

Table 6.4 Consumption ratios of fuel, 2022

Level: National data
 Row: Employment sizes within NAICS codes
 Column: Energy consumption ratios
 Unit: British thermal units (Btu)

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	906.8	5.1	2.4
	50-99	1,097.9	4.9	2.2
	100-249	1,406.2	6.0	2.7
	250-499	1,841.4	6.4	2.9
	500-999	2,431.7	7.4	2.6
	1,000 and over	1,446.1	4.1	1.6
	Total	1,528.4	5.6	2.4
311	Food			
	Employment size			
	Under 50	1,983.2	8.1	2.3
	50-99	1,480.6	6.5	1.6
	100-249	1,597.7	5.3	1.6
	250-499	1,443.0	6.3	2.2
	500-999	600.5	3.0	1.1
	1,000 and over	393.1	1.7	0.6
	Total	1,029.7	4.4	1.5
3112	Grain and oilseed milling			
	Employment size			
	Under 50	10,719.7	8.1	2.2
	50-99	4,868.6	7.0	1.6
	100-249	4,117.5	6.1	1.5
	250-499	10,215.9	16.7	6.7
	500-999	680.3	1.0	0.4
	1,000 and over	802.8	84.5	2.0
	Total	6,197.4	8.6	2.4
311221	Wet corn milling and starch manufacturing			
	Employment size			
	Under 50	12,823.1	20.9	7.5
	50-99	17,870.0	15.9	8.3
	100-249	13,775.7	17.0	4.6
	250-499	35,942.1	35.2	15.4
	500-999	434.3	0.3	0.1
	1,000 and over	0.0	0.0	0.0
	Total	23,025.8	23.7	9.0
31131	Sugar manufacturing			
	Employment size			
	Under 50	3,153.2	9.5	3.8
	50-99	1,454.9	20.0	5.8
	100-249	21,504.8	90.8	30.0
	250-499	11,905.5	43.2	14.8
	500-999	3,992.4	20.5	12.2
	1,000 and over	0.0	0.0	0.0
	Total	7,796.0	40.0	14.7
3114	Fruit and vegetable preserving and specialty foods			
	Employment size			
	Under 50	594.5	3.2	1.6
	50-99	Q	Q	Q
	100-249	961.5	3.7	1.8
	250-499	952.5	4.2	2.0

	500-999	824.0	2.6	1.4
	1,000 and over	619.5	2.1	1.2
	Total	820.6	3.1	1.6
3115	Dairy product manufacturing			
	Employment size			
	Under 50	3,005.7	13.4	3.4
	50-99	1,562.7	5.4	1.2
	100-249	1,027.4	4.2	1.1
	250-499	781.6	2.5	0.7
	500-999	1,455.1	6.1	1.6
	1,000 and over	556.6	1.4	0.5
	Total	1,118.5	4.1	1.1
3116	Animal slaughtering and processing			
	Employment size			
	Under 50	1,283.4	10.6	2.9
	50-99	1,589.7	Q	2.5
	100-249	1,432.2	6.7	1.9
	250-499	572.8	4.0	1.0
	500-999	380.3	2.2	0.8
	1,000 and over	380.3	1.7	0.6
	Total	534.0	2.7	0.9
312	Beverage and tobacco products			
	Employment size			
	Under 50	386.6	2.1	1.2
	50-99	353.6	1.8	0.9
	100-249	Q	Q	Q
	250-499	572.1	1.2	0.7
	500-999	577.1	1.3	0.9
	1,000 and over	242.0	0.1	0.1
	Total	1,236.7	2.8	1.7
3121	Beverages			
	Employment size			
	Under 50	385.9	2.1	1.3
	50-99	347.7	1.7	0.9
	100-249	Q	Q	Q
	250-499	599.8	1.3	0.8
	500-999	586.8	1.6	1.0
	1,000 and over	95.1	0.2	0.1
	Total	1,269.2	4.2	2.2
3122	Tobacco			
	Employment size			
	Under 50	444.1	1.2	0.5
	50-99	615.9	2.3	0.7
	100-249	944.9	1.2	0.7
	250-499	297.0	0.5	0.3
	500-999	414.4	0.3	0.3
	1,000 and over	995.1	0.1	0.1
	Total	638.6	0.2	0.2
313	Textile mills			
	Employment size			
	Under 50	403.7	3.5	1.7
	50-99	730.6	Q	1.3
	100-249	1,010.3	6.7	2.8
	250-499	1,006.0	6.9	2.6
	500-999	1,651.8	9.0	4.2
	1,000 and over	0.0	0.0	0.0
	Total	901.0	5.4	2.4
314	Textile product mills			
	Employment size			
	Under 50	64.0	1.0	0.5
	50-99	Q	Q	Q
	100-249	Q	1.0	0.5
	250-499	Q	Q	Q

	500-999	594.6	3.7	1.3
	1,000 and over	514.6	10.2	5.4
	Total	184.4	1.9	0.9
315	Apparel			
	Employment size			
	Under 50	49.0	Q	0.3
	50-99	Q	Q	Q
	100-249	48.2	1.1	Q
	250-499	63.9	Q	Q
	500-999	Q	Q	Q
	1,000 and over	0.0	0.0	0.0
	Total	47.7	0.6	0.3
316	Leather and allied products			
	Employment size			
	Under 50	60.7	0.9	0.5
	50-99	Q	1.1	0.7
	100-249	456.8	2.6	1.2
	250-499	32.8	0.3	0.1
	500-999	41.5	0.3	0.2
	1,000 and over	22.0	0.5	0.3
	Total	138.5	1.3	0.7
321	Wood products			
	Employment size			
	Under 50	409.7	2.8	1.2
	50-99	1,052.4	5.7	2.5
	100-249	2,345.7	9.2	4.3
	250-499	1,800.6	8.1	3.9
	500-999	318.9	1.7	1.0
	1,000 and over	156.0	0.7	0.4
	Total	1,281.6	6.3	2.9
321113	Sawmills			
	Employment size			
	Under 50	441.6	2.8	1.3
	50-99	2,332.8	9.7	4.6
	100-249	4,318.9	12.8	6.4
	250-499	4,119.4	13.7	6.8
	500-999	1,012.2	7.3	Q
	1,000 and over	0.0	0.0	0.0
	Total	2,896.5	10.9	5.3
3212	Veneer, plywood, and engineered wood product manufacturing			
	Employment size			
	Under 50	685.5	3.9	1.7
	50-99	1,154.4	6.3	3.0
	100-249	3,916.2	10.5	5.2
	250-499	2,601.5	11.5	5.2
	500-999	566.3	2.3	1.2
	1,000 and over	0.0	0.0	0.0
	Total	2,236.6	8.6	4.1
321219	Reconstituted wood products			
	Employment size			
	Under 50	365.5	5.7	1.1
	50-99	Q	67.3	39.7
	100-249	9,093.1	13.1	7.6
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	7,981.6	15.2	8.4
3219	Other wood products			
	Employment size			
	Under 50	272.3	2.0	0.9
	50-99	512.9	3.0	1.4
	100-249	537.2	3.5	1.6
	250-499	233.3	1.2	0.6

	500-999	160.0	0.9	0.6
	1,000 and over	150.2	0.7	0.4
	Total	354.5	2.1	1.1
322	Paper			
	Employment size			
	Under 50	1,225.3	7.9	2.7
	50-99	1,502.1	9.7	2.6
	100-249	1,462.9	6.7	2.5
	250-499	9,335.8	27.7	13.6
	500-999	11,797.1	31.7	17.5
	1,000 and over	Q	Q	Q
	Total	5,374.3	20.6	9.0
322110	Pulp mills			
	Employment size			
	Under 50	1,119.7	8.4	3.8
	50-99	14,421.6	33.8	14.3
	100-249	32,650.1	46.2	26.7
	250-499	45,372.5	96.1	50.5
	500-999	33,398.1	61.4	34.7
	1,000 and over	0.0	0.0	0.0
	Total	38,021.0	73.8	40.4
322120	Paper mills			
	Employment size			
	Under 50	755.1	-7.7	28.4
	50-99	4,135.2	16.8	5.8
	100-249	6,865.6	24.7	9.3
	250-499	17,916.7	35.0	19.9
	500-999	14,417.7	39.0	18.6
	1,000 and over	4,763.2	16.6	8.6
	Total	10,972.3	33.6	16.0
322130	Paperboard mills			
	Employment size			
	Under 50	32,188.7	80.0	32.7
	50-99	10,351.3	24.9	12.1
	100-249	13,253.4	19.5	10.7
	250-499	28,491.1	42.0	23.7
	500-999	37,867.6	57.5	31.9
	1,000 and over	28,530.0	40.7	26.2
	Total	28,577.9	43.7	24.3
323	Printing and related support			
	Employment size			
	Under 50	121.7	1.1	0.7
	50-99	107.7	0.9	0.5
	100-249	242.4	1.2	0.8
	250-499	151.7	0.9	0.5
	500-999	603.9	2.8	1.8
	1,000 and over	Q	Q	Q
	Total	192.0	1.3	0.7
324	Petroleum and coal products			
	Employment size			
	Under 50	10,659.8	21.9	6.1
	50-99	3,162.2	6.9	1.9
	100-249	8,424.9	8.2	3.0
	250-499	48,106.6	23.2	4.2
	500-999	58,149.1	34.9	4.2
	1,000 and over	65,802.8	16.5	4.1
	Total	37,134.1	20.7	4.1
324110	Petroleum refineries			
	Employment size			
	Under 50	76,578.8	24.4	19.8
	50-99	34,209.3	-118.9	3.2
	100-249	28,732.9	10.2	3.0
	250-499	57,120.6	23.5	4.2

	500-999	64,183.7	35.2	4.2
	1,000 and over	65,802.8	16.5	4.1
	Total	61,062.7	22.1	4.1
324121	Asphalt paving mixture and block			
	Employment size			
	Under 50	12,539.1	29.4	7.9
	50-99	2,446.3	9.6	3.6
	100-249	909.9	3.5	2.1
	250-499	0.0	0.0	0.0
	500-999	609.9	3.9	2.1
	1,000 and over	0.0	0.0	0.0
	Total	7,807.5	22.6	6.9
324122	Asphalt shingle and coating materials			
	Employment size			
	Under 50	1,782.8	5.9	2.5
	50-99	1,981.1	3.3	1.5
	100-249	1,624.5	1.8	1.0
	250-499	1,318.9	2.1	1.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	1,705.4	2.4	1.2
324191	Petroleum lubricating oil and grease manufacturing			
	Employment size			
	Under 50	949.0	1.5	0
	50-99	1,172.1	2.0	0.6
	100-249	946.2	1.3	0.5
	250-499	203.6	0.5	0.3
	500-999	4,576.6	15.2	4.8
	1,000 and over	0.0	0.0	0.0
	Total	1,194.0	2.0	0.6
324199	All other petroleum and coal products manufacturing			
	Employment size			
	Under 50	22,136.8	24.6	6.2
	50-99	6,508.2	12.7	4.4
	100-249	29,713.6	77.9	25.9
	250-499	39,590.7	457.7	211.1
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	23,815.9	52.5	16.3
325	Chemicals			
	Employment size			
	Under 50	4,816.1	9.8	4.3
	50-99	6,650.1	16.3	6.5
	100-249	5,968.6	9.9	5.1
	250-499	5,746.9	7.1	4.1
	500-999	4,860.1	6.2	3.6
	1,000 and over	3,566.9	5.7	4.0
	Total	5,199.0	8.1	4.5
325110	Petrochemicals			
	Employment size			
	Under 50	25,669.3	8.9	4.1
	50-99	66,422.5	31.6	6.3
	100-249	168,342.6	40.7	19.3
	250-499	67,291.4	23.3	11.0
	500-999	66,065.7	16.8	8.0
	1,000 and over	43,298.6	7.0	4.6
	Total	76,670.1	20.2	9.9
325120	Industrial gases			
	Employment size			
	Under 50	19,679.1	26.6	18.9
	50-99	7,708.5	12.0	11.3
	100-249	21,226.0	10.8	7.7
	250-499	35,474.4	55.2	34.3

	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	15,893.8	21.3	16.5
325180	Other basic inorganic chemical manufacturing			
	Employment size			
	Under 50	2,365.0	7.7	4.4
	50-99	7,378.4	9.8	6.2
	100-249	20,197.3	32.7	18.9
	250-499	Q	17.1	Q
	500-999	Q	Q	Q
	1,000 and over	13,881.9	15.1	11.3
	Total	7,278.0	16.6	9.6
325193	Ethyl alcohol			
	Employment size			
	Under 50	43,334.0	92.3	8.1
	50-99	54,951.7	96.8	9.6
	100-249	23,735.9	26.8	7.4
	250-499	71,360.9	29.2	16.6
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	48,340.2	67.5	9.3
325194	Cyclic crudes, intermediate and gum and wood chemicals			
	Employment size			
	Under 50	39,759.2	68.6	33.1
	50-99	15,219.7	51.5	27.2
	100-249	11,332.4	16.6	4.6
	250-499	3,009.2	4.6	3.1
	500-999	13,017.7	14.5	9.5
	1,000 and over	0.0	0.0	0.0
	Total	15,048.7	25.0	11.8
325199	All other basic organic chemical manufacturing			
	Employment size			
	Under 50	Q	14.5	4.6
	50-99	3,622.5	Q	3.3
	100-249	7,199.6	10.9	4.6
	250-499	15,149.2	12.4	7.4
	500-999	8,005.7	11.9	4.5
	1,000 and over	5,886.8	12.1	6.4
	Total	7,662.6	11.2	5.2
325211	Plastics materials and resins			
	Employment size			
	Under 50	Q	3.7	1.7
	50-99	1,894.8	4.7	1.7
	100-249	4,538.2	6.7	2.7
	250-499	10,186.1	18.6	7.1
	500-999	22,900.0	47.8	14.1
	1,000 and over	25,670.4	181.9	20.7
	Total	9,357.2	19.0	6.6
325212	Synthetic rubber			
	Employment size			
	Under 50	Q	Q	Q
	50-99	3,222.6	6.6	2.6
	100-249	9,240.4	27.0	9.0
	250-499	4,937.8	14.6	5.8
	500-999	1,374.4	3.2	2.0
	1,000 and over	0.0	0.0	0.0
	Total	5,306.0	14.9	6.0
325220	Artificial and synthetic fibers and filaments			
	Employment size			
	Under 50	1,517.5	9.3	3.2
	50-99	1,261.1	4.0	2.1
	100-249	2,601.4	16.4	6.5
	250-499	2,131.1	5.9	3.4

	500-999	1,776.6	4.1	2.0
	1,000 and over	730.3	5.4	1.9
	Total	1,891.9	7.4	3.5
325311	Nitrogenous fertilizers			
	Employment size			
	Under 50	5,304.9	13.7	6.6
	50-99	10,898.7	10.1	6.7
	100-249	41,980.3	24.6	17.7
	250-499	45,017.9	20.5	14.1
	500-999	116,995.9	27.6	18.2
	1,000 and over	0.0	0.0	0.0
	Total	31,728.6	20.6	13.8
325312	Phosphatic fertilizers			
	Employment size			
	Under 50	2,083.2	4.2	2.2
	50-99	715.0	0.7	0.6
	100-249	454.5	0.9	0.6
	250-499	8,111.7	8.9	4.7
	500-999	3,158.8	5.9	2.7
	1,000 and over	0.0	0.0	0.0
	Total	3,714.7	6.1	3.0
3254	Pharmaceuticals and medicines			
	Employment size			
	Under 50	584.5	Q	0.5
	50-99	Q	Q	Q
	100-249	453.5	0.6	0.4
	250-499	535.9	1.0	0.7
	500-999	297.4	0.5	0.3
	1,000 and over	227.2	0.3	0.3
	Total	380.3	0.6	0.5
325412	Pharmaceutical preparation			
	Employment size			
	Under 50	422.4	Q	0.3
	50-99	Q	Q	Q
	100-249	368.0	0.3	0.2
	250-499	508.7	0.8	0.5
	500-999	269.1	0.5	0.3
	1,000 and over	264.5	0.3	0.2
	Total	411.8	0.5	0.4
325992	Photographic film, paper, plate, chemical, and copy toner manufacturing			
	Employment size			
	Under 50	520.1	3.7	1.4
	50-99	400.6	1.1	0.5
	100-249	1,009.6	2.3	1.5
	250-499	2,060.3	14.4	5.9
	500-999	1,009.9	2.6	0.9
	1,000 and over	1,051.8	3.3	2.2
	Total	1,058.7	3.3	1.6
326	Plastics and rubber products			
	Employment size			
	Under 50	713.7	4.2	2.0
	50-99	512.8	2.0	1.1
	100-249	717.8	3.8	1.7
	250-499	358.5	2.7	1.0
	500-999	241.4	Q	0.9
	1,000 and over	456.2	Q	1.2
	Total	511.9	2.8	1.3
327	Nonmetallic mineral products			
	Employment size			
	Under 50	2,951.6	15.9	8.1
	50-99	2,475.9	9.7	5.9
	100-249	5,109.9	20.6	11.2
	250-499	3,234.7	9.6	6.2

	500-999	1,284.3	8.7	5.1
	1,000 and over	848.8	5.4	3.2
	Total	3,275.3	13.8	7.9
327120	Clay building material and refractories			
	Employment size			
	Under 50	1,573.8	9.8	5.0
	50-99	2,573.0	11.1	7.3
	100-249	1,701.2	8.7	6.3
	250-499	1,890.7	9.8	6.3
	500-999	359.1	4.6	2.1
	1,000 and over	0.0	0.0	0.0
	Total	1,859.1	9.9	6.2
327211	Flat glass			
	Employment size			
	Under 50	854.9	6.7	3.5
	50-99	357.8	2.5	1.5
	100-249	5,756.3	39.2	16.1
	250-499	4,906.2	19.4	10.4
	500-999	3,734.4	23.9	11.5
	1,000 and over	451.3	2.8	1.6
	Total	3,870.8	19.6	10.1
327212	Other pressed and blown glass and glassware			
	Employment size			
	Under 50	3,166.9	16.2	10.7
	50-99	2,188.8	12.3	5.7
	100-249	3,276.4	13.8	8.5
	250-499	3,521.7	10.1	8.4
	500-999	1,829.2	9.8	6.9
	1,000 and over	0.0	0.0	0.0
	Total	2,659.1	11.6	7.9
327213	Glass containers			
	Employment size			
	Under 50	54,279.5	Q	Q
	50-99	2,425.9	8.2	6.1
	100-249	4,906.1	20.9	12.7
	250-499	4,126.9	9.0	7.1
	500-999	4,086.9	14.6	9.7
	1,000 and over	0.0	0.0	0.0
	Total	4,325.9	10.9	8.2
327215	Glass products from purchased glass			
	Employment size			
	Under 50	Q	Q	Q
	50-99	443.2	2.6	1.6
	100-249	356.0	2.3	1.2
	250-499	448.5	3.4	1.4
	500-999	367.7	2.7	1.5
	1,000 and over	203.7	1.2	0.7
	Total	Q	Q	Q
327310	Cements			
	Employment size			
	Under 50	Q	103.7	66.7
	50-99	31,254.0	52.0	29.2
	100-249	31,806.0	69.8	40.4
	250-499	8,962.0	24.7	18.3
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	23,647.3	54.6	34.2
327410	Lime			
	Employment size			
	Under 50	38,981.1	67.9	38.6
	50-99	35,807.6	96.8	43.7
	100-249	17,394.3	49.4	36.3
	250-499	0.0	0.0	0.0

	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	30,726.3	74.0	40.5
327420	Gypsum			
	Employment size			
	Under 50	Q	38.2	Q
	50-99	12,009.5	17.6	10.3
	100-249	8,157.8	19.7	10.4
	250-499	6,530.2	28.6	12.7
	500-999	930.9	42.1	10.0
	1,000 and over	0.0	0.0	0.0
	Total	7,475.5	20.1	10.5
327993	Mineral wool			
	Employment size			
	Under 50	Q	Q	Q
	50-99	3,463.0	13.4	7.6
	100-249	2,778.5	8.7	4.5
	250-499	3,436.4	10.6	6.9
	500-999	1,341.1	5.8	3.9
	1,000 and over	0.0	0.0	0.0
	Total	3,238.9	11.2	6.4
331	Primary metals			
	Employment size			
	Under 50	1,255.6	4.4	1.9
	50-99	989.9	3.6	1.1
	100-249	1,562.1	5.1	1.8
	250-499	2,951.0	8.2	3.4
	500-999	4,203.9	9.9	3.7
	1,000 and over	13,023.6	32.1	12.5
	Total	4,136.6	11.8	4.4
331110	Iron and steel mills and ferroalloys			
	Employment size			
	Under 50	1,785.1	7.2	1.8
	50-99	3,750.8	3.2	1.6
	100-249	5,869.0	9.1	3.1
	250-499	8,241.0	10.2	4.5
	500-999	8,508.4	9.7	3.6
	1,000 and over	20,207.0	46.8	16.8
	Total	13,525.4	21.2	8.0
3312	Steel products from purchased steel			
	Employment size			
	Under 50	794.6	Q	0.7
	50-99	817.0	2.4	0.7
	100-249	935.3	2.7	1.1
	250-499	1,470.0	4.6	1.9
	500-999	1,631.8	6.2	2.0
	1,000 and over	0.0	0.0	0.0
	Total	1,139.6	3.3	1.3
3313	Alumina and aluminum production and processing			
	Employment size			
	Under 50	7,359.5	17.7	4.6
	50-99	752.3	3.0	0.8
	100-249	1,894.1	5.8	1.7
	250-499	3,343.4	16.7	5.8
	500-999	4,461.9	22.0	6.6
	1,000 and over	3,047.0	7.2	3.2
	Total	2,416.8	8.1	2.7
331314	Secondary smelting and alloying of aluminum			
	Employment size			
	Under 50	4,856.6	15.9	2.7
	50-99	4,564.3	14.1	2.6
	100-249	4,883.3	8.2	2.1
	250-499	2,682.7	16.6	3.3

	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	4,508.2	11.4	2.4
331315	Aluminum sheet, plate and foils			
	Employment size			
	Under 50	Q	Q	Q
	50-99	1,649.7	2.1	0.5
	100-249	2,883.5	5.9	1.8
	250-499	0.0	0.0	0.0
	500-999	3,263.8	12.1	2.9
	1,000 and over	3,152.8	7.2	3.2
	Total	3,239.2	7.4	2.7
331318	Other aluminum rolling, drawing and extruding			
	Employment size			
	Under 50	5,356.4	10.5	3.0
	50-99	1,471.0	7.4	1.8
	100-249	737.9	4.0	1.3
	250-499	835.3	5.0	1.6
	500-999	1,053.9	5.8	2.6
	1,000 and over	1,479.5	6.2	2.0
	Total	1,046.1	5.5	1.8
3314	Nonferrous metal (except aluminum) production and processing			
	Employment size			
	Under 50	1,316.8	2.6	1.1
	50-99	1,671.0	4.8	1.4
	100-249	1,600.4	4.3	1.2
	250-499	1,792.4	5.5	1.8
	500-999	1,665.5	8.4	3.0
	1,000 and over	980.7	3.5	2.4
	Total	1,619.4	4.7	1.5
331410	Nonferrous metal (except aluminum) smelting and refining			
	Employment size			
	Under 50	3,680.5	1.6	2.2
	50-99	1,591.6	3.8	0.6
	100-249	8,768.8	10.6	5.7
	250-499	4,531.7	15.2	3.6
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	4,910.2	8.0	2.9
3315	Foundries			
	Employment size			
	Under 50	506.6	4.6	2.3
	50-99	869.0	5.7	3.4
	100-249	776.8	4.9	2.6
	250-499	1,046.2	5.7	3.1
	500-999	1,192.4	5.9	3.4
	1,000 and over	1,548.9	10.2	4.9
	Total	922.1	5.6	3.0
331511	Iron foundries			
	Employment size			
	Under 50	638.1	6.1	2.8
	50-99	1,193.6	7.7	4.4
	100-249	946.1	4.5	2.4
	250-499	1,443.2	8.8	4.3
	500-999	1,720.3	7.0	4.2
	1,000 and over	0.0	0.0	0.0
	Total	1,444.6	7.4	4.1
331523	Nonferrous metal die-casting foundries			
	Employment size			
	Under 50	539.8	4.7	2.0
	50-99	964.2	8.0	4.2
	100-249	811.1	7.1	3.3
	250-499	1,010.8	7.1	3.5

	500-999	816.3	5.6	2.8
	1,000 and over	1,133.9	8.1	4.5
	Total	880.1	6.8	3.3
331524	Aluminum foundries, except die-casting			
	Employment size			
	Under 50	492.6	4.8	2.7
	50-99	661.8	5.7	3.4
	100-249	481.4	3.9	2.7
	250-499	720.8	4.4	3.0
	500-999	0.0	0.0	0.0
	1,000 and over	299.7	1.9	0.9
	Total	497.5	3.9	2.3
332	Fabricated metal products			
	Employment size			
	Under 50	221.7	1.5	0.9
	50-99	233.6	1.0	0.5
	100-249	553.5	3.3	2.0
	250-499	Q	Q	Q
	500-999	568.2	3.0	1.2
	1,000 and over	153.1	0.7	0.4
	Total	329.3	1.8	1.0
333	Machinery			
	Employment size			
	Under 50	148.8	0.9	0.5
	50-99	192.3	1.1	0.7
	100-249	88.1	0.6	0.3
	250-499	118.3	0.6	0.4
	500-999	225.3	0.7	0.3
	1,000 and over	190.3	0.5	0.3
	Total	152.6	0.7	0.4
334	Computer and electronic products			
	Employment size			
	Under 50	93.9	0.7	0.4
	50-99	Q	Q	Q
	100-249	102.4	0.5	0.3
	250-499	155.2	0.8	0.4
	500-999	204.0	Q	Q
	1,000 and over	182.2	0.4	0.2
	Total	168.3	0.5	0.2
334413	Semiconductors and related devices			
	Employment size			
	Under 50	Q	1.2	0.7
	50-99	Q	Q	Q
	100-249	622.1	Q	1.3
	250-499	765.1	3.8	2.4
	500-999	972.9	3.5	2.1
	1,000 and over	837.0	2.0	1.0
	Total	761.0	2.5	1.3
335	Electrical equipment, appliances, and components			
	Employment size			
	Under 50	68.8	Q	0.2
	50-99	167.7	Q	0.4
	100-249	252.1	1.4	0.5
	250-499	323.4	1.5	0.7
	500-999	208.8	Q	Q
	1,000 and over	214.4	1.0	0.5
	Total	226.2	1.1	0.5
336	Transportation equipment			
	Employment size			
	Under 50	154.0	1.1	0.4
	50-99	225.0	1.5	0.7
	100-249	126.4	0.8	0.3
	250-499	374.4	2.1	0.9

	500-999	226.1	1.4	0.5
	1,000 and over	230.0	0.7	0.2
	Total	226.1	0.9	0.3
336110	Automobile and light duty motor vehicle manufacturing			
	Employment size			
	Under 50	Q	Q	Q
	50-99	57.0	Q	Q
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	1,567.2	3.7	1.0
	1,000 and over	372.0	0.8	0.2
	Total	395.0	0.9	0.2
3364	Aerospace product and parts			
	Employment size			
	Under 50	541.8	Q	Q
	50-99	182.1	Q	Q
	100-249	201.0	0.9	0.5
	250-499	313.7	1.5	0.7
	500-999	Q	0.6	0.3
	1,000 and over	137.4	0.6	0.3
	Total	163.9	0.7	0.3
336411	Aircraft			
	Employment size			
	Under 50	Q	Q	Q
	50-99	Q	Q	Q
	100-249	109.6	0.3	0.2
	250-499	114.8	0.6	0.3
	500-999	102.0	0.3	0.2
	1,000 and over	92.6	0.4	0.2
	Total	101.9	0.4	0.2
337	Furniture and related products			
	Employment size			
	Under 50	98.3	0.9	0.6
	50-99	71.5	0.8	0.3
	100-249	124.7	1.7	0.7
	250-499	Q	Q	Q
	500-999	184.4	1.1	0.6
	1,000 and over	152.4	1.4	0.7
	Total	198.6	1.7	0.9
339	Miscellaneous			
	Employment size			
	Under 50	155.3	1.1	0.6
	50-99	Q	Q	Q
	100-249	150.5	0.9	0.5
	250-499	104.9	0.5	0.3
	500-999	276.1	1.2	0.6
	1,000 and over	107.0	0.5	0.3
	Total	139.4	0.7	0.4

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.

^a The Bureau of the Census classifies establishments using the 2022 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 (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 6.4 Relative standard errors for Table 6.4

Unit: Percentage

NAICS code ^a	Economic characteristic ^b	Consumption per employee	Consumption per dollar of value added	Consumption per dollar of value of shipments
Total United States				
311 - 339	All manufacturing industries			
	Employment size			
	Under 50	8.0	8.6	8.3
	50-99	7.8	8.2	7.9
	100-249	8.1	7.3	7.0
	250-499	7.4	8.4	5.9
	500-999	6.9	9.1	14.1
	1,000 and over	4.3	4.8	4.2
	Total	2.6	3.0	3.3
311	Food			
	Employment size			
	Under 50	14.2	18.1	16.1
	50-99	12.7	12.8	8.4
	100-249	8.6	10.5	7.3
	250-499	9.5	7.0	7.0
	500-999	9.9	6.6	9.3
	1,000 and over	4.8	3.8	2.9
	Total	4.1	3.6	3.3
3112	Grain and oilseed milling			
	Employment size			
	Under 50	12.9	33.6	19.3
	50-99	12.2	12.8	8.3
	100-249	13.2	33.0	18.4
	250-499	12.4	4.4	4.1
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	5.6	11.1	7.3
311221	Wet corn milling and starch manufacturing			
	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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
31131	Sugar manufacturing			
	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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
3114	Fruit and vegetable preserving and specialty foods			
	Employment size			
	Under 50	26.1	20.3	21.6
	50-99	68.3	60.3	66.0
	100-249	11.1	8.9	8.2
	250-499	9.0	5.9	5.2
	500-999	3.8	2.1	1.5
	1,000 and over	11.8	1.0	0.5
	Total	4.9	3.6	3.9

3115	Dairy product manufacturing			
	Employment size			
	Under 50	30.5	41.9	43.7
	50-99	21.2	29.2	13.3
	100-249	9.6	9.7	5.9
	250-499	10.4	7.5	9.8
	500-999	9.2	3.9	5.1
	1,000 and over	18.0	46.6	30.1
	Total	5.7	5.6	5.2
3116	Animal slaughtering and processing			
	Employment size			
	Under 50	42.0	46.9	47.1
	50-99	22.3	52.3	20.7
	100-249	18.9	14.2	18.5
	250-499	14.1	18.8	18.0
	500-999	6.9	9.1	6.0
	1,000 and over	3.0	3.3	2.7
	Total	4.9	5.3	4.9
312	Beverage and tobacco products			
	Employment size			
	Under 50	27.1	27.4	26.8
	50-99	27.3	29.2	24.5
	100-249	55.9	53.9	53.9
	250-499	7.6	17.9	9.9
	500-999	9.5	6.5	5.4
	1,000 and over	0.0	0.0	0.0
	Total	40.3	40.1	40.1
3121	Beverages			
	Employment size			
	Under 50	27.5	27.8	27.2
	50-99	28.1	30.3	26.0
	100-249	56.9	54.8	54.8
	250-499	8.5	21.6	11.6
	500-999	10.2	7.3	5.9
	1,000 and over	0.0	0.0	0.0
	Total	41.5	41.5	41.3
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
	1,000 and over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
313	Textile mills			
	Employment size			
	Under 50	25.1	28.6	21.7
	50-99	24.7	62.6	21.9
	100-249	14.9	18.3	14.3
	250-499	9.6	13.1	7.3
	500-999	12.6	9.3	9.4
	1,000 and over	X	X	X
	Total	7.2	13.6	7.5
314	Textile product mills			
	Employment size			
	Under 50	30.2	29.3	29.9
	50-99	167.9	117.1	61.2
	100-249	51.5	39.8	37.2
	250-499	104.0	137.1	75.3
	500-999	16.8	9.3	5.9
	1,000 and over	0.0	0.0	0.0
	Total	21.0	21.8	16.6

315	Apparel			
	Employment size			
	Under 50	20.5	53.6	44.9
	50-99	76.1	91.9	70.2
	100-249	45.1	45.8	67.4
	250-499	29.4	94.8	60.3
	500-999	377.2	128.4	168.5
	1,000 and over	X	X	X
	Total	14.9	23.9	21.1
316	Leather and allied products			
	Employment size			
	Under 50	23.2	29.3	31.2
	50-99	99.1	30.2	30.9
	100-249	43.3	35.4	40.9
	250-499	8.6	40.3	29.8
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	34.3	30.5	31.7
321	Wood products			
	Employment size			
	Under 50	12.0	14.5	13.4
	50-99	15.5	14.9	14.5
	100-249	9.6	5.8	5.7
	250-499	10.0	8.8	8.7
	500-999	22.0	14.4	11.0
	1,000 and over	10.9	8.2	7.4
	Total	5.0	4.4	4.2
321113	Sawmills			
	Employment size			
	Under 50	14.1	14.4	13.9
	50-99	15.7	15.3	14.9
	100-249	3.7	2.0	1.4
	250-499	14.4	7.5	11.3
	500-999	17.3	14.6	57.1
	1,000 and over	X	X	X
	Total	3.9	3.1	3.0
3212	Veneer, plywood, and engineered wood product manufacturing			
	Employment size			
	Under 50	34.2	48.0	40.9
	50-99	25.3	25.2	27.3
	100-249	9.1	6.3	6.7
	250-499	1.1	0.3	0.7
	500-999	6.2	3.5	4.5
	1,000 and over	X	X	X
	Total	7.0	6.1	6.1
321219	Reconstituted wood products			
	Employment size			
	Under 50	20.1	42.2	8.1
	50-99	51.6	22.3	20.8
	100-249	2.1	0.5	0.8
	250-499	X	X	X
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	12.8	0.4	3.1
3219	Other wood products			
	Employment size			
	Under 50	16.9	21.7	20.0
	50-99	41.5	41.2	40.9
	100-249	36.3	35.7	34.1
	250-499	16.9	19.1	19.7
	500-999	26.3	16.0	13.8
	1,000 and over	10.6	8.0	7.2
	Total	17.0	17.0	16.7

322	Paper			
	Employment size			
	Under 50	22.6	38.1	32.3
	50-99	38.5	42.1	40.4
	100-249	14.8	12.4	12.4
	250-499	30.7	12.4	13.9
	500-999	30.5	25.2	19.3
	1,000 and over	286.5	92.8	195.4
	Total	11.2	8.0	8.0
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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
322120	Paper 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
	1,000 and over	0.0	0.0	0.0
	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
	1,000 and over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
323	Printing and related support			
	Employment size			
	Under 50	15.9	17.0	16.6
	50-99	23.5	22.8	29.7
	100-249	24.7	21.5	22.1
	250-499	27.7	33.2	32.8
	500-999	17.6	27.6	20.5
	1,000 and over	71.6	121.4	146.9
	Total	10.8	10.3	10.9
324	Petroleum and coal products			
	Employment size			
	Under 50	4.5	4.3	8.6
	50-99	9.3	10.5	5.4
	100-249	4.9	0.8	0.8
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	1.2	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
	1,000 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	4.3	5.5	3.2
	50-99	19.2	21.3	20.3
	100-249	3.8	4.2	2.4
	250-499	X	X	X
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	3.7	4.5	3.0
324122	Asphalt shingle and coating materials			
	Employment size			
	Under 50	22.2	12.5	11.8
	50-99	1.3	1.2	1.2
	100-249	0.9	0.1	0.5
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	3.0	0.8	0.9
324191	Petroleum lubricating oil and grease manufacturing			
	Employment size			
	Under 50	23.4	20.7	59.8
	50-99	40.2	40.2	29.9
	100-249	14.8	1.1	0.8
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	12.6	12.8	11.0
324199	All other petroleum and coal products manufacturing			
	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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
325	Chemicals			
	Employment size			
	Under 50	11.9	18.2	15.4
	50-99	15.3	12.9	11.2
	100-249	13.6	6.5	7.8
	250-499	12.4	32.6	24.9
	500-999	8.4	14.0	9.6
	1,000 and over	18.7	4.6	3.3
	Total	5.4	7.3	5.8
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
	1,000 and over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
325120	Industrial gases			
	Employment size			
	Under 50	26.8	26.2	20.7
	50-99	28.9	36.3	33.1
	100-249	0.0	0.0	0.0
	250-499	2.9	2.9	2.9
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	18.9	16.3	12.5

325180	Other basic inorganic chemical manufacturing			
	Employment size			
	Under 50	44.9	21.2	25.5
	50-99	19.2	10.1	10.3
	100-249	13.9	14.5	8.2
	250-499	66.9	42.8	74.6
	500-999	167.8	54.1	99.6
	1,000 and over	0.0	0.0	0.0
	Total	16.7	6.8	9.6
325193	Ethyl alcohol			
	Employment size			
	Under 50	4.0	7.0	1.9
	50-99	2.0	10.3	1.1
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	1.7	3.5	0.9
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	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
325199	All other basic organic chemical manufacturing			
	Employment size			
	Under 50	58.8	30.2	28.9
	50-99	37.9	64.0	31.4
	100-249	21.3	12.9	9.3
	250-499	4.3	1.4	1.2
	500-999	10.1	5.5	0.1
	1,000 and over	0.0	0.0	0.0
	Total	7.2	6.4	4.3
325211	Plastics materials and resins			
	Employment size			
	Under 50	58.6	47.5	36.8
	50-99	25.0	10.7	14.8
	100-249	28.7	11.4	13.7
	250-499	20.8	4.1	4.4
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	10.6	7.9	6.9
325212	Synthetic rubber			
	Employment size			
	Under 50	70.5	162.0	71.1
	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
	1,000 and over	X	X	X
	Total	4.8	4.3	2.5
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	19.1	11.0	7.7
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	5.0	1.5	1.3

325311	Nitrogenous 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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0
3254	Pharmaceuticals and medicines			
	Employment size			
	Under 50	34.1	56.9	45.0
	50-99	62.8	57.3	59.2
	100-249	25.4	16.4	17.8
	250-499	19.1	30.1	23.5
	500-999	4.6	1.0	1.1
	1,000 and over	22.6	3.1	3.0
	Total	12.4	9.2	9.2
325412	Pharmaceutical preparation			
	Employment size			
	Under 50	46.4	59.7	46.5
	50-99	117.6	90.6	103.6
	100-249	16.2	10.9	13.9
	250-499	23.8	32.9	22.1
	500-999	8.1	1.8	2.0
	1,000 and over	5.6	7.2	7.3
	Total	16.0	15.1	15.3
325992	Photographic film, paper, plate, chemical, and copy toner manufacturing			
	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
	1,000 and over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
326	Plastics and rubber products			
	Employment size			
	Under 50	32.8	34.2	34.5
	50-99	27.6	40.4	36.0
	100-249	37.0	37.2	36.9
	250-499	36.6	37.3	25.7
	500-999	33.9	133.4	48.1
	1,000 and over	20.0	55.3	27.9
	Total	15.6	18.3	15.5
327	Nonmetallic mineral products			
	Employment size			
	Under 50	34.3	34.9	35.1
	50-99	31.4	34.3	30.5
	100-249	28.6	25.8	25.4
	250-499	9.5	33.7	32.2
	500-999	0.0	0.0	0.0
	1,000 and over	18.1	8.8	7.2
	Total	14.2	15.2	14.6

327120	Clay building material and refractories			
	Employment size			
	Under 50	18.6	15.4	26.9
	50-99	8.6	12.4	10.6
	100-249	4.5	4.4	4.5
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	5.2	5.5	6.8
327211	Flat glass			
	Employment size			
	Under 50	0.0	0.0	0.0
	50-99	16.2	11.8	6.7
	100-249	20.5	2.6	8.7
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	3.3	1.3	1.5
327212	Other pressed and blown glass and glassware			
	Employment size			
	Under 50	15.3	31.3	24.2
	50-99	6.2	2.4	3.2
	100-249	10.8	3.4	3.9
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	2.5	2.2	2.0
327213	Glass containers			
	Employment size			
	Under 50	0.1	88.7	99.0
	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
	1,000 and over	X	X	X
	Total	0.1	0.1	0.1
327215	Glass products from purchased glass			
	Employment size			
	Under 50	89.9	89.3	89.4
	50-99	14.5	13.3	11.5
	100-249	13.4	14.9	14.8
	250-499	4.3	3.9	8.8
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	73.1	73.1	73.0
327310	Cements			
	Employment size			
	Under 50	53.7	18.9	19.9
	50-99	0.8	2.3	2.0
	100-249	2.6	3.0	1.7
	250-499	1.0	9.9	9.8
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	4.3	1.7	2.6
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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0

327420	Gypsum			
	Employment size			
	Under 50	79.1	32.6	67.3
	50-99	12.9	15.5	14.1
	100-249	0.0	0.0	0.0
	250-499	13.4	1.2	1.4
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	4.0	5.3	4.7
327993	Mineral wool			
	Employment size			
	Under 50	104.5	86.0	98.4
	50-99	0.0	0.0	0.0
	100-249	35.8	11.7	36.0
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	20.7	17.3	21.2
331	Primary metals			
	Employment size			
	Under 50	8.0	16.2	7.8
	50-99	3.2	4.4	3.9
	100-249	2.4	2.4	1.7
	250-499	1.6	1.0	0.5
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	0.9	1.0	0.7
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
	1,000 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	17.7	72.4	28.3
	50-99	11.1	18.6	16.8
	100-249	8.8	7.5	7.2
	250-499	9.0	7.2	3.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	3.8	6.4	4.2
3313	Alumina and aluminum production and processing			
	Employment size			
	Under 50	14.4	17.7	10.7
	50-99	0.4	0.3	0.3
	100-249	1.9	0.8	0.8
	250-499	5.3	4.0	2.7
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	0.7	0.5	0.4
331314	Secondary smelting and alloying of aluminum			
	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
	1,000 and over	X	X	X
	Total	0.0	0.0	0.0

331315	Aluminum sheet, plate and foils			
	Employment size			
	Under 50	125.5	336.3	324.6
	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
	1,000 and over	0.0	0.0	0.0
	Total	0.5	0.7	0.7
331318	Other aluminum rolling, drawing and extruding			
	Employment size			
	Under 50	23.1	8.1	7.8
	50-99	9.1	3.1	2.4
	100-249	3.9	3.4	3.5
	250-499	6.1	5.7	3.4
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	2.1	1.7	1.4
3314	Nonferrous metal (except aluminum) production and processing			
	Employment size			
	Under 50	36.7	11.1	9.4
	50-99	12.9	12.6	8.1
	100-249	9.8	4.9	4.0
	250-499	1.3	0.1	0.8
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	4.0	2.7	2.2
331410	Nonferrous metal (except aluminum) smelting and refining			
	Employment size			
	Under 50	6.1	4.3	4.3
	50-99	0.0	0.0	0.0
	100-249	8.7	2.0	1.9
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1,000 and over	X	X	X
	Total	1.9	0.7	0.5
3315	Foundries			
	Employment size			
	Under 50	9.4	5.7	7.5
	50-99	8.3	9.2	8.7
	100-249	2.9	4.0	2.9
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	1.6	1.6	1.4
331511	Iron foundries			
	Employment size			
	Under 50	14.7	13.5	11.8
	50-99	21.2	23.6	21.1
	100-249	6.4	5.7	6.1
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	X	X	X
	Total	2.6	2.6	2.4
331523	Nonferrous metal die-casting foundries			
	Employment size			
	Under 50	15.1	15.5	25.3
	50-99	5.7	6.1	7.2
	100-249	4.7	5.1	4.3
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1,000 and over	0.0	0.0	0.0
	Total	1.8	1.9	2.3

331524	Aluminum foundries, except die-casting			
	Employment size			
	Under 50	6.7	9.1	8.6
	50-99	0.6	1.3	2.8
	100-249	6.8	10.9	5.9
	250-499	0.0	0.0	0.0
	500-999	X	X	X
	1,000 and over	0.0	0.0	0.0
	Total	2.7	3.8	2.2
332	Fabricated metal products			
	Employment size			
	Under 50	23.5	24.4	24.3
	50-99	25.5	27.8	35.0
	100-249	49.2	49.1	49.6
	250-499	50.5	63.9	54.4
	500-999	36.5	48.3	34.5
	1,000 and over	9.9	8.8	23.7
	Total	24.3	25.6	25.6
333	Machinery			
	Employment size			
	Under 50	17.3	18.5	17.8
	50-99	42.3	43.0	44.9
	100-249	19.3	25.0	20.7
	250-499	24.1	29.2	24.6
	500-999	26.4	46.6	39.5
	1,000 and over	23.9	25.6	21.3
	Total	10.5	13.2	12.7
334	Computer and electronic products			
	Employment size			
	Under 50	21.9	24.2	23.5
	50-99	79.0	73.8	62.7
	100-249	18.8	28.1	23.8
	250-499	23.1	33.5	28.5
	500-999	29.7	69.8	152.4
	1,000 and over	15.1	26.2	26.6
	Total	13.5	19.5	39.2
334413	Semiconductors and related devices			
	Employment size			
	Under 50	53.0	40.1	30.2
	50-99	760.9	703.8	638.6
	100-249	31.4	53.3	29.0
	250-499	10.2	11.0	9.4
	500-999	0.3	0.3	0.2
	1,000 and over	0.1	0.1	0.1
	Total	4.6	5.1	3.6
335	Electrical equipment, appliances, and components			
	Employment size			
	Under 50	19.3	50.5	41.8
	50-99	15.5	55.7	15.7
	100-249	32.0	30.4	34.3
	250-499	26.5	22.9	18.5
	500-999	49.0	51.0	50.8
	1,000 and over	15.0	19.0	14.2
	Total	10.0	11.6	10.4
336	Transportation equipment			
	Employment size			
	Under 50	24.8	28.9	27.7
	50-99	26.2	22.3	23.1
	100-249	15.9	17.8	17.9
	250-499	26.9	26.9	27.5
	500-999	24.5	21.6	21.1
	1,000 and over	4.6	9.1	6.3
	Total	5.5	7.7	6.3

336110 Automobile and light duty motor vehicle manufacturing			
Employment size			
Under 50	276.9	84.6	97.4
50-99	27.1	200.9	133.9
100-249	X	X	X
250-499	X	X	X
500-999	0.0	0.0	0.0
1,000 and over	0.6	0.6	0.6
Total	0.7	0.7	0.7
3364 Aerospace product and parts			
Employment size			
Under 50	43.0	58.3	52.9
50-99	42.5	51.3	56.3
100-249	11.7	13.2	10.7
250-499	22.3	22.6	29.7
500-999	51.4	32.4	24.8
1,000 and over	4.0	0.9	0.4
Total	6.0	4.6	4.0
336411 Aircraft			
Employment size			
Under 50	1,025.6	706.1	268.6
50-99	548.3	2,913.8	2,597.5
100-249	31.5	44.2	43.7
250-499	10.5	26.2	20.4
500-999	0.0	0.0	0.0
1,000 and over	5.1	2.5	1.5
Total	6.4	4.1	3.7
337 Furniture and related products			
Employment size			
Under 50	17.4	19.8	18.4
50-99	25.8	28.4	28.2
100-249	31.4	32.0	24.5
250-499	64.0	53.6	64.6
500-999	17.2	16.3	16.6
1,000 and over	22.0	25.0	19.6
Total	30.1	27.9	29.9
339 Miscellaneous			
Employment size			
Under 50	29.5	33.9	33.4
50-99	75.5	102.2	91.3
100-249	43.1	49.5	46.9
250-499	35.1	39.7	36.2
500-999	21.9	36.7	34.6
1,000 and over	16.5	20.5	22.9
Total	13.5	15.6	14.5

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.

^a The Bureau of the Census classifies establishments using the 2022 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 (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).