

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

Table 6.4 Consumption Ratios of Fuel, 2018;

Level: National Data;
 Row: Employment Sizes within NAICS Codes;
 Column: Energy-Consumption Ratios;
 Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	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 - 339	ALL MANUFACTURING INDUSTRIES			
	Employment Size			
	Under 50	666.4	2.8	1.9
	50-99	801.5	4.6	2.0
	100-249	991.6	5.4	2.4
	250-499	1,541.9	6.9	3.1
	500-999	2,388.3	9.6	3.8
	1000 and Over	1,469.1	4.9	2.0
	Total	1,285.1	5.6	2.6
311	FOOD			
	Employment Size			
	Under 50	899.9	5.2	1.4
	50-99	814.0	4.0	1.3
	100-249	1,170.4	5.8	2.0
	250-499	875.4	3.6	1.5
	500-999	605.3	2.9	1.2
	1000 and Over	436.0	3.0	0.9
	Total	778.2	3.9	1.4
3112	Grain and Oilseed Milling			
	Employment Size			
	Under 50	4,064.2	9.0	1.9
	50-99	5,674.1	11.1	2.2
	100-249	5,379.9	16.6	3.1
	250-499	5,633.2	13.0	4.9
	500-999	3,126.2	7.8	3.1
	1000 and Over	802.8	13.8	2.5
	Total	4,829.4	11.9	2.9
311221	Wet Corn Milling			
	Employment Size			
	Under 50	6,118.6	32.5	6.3
	50-99	14,038.1	16.9	6.6
	100-249	15,985.2	22.3	9.6
	250-499	20,360.8	33.6	12.3
	500-999	23,983.3	40.4	11.6
	1000 and Over	0.0	0.0	0.0
	Total	17,478.6	28.5	10.4
31131	Sugar			
	Employment Size			
	Under 50	9,127.8	23.6	6.4
	50-99	1,759.0	5.7	2.4
	100-249	10,129.5	44.1	13.5
	250-499	7,766.8	28.2	9.0
	500-999	7,265.2	35.8	9.4
	1000 and Over	0.0	0.0	0.0
	Total	7,865.7	32.2	9.8

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

Under 50	1,367.9	2.8	1.9
50-99	636.7	4.3	1.7
100-249	852.4	4.8	1.9
250-499	1,152.6	5.7	2.6
500-999	820.4	3.7	1.6
1000 and Over	247.0	1.4	0.6
Total	893.3	4.3	1.9

3115 Dairy Products**Employment Size**

Under 50	1,312.1	6.5	2.1
50-99	1,177.6	5.2	1.6
100-249	907.4	3.8	1.1
250-499	860.7	2.7	1.0
500-999	562.0	2.3	0.8
1000 and Over	408.8	2.7	0.7
Total	822.0	3.3	1.1

3116 Animal Slaughtering and Processing**Employment Size**

Under 50	944.1	6.5	2.3
50-99	917.4	3.8	1.4
100-249	Q	Q	Q
250-499	366.8	2.2	0.7
500-999	318.8	2.6	0.9
1000 and Over	426.7	3.1	0.9
Total	567.6	3.9	1.2

312 BEVERAGE AND TOBACCO PRODUCTS**Employment Size**

Under 50	598.8	3.0	1.9
50-99	254.4	1.8	0.9
100-249	589.0	2.0	1.0
250-499	449.9	1.1	0.6
500-999	749.8	1.1	0.7
1000 and Over	884.2	0.3	0.3
Total	559.0	1.2	0.8

3121 Beverages**Employment Size**

Under 50	599.0	3.1	1.9
50-99	236.9	1.8	0.9
100-249	574.8	2.3	1.1
250-499	466.0	1.2	0.6
500-999	795.1	1.3	0.8
1000 and Over	896.7	1.3	0.9
Total	556.6	1.8	1.0

3122 Tobacco**Employment Size**

Under 50	565.5	1.3	0.7
50-99	615.6	1.9	1.2
100-249	934.9	0.6	0.5
250-499	232.3	0.4	0.2
500-999	309.0	0.3	0.2
1000 and Over	850.6	0.1	0.1
Total	599.2	0.2	0.2

313 TEXTILE MILLS**Employment Size**

Under 50	389.8	2.5	1.3
50-99	675.7	4.9	2.1

100-249	860.8	6.9	2.7
250-499	621.4	6.7	2.4
500-999	Q	Q	Q
1000 and Over	0.0	0.0	0.0
Total	681.1	5.5	2.3

314 TEXTILE PRODUCT MILLS

Employment Size

Under 50	91.0	Q	Q
50-99	209.0	Q	Q
100-249	Q	Q	Q
250-499	Q	2.8	1.2
500-999	795.1	5.9	2.2
1000 and Over	355.5	2.3	1.2
Total	219.4	1.4	0.7

315 APPAREL

Employment Size

Under 50	59.6	1.0	Q
50-99	75.5	Q	0.4
100-249	65.2	Q	Q
250-499	148.3	3.0	1.4
500-999	110.4	2.1	1.2
1000 and Over	0.2	*	*
Total	78.5	1.0	0.5

316 LEATHER AND ALLIED PRODUCTS

Employment Size

Under 50	79.1	0.9	0.5
50-99	157.8	1.4	0.5
100-249	148.0	1.6	0.6
250-499	25.1	0.4	0.2
500-999	11.4	0.2	0.1
1000 and Over	0.0	0.0	0.0
Total	87.9	1.1	0.4

321 WOOD PRODUCTS

Employment Size

Under 50	478.4	3.4	1.7
50-99	783.2	7.5	3.0
100-249	1,695.0	10.9	5.2
250-499	804.8	7.1	3.2
500-999	302.8	2.5	1.2
1000 and Over	192.4	1.4	0.7
Total	950.9	7.2	3.4

321113 Sawmills

Employment Size

Under 50	932.6	3.1	2.0
50-99	1,322.9	11.3	4.7
100-249	3,245.3	15.7	7.4
250-499	2,582.5	17.8	6.8
500-999	3,345.1	20.9	18.6
1000 and Over	0.0	0.0	0.0
Total	2,133.6	10.4	5.3

3212 Veneer, Plywood, and Engineered Woods

Employment Size

Under 50	263.9	2.1	1.0
50-99	1,101.1	11.0	4.8
100-249	3,270.5	16.8	8.0
250-499	1,885.0	13.5	5.6
500-999	536.6	3.3	1.9
1000 and Over	148.8	-2.8	0.7
Total	1,866.0	12.9	5.8

321219	Reconstituted Wood Products			
	Employment Size			
	Under 50	260.3	1.6	0.8
	50-99	12,194.7	64.2	28.8
	100-249	6,365.8	17.2	8.9
	250-499	1,205.2	7.9	3.9
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	5,865.9	18.8	9.6
3219	Other Wood Products			
	Employment Size			
	Under 50	345.0	3.6	1.7
	50-99	Q	Q	Q
	100-249	332.5	2.8	1.5
	250-499	274.9	2.7	1.4
	500-999	122.8	1.2	0.6
	1000 and Over	197.2	1.3	0.7
	Total	324.3	3.1	1.5
322	PAPER			
	Employment Size			
	Under 50	857.3	5.0	2.0
	50-99	911.4	3.5	1.3
	100-249	1,552.0	7.4	2.8
	250-499	14,185.6	38.2	19.0
	500-999	17,707.5	46.1	25.0
	1000 and Over	8,706.9	16.3	9.7
	Total	6,468.7	22.4	10.0
322110	Pulp Mills			
	Employment Size			
	Under 50	36,439.3	-83.4	22.2
	50-99	9,442.2	21.5	8.8
	100-249	26,645.2	64.6	33.1
	250-499	43,711.8	108.7	59.7
	500-999	35,392.7	107.9	53.5
	1000 and Over	0.0	0.0	0.0
	Total	37,920.8	102.6	52.6
322121	Paper Mills, except Newsprint			
	Employment Size			
	Under 50	3,824.5	12.9	7.7
	50-99	7,391.0	29.7	12.8
	100-249	4,171.3	16.0	6.8
	250-499	14,420.9	31.0	17.2
	500-999	17,602.1	48.8	25.2
	1000 and Over	9,575.2	14.0	8.3
	Total	13,693.0	32.4	17.3
322122	Newsprint Mills			
	Employment Size			
	Under 50	57.1	0.3	0.1
	50-99	0.0	0.0	0.0
	100-249	21,160.1	55.8	24.7
	250-499	18,673.5	50.7	14.1
	500-999	21,062.8	106.1	42.3
	1000 and Over	0.0	0.0	0.0
	Total	20,363.8	67.1	25.3
322130	Paperboard Mills			
	Employment Size			
	Under 50	7,072.8	21.7	10.6

50-99	7,708.4	21.4	10.8
100-249	11,933.5	19.6	11.7
250-499	31,630.5	48.1	28.4
500-999	30,238.5	62.5	34.6
1000 and Over	32,887.1	156.4	47.0
Total	26,140.0	46.9	26.7

323 PRINTING AND RELATED SUPPORT

Employment Size

Under 50	116.3	0.9	0.5
50-99	114.4	1.2	0.6
100-249	165.3	1.3	0.8
250-499	189.3	1.6	0.9
500-999	400.4	2.3	1.5
1000 and Over	Q	5.1	2.8
Total	168.8	1.4	0.8

324 PETROLEUM AND COAL PRODUCTS

Employment Size

Under 50	3,986.7	10.7	3.8
50-99	3,338.6	5.9	2.3
100-249	8,696.0	12.7	3.1
250-499	44,646.5	36.6	5.0
500-999	53,812.1	30.4	5.6
1000 and Over	40,582.1	22.9	5.4
Total	30,305.6	25.2	5.1

324110 Petroleum Refineries

Employment Size

Under 50	15,744.7	18.9	4.3
50-99	13,457.0	7.1	1.8
100-249	31,981.1	23.3	3.8
250-499	47,720.9	37.9	5.0
500-999	58,822.2	31.5	5.6
1000 and Over	53,356.9	22.9	5.4
Total	52,381.3	28.6	5.3

324121 Asphalt Paving Mixture and Block

Employment Size

Under 50	5,099.5	14.2	4.8
50-99	2,110.8	9.6	3.6
100-249	781.5	5.4	2.0
250-499	0.0	0.0	0.0
500-999	1,978.6	19.0	16.2
1000 and Over	0.0	0.0	0.0
Total	3,834.6	13.1	4.5

324122 Asphalt Shingle and Coating Materials

Employment Size

Under 50	2,029.6	5.4	2.2
50-99	1,619.7	3.2	1.4
100-249	1,382.4	2.0	1.1
250-499	1,598.9	4.0	1.3
500-999	759.8	21.6	1.9
1000 and Over	0.0	0.0	0.0
Total	1,555.2	2.9	1.4

324191 Petroleum Lubricating Oil and Grease

Employment Size

Under 50	502.0	1.9	0.7
50-99	2,991.1	4.1	1.8
100-249	1,368.8	2.7	0.7
250-499	1,350.3	1.9	1.2
500-999	3,870.1	2.5	1.2
1000 and Over	Q	Q	Q

Total		1,233.9	2.9	1.1
324199	Other Petroleum and Coal Products			
	Employment Size			
	Under 50	5,625.2	7.1	3.5
	50-99	9,844.6	18.3	6.5
	100-249	12,749.9	26.2	11.3
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	10,014.6	17.1	7.4
325	CHEMICALS			
	Employment Size			
	Under 50	6,541.8	17.1	6.4
	50-99	3,621.8	10.0	4.5
	100-249	4,930.3	11.5	5.3
	250-499	5,413.2	6.9	4.3
	500-999	5,380.2	8.5	4.6
	1000 and Over	4,693.6	7.8	5.3
	Total	5,018.2	9.4	5.0
325110	Petrochemicals			
	Employment Size			
	Under 50	33,804.4	27.3	6.0
	50-99	73,582.3	24.1	11.4
	100-249	46,311.6	32.1	11.5
	250-499	52,356.7	17.7	10.1
	500-999	63,660.9	21.1	8.0
	1000 and Over	72,311.1	36.6	17.4
	Total	58,401.0	23.1	9.6
325120	Industrial Gases			
	Employment Size			
	Under 50	19,045.3	49.4	31.4
	50-99	6,205.6	14.1	9.3
	100-249	6,278.5	14.6	9.9
	250-499	4,972.9	12.1	5.7
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	11,965.1	29.2	18.3
325180	Other Basic Inorganic Chemicals			
	Employment Size			
	Under 50	Q	Q	Q
	50-99	6,785.5	11.9	6.5
	100-249	15,219.0	25.0	14.6
	250-499	8,719.2	18.3	10.3
	500-999	Q	23.3	17.2
	1000 and Over	Q	27.9	12.1
	Total	9,688.5	20.6	11.7
325193	Ethyl Alcohol			
	Employment Size			
	Under 50	41,412.3	119.9	16.1
	50-99	51,411.6	125.7	16.5
	100-249	9,792.5	Q	8.7
	250-499	59,446.4	36.5	15.1
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	43,297.8	89.0	15.7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals			
	Employment Size			

Under 50	2,536.5	12.6	4.6
50-99	8,184.3	26.2	8.0
100-249	20,528.0	46.4	16.4
250-499	18,378.1	3.6	2.8
500-999	0.0	0.0	0.0
1000 and Over	12,825.8	11.8	7.6
Total	12,419.7	12.6	7.3

325199 Other Basic Organic Chemicals

Employment Size

Under 50	11,037.3	9.0	3.6
50-99	6,064.9	12.7	5.2
100-249	8,127.7	20.1	6.6
250-499	17,924.0	30.0	12.2
500-999	21,079.9	18.9	8.5
1000 and Over	6,232.2	19.6	9.9
Total	11,103.3	19.8	8.1

325211 Plastics Materials and Resins

Employment Size

Under 50	7,719.9	25.8	9.5
50-99	3,015.6	6.7	2.5
100-249	8,358.9	10.8	4.4
250-499	8,515.0	16.2	7.8
500-999	7,524.9	7.0	4.4
1000 and Over	26,776.0	142.1	20.0
Total	10,477.3	20.5	7.8

325212 Synthetic Rubber

Employment Size

Under 50	1,276.9	4.5	1.9
50-99	2,300.9	7.7	2.7
100-249	3,166.5	7.9	3.8
250-499	6,212.1	19.6	6.6
500-999	1,824.0	3.1	2.1
1000 and Over	0.0	0.0	0.0
Total	3,960.0	11.0	4.6

325220 Artificial and Synthetic Fibers and Filaments

Employment Size

Under 50	949.9	5.4	2.6
50-99	731.6	5.0	1.5
100-249	3,149.9	11.9	5.6
250-499	1,929.0	9.8	3.6
500-999	4,128.2	36.7	11.1
1000 and Over	1,640.6	7.0	3.0
Total	2,482.6	12.8	5.0

325311 Nitrogenous Fertilizers

Employment Size

Under 50	Q	Q	Q
50-99	Q	37.8	25.5
100-249	46,744.7	67.9	39.2
250-499	32,979.1	42.5	31.1
500-999	87,404.8	74.8	53.8
1000 and Over	0.0	0.0	0.0
Total	28,363.2	37.2	26.0

325312 Phosphatic Fertilizers

Employment Size

Under 50	686.2	1.2	0.5
50-99	961.2	1.3	1.2
100-249	28,415.0	33.1	19.5
250-499	3,268.2	6.9	3.0
500-999	3,675.2	9.9	3.7

	1000 and Over	0.0	0.0	0.0
	Total	6,256.6	12.7	5.7
3254	Pharmaceuticals and Medicines			
	Employment Size			
	Under 50	1,481.2	3.0	Q
	50-99	422.6	1.5	0.9
	100-249	644.5	2.7	1.7
	250-499	394.1	0.3	0.2
	500-999	312.8	0.6	0.4
	1000 and Over	374.7	0.4	0.4
	Total	442.9	0.7	0.5
325412	Pharmaceutical Preparation			
	Employment Size			
	Under 50	2,935.8	5.4	2.8
	50-99	369.0	1.5	1.0
	100-249	949.7	3.9	2.4
	250-499	456.4	0.2	0.2
	500-999	213.4	0.3	0.2
	1000 and Over	261.7	0.3	0.2
	Total	447.7	0.5	0.4
325992	Photographic Film, Paper, Plate, and Chemicals			
	Employment Size			
	Under 50	588.7	3.0	1.5
	50-99	546.9	3.8	1.2
	100-249	542.8	1.3	0.9
	250-499	1,153.8	3.4	1.7
	500-999	1,702.8	4.2	1.2
	1000 and Over	637.4	2.2	1.6
	Total	832.0	2.6	1.4
326	PLASTICS AND RUBBER PRODUCTS			
	Employment Size			
	Under 50	311.7	2.3	1.1
	50-99	303.8	2.1	1.0
	100-249	383.2	2.6	1.2
	250-499	421.7	2.3	1.3
	500-999	296.9	2.8	1.0
	1000 and Over	805.2	3.9	1.9
	Total	361.4	2.5	1.2
327	NONMETALLIC MINERAL PRODUCTS			
	Employment Size			
	Under 50	878.3	4.5	2.4
	50-99	2,063.3	12.9	7.0
	100-249	5,160.5	26.0	15.5
	250-499	2,590.7	13.6	8.7
	500-999	1,284.4	6.2	3.7
	1000 and Over	355.4	1.9	1.3
	Total	2,257.4	12.0	6.9
327120	Clay Building Material and Refractories			
	Employment Size			
	Under 50	1,782.2	8.4	5.2
	50-99	2,081.5	14.5	8.2
	100-249	1,450.5	10.0	6.0
	250-499	2,184.9	19.9	10.6
	500-999	3,666.4	10.4	6.2
	1000 and Over	0.0	0.0	0.0
	Total	1,902.0	11.9	7.0
327211	Flat Glass			

Employment Size			
Under 50	281.2	1.5	1.0
50-99	146.9	0.8	0.6
100-249	4,252.6	22.7	14.3
250-499	4,950.0	23.4	13.8
500-999	2,337.7	5.0	3.3
1000 and Over	0.0	0.0	0.0
Total	4,116.7	18.8	11.6
327212 Other Pressed and Blown Glass and Glassware			
Employment Size			
Under 50	1,322.8	Q	3.0
50-99	Q	9.3	4.7
100-249	2,426.9	14.0	8.6
250-499	4,152.0	15.7	10.5
500-999	1,948.6	11.5	8.5
1000 and Over	0.0	0.0	0.0
Total	2,388.1	12.2	7.6
327213 Glass Containers			
Employment Size			
Under 50	21,275.7	138.1	75.2
50-99	1,994.5	11.4	7.5
100-249	4,199.6	19.8	12.1
250-499	4,069.0	17.9	11.9
500-999	3,816.8	12.8	9.5
1000 and Over	0.0	0.0	0.0
Total	4,120.0	18.2	11.9
327215 Glass Products from Purchased Glass			
Employment Size			
Under 50	437.5	2.5	1.5
50-99	520.3	4.5	2.3
100-249	374.5	2.7	1.6
250-499	231.1	2.3	1.1
500-999	341.3	2.7	1.5
1000 and Over	246.6	1.3	0.8
Total	335.0	2.4	1.4
327310 Cements			
Employment Size			
Under 50	Q	20.9	Q
50-99	22,732.0	57.5	37.3
100-249	26,800.5	68.2	42.9
250-499	7,964.0	30.1	23.0
500-999	9,634.2	36.7	25.0
1000 and Over	0.0	0.0	0.0
Total	17,960.8	52.6	34.4
327410 Lime			
Employment Size			
Under 50	34,521.4	92.1	44.0
50-99	35,976.5	119.2	51.6
100-249	16,904.3	65.5	39.6
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	28,611.1	94.2	46.2
327420 Gypsum			
Employment Size			
Under 50	1,255.1	2.8	1.3
50-99	10,130.8	20.5	12.0
100-249	6,199.4	18.0	10.3
250-499	2,184.4	5.7	3.2

500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	5,933.3	14.6	8.0

327993 Mineral Wool

Employment Size

Under 50	870.8	4.0	2.4
50-99	2,077.9	12.5	6.3
100-249	3,771.0	11.6	7.5
250-499	3,274.9	9.6	6.2
500-999	1,369.1	8.3	5.2
1000 and Over	0.0	0.0	0.0
Total	2,542.6	9.1	5.7

331 PRIMARY METALS

Employment Size

Under 50	946.2	5.0	2.1
50-99	1,223.7	6.1	2.2
100-249	1,818.4	8.3	3.1
250-499	2,618.9	10.8	4.5
500-999	3,376.1	12.2	4.8
1000 and Over	12,394.9	43.1	15.0
Total	3,848.4	16.0	6.2

331110 Iron and Steel Mills and Ferroalloys

Employment Size

Under 50	1,653.6	5.0	1.7
50-99	3,196.4	7.7	3.1
100-249	6,725.9	15.9	6.4
250-499	6,326.8	12.2	4.9
500-999	7,686.3	13.7	4.8
1000 and Over	21,704.5	61.9	22.1
Total	12,548.6	28.7	10.6

3312 Steel Products from Purchased Steel

Employment Size

Under 50	Q	Q	Q
50-99	542.4	2.8	1.0
100-249	689.7	3.0	1.1
250-499	577.0	3.6	1.9
500-999	2,459.9	16.9	5.9
1000 and Over	Q	12.3	2.4
Total	990.2	5.7	2.1

3313 Alumina and Aluminum

Employment Size

Under 50	936.1	5.2	2.3
50-99	2,731.9	11.0	2.8
100-249	1,512.7	7.6	2.2
250-499	4,577.9	23.3	9.2
500-999	4,775.2	26.3	9.0
1000 and Over	3,510.8	10.4	3.7
Total	2,441.2	11.4	4.1

331314 Secondary Smelting and Alloying of Aluminum

Employment Size

Under 50	2,571.4	12.6	3.1
50-99	4,148.6	16.5	3.6
100-249	4,017.7	22.1	2.9
250-499	3,150.7	15.8	3.3
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	3,691.9	17.5	3.2

331315 Aluminum Sheet, Plate and Foils

Employment Size			
Under 50	9,237.1	44.1	18.5
50-99	951.8	2.5	0.9
100-249	2,232.5	4.2	1.8
250-499	6,833.2	12.0	6.7
500-999	2,830.3	14.9	4.7
1000 and Over	3,810.1	10.6	3.7
Total	3,759.1	10.6	3.9
331318 Other Aluminum Rolling, Drawing and Extruding			
Employment Size			
Under 50	608.3	3.3	1.2
50-99	1,102.9	6.1	2.2
100-249	831.2	5.4	1.8
250-499	789.4	6.1	2.2
500-999	1,042.4	5.9	3.0
1000 and Over	1,625.8	8.1	3.3
Total	897.2	5.8	2.1
3314 Nonferrous Metals, except Aluminum			
Employment Size			
Under 50	866.1	3.2	1.0
50-99	1,231.3	4.7	1.5
100-249	1,874.7	7.1	2.4
250-499	2,081.6	8.8	2.7
500-999	1,479.3	8.8	3.8
1000 and Over	963.1	4.9	1.3
Total	1,550.6	6.8	2.3
331410 Nonferrous Metal (except Aluminum) Smelting and Refining			
Employment Size			
Under 50	1,642.1	5.4	1.7
50-99	2,309.4	9.0	2.7
100-249	6,424.5	16.7	5.8
250-499	6,030.5	16.5	7.7
500-999	2,374.9	12.3	7.1
1000 and Over	0.0	0.0	0.0
Total	3,932.4	14.0	5.9
3315 Foundries			
Employment Size			
Under 50	508.7	3.7	2.3
50-99	566.8	5.4	3.0
100-249	781.1	5.9	3.1
250-499	739.7	5.0	2.9
500-999	1,056.8	5.7	3.3
1000 and Over	176.7	1.1	0.8
Total	747.8	5.1	2.9
331511 Iron Foundries			
Employment Size			
Under 50	632.0	5.5	3.4
50-99	603.7	6.0	3.6
100-249	1,148.4	7.7	4.0
250-499	969.6	6.7	3.6
500-999	1,772.0	9.1	4.8
1000 and Over	0.0	0.0	0.0
Total	1,144.6	7.6	4.1
331523 Nonferrous Metal Die-Casting Foundries			
Employment Size			
Under 50	540.3	3.2	2.1
50-99	526.8	5.4	3.0
100-249	611.9	6.1	3.2

250-499	649.3	4.5	2.8
500-999	793.0	4.0	2.4
1000 and Over	419.6	2.1	1.7
Total	647.3	4.3	2.6

331524 Aluminum Foundries, except Die-Casting

Employment Size			
Under 50	372.6	3.5	2.1
50-99	911.0	6.3	3.9
100-249	621.9	6.1	3.8
250-499	478.2	3.5	1.9
500-999	662.6	4.0	2.4
1000 and Over	0.0	0.0	0.0
Total	584.0	4.7	2.8

332 FABRICATED METAL PRODUCTS

Employment Size			
Under 50	169.8	1.3	0.8
50-99	342.1	2.3	1.2
100-249	147.3	1.1	0.7
250-499	116.2	1.2	0.6
500-999	275.7	Q	Q
1000 and Over	170.2	1.6	0.6
Total	174.0	1.4	0.8

333 MACHINERY

Employment Size			
Under 50	162.8	0.8	0.4
50-99	196.0	1.2	0.7
100-249	154.9	0.8	0.4
250-499	121.5	0.8	0.4
500-999	Q	1.4	0.7
1000 and Over	Q	0.6	0.3
Total	140.9	0.9	0.4

334 COMPUTER AND ELECTRONIC PRODUCTS

Employment Size			
Under 50	116.7	0.7	0.4
50-99	39.5	0.2	0.1
100-249	100.6	0.6	0.4
250-499	114.0	0.8	0.4
500-999	135.1	0.5	0.3
1000 and Over	207.8	0.8	0.5
Total	133.9	0.7	0.4

334413 Semiconductors and Related Devices

Employment Size			
Under 50	Q	0.8	0.5
50-99	Q	Q	Q
100-249	954.2	4.8	3.0
250-499	Q	1.7	Q
500-999	487.8	1.9	1.1
1000 and Over	642.8	2.0	1.1
Total	529.6	1.9	1.1

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

Employment Size			
Under 50	Q	Q	Q
50-99	160.5	1.1	0.4
100-249	405.4	2.0	0.8
250-499	333.2	1.7	0.8
500-999	Q	0.6	Q
1000 and Over	171.2	1.1	0.6
Total	222.0	1.4	0.5

336 TRANSPORTATION EQUIPMENT**Employment Size**

Under 50	Q	Q	Q
50-99	246.7	2.4	1.0
100-249	215.4	1.6	0.6
250-499	217.0	1.2	0.5
500-999	255.8	1.9	0.6
1000 and Over	239.1	0.7	0.3
Total	245.0	1.0	0.4

336111 Automobiles**Employment Size**

Under 50	1,202.2	9.1	2.2
50-99	69.8	0.7	0.2
100-249	89.8	1.1	0.4
250-499	0.0	0.0	0.0
500-999	380.7	0.7	0.2
1000 and Over	360.1	1.6	0.3
Total	360.0	1.6	0.3

336112 Light Trucks and Utility Vehicles**Employment Size**

Under 50	122.8	0.5	0.2
50-99	228.3	2.7	0.9
100-249	56.4	0.6	0.2
250-499	681.8	1.6	0.4
500-999	419.3	4.5	0.3
1000 and Over	444.9	0.8	0.2
Total	442.1	0.8	0.2

3364 Aerospace Products**Employment Size**

Under 50	226.3	1.1	0.6
50-99	145.8	1.1	0.6
100-249	140.0	0.8	0.5
250-499	203.4	0.9	0.4
500-999	136.5	1.4	0.5
1000 and Over	158.7	0.3	0.2
Total	160.2	0.5	0.3

336411 Aircraft**Employment Size**

Under 50	139.3	0.7	0.4
50-99	218.6	1.5	0.8
100-249	194.4	1.4	0.4
250-499	Q	0.6	0.3
500-999	123.8	Q	0.2
1000 and Over	98.7	0.2	0.1
Total	110.7	0.3	0.2

337 FURNITURE AND RELATED PRODUCTS**Employment Size**

Under 50	62.9	0.7	0.4
50-99	74.9	0.9	0.4
100-249	97.8	Q	Q
250-499	138.0	1.1	0.6
500-999	Q	0.6	0.3
1000 and Over	Q	1.3	0.7
Total	71.8	0.8	0.4

339 MISCELLANEOUS**Employment Size**

Under 50	68.6	Q	Q
50-99	55.9	0.4	0.3

100-249	62.2	0.5	0.4
250-499	132.9	0.9	0.5
500-999	275.0	0.9	0.6
1000 and Over	122.2	0.4	0.3
Total	99.8	Q	0.4

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

(b) *Employment Size* categories were supplied by the Bureau of the Census.

* 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.

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 6.4 Relative Standard Errors for Table 6.4;

Unit: Percents.

NAICS Code(a)	Economic Characteristic(b)	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 - 339	ALL MANUFACTURING INDUSTRIES			
	Employment Size			
	Under 50	5.2	40.6	6.1
	50-99	4.7	5.2	4.8
	100-249	5.5	5.1	4.4
	250-499	6.7	4.6	4.1
	500-999	8.1	4.7	4.6
	1000 and Over	6.7	3.6	3.2
	Total	2.2	5.4	1.6
311	FOOD			
	Employment Size			
	Under 50	14.3	15.4	12.9
	50-99	12.2	16.2	12.0
	100-249	17.7	16.0	15.1
	250-499	15.8	10.8	8.8
	500-999	7.8	8.6	5.9
	1000 and Over	4.8	5.6	4.8
	Total	5.7	5.6	4.7
3112	Grain and Oilseed Milling			
	Employment Size			
	Under 50	12.2	14.0	16.0
	50-99	10.5	7.5	3.1
	100-249	11.3	7.5	6.9
	250-499	15.5	2.7	1.5
	500-999	8.5	5.2	5.7
	1000 and Over	0.0	0.0	0.0
	Total	4.7	3.2	3.4
311221	Wet Corn Milling			
	Employment Size			
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	0.0	0.0	0.0
31131	Sugar			
	Employment Size			
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Foods			
	Employment Size			

Under 50	20.1	28.6	23.4
50-99	31.2	11.2	11.5
100-249	8.8	9.7	8.8
250-499	5.3	4.6	5.0
500-999	6.8	4.3	3.1
1000 and Over	0.0	0.0	0.0
Total	4.2	3.8	3.1
3115 Dairy Products			
Employment Size			
Under 50	27.1	30.4	28.4
50-99	19.7	10.7	9.7
100-249	5.4	5.7	3.9
250-499	3.7	4.2	4.2
500-999	7.6	5.2	7.0
1000 and Over	6.1	23.9	8.5
Total	3.4	3.2	2.8
3116 Animal Slaughtering and Processing			
Employment Size			
Under 50	22.8	19.1	21.1
50-99	18.4	40.0	38.9
100-249	50.7	50.7	50.5
250-499	11.7	16.1	17.4
500-999	3.8	4.1	4.3
1000 and Over	5.1	5.2	5.3
Total	14.9	15.1	15.1
312 BEVERAGE AND TOBACCO PRODUCTS			
Employment Size			
Under 50	37.3	36.9	37.6
50-99	16.9	16.2	13.9
100-249	26.4	24.6	22.6
250-499	9.7	14.4	9.0
500-999	7.3	3.4	4.4
1000 and Over	0.0	0.0	0.0
Total	12.8	12.1	12.0
3121 Beverages			
Employment Size			
Under 50	37.6	37.2	37.9
50-99	18.2	18.3	15.5
100-249	27.9	27.7	24.4
250-499	10.6	16.1	10.1
500-999	8.2	4.2	5.3
1000 and Over	0.0	0.0	0.0
Total	13.6	13.4	13.0
3122 Tobacco			
Employment Size			
Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0
313 TEXTILE MILLS			
Employment Size			
Under 50	20.7	30.6	20.7
50-99	25.2	40.6	31.3
100-249	10.6	10.1	7.4
250-499	34.7	12.3	7.4
500-999	144.2	138.5	121.8

	1000 and Over	X	X	X
	Total	12.7	12.2	8.5
314	TEXTILE PRODUCT MILLS			
	Employment Size			
	Under 50	37.2	82.7	51.8
	50-99	42.2	57.5	65.4
	100-249	75.8	82.4	79.6
	250-499	122.5	26.6	38.8
	500-999	12.0	21.1	5.5
	1000 and Over	19.5	19.9	21.6
	Total	16.5	26.7	18.4
315	APPAREL			
	Employment Size			
	Under 50	22.3	32.0	105.2
	50-99	35.2	54.6	43.5
	100-249	23.8	62.8	51.6
	250-499	22.5	41.5	28.9
	500-999	27.8	38.6	46.8
	1000 and Over	0.0	0.0	0.0
	Total	10.3	24.8	29.8
316	LEATHER AND ALLIED PRODUCTS			
	Employment Size			
	Under 50	18.7	18.4	23.8
	50-99	19.7	20.9	26.3
	100-249	12.7	16.4	12.7
	250-499	8.1	4.9	10.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	8.1	7.9	8.0
321	WOOD PRODUCTS			
	Employment Size			
	Under 50	20.5	14.4	18.1
	50-99	16.6	15.8	15.6
	100-249	9.6	7.4	6.6
	250-499	11.9	8.2	7.4
	500-999	17.8	14.5	20.9
	1000 and Over	0.0	0.0	0.0
	Total	5.3	5.5	4.6
321113	Sawmills			
	Employment Size			
	Under 50	40.9	15.2	39.6
	50-99	10.6	7.8	9.0
	100-249	1.1	1.4	0.9
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	4.5	15.5	6.9
3212	Veneer, Plywood, and Engineered Woods			
	Employment Size			
	Under 50	42.0	41.0	41.2
	50-99	21.8	18.8	15.3
	100-249	20.5	3.1	3.1
	250-499	1.1	1.0	0.6
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	7.9	3.6	3.3
321219	Reconstituted Wood Products			

Employment Size				
	Under 50	18.9	17.2	13.3
	50-99	16.2	11.3	19.3
	100-249	3.6	1.0	1.7
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1000 and Over	X	X	X
	Total	3.5	1.4	1.8

3219 Other Wood Products

Employment Size				
	Under 50	25.8	26.9	25.9
	50-99	51.0	50.6	50.7
	100-249	37.4	38.1	37.9
	250-499	13.7	10.4	11.8
	500-999	9.1	23.7	20.1
	1000 and Over	0.0	0.0	0.0
	Total	16.8	17.0	16.9

322 PAPER

Employment Size				
	Under 50	27.4	22.8	23.8
	50-99	18.0	32.6	32.1
	100-249	11.6	11.0	10.1
	250-499	13.2	5.0	7.8
	500-999	9.1	9.8	7.8
	1000 and Over	11.1	8.4	5.7
	Total	5.1	5.7	6.6

322110 Pulp Mills

Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	0.0	0.0	0.0

322121 Paper Mills, except Newsprint

Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0

322122 Newsprint Mills

Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	X	X	X
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	0.0	0.0	0.0

322130 Paperboard Mills

Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0

500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

323 PRINTING AND RELATED SUPPORT

Employment Size

Under 50	12.4	30.1	29.8
50-99	16.8	18.6	14.0
100-249	24.5	27.0	20.4
250-499	28.4	32.8	28.6
500-999	22.7	27.8	21.9
1000 and Over	50.6	27.5	20.9
Total	7.9	11.7	10.8

324 PETROLEUM AND COAL PRODUCTS

Employment Size

Under 50	7.9	6.3	5.2
50-99	13.3	11.6	11.7
100-249	1.9	1.4	0.5
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	23.7	0.1	0.1
Total	4.4	0.3	0.2

324110 Petroleum Refineries

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

324121 Asphalt Paving Mixture and Block

Employment Size

Under 50	7.4	6.7	6.4
50-99	5.9	2.0	2.5
100-249	6.0	4.1	1.5
250-499	X	X	X
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	5.9	5.6	5.4

324122 Asphalt Shingle and Coating Materials

Employment Size

Under 50	15.4	27.1	15.3
50-99	1.0	0.4	0.7
100-249	3.2	2.8	2.2
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	3.1	3.6	2.7

324191 Petroleum Lubricating Oil and Grease

Employment Size

Under 50	46.1	36.7	26.1
50-99	43.8	38.6	38.7
100-249	2.4	0.6	0.8
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	76.2	76.2	76.2
Total	38.1	17.1	16.9

324199 Other Petroleum and Coal Products

Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	X	X	X
	500-999	X	X	X
	1000 and Over	X	X	X
	Total	0.0	0.0	0.0
325	CHEMICALS			
Employment Size				
	Under 50	11.0	16.2	14.6
	50-99	11.1	13.2	9.1
	100-249	10.0	10.2	8.3
	250-499	15.9	6.3	5.0
	500-999	17.6	6.3	5.2
	1000 and Over	4.3	0.6	1.4
	Total	4.4	3.3	2.8
325110	Petrochemicals			
Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
325120	Industrial Gases			
Employment Size				
	Under 50	21.5	10.4	9.5
	50-99	27.2	33.2	25.3
	100-249	10.4	0.7	0.3
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1000 and Over	X	X	X
	Total	11.2	9.3	7.4
325180	Other Basic Inorganic Chemicals			
Employment Size				
	Under 50	52.4	55.7	51.3
	50-99	11.4	11.4	10.4
	100-249	8.6	4.0	3.4
	250-499	29.7	21.8	27.7
	500-999	85.8	46.5	44.8
	1000 and Over	69.2	27.6	11.6
	Total	14.2	10.6	10.0
325193	Ethyl Alcohol			
Employment Size				
	Under 50	4.4	4.5	1.4
	50-99	1.6	3.4	0.4
	100-249	12.8	60.3	4.2
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1000 and Over	X	X	X
	Total	2.5	1.8	0.6
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals			
Employment Size				
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0

250-499	0.0	0.0	0.0
500-999	X	X	X
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325199 Other Basic Organic Chemicals

Employment Size

Under 50	13.5	26.2	25.9
50-99	18.9	19.0	18.0
100-249	13.9	19.0	6.4
250-499	17.4	8.5	6.2
500-999	3.2	1.1	0.4
1000 and Over	0.0	0.0	0.0
Total	3.7	4.8	3.1

325211 Plastics Materials and Resins

Employment Size

Under 50	15.1	14.6	11.5
50-99	13.4	9.9	11.5
100-249	10.9	3.7	5.3
250-499	33.6	10.6	6.5
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	5.8	2.7	2.4

325212 Synthetic Rubber

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	0.0	0.0	0.0

325220 Artificial and Synthetic Fibers and Filaments

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325311 Nitrogenous Fertilizers

Employment Size

Under 50	55.0	172.8	128.7
50-99	59.5	42.6	24.4
100-249	14.9	5.1	8.7
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	28.8	36.9	30.0

325312 Phosphatic Fertilizers

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	0.0	0.0	0.0

3254 Pharmaceuticals and Medicines**Employment Size**

Under 50	29.6	41.0	59.3
50-99	17.7	17.9	19.3
100-249	25.6	24.5	24.2
250-499	17.6	5.9	4.5
500-999	23.7	3.5	8.5
1000 and Over	0.5	0.2	0.2
Total	8.8	6.0	6.3

325412 Pharmaceutical Preparation**Employment Size**

Under 50	41.2	36.0	35.2
50-99	31.5	29.6	24.9
100-249	33.7	32.2	32.9
250-499	4.8	6.2	4.7
500-999	49.0	3.1	9.1
1000 and Over	0.0	0.0	0.0
Total	14.5	10.0	10.1

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

Under 50	22.1	5.2	5.2
50-99	0.0	0.0	0.0
100-249	36.6	7.7	11.2
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	5.2	1.9	1.9

326 PLASTICS AND RUBBER PRODUCTS**Employment Size**

Under 50	18.9	20.7	18.7
50-99	16.0	15.6	20.0
100-249	16.0	16.4	15.5
250-499	17.6	21.1	18.3
500-999	36.0	22.7	36.9
1000 and Over	9.3	6.6	11.1
Total	8.2	8.1	8.2

327 NONMETALLIC MINERAL PRODUCTS**Employment Size**

Under 50	8.6	9.9	8.9
50-99	17.0	16.1	16.9
100-249	15.1	11.1	11.2
250-499	16.6	8.8	6.7
500-999	21.2	40.7	47.3
1000 and Over	23.1	25.4	26.2
Total	5.9	5.5	5.4

327120 Clay Building Material and Refractories**Employment Size**

Under 50	9.8	24.1	21.4
50-99	6.8	9.1	14.6
100-249	4.6	8.2	7.8
250-499	7.4	0.3	0.2
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	3.2	7.0	6.6

327211 Flat Glass**Employment Size**

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0

100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	0.0	0.0	0.0

327212 Other Pressed and Blown Glass and Glassware

Employment Size

Under 50	32.5	51.4	47.4
50-99	89.9	35.0	18.0
100-249	7.1	1.8	3.5
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	5.3	6.7	8.5

327213 Glass Containers

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	0.0	0.0	0.0

327215 Glass Products from Purchased Glass

Employment Size

Under 50	17.1	15.0	15.2
50-99	11.1	10.2	8.2
100-249	4.0	3.6	3.4
250-499	36.9	1.2	1.9
500-999	8.3	0.2	0.1
1000 and Over	0.0	0.0	0.0
Total	7.2	2.0	1.9

327310 Cements

Employment Size

Under 50	66.2	45.0	58.1
50-99	6.5	4.3	6.7
100-249	0.2	0.2	0.2
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	4.3	3.2	4.2

327410 Lime

Employment Size

Under 50	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	X	X	X
500-999	X	X	X
1000 and Over	X	X	X
Total	0.0	0.0	0.0

327420 Gypsum

Employment Size

Under 50	21.3	39.0	27.4
50-99	1.9	0.7	1.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	X	X	X
1000 and Over	X	X	X
Total	4.2	9.6	9.0

327993	Mineral Wool			
	Employment Size			
	Under 50	20.2	29.5	18.6
	50-99	25.2	40.8	23.3
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	X	X	X
	Total	4.6	4.7	3.4
331	PRIMARY METALS			
	Employment Size			
	Under 50	9.0	9.4	9.3
	50-99	4.8	3.2	3.2
	100-249	2.6	2.9	2.5
	250-499	3.9	2.2	1.8
	500-999	4.2	1.9	1.2
	1000 and Over	6.4	0.1	0.1
	Total	1.6	0.9	0.8
331110	Iron and Steel Mills and Ferroalloys			
	Employment Size			
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
3312	Steel Products from Purchased Steel			
	Employment Size			
	Under 50	53.9	53.8	52.9
	50-99	18.0	17.2	17.1
	100-249	9.0	10.8	10.2
	250-499	28.9	21.4	9.3
	500-999	1.7	0.6	0.9
	1000 and Over	132.0	0.4	0.1
	Total	14.2	11.6	10.9
3313	Alumina and Aluminum			
	Employment Size			
	Under 50	1.3	1.2	1.6
	50-99	3.2	2.2	0.7
	100-249	2.2	1.3	0.8
	250-499	0.9	0.7	0.5
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.5	0.4	0.5
331314	Secondary Smelting and Alloying of Aluminum			
	Employment Size			
	Under 50	8.5	31.2	38.3
	50-99	3.7	4.4	2.1
	100-249	6.6	3.1	1.5
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1000 and Over	X	X	X
	Total	2.8	4.9	3.3
331315	Aluminum Sheet, Plate and Foils			
	Employment Size			
	Under 50	0.0	0.0	0.0

50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

331318 Other Aluminum Rolling, Drawing and Extruding

Employment Size			
Under 50	24.1	14.0	13.6
50-99	6.5	3.5	2.6
100-249	2.5	1.9	1.0
250-499	1.1	1.4	0.9
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	1.4	1.0	0.8

3314 Nonferrous Metals, except Aluminum

Employment Size			
Under 50	17.5	22.8	18.2
50-99	11.9	9.0	8.3
100-249	9.9	10.3	6.6
250-499	10.3	8.2	7.7
500-999	25.9	17.9	12.4
1000 and Over	0.0	0.0	0.0
Total	6.1	4.5	3.2

331410 Nonferrous Metal (except Aluminum) Smelting and Refining

Employment Size			
Under 50	20.5	21.0	19.9
50-99	0.0	0.0	0.0
100-249	3.8	2.2	2.8
250-499	40.7	22.4	11.6
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	6.3	5.3	2.7

3315 Foundries

Employment Size			
Under 50	9.1	11.0	9.5
50-99	7.5	4.3	3.7
100-249	2.7	2.2	1.9
250-499	2.7	1.8	1.2
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0
Total	1.5	1.2	1.0

331511 Iron Foundries

Employment Size			
Under 50	32.2	27.6	28.1
50-99	12.5	15.5	9.8
100-249	2.2	1.2	0.5
250-499	6.8	4.8	3.0
500-999	0.0	0.0	0.0
1000 and Over	X	X	X
Total	3.1	2.2	1.6

331523 Nonferrous Metal Die-Casting Foundries

Employment Size			
Under 50	9.8	37.8	25.5
50-99	8.3	6.9	5.9
100-249	3.0	3.6	2.5
250-499	0.0	0.0	0.0
500-999	0.0	0.0	0.0
1000 and Over	0.0	0.0	0.0

Total		1.5	2.3	1.7
331524	Aluminum Foundries, except Die-Casting			
Employment Size				
Under 50		8.1	10.9	10.5
50-99		0.0	0.0	0.0
100-249		4.0	1.2	1.0
250-499		0.0	0.0	0.0
500-999		0.0	0.0	0.0
1000 and Over		X	X	X
Total		2.1	1.9	1.8
332	FABRICATED METAL PRODUCTS			
Employment Size				
Under 50		15.6	14.5	12.4
50-99		32.7	31.2	29.4
100-249		22.6	21.7	21.8
250-499		42.5	35.5	30.3
500-999		49.2	54.1	56.3
1000 and Over		30.2	28.7	38.9
Total		11.7	10.5	10.2
333	MACHINERY			
Employment Size				
Under 50		20.7	22.6	23.8
50-99		37.0	37.9	38.1
100-249		19.9	23.9	21.0
250-499		26.9	19.6	18.2
500-999		85.3	29.1	31.7
1000 and Over		68.9	23.7	14.5
Total		14.3	11.9	11.4
334	COMPUTER AND ELECTRONIC PRODUCTS			
Employment Size				
Under 50		31.3	32.8	32.3
50-99		24.0	31.1	30.1
100-249		24.2	26.2	23.7
250-499		19.0	16.3	17.9
500-999		25.4	25.8	24.1
1000 and Over		13.7	18.5	14.8
Total		7.9	9.3	8.2
334413	Semiconductors and Related Devices			
Employment Size				
Under 50		51.7	48.6	45.6
50-99		56.8	70.5	58.6
100-249		18.7	13.4	25.5
250-499		73.4	46.3	63.8
500-999		36.0	8.2	8.1
1000 and Over		0.0	0.0	0.0
Total		9.8	5.3	5.8
335	ELEC. EQUIP., APPLIANCES, COMPONENTS			
Employment Size				
Under 50		54.2	52.9	64.1
50-99		39.4	32.8	35.3
100-249		23.3	28.1	34.2
250-499		22.3	33.0	24.7
500-999		82.9	30.6	135.7
1000 and Over		26.7	24.6	10.4
Total		18.6	14.1	25.7
336	TRANSPORTATION EQUIPMENT			
Employment Size				

	Under 50	59.5	74.1	82.1
	50-99	25.1	24.1	23.5
	100-249	30.4	31.7	30.7
	250-499	28.0	25.7	30.8
	500-999	17.7	22.5	22.2
	1000 and Over	6.1	6.3	6.0
	Total	8.3	8.6	8.7
336111	Automobiles			
	Employment Size			
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	X	X	X
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles			
	Employment Size			
	Under 50	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
3364	Aerospace Products			
	Employment Size			
	Under 50	20.9	13.2	20.2
	50-99	12.3	15.4	14.9
	100-249	10.7	12.6	11.9
	250-499	21.7	16.9	14.8
	500-999	41.9	34.3	17.7
	1000 and Over	0.8	0.1	0.4
	Total	5.6	3.2	3.0
336411	Aircraft			
	Employment Size			
	Under 50	3.1	6.4	6.8
	50-99	21.4	18.6	19.1
	100-249	30.8	5.9	16.2
	250-499	79.8	35.3	37.5
	500-999	17.5	226.6	5.2
	1000 and Over	0.0	0.0	0.0
	Total	7.3	5.5	5.5
337	FURNITURE AND RELATED PRODUCTS			
	Employment Size			
	Under 50	15.2	15.9	14.6
	50-99	20.6	27.6	24.3
	100-249	15.8	136.8	127.1
	250-499	23.1	32.7	24.5
	500-999	109.9	18.8	15.9
	1000 and Over	171.4	48.1	47.5
	Total	23.6	21.4	22.2
339	MISCELLANEOUS			
	Employment Size			
	Under 50	20.7	556.4	52.1
	50-99	19.4	29.7	25.6
	100-249	30.8	30.9	23.3
	250-499	26.7	25.9	24.9
	500-999	24.1	20.1	19.6

1000 and Over	30.6	26.7	24.9
Total	11.3	121.8	12.6

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

(b) *Employment Size* categories were supplied by the Bureau of the Census.

* 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).