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Next MECS will be fielded in 2027

**Table 6.1 Consumption ratios of fuel, 2022**

Level: National and regional data  
 Row: NAICS codes  
 Column: Energy consumption ratios  
 Unit: British thermal units (Btu)

NAICS code <sup>a</sup>	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)
<b>Total United States</b>				
311	Food	1,029.7	4.4	1.5
3112	Grain and Oilseed Milling	6,197.4	8.6	2.4
311221	Wet Corn Milling and Starch Manufacturing	23,025.8	23.7	9.0
31131	Sugar Manufacturing	7,796.0	40.0	14.7
3114	Fruit and Vegetable Preserving and Specialty Food	820.6	3.1	1.6
3115	Dairy Product Manufacturing	1,118.5	4.1	1.1
3116	Animal Slaughtering and Processing	534.0	2.7	0.9
312	Beverage and Tobacco Products	1,236.7	2.8	1.7
3121	Beverages	1,269.2	4.2	2.2
3122	Tobacco	638.6	0.2	0.2
313	Textile Mills	901.0	5.4	2.4
314	Textile Product Mills	184.4	1.9	0.9
315	Apparel	47.7	0.6	0.3
316	Leather and Allied Products	138.5	1.3	0.7
321	Wood Products	1,281.6	6.3	2.9
321113	Sawmills	2,896.5	10.9	5.3
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	2,236.6	8.6	4.1
321219	Reconstituted Wood Products	7,981.6	15.2	8.4
3219	Other Wood Products	354.5	2.1	1.1
322	Paper	5,374.3	20.6	9.0
322110	Pulp Mills	38,021.0	73.8	40.4
322120	Paper Mills	10,972.3	33.6	16.0
322130	Paperboard Mills	28,577.9	43.7	24.3
323	Printing and Related Support	192.0	1.3	0.7
324	Petroleum and Coal Products	37,134.1	20.7	4.1
324110	Petroleum Refineries	61,062.7	22.1	4.1
324121	Asphalt Paving Mixture and Block	7,807.5	22.6	6.9
324122	Asphalt Shingle and Coating Materials	1,705.4	2.4	1.2
324191	Petroleum Lubricating Oil and Grease Manufacturing	1,194.0	2.0	0.6
324199	All Other Petroleum and Coal Products Manufacturing	23,815.9	52.5	16.3
325	Chemicals	5,199.0	8.1	4.5
325110	Petrochemicals	76,670.1	20.2	9.9
325120	Industrial Gases	15,893.8	21.3	16.5
325180	Other Basic Inorganic Chemical Manufacturing	7,278.0	16.6	9.6
325193	Ethyl Alcohol	48,340.2	67.5	9.3
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	15,048.7	25.0	11.8
325199	All Other Basic Organic Chemical Manufacturing	7,662.6	11.2	5.2
325211	Plastics Materials and Resins	9,357.2	19.0	6.6
325212	Synthetic Rubber	5,306.0	14.9	6.0
325220	Artificial and Synthetic Fibers and Filaments	1,891.9	7.4	3.5
325311	Nitrogenous Fertilizers	31,728.6	20.6	13.8
325312	Phosphatic Fertilizers	3,714.7	6.1	3.0
3254	Pharmaceuticals and Medicines	380.3	0.6	0.5
325412	Pharmaceutical Preparation	411.8	0.5	0.4
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	1,058.7	3.3	1.6
326	Plastics and Rubber Products	511.9	2.8	1.3
327	Nonmetallic Mineral Products	3,275.3	13.8	7.9
327120	Clay Building Material and Refractories	1,859.1	9.9	6.2
327211	Flat Glass	3,870.8	19.6	10.1
327212	Other Pressed and Blown Glass and Glassware	2,659.1	11.6	7.9
327213	Glass Containers	4,325.9	10.9	8.2
327215	Glass Products from Purchased Glass	Q	Q	Q
327310	Cements	23,647.3	54.6	34.2
327410	Lime	30,726.3	74.0	40.5
327420	Gypsum	7,475.5	20.1	10.5
327993	Mineral Wool	3,238.9	11.2	6.4
331	Primary Metals	4,136.6	11.8	4.4
331110	Iron and Steel Mills and Ferroalloys	13,525.4	21.2	8.0
3312	Steel Products from Purchased Steel	1,139.6	3.3	1.3
3313	Alumina and Aluminum Production and Processing	2,416.8	8.1	2.7
331314	Secondary Smelting and Alloying of Aluminum	4,508.2	11.4	2.4

331315	Aluminum Sheet, Plate and Foils	3,239.2	7.4	2.7
331318	Other Aluminum Rolling, Drawing and Extruding	1,046.1	5.5	1.8
3314	Nonferrous Metal (except Aluminum) Production and Processing	1,619.4	4.7	1.5
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	4,910.2	8.0	2.9
3315	Foundries	922.1	5.6	3.0
331511	Iron Foundries	1,444.6	7.4	4.1
331523	Nonferrous Metal Die-Casting Foundries	880.1	6.8	3.3
331524	Aluminum Foundries, except Die-Casting	497.5	3.9	2.3
332	Fabricated Metal Products	329.3	1.8	1.0
333	Machinery	152.6	0.7	0.4
334	Computer and Electronic Products	168.3	0.5	0.2
334413	Semiconductors and Related Devices	761.0	2.5	1.3
335	Electrical Equipment, Appliances, and Components	226.2	1.1	0.5
336	Transportation Equipment	226.1	0.9	0.3
336110	Automobile and Light Duty Motor Vehicle Manufacturing	395.0	0.9	0.2
3364	Aerospace Product and Parts	163.9	0.7	0.3
336411	Aircraft	101.9	0.4	0.2
337	Furniture and Related Products	198.6	1.7	0.9
339	Miscellaneous	139.4	0.7	0.4
	Total	1,528.4	5.6	2.4

**Northeast Census Region**

311	Food	584.2	3.0	1.1
3112	Grain and Oilseed Milling	1,551.5	4.3	0.8
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	0.0
31131	Sugar Manufacturing	378.6	8.1	2.6
3114	Fruit and Vegetable Preserving and Specialty Food	508.9	2.5	1.2
3115	Dairy Product Manufacturing	844.3	4.2	1.3
3116	Animal Slaughtering and Processing	459.7	2.5	0.8
312	Beverage and Tobacco Products	574.0	2.2	1.2
3121	Beverages	553.3	2.1	1.1
3122	Tobacco	2,128.3	11.0	7.8
313	Textile Mills	661.7	4.0	1.9
314	Textile Product Mills	57.5	0.9	0.5
315	Apparel	56.5	Q	0.6
316	Leather and Allied Products	106.2	1.0	0.6
321	Wood Products	1,358.3	7.4	3.8
321113	Sawmills	978.8	5.2	2.9
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	6,920.5	42.4	20.1
321219	Reconstituted Wood Products	Q	83.6	43.3
3219	Other Wood Products	322.4	1.7	1.0
322	Paper	2,626.1	11.6	5.3
322110	Pulp Mills	D	D	D
322120	Paper Mills	10,108.4	20.8	12.2
322130	Paperboard Mills	9,349.2	21.0	11.0
323	Printing and Related Support	195.6	1.1	0.7
324	Petroleum and Coal Products	20,592.3	26.7	4.8
324110	Petroleum Refineries	47,418.8	30.4	3.7
324121	Asphalt Paving Mixture and Block	13,464.0	31.8	12.2
324122	Asphalt Shingle and Coating Materials	1,484.7	2.8	1.4
324191	Petroleum Lubricating Oil and Grease Manufacturing	526.1	0.5	0.2
324199	All Other Petroleum and Coal Products Manufacturing	21,011.9	306.2	96.5
325	Chemicals	1,152.6	1.8	1.3
325110	Petrochemicals	15,973.3	5.8	3.5
325120	Industrial Gases	6,802.2	Q	11.7
325180	Other Basic Inorganic Chemical Manufacturing	4,934.6	10.5	6.4
325193	Ethyl Alcohol	8,028.7	44.9	5.5
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	2,455.9	8.3	3.4
325199	All Other Basic Organic Chemical Manufacturing	3,756.1	6.6	3.4
325211	Plastics Materials and Resins	1,385.4	4.6	2.2
325212	Synthetic Rubber	Q	Q	Q
325220	Artificial and Synthetic Fibers and Filaments	412.4	3.4	1.4
325311	Nitrogenous Fertilizers	465.5	0.9	0.6
325312	Phosphatic Fertilizers	60.9	0.1	0.1
3254	Pharmaceuticals and Medicines	336.8	0.7	0.5
325412	Pharmaceutical Preparation	368.1	0.6	0.5
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	1,102.6	3.0	1.6
326	Plastics and Rubber Products	453.6	Q	1.1
327	Nonmetallic Mineral Products	Q	Q	Q
327120	Clay Building Material and Refractories	1,643.4	10.7	6.0
327211	Flat Glass	4,710.4	18.6	9.6
327212	Other Pressed and Blown Glass and Glassware	1,401.3	9.3	6.4
327213	Glass Containers	3,421.5	9.2	7.0
327215	Glass Products from Purchased Glass	Q	Q	Q
327310	Cements	8,054.3	62.1	28.0
327410	Lime	50,955.0	141.6	87.6

327420	Gypsum	14,135.8	29.3	13.8
327993	Mineral Wool	2,991.5	8.2	5.1
331	Primary Metals	3,013.5	10.1	3.6
331110	Iron and Steel Mills and Ferroalloys	9,182.8	21.3	7.6
3312	Steel Products from Purchased Steel	901.0	3.0	1.3
3313	Alumina and Aluminum Production and Processing	3,804.6	12.8	3.5
331314	Secondary Smelting and Alloying of Aluminum	14,123.6	31.2	21.6
331315	Aluminum Sheet, Plate and Foils	3,996.5	11.4	2.4
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	1,015.1	3.5	1.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1,961.3	7.2	1.1
3315	Foundries	544.4	3.3	2.0
331511	Iron Foundries	984.6	4.7	2.8
331523	Nonferrous Metal Die-Casting Foundries	365.4	2.9	2.0
331524	Aluminum Foundries, except Die-Casting	356.4	3.1	2.0
332	Fabricated Metal Products	291.7	1.4	0.8
333	Machinery	121.6	0.6	0.3
334	Computer and Electronic Products	137.9	0.4	0.3
334413	Semiconductors and Related Devices	836.5	3.5	2.3
335	Electrical Equipment, Appliances, and Components	537.9	3.1	1.5
336	Transportation Equipment	240.4	1.0	0.6
336110	Automobile and Light Duty Motor Vehicle Manufacturing	222.6	3.2	1.1
3364	Aerospace Product and Parts	209.7	0.5	0.3
336411	Aircraft	196.7	0.9	0.4
337	Furniture and Related Products	152.9	1.3	Q
339	Miscellaneous	157.7	0.9	0.6
	Total	845.8	3.2	1.7

**Midwest Census Region**

311	Food	1,581.3	5.6	1.7
3112	Grain and Oilseed Milling	9,437.0	11.9	3.2
311221	Wet Corn Milling and Starch Manufacturing	24,863.1	25.6	11.6
31131	Sugar Manufacturing	9,276.9	27.1	12.5
3114	Fruit and Vegetable Preserving and Specialty Food	713.9	2.2	1.1
3115	Dairy Product Manufacturing	1,115.9	3.6	1.0
3116	Animal Slaughtering and Processing	609.9	3.1	0.8
312	Beverage and Tobacco Products	502.9	2.4	1.1
3121	Beverages	502.7	2.4	1.1
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	588.2	4.1	1.9
314	Textile Product Mills	Q	Q	Q
315	Apparel	Q	Q	Q
316	Leather and Allied Products	Q	1.9	0.9
321	Wood Products	467.0	2.4	1.2
321113	Sawmills	908.6	4.0	1.9
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	1,047.2	4.8	2.3
321219	Reconstituted Wood Products	8,874.5	14.4	7.9
3219	Other Wood Products	273.5	1.5	0.8
322	Paper	2,966.1	12.2	4.9
322110	Pulp Mills	D	D	D
322120	Paper Mills	11,992.7	40.3	16.5
322130	Paperboard Mills	11,659.7	22.5	10.9
323	Printing and Related Support	230.4	1.4	0.8
324	Petroleum and Coal Products	29,260.1	20.5	3.9
324110	Petroleum Refineries	54,489.0	22.2	3.9
324121	Asphalt Paving Mixture and Block	10,703.1	22.9	7.0
324122	Asphalt Shingle and Coating Materials	2,092.3	3.4	1.6
324191	Petroleum Lubricating Oil and Grease Manufacturing	532.0	1.6	0.4
324199	All Other Petroleum and Coal Products Manufacturing	30,555.9	40.0	12.0
325	Chemicals	4,726.2	8.3	3.9
325110	Petrochemicals	10,405.6	27.1	22.3
325120	Industrial Gases	15,619.2	18.0	12.2
325180	Other Basic Inorganic Chemical Manufacturing	4,272.6	6.3	4.2
325193	Ethyl Alcohol	52,161.2	70.6	9.7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	9,211.8	21.0	7.5
325199	All Other Basic Organic Chemical Manufacturing	3,407.6	7.4	2.9
325211	Plastics Materials and Resins	4,567.1	13.5	5.1
325212	Synthetic Rubber	219.1	1.0	0.3
325220	Artificial and Synthetic Fibers and Filaments	1,378.6	9.0	3.2
325311	Nitrogenous Fertilizers	38,886.9	18.0	13.1
325312	Phosphatic Fertilizers	10,887.8	13.9	7.3
3254	Pharmaceuticals and Medicines	871.6	1.9	1.1
325412	Pharmaceutical Preparation	1,199.1	2.5	1.4
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	310.4	1.8	1.0
326	Plastics and Rubber Products	569.4	4.1	1.7
327	Nonmetallic Mineral Products	3,099.8	13.2	7.5

327120	Clay Building Material and Refractories	1,081.2	7.2	4.3
327211	Flat Glass	4,695.1	28.2	13.8
327212	Other Pressed and Blown Glass and Glassware	2,577.0	11.9	8.2
327213	Glass Containers	3,969.7	9.2	7.1
327215	Glass Products from Purchased Glass	388.0	2.2	1.1
327310	Cements	18,226.3	31.0	22.5
327410	Lime	47,071.1	98.6	56.5
327420	Gypsum	4,373.2	23.4	9.0
327993	Mineral Wool	4,448.7	18.9	10.4
331	Primary Metals	5,347.5	16.8	6.1
331110	Iron and Steel Mills and Ferroalloys	18,390.1	34.5	12.6
3312	Steel Products from Purchased Steel	1,142.5	3.6	1.2
3313	Alumina and Aluminum Production and Processing	1,294.6	4.3	1.4
331314	Secondary Smelting and Alloying of Aluminum	4,184.5	13.7	2.6
331315	Aluminum Sheet, Plate and Foils	2,958.3	5.6	2.2
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	1,649.4	4.8	1.4
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1,122.7	3.2	1.1
3315	Foundries	1,183.3	7.4	4.0
331511	Iron Foundries	1,998.9	12.0	6.1
331523	Nonferrous Metal Die-Casting Foundries	1,045.1	6.9	3.7
331524	Aluminum Foundries, except Die-Casting	563.3	4.3	2.5
332	Fabricated Metal Products	319.4	2.2	1.2
333	Machinery	198.8	0.8	0.5
334	Computer and Electronic Products	208.1	1.1	0.6
334413	Semiconductors and Related Devices	498.4	2.1	1.4
335	Electrical Equipment, Appliances, and Components	186.0	0.7	0.4
336	Transportation Equipment	274.8	1.1	0.4
336110	Automobile and Light Duty Motor Vehicle Manufacturing	460.7	1.2	0.3
3364	Aerospace Product and Parts	233.6	1.1	0.5
336411	Aircraft	136.4	0.7	0.3
337	Furniture and Related Products	175.9	1.4	0.7
339	Miscellaneous	229.8	1.3	0.7
	Total	1,261.0	5.2	2.1

**South Census Region**

311	Food	957.6	4.3	1.6
3112	Grain and Oilseed Milling	3,067.8	4.2	1.2
311221	Wet Corn Milling and Starch Manufacturing	12,430.8	10.0	1.7
31131	Sugar Manufacturing	13,529.1	52.5	17.6
3114	Fruit and Vegetable Preserving and Specialty Food	758.8	3.0	1.5
3115	Dairy Product Manufacturing	1,696.3	6.3	1.9
3116	Animal Slaughtering and Processing	503.3	2.8	1.1
312	Beverage and Tobacco Products	Q	Q	Q
3121	Beverages	Q	Q	Q
3122	Tobacco	629.1	0.2	0.2
313	Textile Mills	1,034.8	5.8	2.6
314	Textile Product Mills	351.0	2.5	1.0
315	Apparel	56.5	0.8	0.4
316	Leather and Allied Products	79.2	0.8	0.5
321	Wood Products	1,980.1	9.0	4.0
321113	Sawmills	3,599.6	14.2	6.8
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	3,186.4	9.7	5.1
321219	Reconstituted Wood Products	8,218.5	12.4	7.4
3219	Other Wood Products	581.6	3.7	1.6
322	Paper	7,247.4	28.9	12.2
322110	Pulp Mills	39,596.7	75.2	42.3
322120	Paper Mills	10,187.3	41.6	18.0
322130	Paperboard Mills	34,460.8	48.4	28.1
323	Printing and Related Support	190.9	1.3	0.7
324	Petroleum and Coal Products	41,678.3	18.2	3.7
324110	Petroleum Refineries	64,649.6	19.3	3.8
324121	Asphalt Paving Mixture and Block	4,809.2	18.4	4.7
324122	Asphalt Shingle and Coating Materials	1,786.2	2.1	1.1
324191	Petroleum Lubricating Oil and Grease Manufacturing	2,074.0	2.8	0.9
324199	All Other Petroleum and Coal Products Manufacturing	16,253.3	33.4	10.8
325	Chemicals	9,095.7	14.9	7.2
325110	Petrochemicals	78,115.2	20.4	9.9
325120	Industrial Gases	34,683.8	38.1	26.4
325180	Other Basic Inorganic Chemical Manufacturing	8,228.0	21.6	11.4
325193	Ethyl Alcohol	36,984.7	52.2	6.5
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	18,825.3	24.3	12.0
325199	All Other Basic Organic Chemical Manufacturing	9,914.4	12.4	6.0
325211	Plastics Materials and Resins	14,134.3	22.4	7.4
325212	Synthetic Rubber	9,989.2	21.0	8.3
325220	Artificial and Synthetic Fibers and Filaments	1,963.1	7.4	3.6

325311	Nitrogenous Fertilizers	57,804.9	27.1	18.2
325312	Phosphatic Fertilizers	2,802.6	5.0	2.4
3254	Pharmaceuticals and Medicines	335.8	0.7	0.5
325412	Pharmaceutical Preparation	409.1	0.5	0.4
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	891.7	4.8	1.5
326	Plastics and Rubber Products	512.6	3.1	1.4
327	Nonmetallic Mineral Products	3,167.1	12.1	6.9
327120	Clay Building Material and Refractories	2,644.9	11.9	7.5
327211	Flat Glass	3,313.6	16.8	8.8
327212	Other Pressed and Blown Glass and Glassware	4,134.3	12.4	8.3
327213	Glass Containers	5,389.6	15.0	10.9
327215	Glass Products from Purchased Glass	722.0	4.6	2.2
327310	Cements	33,449.4	78.4	44.9
327410	Lime	21,385.4	57.4	29.6
327420	Gypsum	9,345.6	18.3	11.0
327993	Mineral Wool	2,726.5	8.7	4.7
331	Primary Metals	3,442.2	8.4	3.2
331110	Iron and Steel Mills and Ferroalloys	8,777.0	9.6	3.7
3312	Steel Products from Purchased Steel	1,051.9	3.0	1.2
3313	Alumina and Aluminum Production and Processing	4,023.4	12.9	4.5
331314	Secondary Smelting and Alloying of Aluminum	4,753.7	9.5	2.2
331315	Aluminum Sheet, Plate and Foils	3,295.5	8.5	3.5
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	1,733.2	6.0	1.8
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	10,158.2	22.6	8.7
3315	Foundries	778.1	4.6	2.4
331511	Iron Foundries	854.2	3.9	2.2
331523	Nonferrous Metal Die-Casting Foundries	852.5	9.1	3.2
331524	Aluminum Foundries, except Die-Casting	481.4	3.2	1.7
332	Fabricated Metal Products	Q	Q	Q
333	Machinery	129.0	0.6	0.3
334	Computer and Electronic Products	190.8	0.8	0.4
334413	Semiconductors and Related Devices	868.4	2.1	1.2
335	Electrical Equipment, Appliances, and Components	218.2	1.1	0.5
336	Transportation Equipment	221.6	0.9	0.3
336110	Automobile and Light Duty Motor Vehicle Manufacturing	402.3	0.9	0.2
3364	Aerospace Product and Parts	162.7	0.6	0.3
336411	Aircraft	133.8	0.4	0.2
337	Furniture and Related Products	Q	2.5	Q
339	Miscellaneous	113.7	0.5	0.4
	Total	2,459.3	8.4	3.3

#### West Census Region

311	Food	630.2	3.0	1.0
3112	Grain and Oilseed Milling	847.4	1.7	0.5
311221	Wet Corn Milling and Starch Manufacturing	1,147.8	3.9	1.2
31131	Sugar Manufacturing	6,886.5	44.4	14.7
3114	Fruit and Vegetable Preserving and Specialty Food	1,060.2	4.4	2.3
3115	Dairy Product Manufacturing	995.7	3.8	0.9
3116	Animal Slaughtering and Processing	439.9	1.6	0.6
312	Beverage and Tobacco Products	329.1	1.1	0.6
3121	Beverages	332.2	1.2	0.6
3122	Tobacco	12.6	0.1	*
313	Textile Mills	356.1	3.5	1.7
314	Textile Product Mills	96.7	1.0	0.5
315	Apparel	Q	Q	0.1
316	Leather and Allied Products	38.2	0.4	0.2
321	Wood Products	1,170.4	5.7	2.6
321113	Sawmills	3,080.4	9.2	4.6
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	1,182.2	5.2	2.1
321219	Reconstituted Wood Products	1,984.9	9.1	3.5
3219	Other Wood Products	212.4	1.6	0.8
322	Paper	8,282.0	Q	7.9
322110	Pulp Mills	46,605.1	81.1	40.1
322120	Paper Mills	14,805.0	53.5	21.4
322130	Paperboard Mills	24,928.8	42.9	21.3
323	Printing and Related Support	103.6	0.9	0.5
324	Petroleum and Coal Products	43,094.1	28.6	5.6
324110	Petroleum Refineries	60,926.5	30.8	5.7
324121	Asphalt Paving Mixture and Block	3,209.5	10.4	3.0
324122	Asphalt Shingle and Coating Materials	1,012.9	1.7	0.9
324191	Petroleum Lubricating Oil and Grease Manufacturing	208.4	0.4	0.1
324199	All Other Petroleum and Coal Products Manufacturing	217,468.8	179.7	51.0
325	Chemicals	1,245.4	1.5	1.2
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	Q	10.6	8.3

325180	Other Basic Inorganic Chemical Manufacturing	6,568.2	14.0	10.0
325193	Ethyl Alcohol	20,634.6	26.3	4.6
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	8,340.4	34.3	15.1
325199	All Other Basic Organic Chemical Manufacturing	7,062.5	14.0	5.4
325211	Plastics Materials and Resins	613.9	2.7	1.1
325212	Synthetic Rubber	243.9	1.0	0.7
325220	Artificial and Synthetic Fibers and Filaments	984.9	2.3	1.6
325311	Nitrogenous Fertilizers	3,824.5	5.9	3.4
325312	Phosphatic Fertilizers	2,651.0	3.6	2.0
3254	Pharmaceuticals and Medicines	124.1	0.1	0.1
325412	Pharmaceutical Preparation	113.7	0.1	0.1
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	1,527.8	3.5	2.0
326	Plastics and Rubber Products	416.3	Q	0.6
327	Nonmetallic Mineral Products	4,173.3	18.3	10.2
327120	Clay Building Material and Refractories	880.1	4.6	3.3
327211	Flat Glass	3,215.3	14.4	8.1
327212	Other Pressed and Blown Glass and Glassware	2,031.1	11.9	9.2
327213	Glass Containers	4,176.3	10.1	7.6
327215	Glass Products from Purchased Glass	360.4	2.2	1.5
327310	Cements	34,502.9	60.1	37.9
327410	Lime	23,438.0	50.3	29.0
327420	Gypsum	5,676.4	18.7	9.2
327993	Mineral Wool	1,898.0	6.1	4.5
331	Primary Metals	2,100.7	5.4	2.3
331110	Iron and Steel Mills and Ferroalloys	6,015.6	8.0	3.8
3312	Steel Products from Purchased Steel	2,848.0	4.2	1.7
3313	Alumina and Aluminum Production and Processing	2,342.7	11.2	2.6
331314	Secondary Smelting and Alloying of Aluminum	3,053.0	11.9	2.0
331315	Aluminum Sheet, Plate and Foils	3,803.1	21.5	5.3
331318	Other Aluminum Rolling, Drawing and Extruding	1,370.1	6.3	1.6
3314	Nonferrous Metal (except Aluminum) Production and Processing	2,627.0	4.4	2.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	6,536.1	5.7	2.8
3315	Foundries	494.7	2.8	1.5
331511	Iron Foundries	1,095.2	3.9	2.5
331523	Nonferrous Metal Die-Casting Foundries	397.6	3.6	1.9
331524	Aluminum Foundries, except Die-Casting	326.4	3.3	2.0
332	Fabricated Metal Products	103.4	0.5	0.2
333	Machinery	92.6	Q	0.3
334	Computer and Electronic Products	150.9	0.4	Q
334413	Semiconductors and Related Devices	687.4	2.6	1.1
335	Electrical Equipment, Appliances, and Components	Q	Q	Q
336	Transportation Equipment	107.5	0.4	0.2
336110	Automobile and Light Duty Motor Vehicle Manufacturing	100.9	0.2	0.1
3364	Aerospace Product and Parts	120.1	0.6	0.3
336411	Aircraft	63.4	0.3	0.1
337	Furniture and Related Products	59.9	0.7	0.4
339	Miscellaneous	65.8	0.3	0.2
	Total	939.1	3.2	1.4

Data Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey, and the Bureau of the Census, data files for the 2022 Economic Census, Manufacturing – Industry Series.

Note: 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.

<sup>a</sup> The Bureau of the Census classifies establishments using the 2022 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 (RSE) is greater than 50%

NA=Not available

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).

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 Next MECS will be fielded in 2027

**RSE Table 6.1 Relative standard errors for Table 6.1**

Unit: Percentage

NAICS code <sup>a</sup>	Subsector and industry	Consumption per employee	Consumption per dollar of value added	Consumption per dollar of value of shipments
<b>Total United States</b>				
311	Food	4.1	3.6	3.3
3112	Grain and Oilseed Milling	5.6	11.1	7.3
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	4.9	3.6	3.9
3115	Dairy Product Manufacturing	5.7	5.6	5.2
3116	Animal Slaughtering and Processing	4.9	5.3	4.9
312	Beverage and Tobacco Products	40.3	40.1	40.1
3121	Beverages	41.5	41.5	41.3
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	7.2	13.6	7.5
314	Textile Product Mills	21.0	21.8	16.6
315	Apparel	14.9	23.9	21.1
316	Leather and Allied Products	34.3	30.5	31.7
321	Wood Products	5.0	4.4	4.2
321113	Sawmills	3.9	3.1	3.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	7.0	6.1	6.1
321219	Reconstituted Wood Products	12.8	0.4	3.1
3219	Other Wood Products	17.0	17.0	16.7
322	Paper	11.2	8.0	8.0
322110	Pulp Mills	0.0	0.0	0.0
322120	Paper Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	10.8	10.3	10.9
324	Petroleum and Coal Products	1.2	0.3	0.2
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	3.7	4.5	3.0
324122	Asphalt Shingle and Coating Materials	3.0	0.8	0.9
324191	Petroleum Lubricating Oil and Grease Manufacturing	12.6	12.8	11.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	0.0
325	Chemicals	5.4	7.3	5.8
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	18.9	16.3	12.5
325180	Other Basic Inorganic Chemical Manufacturing	16.7	6.8	9.6
325193	Ethyl Alcohol	1.7	3.5	0.9
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	All Other Basic Organic Chemical Manufacturing	7.2	6.4	4.3
325211	Plastics Materials and Resins	10.6	7.9	6.9
325212	Synthetic Rubber	4.8	4.3	2.5
325220	Artificial and Synthetic Fibers and Filaments	5.0	1.5	1.3
325311	Nitrogenous Fertilizers	0.0	0.0	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	12.4	9.2	9.2
325412	Pharmaceutical Preparation	16.0	15.1	15.3
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	0.0
326	Plastics and Rubber Products	15.6	18.3	15.5
327	Nonmetallic Mineral Products	14.2	15.2	14.6
327120	Clay Building Material and Refractories	5.2	5.5	6.8
327211	Flat Glass	3.3	1.3	1.5
327212	Other Pressed and Blown Glass and Glassware	2.5	2.2	2.0
327213	Glass Containers	0.1	0.1	0.1
327215	Glass Products from Purchased Glass	73.1	73.1	73.0
327310	Cements	4.3	1.7	2.6
327410	Lime	0.0	0.0	0.0
327420	Gypsum	4.0	5.3	4.7
327993	Mineral Wool	20.7	17.3	21.2
331	Primary Metals	0.9	1.0	0.7
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	3.8	6.4	4.2
3313	Alumina and Aluminum Production and Processing	0.7	0.5	0.4
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0
331315	Aluminum Sheet, Plate and Foils	0.5	0.7	0.7
331318	Other Aluminum Rolling, Drawing and Extruding	2.1	1.7	1.4
3314	Nonferrous Metal (except Aluminum) Production and Processing	4.0	2.7	2.2

331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1.9	0.7	0.5
3315	Foundries	1.6	1.6	1.4
331511	Iron Foundries	2.6	2.6	2.4
331523	Nonferrous Metal Die-Casting Foundries	1.8	1.9	2.3
331524	Aluminum Foundries, except Die-Casting	2.7	3.8	2.2
332	Fabricated Metal Products	24.3	25.6	25.6
333	Machinery	10.5	13.2	12.7
334	Computer and Electronic Products	13.5	19.5	39.2
334413	Semiconductors and Related Devices	4.6	5.1	3.6
335	Electrical Equipment, Appliances, and Components	10.0	11.6	10.4
336	Transportation Equipment	5.5	7.7	6.3
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.7	0.7	0.7
3364	Aerospace Product and Parts	6.0	4.6	4.0
336411	Aircraft	6.4	4.1	3.7
337	Furniture and Related Products	30.1	27.9	29.9
339	Miscellaneous	13.5	15.6	14.5
	Total	2.6	3.0	3.3

**Northeast Census Region**

311	Food	8.5	13.9	9.1
3112	Grain and Oilseed Milling	4.5	7.1	15.0
311221	Wet Corn Milling and Starch Manufacturing	X	X	X
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	32.2	36.7	44.6
3115	Dairy Product Manufacturing	8.2	7.7	4.3
3116	Animal Slaughtering and Processing	5.3	5.9	6.8
312	Beverage and Tobacco Products	22.7	18.3	19.5
3121	Beverages	23.4	19.0	20.2
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	21.4	27.5	20.3
314	Textile Product Mills	29.2	26.1	27.9
315	Apparel	45.9	51.0	49.3
316	Leather and Allied Products	11.9	15.2	13.7
321	Wood Products	15.7	21.4	18.7
321113	Sawmills	7.0	3.4	2.5
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	13.5	15.8	10.1
321219	Reconstituted Wood Products	73.8	27.8	21.0
3219	Other Wood Products	25.8	38.3	35.8
322	Paper	19.9	15.6	19.1
322110	Pulp Mills	D	D	D
322120	Paper Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	18.1	18.3	16.3
324	Petroleum and Coal Products	3.1	1.7	0.9
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	6.7	7.0	5.1
324122	Asphalt Shingle and Coating Materials	0.0	0.0	0.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	10.3	2.6	2.1
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	0.0
325	Chemicals	22.8	42.4	37.9
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	26.0	51.4	46.3
325180	Other Basic Inorganic Chemical Manufacturing	16.0	17.1	16.1
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	All Other Basic Organic Chemical Manufacturing	11.9	7.0	6.5
325211	Plastics Materials and Resins	48.3	16.7	11.6
325212	Synthetic Rubber	61.3	124.4	100.1
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	37.5	16.9	15.8
325412	Pharmaceutical Preparation	13.5	27.5	21.6
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	0.0
326	Plastics and Rubber Products	26.5	50.0	30.5
327	Nonmetallic Mineral Products	52.1	53.6	53.0
327120	Clay Building Material and Refractories	7.0	8.6	7.9
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	1.4	1.4	4.1
327213	Glass Containers	0.6	0.2	0.3
327215	Glass Products from Purchased Glass	93.1	93.6	93.2
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	2.7	5.6	3.1

331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	7.0	34.9	18.5
3313	Alumina and Aluminum Production and Processing	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	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	8.6	7.5	4.9
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	7.9	6.0	1.2
3315	Foundries	3.0	1.9	1.8
331511	Iron Foundries	6.2	1.3	1.6
331523	Nonferrous Metal Die-Casting Foundries	1.3	0.9	1.0
331524	Aluminum Foundries, except Die-Casting	2.0	1.7	1.7
332	Fabricated Metal Products	31.5	32.9	29.6
333	Machinery	28.3	34.6	34.3
334	Computer and Electronic Products	17.3	29.2	49.0
334413	Semiconductors and Related Devices	3.6	5.9	6.8
335	Electrical Equipment, Appliances, and Components	15.4	21.8	25.1
336	Transportation Equipment	22.4	15.2	15.6
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.0	0.0	0.0
3364	Aerospace Product and Parts	4.6	5.1	5.1
336411	Aircraft	11.3	11.3	11.3
337	Furniture and Related Products	32.4	24.1	56.9
339	Miscellaneous	30.4	34.3	38.2
	Total	8.0	10.8	9.5

**Midwest Census Region**

311	Food	5.5	6.2	5.0
3112	Grain and Oilseed Milling	9.0	15.4	10.3
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	5.8	3.4	3.5
3115	Dairy Product Manufacturing	9.5	10.6	9.2
3116	Animal Slaughtering and Processing	8.7	9.5	9.0
312	Beverage and Tobacco Products	11.8	10.7	8.5
3121	Beverages	11.8	10.7	8.5
3122	Tobacco	X	X	X
313	Textile Mills	25.9	18.5	16.3
314	Textile Product Mills	86.0	78.7	78.4
315	Apparel	54.1	141.0	129.8
316	Leather and Allied Products	52.1	46.4	47.4
321	Wood Products	12.7	12.4	12.1
321113	Sawmills	8.7	9.0	7.7
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	9.5	14.5	13.8
321219	Reconstituted Wood Products	7.3	2.0	3.1
3219	Other Wood Products	25.4	25.0	24.8
322	Paper	16.8	15.6	13.7
322110	Pulp Mills	D	D	D
322120	Paper Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	18.7	20.4	22.5
324	Petroleum and Coal Products	1.8	0.6	0.4
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	8.9	11.3	9.3
324122	Asphalt Shingle and Coating Materials	10.1	2.4	3.0
324191	Petroleum Lubricating Oil and Grease Manufacturing	3.6	6.9	2.9
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	0.0
325	Chemicals	10.2	19.6	14.4
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	49.9	31.5	29.1
325180	Other Basic Inorganic Chemical Manufacturing	19.3	21.3	17.9
325193	Ethyl Alcohol	1.9	3.9	1.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0
325199	All Other Basic Organic Chemical Manufacturing	28.5	13.7	12.4
325211	Plastics Materials and Resins	11.7	7.1	6.2
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	18.6	18.4	19.4
325412	Pharmaceutical Preparation	33.6	33.4	38.3
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	0.0
326	Plastics and Rubber Products	33.2	34.4	34.0
327	Nonmetallic Mineral Products	18.9	18.9	18.3
327120	Clay Building Material and Refractories	10.2	9.1	16.2
327211	Flat Glass	10.3	1.2	4.9
327212	Other Pressed and Blown Glass and Glassware	2.4	1.6	1.5

327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	4.9	4.7	6.3
327310	Cements	8.7	6.5	6.8
327410	Lime	0.0	0.0	0.0
327420	Gypsum	0.0	0.0	0.0
327993	Mineral Wool	40.7	35.8	38.5
331	Primary Metals	1.3	0.9	0.7
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	7.1	6.3	5.7
3313	Alumina and Aluminum Production and Processing	1.1	0.6	0.5
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	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	9.9	5.3	4.6
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	0.0	0.0
3315	Foundries	2.7	2.8	2.2
331511	Iron Foundries	3.5	4.3	3.6
331523	Nonferrous Metal Die-Casting Foundries	2.0	2.3	2.1
331524	Aluminum Foundries, except Die-Casting	4.5	6.0	2.7
332	Fabricated Metal Products	16.5	19.6	19.8
333	Machinery	14.9	18.8	17.9
334	Computer and Electronic Products	47.9	43.3	34.9
334413	Semiconductors and Related Devices	1.7	1.9	2.1
335	Electrical Equipment, Appliances, and Components	20.6	23.8	22.0
336	Transportation Equipment	7.5	17.1	10.1
336110	Automobile and Light Duty Motor Vehicle Manufacturing	0.1	0.1	0.1
3364	Aerospace Product and Parts	4.4	6.4	4.7
336411	Aircraft	4.6	6.9	5.3
337	Furniture and Related Products	15.7	15.7	15.5
339	Miscellaneous	21.8	22.6	21.7
	Total	4.1	5.2	4.1

**South Census Region**

311	Food	6.1	5.9	6.2
3112	Grain and Oilseed Milling	6.5	24.1	12.4
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	7.3	5.7	5.1
3115	Dairy Product Manufacturing	5.6	5.9	4.5
3116	Animal Slaughtering and Processing	7.1	7.6	7.2
312	Beverage and Tobacco Products	53.5	52.7	52.6
3121	Beverages	55.6	56.4	55.2
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	8.2	17.5	8.8
314	Textile Product Mills	25.9	43.2	25.7
315	Apparel	18.4	45.9	33.1
316	Leather and Allied Products	11.5	9.6	8.9
321	Wood Products	7.4	6.0	6.1
321113	Sawmills	5.2	3.6	3.4
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	10.1	7.6	8.1
321219	Reconstituted Wood Products	26.1	0.2	4.8
3219	Other Wood Products	30.8	31.3	30.6
322	Paper	22.6	11.6	14.9
322110	Pulp Mills	0.0	0.0	0.0
322120	Paper Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	20.6	17.7	18.7
324	Petroleum and Coal Products	2.1	0.4	0.3
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	5.6	9.8	6.2
324122	Asphalt Shingle and Coating Materials	1.8	1.0	0.9
324191	Petroleum Lubricating Oil and Grease Manufacturing	21.5	17.5	16.6
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	0.0
325	Chemicals	7.8	3.2	3.3
325110	Petrochemicals	0.0	0.0	0.0
325120	Industrial Gases	17.4	29.7	19.0
325180	Other Basic Inorganic Chemical Manufacturing	25.8	10.5	15.1
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	All Other Basic Organic Chemical Manufacturing	8.6	8.9	5.6
325211	Plastics Materials and Resins	16.1	10.9	9.1
325212	Synthetic Rubber	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	5.4	1.6	1.4
325311	Nitrogenous Fertilizers	0.0	0.0	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	11.5	4.6	3.6

325412	Pharmaceutical Preparation	5.5	4.3	3.7
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	0.0
326	Plastics and Rubber Products	22.7	22.5	19.1
327	Nonmetallic Mineral Products	17.3	22.5	19.7
327120	Clay Building Material and Refractories	7.8	8.8	10.3
327211	Flat Glass	3.8	2.9	2.0
327212	Other Pressed and Blown Glass and Glassware	7.3	4.8	3.9
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	9.9	9.5	6.9
327310	Cements	3.0	3.2	3.2
327410	Lime	0.0	0.0	0.0
327420	Gypsum	7.3	9.8	9.1
327993	Mineral Wool	25.7	9.1	28.0
331	Primary Metals	1.3	0.9	0.9
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	5.5	6.3	6.2
3313	Alumina and Aluminum Production and Processing	1.1	1.2	1.1
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0
331315	Aluminum Sheet, Plate and Foils	1.2	2.1	2.3
331318	Other Aluminum Rolling, Drawing and Extruding	D	D	D
3314	Nonferrous Metal (except Aluminum) Production and Processing	5.9	5.3	4.2
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.7	0.7	0.7
3315	Foundries	2.1	2.0	2.3
331511	Iron Foundries	2.5	1.6	2.3
331523	Nonferrous Metal Die-Casting Foundries	4.5	4.3	6.6
331524	Aluminum Foundries, except Die-Casting	8.1	11.1	11.6
332	Fabricated Metal Products	52.8	52.4	52.6
333	Machinery	16.5	30.1	26.9
334	Computer and Electronic Products	21.1	21.8	19.8
334413	Semiconductors and Related Devices	1.1	1.1	1.1
335	Electrical Equipment, Appliances, and Components	14.6	15.0	13.2
336	Transportation Equipment	11.9	11.4	11.9
336110	Automobile and Light Duty Motor Vehicle Manufacturing	1.4	1.4	1.4
3364	Aerospace Product and Parts	19.6	15.6	13.1
336411	Aircraft	1.5	3.6	3.3
337	Furniture and Related Products	50.6	46.7	50.3
339	Miscellaneous	17.8	26.1	23.1
	Total	4.5	3.6	3.4

**West Census Region**

311	Food	10.6	5.9	6.8
3112	Grain and Oilseed Milling	9.0	21.9	19.9
311221	Wet Corn Milling and Starch Manufacturing	0.0	0.0	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	8.5	5.3	4.9
3115	Dairy Product Manufacturing	14.2	11.5	10.0
3116	Animal Slaughtering and Processing	9.6	9.1	7.0
312	Beverage and Tobacco Products	17.2	14.1	13.5
3121	Beverages	17.2	14.1	13.6
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	31.6	33.0	34.3
314	Textile Product Mills	36.5	44.3	38.9
315	Apparel	52.7	58.7	44.4
316	Leather and Allied Products	33.4	37.6	37.3
321	Wood Products	12.7	8.7	8.5
321113	Sawmills	9.2	7.9	7.8
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	20.0	16.6	15.6
321219	Reconstituted Wood Products	0.0	0.0	0.0
3219	Other Wood Products	30.2	28.1	28.2
322	Paper	22.6	92.5	46.7
322110	Pulp Mills	0.0	0.0	0.0
322120	Paper Mills	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0.0
323	Printing and Related Support	29.5	15.4	12.1
324	Petroleum and Coal Products	1.7	0.2	0.1
324110	Petroleum Refineries	0.0	0.0	0.0
324121	Asphalt Paving Mixture and Block	12.5	8.6	6.4
324122	Asphalt Shingle and Coating Materials	2.7	1.4	1.1
324191	Petroleum Lubricating Oil and Grease Manufacturing	0.0	0.0	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	0.0	0.0
325	Chemicals	8.4	4.7	4.8
325110	Petrochemicals	X	X	X
325120	Industrial Gases	75.7	25.8	29.0
325180	Other Basic Inorganic Chemical Manufacturing	22.8	12.4	13.4
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	All Other Basic Organic Chemical Manufacturing	11.0	10.2	9.4
325211	Plastics Materials and Resins	44.5	7.5	8.5
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	8.1	5.2	4.9
325412	Pharmaceutical Preparation	9.0	7.7	7.1
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	0.0	0.0
326	Plastics and Rubber Products	24.8	50.9	32.9
327	Nonmetallic Mineral Products	42.0	40.2	41.3
327120	Clay Building Material and Refractories	5.3	5.3	6.0
327211	Flat Glass	0.0	0.0	0.0
327212	Other Pressed and Blown Glass and Glassware	16.7	5.6	4.9
327213	Glass Containers	0.0	0.0	0.0
327215	Glass Products from Purchased Glass	6.5	6.3	7.0
327310	Cements	7.3	4.3	7.0
327410	Lime	0.0	0.0	0.0
327420	Gypsum	7.0	1.8	5.7
327993	Mineral Wool	0.0	0.0	0.0
331	Primary Metals	3.0	4.7	1.8
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	9.5	46.5	5.3
3313	Alumina and Aluminum Production and Processing	0.6	1.2	0.8
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	1.2	2.0	1.5
3314	Nonferrous Metal (except Aluminum) Production and Processing	10.6	2.5	3.1
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	1.1	0.1	0.1
3315	Foundries	2.7	2.0	1.7
331511	Iron Foundries	1.8	1.0	0.8
331523	Nonferrous Metal Die-Casting Foundries	3.4	6.0	4.8
331524	Aluminum Foundries, except Die-Casting	1.0	1.3	0.9
332	Fabricated Metal Products	23.8	34.6	30.5
333	Machinery	39.2	54.8	44.0
334	Computer and Electronic Products	16.3	34.8	79.8
334413	Semiconductors and Related Devices	10.5	14.3	8.1
335	Electrical Equipment, Appliances, and Components	57.5	108.5	53.1
336	Transportation Equipment	8.6	9.6	7.2
336110	Automobile and Light Duty Motor Vehicle Manufacturing	10.6	10.7	10.5
3364	Aerospace Product and Parts	7.8	4.6	3.9
336411	Aircraft	11.7	11.8	10.7
337	Furniture and Related Products	35.5	31.7	32.2
339	Miscellaneous	20.7	20.7	20.1
	Total	8.0	9.3	14.3

Data Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*, and the Bureau of the Census, data files for the *2022 Economic Census, Manufacturing – Industry Series*.

Note: 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.

<sup>a</sup> The Bureau of the Census classifies establishments using the 2022 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 (RSE) is greater than 50%

NA=Not available

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

*The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).*