6	0.4
334413	Semiconductors and Related Devices	405.3	1.6	0.9
335	Electrical Equip., Appliances, and Components	191.2	1.3	0.7
336	Transportation Equipment	266.5	1.5	0.7
336111	Automobiles	48.2	1.2	0.2
336112	Light Trucks and Utility Vehicles	160.6	1.2	0.7
3364	Aerospace Product and Parts	139.7	0.8	0.4
336411	Aircraft	120.0	0.3	0.2
337	Furniture and Related Products	Q	1.1	0.6
339	Miscellaneous	97.2	0.5	0.3
	Total	519.1	3.1	1.6

Midwest Census Region

311	Food	1,067.7	4.6	1.5
3112	Grain and Oilseed Milling	6,468.9	14.5	3.5
311221	Wet Corn Milling	18,001.1	30.1	10.9
31131	Sugar Manufacturing	8,962.3	38.3	12.7
3114	Fruit and Vegetable Preserving and Specialty Food	723.4	3.4	1.4
3115	Dairy Product	713.2	2.8	0.9
3116	Animal Slaughtering and Processing	541.9	3.3	0.9
312	Beverage and Tobacco Products	1,009.7	3.6	1.8
3121	Beverages	1,016.1	3.7	1.8
3122	Tobacco	73.9	0.1	0.1
313	Textile Mills	331.1	1.9	1.1
314	Textile Product Mills	92.4	0.8	0.5
315	Apparel	67.4	0.7	0.5
316	Leather and Allied Products	132.3	1.6	0.5
321	Wood Products	389.0	3.6	1.6
321113	Sawmills	811.8	5.9	2.7
3212	Veneer, Plywood, and Engineered Woods	806.8	6.5	2.7
321219	Reconstituted Wood Products	2,557.0	10.7	5.2
3219	Other Wood Products	255.7	2.5	1.2
322	Paper	2,356.5	8.8	3.7
322110	Pulp Mills	9,481.3	21.6	8.9
322121	Paper Mills, except Newsprint	11,516.3	31.6	15.9
322122	Newsprint Mills	0.0	0.0	0.0
322130	Paperboard Mills	10,928.8	20.2	12.5
323	Printing and Related Support	199.5	1.8	1.0
324	Petroleum and Coal Products	17,710.6	17.5	4.9
324110	Petroleum Refineries	44,361.0	19.8	5.2
324121	Asphalt Paving Mixture and Block	3,667.9	11.7	4.3
324122	Asphalt Shingle and Coating Materials	1,551.6	3.1	1.5
324191	Petroleum Lubricating Oil and Grease Products	Q	1.6	0.7
324199	Other Petroleum and Coal Products	14,689.4	24.5	8.3
325	Chemicals	4,070.0	9.5	4.8
325110	Petrochemicals	817.7	3.2	1.2
325120	Industrial Gases	13,284.4	29.6	19.4
325180	Other Basic Inorganic Chemicals	4,745.6	9.4	5.2
325193	Ethyl Alcohol	46,684.3	81.0	16.2
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	10,402.6	14.9	5.8
325199	Other Basic Organic Chemicals	5,998.6	14.6	5.3

325211	Plastics Materials and Resins	3,292.7	8.9	4.2
325212	Synthetic Rubber	965.8	3.7	1.7
325220	Artificial and Synthetic Fibers and Filaments	1,325.3	5.7	2.1
325311	Nitrogenous Fertilizers	37,723.9	56.0	31.3
325312	Phosphatic Fertilizers	954.0	2.4	0.8
3254	Pharmaceuticals and Medicines	688.6	1.2	0.9
325412	Pharmaceutical Preparation	929.0	1.3	1.1
325992	Photographic Film, Paper, Plate, and Chemicals	264.6	1.6	0.8
326	Plastics and Rubber Products	375.1	2.8	1.2
327	Nonmetallic Mineral Products	2,123.2	11.9	6.7
327120	Clay Building Material and Refractories	1,510.2	8.7	4.5
327211	Flat Glass	5,865.6	33.5	17.8
327212	Other Pressed and Blown Glass and Glassware	2,753.8	16.9	10.0
327213	Glass Containers	3,679.1	17.1	11.6
327215	Glass Products from Purchased Glass	337.3	2.1	1.2
327310	Cements	18,364	53	37
327410	Lime	44,342	145	61
327420	Gypsum	4,295.4	14.0	7.5
327993	Mineral Wool	2,883.7	9.6	5.8
331	Primary Metals	5,869.1	24.5	9.5
331110	Iron and Steel Mills and Ferroalloys	18,256.2	44.3	16.4
3312	Steel Products from Purchased Steel	1,154.0	6.7	2.4
3313	Alumina and Aluminum	2,755.1	12.2	4.3
331314	Secondary Smelting and Alloying of Aluminum	3,404.8	19.0	3.6
331315	Aluminum Sheet, Plate and Foils	2,834.2	7.2	3.1
331318	Other Aluminum Rolling, Drawing and Extruding	723	5	2
3314	Nonferrous Metals, except Aluminum	1,767.5	9.0	2.4
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	4,101.1	17.7	7.0
3315	Foundries	967.5	6.1	3.4
331511	Iron Foundries	1,432.8	8.8	4.7
331523	Nonferrous Metal Die-Casting Foundries	734.5	4.6	2.7
331524	Aluminum Foundries, except Die-Casting	627.7	5.9	3.4
332	Fabricated Metal Products	204.8	1.6	0.8
333	Machinery	171.3	0.9	0.4
334	Computer and Electronic Products	123.3	0.7	0.4
334413	Semiconductors and Related Devices	591.5	2.5	1.9
335	Electrical Equip., Appliances, and Components	177.2	1.1	Q
336	Transportation Equipment	319.4	1.6	0.5
336111	Automobiles	413.1	1.9	0.3
336112	Light Trucks and Utility Vehicles	484.4	0.9	0.2
3364	Aerospace Product and Parts	234.7	1.2	0.6
336411	Aircraft	163.7	1.2	0.5
337	Furniture and Related Products	140.3	1.3	0.7
339	Miscellaneous	132.1	0.8	0.5
	Total	1,025.3	5.3	2.1

South Census Region

311	Food	661.8	3.6	1.4
3112	Grain and Oilseed Milling	4,160.8	9.9	2.3
311221	Wet Corn Milling	16,823.3	16.9	6.4
31131	Sugar Manufacturing	9,247.9	34.0	9.6
3114	Fruit and Vegetable Preserving and Specialty Food	750.0	3.3	1.5
3115	Dairy Product	742.9	2.8	1.1
3116	Animal Slaughtering and Processing	431.2	3.4	1.2
312	Beverage and Tobacco Products	778.7	0.9	0.6
3121	Beverages	809.9	1.8	1.0
3122	Tobacco	609.4	0.2	0.1
313	Textile Mills	874.6	7.0	2.7
314	Textile Product Mills	293.4	1.6	0.8
315	Apparel	133.5	2.9	1.3
316	Leather and Allied Products	44.0	0.7	0.3
321	Wood Products	1,352.3	8.4	4.2
321113	Sawmills	2,563.8	10.2	6.0
3212	Veneer, Plywood, and Engineered Woods	2,262.3	12.7	6.6
321219	Reconstituted Wood Products	6,486.8	15.7	8.5
3219	Other Wood Products	508.5	4.4	2.1
322	Paper	13,272.7	39.1	18.6
322110	Pulp Mills	D	D	D
322121	Paper Mills, except Newsprint	18,744.0	44.7	23.0
322122	Newsprint Mills	21,854.1	81.6	36.3
322130	Paperboard Mills	31,703.2	53.3	30.4
323	Printing and Related Support	178.0	1.7	1.0
324	Petroleum and Coal Products	37,920.6	28.1	4.9
324110	Petroleum Refineries	58,248.1	31.9	5.1

324121	Asphalt Paving Mixture and Block	3,953.5	14.1	4.5
324122	Asphalt Shingle and Coating Materials	1,662.6	3.0	1.4
324191	Petroleum Lubricating Oil and Grease Products	2,770.4	3.8	1.5
324199	Other Petroleum and Coal Products	7,314.3	14.4	6.3
325	Chemicals	9,110.3	14.9	6.9
325110	Petrochemicals	60,266.2	23.3	9.6
325120	Industrial Gases	16,857.7	38.6	22.6
325180	Other Basic Inorganic Chemicals	13,055.7	27.5	14.8
325193	Ethyl Alcohol	32,365.4	96.7	13.8
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	17,514.8	12.4	7.7
325199	Other Basic Organic Chemicals	14,561.7	24.1	9.6
325211	Plastics Materials and Resins	15,997.7	25.7	9.1
325212	Synthetic Rubber	6,080.6	14.0	5.5
325220	Artificial and Synthetic Fibers and Filaments	2,674.7	13.6	5.4
325311	Nitrogenous Fertilizers	45,589.8	58.8	41.0
325312	Phosphatic Fertilizers	D	D	D
3254	Pharmaceuticals and Medicines	671.6	0.9	0.6
325412	Pharmaceutical Preparation	719.0	0.7	0.5
325992	Photographic Film, Paper, Plate, and Chemicals	798.3	5.0	1.7
326	Plastics and Rubber Products	401.7	2.4	1.1
327	Nonmetallic Mineral Products	2,546.3	12.2	6.9
327120	Clay Building Material and Refractories	2,534.7	15.8	9.6
327211	Flat Glass	4,397.0	15.7	10.1
327212	Other Pressed and Blown Glass and Glassware	3,203.4	11.3	7.0
327213	Glass Containers	4,609.3	22.4	13.5
327215	Glass Products from Purchased Glass	546.2	3.5	1.9
327310	Cements	19,278.0	52.5	32.9
327410	Lime	21,269.7	83.1	40.0
327420	Gypsum	6,487.6	16.2	8.6
327993	Mineral Wool	2,738.7	9.8	6.1
331	Primary Metals	3,394.1	11.9	4.4
331110	Iron and Steel Mills and Ferroalloys	7,720.2	14.7	5.3
3312	Steel Products from Purchased Steel	1,316.6	5.8	2.2
3313	Alumina and Aluminum	4,961.0	21.1	6.4
331314	Secondary Smelting and Alloying of Aluminum	4,479.0	18.5	2.6
331315	Aluminum Sheet, Plate and Foils	4,729.3	14.5	5.4
331318	Other Aluminum Rolling, Drawing and Extruding	1,017.0	6.3	2.3
3314	Nonferrous Metals, except Aluminum	1,507.8	5.6	2.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	8,775.6	16.2	6.9
3315	Foundries	729.0	5.3	2.8
331511	Iron Foundries	782.7	5.5	3.1
331523	Nonferrous Metal Die-Casting Foundries	752.7	6.0	3.3
331524	Aluminum Foundries, except Die-Casting	926.1	4.5	2.5
332	Fabricated Metal Products	201.1	1.4	0.9
333	Machinery	161.5	1.1	0.6
334	Computer and Electronic Products	181.9	0.8	0.5
334413	Semiconductors and Related Devices	785.5	2.4	1.5
335	Electrical Equip., Appliances, and Components	340.0	2.0	0.8
336	Transportation Equipment	210.9	0.7	0.3
336111	Automobiles	413.2	1.4	0.3
336112	Light Trucks and Utility Vehicles	393.9	0.6	0.2
3364	Aerospace Product and Parts	188.2	0.4	0.2
336411	Aircraft	177.8	0.7	0.4
337	Furniture and Related Products	82.9	Q	Q
339	Miscellaneous	153.8	Q	0.5
	Total	2,245.7	7.5	3.5

West Census Region

311	Food	830.7	4.4	1.6
3112	Grain and Oilseed Milling	1,215.3	4.9	1.3
311221	Wet Corn Milling	16,748.0	80.7	17.4
31131	Sugar Manufacturing	5,514.8	28.4	8.2
3114	Fruit and Vegetable Preserving and Specialty Food	1,204.5	5.8	2.9
3115	Dairy Product	1,185.9	4.1	1.3
3116	Animal Slaughtering and Processing	Q	Q	Q
312	Beverage and Tobacco Products	287.7	1.2	0.6
3121	Beverages	288.3	1.2	0.6
3122	Tobacco	31.4	0.1	0.1
313	Textile Mills	353.7	3.2	1.4
314	Textile Product Mills	Q	Q	Q
315	Apparel	17.0	Q	Q
316	Leather and Allied Products	21.4	0.3	0.2
321	Wood Products	871.3	6.6	2.9
321113	Sawmills	2,326.1	12.8	4.9

3212	Veneer, Plywood, and Engineered Woods	1,182.5	9.7	3.6
321219	Reconstituted Wood Products	4,700.7	22.0	9.4
3219	Other Wood Products	120.0	1.1	0.6
322	Paper	3,824.3	17.4	8.3
322110	Pulp Mills	39,557.1	82.4	39.3
322121	Paper Mills, except Newsprint	11,181.1	25.5	13.4
322122	Newsprint Mills	17,834.1	48.9	15.5
322130	Paperboard Mills	24,283.6	58.9	28.9
323	Printing and Related Support	74.8	0.6	0.4
324	Petroleum and Coal Products	37,319.1	27.7	5.7
324110	Petroleum Refineries	49,226.7	29.2	5.8
324121	Asphalt Paving Mixture and Block	4,095.4	13.7	4.6
324122	Asphalt Shingle and Coating Materials	1,446.9	3.4	1.4
324191	Petroleum Lubricating Oil and Grease Products	996.4	5.3	1.3
324199	Other Petroleum and Coal Products	26,141.3	11.7	6.8
325	Chemicals	1,256.6	1.8	1.3
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	9,338.8	19.5	14.7
325180	Other Basic Inorganic Chemicals	11,115.6	19.7	13.0
325193	Ethyl Alcohol	19,619.0	-41.4	10.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	8,125.2	17.1	12.6
325199	Other Basic Organic Chemicals	3,038.1	9.5	3.5
325211	Plastics Materials and Resins	675.3	2.3	0.9
325212	Synthetic Rubber	170.4	0.7	0.5
325220	Artificial and Synthetic Fibers and Filaments	359.8	3.0	1.2
325311	Nitrogenous Fertilizers	Q	Q	Q
325312	Phosphatic Fertilizers	D	D	D
3254	Pharmaceuticals and Medicines	116.9	0.2	0.1
325412	Pharmaceutical Preparation	96.7	0.1	0.1
325992	Photographic Film, Paper, Plate, and Chemicals	608.3	1.8	1.2
326	Plastics and Rubber Products	222.9	1.2	0.7
327	Nonmetallic Mineral Products	2,870.8	14.1	8.9
327120	Clay Building Material and Refractories	1,069.0	9.9	5.7
327211	Flat Glass	2,476.8	12.1	8.1
327212	Other Pressed and Blown Glass and Glassware	742.0	7.3	4.3
327213	Glass Containers	4,384.6	16.2	10.9
327215	Glass Products from Purchased Glass	190.2	1.4	0.7
327310	Cements	20,420	58	37
327410	Lime	30,007	59	36
327420	Gypsum	5,074.0	10.0	6.1
327993	Mineral Wool	1,619.3	7.2	4.9
331	Primary Metals	1,880.3	8.7	3.8
331110	Iron and Steel Mills and Ferroalloys	4,209.4	14.7	4.2
3312	Steel Products from Purchased Steel	389.0	1.4	0.6
3313	Alumina and Aluminum	3,450.3	15.2	6.1
331314	Secondary Smelting and Alloying of Aluminum	2,708.0	10.6	4.8
331315	Aluminum Sheet, Plate and Foils	2,966.5	9.1	4.3
331318	Other Aluminum Rolling, Drawing and Extruding	734	4	2
3314	Nonferrous Metals, except Aluminum	2,923.4	10.2	4.4
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	5,836.3	13.8	6.3
3315	Foundries	375.3	2.5	1.7
331511	Iron Foundries	1,046.7	6.4	3.5
331523	Nonferrous Metal Die-Casting Foundries	368.5	2.0	1.6
331524	Aluminum Foundries, except Die-Casting	319.0	2.8	1.9
332	Fabricated Metal Products	122.3	1.0	0.6
333	Machinery	81.9	0.5	0.3
334	Computer and Electronic Products	123.7	0.6	0.4
334413	Semiconductors and Related Devices	447.0	1.6	0.9
335	Electrical Equip., Appliances, and Components	Q	1.0	0.5
336	Transportation Equipment	114.7	0.3	0.2
336111	Automobiles	92.6	0.5	0.1
336112	Light Trucks and Utility Vehicles	23.6	0.2	0.1
3364	Aerospace Product and Parts	118.1	0.3	0.2
336411	Aircraft	61.8	0.1	0.1
337	Furniture and Related Products	43.3	0.4	0.2
339	Miscellaneous	30.2	0.2	0.1
	Total	935.1	4.0	2.0

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding. Operating ratios were calculated using the estimates of fuel consumption reported in Table 3.2

consumption reported in Table 3.2.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the *2018 Annual Survey of Manufactures*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY21-312).

Released: September 2021
 Next MECS will be fielded in 2023.

RSE Table 6.1 Relative Standard Errors for Table 6.1;
Unit: Percents.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)
Total United States				
311	Food	5.7	5.6	4.7
3112	Grain and Oilseed Milling	4.7	3.2	3.4
311221	Wet Corn Milling	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	4.2	3.8	3.1
3115	Dairy Product	3.4	3.2	2.8
3116	Animal Slaughtering and Processing	14.9	15.1	15.1
312	Beverage and Tobacco Products	12.8	12.1	12.0
3121	Beverages	13.6	13.4	13.0
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	12.7	12.2	8.5
314	Textile Product Mills	16.5	26.7	18.4
315	Apparel	10.3	24.8	29.8
316	Leather and Allied Products	8.1	7.9	8.0
321	Wood Products	5.3	5.5	4.6
321113	Sawmills	4.5	15.5	6.9
3212	Veneer, Plywood, and Engineered Woods	7.9	3.6	3.3
321219	Reconstituted Wood Products	3.5	1.4	1.8
3219	Other Wood Products	16.8	17.0	16.9
322	Paper	5.1	5.7	6.6
322110	Pulp Mills	0.0	0.0	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	7.9	11.7	10.8
324	Petroleum and Coal Products	4.4	0.3	0.2
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	5.9	5.6	5.4
324122	Asphalt Shingle and Coating Materials	3.1	3.6	2.7
324191	Petroleum Lubricating Oil and Grease Products	38.1	17.1	16.9
324199	Other Petroleum and Coal Products	0.0	0.0	0.0
325	Chemicals	4.4	3.3	2.8
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	11.2	9.3	7.4
325180	Other Basic Inorganic Chemicals	14.2	10.6	10.0
325193	Ethyl Alcohol	2.5	1.8	0.6
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	3.7	4.8	3.1
325211	Plastics Materials and Resins	5.8	2.7	2.4
325212	Synthetic Rubber	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	28.8	36.9	30.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	8.8	6.0	6.3
325412	Pharmaceutical Preparation	14.5	10.0	10.1
325992	Photographic Film, Paper, Plate, and Chemicals	5.2	1.9	1.9
326	Plastics and Rubber Products	8.2	8.1	8.2
327	Nonmetallic Mineral Products	5.9	5.5	5.4
327120	Clay Building Material and Refractories	3.2	7.0	6.6
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	5.3	6.7	8.5
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	7.2	2.0	1.9
327310	Cements	4.3	3.2	4.2
327410	Lime	0.0	0.0	0.0
327420	Gypsum	4.2	9.6	9.0
327993	Mineral Wool	4.6	4.7	3.4
331	Primary Metals	1.6	0.9	0.8
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	14.2	11.6	10.9
3313	Alumina and Aluminum	0.5	0.4	0.5
331314	Secondary Smelting and Alloying of Aluminum	2.8	4.9	3.3

331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	1.4	1.0	0.8
3314	Nonferrous Metals, except Aluminum	6.1	4.5	3.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	6.3	5.3	2.7
3315	Foundries	1.5	1.2	1.0
331511	Iron Foundries	3.1	2.2	1.6
331523	Nonferrous Metal Die-Casting Foundries	1.5	2.3	1.7
331524	Aluminum Foundries, except Die-Casting	2.1	1.9	1.8
332	Fabricated Metal Products	11.7	10.5	10.2
333	Machinery	14.3	11.9	11.4
334	Computer and Electronic Products	7.9	9.3	8.2
334413	Semiconductors and Related Devices	9.8	5.3	5.8
335	Electrical Equip., Appliances, and Components	18.6	14.1	25.7
336	Transportation Equipment	8.3	8.6	8.7
336111	Automobiles	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0
3364	Aerospace Product and Parts	5.6	3.2	3.0
336411	Aircraft	7.3	5.5	5.5
337	Furniture and Related Products	23.6	21.4	22.2
339	Miscellaneous	11.3	121.8	12.6
	Total	2.2	5.4	1.6

Northeast Census Region

311	Food	19.5	14.1	11.4
3112	Grain and Oilseed Milling	4.3	0.5	1.5
311221	Wet Corn Milling	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	10.2	10.3	9.9
3115	Dairy Product	8.3	6.7	5.9
3116	Animal Slaughtering and Processing	3.9	13.7	15.4
312	Beverage and Tobacco Products	12.3	3.9	3.6
3121	Beverages	12.8	4.2	3.8
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	60.2	32.3	29.6
314	Textile Product Mills	50.7	57.2	46.1
315	Apparel	18.5	56.6	58.8
316	Leather and Allied Products	17.7	15.9	21.7
321	Wood Products	19.4	23.6	19.7
321113	Sawmills	3.6	2.3	2.3
3212	Veneer, Plywood, and Engineered Woods	6.2	6.7	5.7
321219	Reconstituted Wood Products	0.0	0.0	0.0
3219	Other Wood Products	38.9	46.5	43.9
322	Paper	19.9	15.1	31.0
322110	Pulp Mills	D	D	D
322121	Paper Mills, except Newsprint	0.0	0.0	0.0
322122	Newsprint Mills	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	24.6	49.3	49.4
324	Petroleum and Coal Products	3.5	1.1	0.6
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	9.5	6.7	5.8
324122	Asphalt Shingle and Coating Materials	0.0	0.0	0.0
324191	Petroleum Lubricating Oil and Grease Products	9.3	1.4	2.1
324199	Other Petroleum and Coal Products	0.0	0.0	0.0
325	Chemicals	15.8	9.6	10.4
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	40.6	24.9	23.1
325180	Other Basic Inorganic Chemicals	13.8	8.7	7.9
325193	Ethyl Alcohol	0.0	0.0	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	5.8	7.6	8.1
325211	Plastics Materials and Resins	4.3	2.9	1.9
325212	Synthetic Rubber	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	0.0	0.0	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	9.6	4.0	3.5
325412	Pharmaceutical Preparation	6.3	2.0	1.9
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	0.0
326	Plastics and Rubber Products	31.8	28.8	25.5
327	Nonmetallic Mineral Products	14.9	12.4	13.6
327120	Clay Building Material and Refractories	7.5	7.7	4.6
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	13.8	7.9	15.5

327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	37.8	3.5	4.3
327310	Cements	0.0	0.0	0.0
327410	Lime	0.0	0.0	0.0
327420	Gypsum	0.0	0.0	0.0
327993	Mineral Wool	0.0	0.0	0.0
331	Primary Metals	4.4	0.7	1.4
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	60.6	5.9	4.5
3313	Alumina and Aluminum	0.0	0.0	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.0	0.0	0.0
3314	Nonferrous Metals, except Aluminum	3.6	3.4	6.4
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0
3315	Foundries	7.0	2.7	2.4
331511	Iron Foundries	11.7	2.1	1.4
331523	Nonferrous Metal Die-Casting Foundries	2.3	3.3	1.7
331524	Aluminum Foundries, except Die-Casting	1.5	1.0	1.1
332	Fabricated Metal Products	38.0	31.2	32.6
333	Machinery	28.6	17.5	14.2
334	Computer and Electronic Products	15.4	14.3	14.9
334413	Semiconductors and Related Devices	5.3	2.5	2.1
335	Electrical Equip., Appliances, and Components	30.6	49.5	44.1
336	Transportation Equipment	38.3	40.2	36.9
336111	Automobiles	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0
3364	Aerospace Product and Parts	36.1	1.5	1.4
336411	Aircraft	0.0	0.0	0.0
337	Furniture and Related Products	87.7	19.9	20.2
339	Miscellaneous	30.9	35.9	40.8
	Total	7.6	5.0	4.7

Midwest Census Region

311	Food	5.7	6.8	5.0
3112	Grain and Oilseed Milling	6.7	4.3	3.5
311221	Wet Corn Milling	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	7.8	8.8	7.3
3115	Dairy Product	5.2	5.4	4.5
3116	Animal Slaughtering and Processing	6.8	8.4	7.8
312	Beverage and Tobacco Products	38.8	38.3	38.2
3121	Beverages	38.9	38.3	38.2
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	10.4	8.1	7.8
314	Textile Product Mills	32.4	27.8	29.0
315	Apparel	34.4	30.8	34.1
316	Leather and Allied Products	15.4	15.2	13.3
321	Wood Products	12.0	11.6	11.7
321113	Sawmills	4.6	4.7	3.9
3212	Veneer, Plywood, and Engineered Woods	12.0	11.2	10.6
321219	Reconstituted Wood Products	4.1	2.4	2.1
3219	Other Wood Products	21.7	21.5	21.7
322	Paper	11.7	16.8	15.9
322110	Pulp Mills	0.0	0.0	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0
322122	Newsprint Mills	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	11.5	10.7	9.6
324	Petroleum and Coal Products	20.5	0.7	0.3
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	4.0	8.4	5.9
324122	Asphalt Shingle and Coating Materials	9.0	10.5	7.6
324191	Petroleum Lubricating Oil and Grease Products	111.8	2.8	2.8
324199	Other Petroleum and Coal Products	0.0	0.0	0.0
325	Chemicals	9.3	8.7	6.9
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	4.0	5.8	4.7
325180	Other Basic Inorganic Chemicals	3.6	2.2	3.4
325193	Ethyl Alcohol	2.9	1.8	0.6
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	16.7	20.4	7.3
325211	Plastics Materials and Resins	7.7	4.0	4.8
325212	Synthetic Rubber	0.0	0.0	0.0

325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	15.8	5.9	9.2
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	18.0	15.0	12.6
325412	Pharmaceutical Preparation	13.7	23.3	20.7
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.0	0.0
326	Plastics and Rubber Products	10.4	9.8	12.7
327	Nonmetallic Mineral Products	12.1	8.7	8.9
327120	Clay Building Material and Refractories	7.5	23.6	20.4
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	3.8	4.0	4.1
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	2.2	3.4	3.2
327310	Cements	0.8	1.3	1.4
327410	Lime	0.0	0.0	0.0
327420	Gypsum	3.3	4.9	5.7
327993	Mineral Wool	9.0	7.0	6.0
331	Primary Metals	1.5	1.1	0.8
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	9.9	8.3	6.5
3313	Alumina and Aluminum	1.8	1.1	0.7
331314	Secondary Smelting and Alloying of Aluminum	5.5	7.3	1.7
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	2.7	2.3	1.9
3314	Nonferrous Metals, except Aluminum	5.6	8.8	3.5
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0
3315	Foundries	1.7	1.6	1.3
331511	Iron Foundries	3.5	2.8	2.1
331523	Nonferrous Metal Die-Casting Foundries	2.3	1.5	1.3
331524	Aluminum Foundries, except Die-Casting	2.8	1.3	1.1
332	Fabricated Metal Products	14.2	15.0	13.5
333	Machinery	10.9	10.2	9.5
334	Computer and Electronic Products	13.0	15.7	15.7
334413	Semiconductors and Related Devices	9.1	9.7	9.6
335	Electrical Equip., Appliances, and Components	48.7	28.7	60.5
336	Transportation Equipment	14.4	13.4	13.7
336111	Automobiles	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0
3364	Aerospace Product and Parts	2.7	2.5	2.7
336411	Aircraft	1.5	1.8	1.3
337	Furniture and Related Products	15.2	20.2	18.3
339	Miscellaneous	18.1	16.8	15.4
	Total	3.8	3.3	3.3

South Census Region

311	Food	5.7	8.3	6.7
3112	Grain and Oilseed Milling	6.4	4.5	4.9
311221	Wet Corn Milling	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	5.9	5.3	4.6
3115	Dairy Product	8.8	9.4	9.4
3116	Animal Slaughtering and Processing	6.3	7.5	7.9
312	Beverage and Tobacco Products	17.6	16.7	16.6
3121	Beverages	20.1	20.2	19.5
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	13.2	16.7	9.9
314	Textile Product Mills	20.5	40.0	25.6
315	Apparel	14.8	21.1	19.5
316	Leather and Allied Products	8.1	8.1	6.2
321	Wood Products	8.4	10.0	7.5
321113	Sawmills	7.1	27.0	13.3
3212	Veneer, Plywood, and Engineered Woods	16.9	3.8	4.4
321219	Reconstituted Wood Products	5.0	1.7	1.8
3219	Other Wood Products	28.3	28.4	28.5
322	Paper	10.4	5.9	6.8
322110	Pulp Mills	D	D	D
322121	Paper Mills, except Newsprint	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	11.9	12.2	10.8
324	Petroleum and Coal Products	1.9	0.5	0.3
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	14.7	14.3	13.8
324122	Asphalt Shingle and Coating Materials	4.1	5.5	3.9

324191	Petroleum Lubricating Oil and Grease Products	25.6	20.8	20.5
324199	Other Petroleum and Coal Products	0.0	0.0	0.0
325	Chemicals	5.6	5.0	4.1
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	15.0	16.6	11.7
325180	Other Basic Inorganic Chemicals	25.1	16.4	14.7
325193	Ethyl Alcohol	0.0	0.0	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	3.5	5.2	3.8
325211	Plastics Materials and Resins	9.4	3.7	3.0
325212	Synthetic Rubber	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	20.3	11.4	7.2
325312	Phosphatic Fertilizers	D	D	D
3254	Pharmaceuticals and Medicines	14.9	15.0	15.9
325412	Pharmaceutical Preparation	22.7	22.8	22.8
325992	Photographic Film, Paper, Plate, and Chemicals	24.2	17.6	10.7
326	Plastics and Rubber Products	16.8	14.3	14.4
327	Nonmetallic Mineral Products	8.7	9.5	9.2
327120	Clay Building Material and Refractories	5.1	8.6	7.1
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	9.5	13.1	16.7
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	3.8	2.4	2.5
327310	Cements	10.0	7.0	9.2
327410	Lime	0.0	0.0	0.0
327420	Gypsum	7.5	6.3	11.1
327993	Mineral Wool	9.7	11.6	6.8
331	Primary Metals	4.1	2.6	2.2
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	25.0	23.6	22.2
3313	Alumina and Aluminum	0.8	1.0	1.6
331314	Secondary Smelting and Alloying of Aluminum	3.7	9.6	5.8
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	2.0	1.4	1.1
3314	Nonferrous Metals, except Aluminum	19.7	10.2	7.8
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0
3315	Foundries	3.7	2.6	1.8
331511	Iron Foundries	7.2	5.6	3.6
331523	Nonferrous Metal Die-Casting Foundries	4.3	3.1	2.3
331524	Aluminum Foundries, except Die-Casting	8.9	4.9	4.1
332	Fabricated Metal Products	24.1	22.1	21.6
333	Machinery	41.5	32.1	30.7
334	Computer and Electronic Products	17.8	17.0	19.5
334413	Semiconductors and Related Devices	5.1	4.1	4.5
335	Electrical Equip., Appliances, and Components	14.7	16.6	20.9
336	Transportation Equipment	9.2	12.2	11.7
336111	Automobiles	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0
3364	Aerospace Product and Parts	8.0	11.2	10.3
336411	Aircraft	12.8	13.3	13.3
337	Furniture and Related Products	12.9	52.7	58.9
339	Miscellaneous	14.0	730.5	13.8
	Total	3.9	14.3	2.7

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311	Food	18.8	19.7	16.3
3112	Grain and Oilseed Milling	12.9	10.5	31.1
311221	Wet Corn Milling	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	9.5	7.4	5.7
3115	Dairy Product	7.6	4.4	4.1
3116	Animal Slaughtering and Processing	60.7	60.5	60.5
312	Beverage and Tobacco Products	10.9	11.2	9.0
3121	Beverages	10.9	11.3	9.0
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	17.3	24.3	35.5
314	Textile Product Mills	91.2	67.5	73.1
315	Apparel	16.6	74.4	63.7
316	Leather and Allied Products	14.7	14.5	11.2
321	Wood Products	9.4	8.0	6.2
321113	Sawmills	3.7	3.6	2.6
3212	Veneer, Plywood, and Engineered Woods	14.2	10.9	7.8
321219	Reconstituted Wood Products	15.9	6.9	10.7

3219	Other Wood Products	13.6	13.5	13.1
322	Paper	22.6	17.2	16.0
322110	Pulp Mills	0.0	0.0	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	28.4	39.2	35.4
324	Petroleum and Coal Products	1.8	0.3	0.2
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	10.0	6.6	10.0
324122	Asphalt Shingle and Coating Materials	2.1	2.7	2.2
324191	Petroleum Lubricating Oil and Grease Products	0.0	0.0	0.0
324199	Other Petroleum and Coal Products	0.0	0.0	0.0
325	Chemicals	15.6	6.5	6.8
325110	Petrochemicals	X	X	X
325120	Industrial Gases	33.0	20.0	18.4
325180	Other Basic Inorganic Chemicals	19.5	9.1	9.5
325193	Ethyl Alcohol	0.0	0.0	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	8.2	11.0	10.6
325211	Plastics Materials and Resins	8.8	7.2	5.8
325212	Synthetic Rubber	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	194.5	297.8	262.1
325312	Phosphatic Fertilizers	D	D	D
3254	Pharmaceuticals and Medicines	21.0	5.3	6.5
325412	Pharmaceutical Preparation	37.6	7.7	8.2
325992	Photographic Film, Paper, Plate, and Chemicals	4.8	0.1	0.1
326	Plastics and Rubber Products	19.7	26.4	20.2
327	Nonmetallic Mineral Products	18.1	17.8	17.1
327120	Clay Building Material and Refractories	5.8	9.1	7.7
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	27.2	17.5	13.1
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	10.1	7.5	6.8
327310	Cements	9.3	5.6	3.9
327410	Lime	0.0	0.0	0.0
327420	Gypsum	9.3	42.0	35.5
327993	Mineral Wool	6.8	5.2	6.7
331	Primary Metals	2.3	2.2	1.4
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	7.5	5.2	7.3
3313	Alumina and Aluminum	1.7	0.8	0.7
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	3.3	2.6	2.4
3314	Nonferrous Metals, except Aluminum	11.9	8.0	4.6
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	25.8	13.3	7.0
3315	Foundries	1.5	3.6	2.9
331511	Iron Foundries	11.0	2.5	1.7
331523	Nonferrous Metal Die-Casting Foundries	2.9	12.5	10.5
331524	Aluminum Foundries, except Die-Casting	6.1	9.4	10.1
332	Fabricated Metal Products	31.7	29.1	28.2
333	Machinery	32.2	30.2	32.1
334	Computer and Electronic Products	15.4	20.3	16.0
334413	Semiconductors and Related Devices	18.3	9.9	10.2
335	Electrical Equip., Appliances, and Components	79.6	44.5	27.6
336	Transportation Equipment	6.6	5.0	4.9
336111	Automobiles	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0
3364	Aerospace Product and Parts	5.2	1.7	2.2
336411	Aircraft	9.0	3.2	2.9
337	Furniture and Related Products	23.6	22.4	22.4
339	Miscellaneous	19.9	24.0	21.0
	Total	5.4	4.6	3.8

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

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

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

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding. Operating ratios were calculated using the estimates of fuel consumption reported in Table 3.2.

Sources: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy

Consumption Survey, and the Bureau of the Census, data files for the 2018 Annual Survey of Manufactures.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY21-312).