

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

Table 6.3 Consumption Ratios of Fuel, 2018;

Level: National Data;
 Row: Values of Shipments 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			
	Value of Shipments and Receipts (million dollars)			
	Under 20	274.3	2.1	1.6
	20-49	455.4	2.9	1.5
	50-99	830.2	4.8	2.2
	100-249	1,150.5	5.3	2.3
	250-499	1,940.5	6.9	3.0
	500 and Over	4,122.8	8.1	3.1
	Total	1,285.1	5.6	2.6
311	FOOD			
	Value of Shipments and Receipts (million dollars)			
	Under 20	343.0	4.2	2.0
	20-49	539.8	3.5	1.3
	50-99	927.5	5.6	1.7
	100-249	782.2	3.8	1.4
	250-499	857.4	3.7	1.4
	500 and Over	1,129.6	3.7	1.2
	Total	778.2	3.9	1.4
3112	Grain and Oilseed Milling			
	Value of Shipments and Receipts (million dollars)			
	Under 20	3,304.2	18.9	7.1
	20-49	917.4	3.5	1.7
	50-99	946.4	3.3	1.2
	100-249	4,617.3	12.7	3.2
	250-499	5,198.0	12.5	2.4
	500 and Over	11,754.1	15.7	3.3
	Total	4,829.4	11.9	2.9
311221	Wet Corn Milling			
	Value of Shipments and Receipts (million dollars)			
	Under 20	6,516.1	49.0	16.3
	20-49	4,032.2	28.5	7.0
	50-99	5,993.1	9.5	3.4
	100-249	16,571.8	25.1	10.6
	250-499	10,435.1	18.2	6.4
	500 and Over	27,134.7	35.6	12.5
	Total	17,478.6	28.5	10.4
31131	Sugar			
	Value of Shipments and Receipts (million dollars)			
	Under 20	1,336.3	7.5	2.5
	20-49	5,038.6	44.6	11.0
	50-99	4,686.5	23.3	9.5

100-249	7,598.5	40.3	13.1
250-499	8,915.0	33.8	11.3
500 and Over	10,319.3	29.5	7.3
Total	7,865.7	32.2	9.8

3114 Fruit and Vegetable Preserving and Specialty Foods

**Value of Shipments and Receipts
(million dollars)**

Under 20	444.9	3.2	2.3
20-49	654.2	4.0	1.8
50-99	988.5	5.8	2.3
100-249	1,086.8	5.5	2.3
250-499	937.7	3.8	1.7
500 and Over	863.3	2.4	1.1
Total	893.3	4.3	1.9

3115 Dairy Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	954.0	9.0	3.2
20-49	451.9	3.3	1.2
50-99	726.8	4.2	1.2
100-249	725.2	3.5	1.1
250-499	1,186.6	4.1	1.1
500 and Over	858.9	1.9	0.7
Total	822.0	3.3	1.1

3116 Animal Slaughtering and Processing

**Value of Shipments and Receipts
(million dollars)**

Under 20	557.7	6.3	2.6
20-49	837.4	5.7	2.5
50-99	Q	Q	Q
100-249	406.3	2.8	1.1
250-499	283.8	2.2	0.8
500 and Over	504.9	3.0	0.8
Total	567.6	3.9	1.2

312 BEVERAGE AND TOBACCO PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	292.0	3.0	2.0
20-49	573.8	2.3	1.3
50-99	365.0	1.5	0.8
100-249	982.5	4.7	1.6
250-499	545.6	1.1	0.5
500 and Over	1,066.3	0.5	0.4
Total	559.0	1.2	0.8

3121 Beverages

**Value of Shipments and Receipts
(million dollars)**

Under 20	291.9	3.0	2.0
20-49	566.6	2.3	1.3
50-99	355.0	1.5	0.8
100-249	999.9	4.9	1.6
250-499	561.0	1.1	0.5
500 and Over	1,198.3	1.0	0.7
Total	556.6	1.8	1.0

3122 Tobacco

**Value of Shipments and Receipts
(million dollars)**

Under 20	310.5	1.8	1.2
20-49	764.7	2.7	1.8

50-99	573.8	1.8	0.9
100-249	777.5	3.3	1.4
250-499	233.4	0.4	0.2
500 and Over	578.4	0.1	0.1
Total	599.2	0.2	0.2

313 TEXTILE MILLS

**Value of Shipments and Receipts
(million dollars)**

Under 20	260.7	3.8	1.9
20-49	662.1	4.9	2.4
50-99	829.6	6.2	2.4
100-249	1,025.0	6.9	2.5
250-499	1,508.8	3.8	1.9
500 and Over	0.0	0.0	0.0
Total	681.1	5.5	2.3

314 TEXTILE PRODUCT MILLS

**Value of Shipments and Receipts
(million dollars)**

Under 20	116.5	1.2	0.7
20-49	Q	Q	Q
50-99	Q	Q	Q
100-249	539.1	2.5	1.3
250-499	366.0	2.1	0.9
500 and Over	1,311.3	5.4	2.0
Total	219.4	1.4	0.7

315 APPAREL

**Value of Shipments and Receipts
(million dollars)**

Under 20	63.1	1.0	Q
20-49	121.6	Q	Q
50-99	58.5	Q	Q
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	78.5	1.0	0.5

316 LEATHER AND ALLIED PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	79.9	1.0	0.5
20-49	95.3	1.2	0.6
50-99	77.0	0.9	0.3
100-249	126.9	1.6	0.3
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	87.9	1.1	0.4

321 WOOD PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	520.5	6.5	3.1
20-49	604.3	4.8	2.1
50-99	1,840.5	8.6	4.6
100-249	2,259.0	10.6	4.5
250-499	408.1	2.3	1.1
500 and Over	358.1	1.1	0.6
Total	950.9	7.2	3.4

321113 Sawmills

**Value of Shipments and Receipts
(million dollars)**

Under 20	831.5	8.7	3.9
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20-49	1,484.0	8.7	4.3
50-99	3,542.1	10.5	6.7
100-249	4,214.2	13.8	5.4
250-499	810.8	2.9	1.4
500 and Over	0.0	0.0	0.0
Total	2,133.6	10.4	5.3

3212 Veneer, Plywood, and Engineered Woods

**Value of Shipments and Receipts
(million dollars)**

Under 20	849.4	10.2	5.0
20-49	985.7	7.8	3.3
50-99	3,030.9	18.3	8.0
100-249	3,690.6	14.6	6.6
250-499	1,940.1	5.6	2.2
500 and Over	0.0	0.0	0.0
Total	1,866.0	12.9	5.8

321219 Reconstituted Wood Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	7,144.2	51.0	25.3
20-49	2,308.5	14.9	6.0
50-99	4,608.5	22.7	9.7
100-249	7,563.9	15.9	8.8
250-499	8,494.0	10.2	6.0
500 and Over	0.0	0.0	0.0
Total	5,865.9	18.8	9.6

3219 Other Wood Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	325.4	4.3	2.1
20-49	343.9	3.0	1.4
50-99	224.3	1.5	0.8
100-249	470.3	3.0	1.4
250-499	158.1	1.1	0.6
500 and Over	233.1	0.9	0.5
Total	324.3	3.1	1.5

322 PAPER

**Value of Shipments and Receipts
(million dollars)**

Under 20	415.3	3.0	1.4
20-49	627.8	3.9	1.9
50-99	1,391.9	7.1	2.5
100-249	4,517.8	15.7	5.9
250-499	15,397.1	40.7	17.7
500 and Over	21,288.8	33.3	19.8
Total	6,468.7	22.4	10.0

322110 Pulp Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	36,179.6	-82.8	22.0
50-99	6,910.3	19.4	9.8
100-249	37,831.0	98.3	49.8
250-499	43,096.5	124.1	69.5
500 and Over	32,119.4	76.8	36.3
Total	37,920.8	102.6	52.6

322121 Paper Mills, except Newsprint

**Value of Shipments and Receipts
(million dollars)**

Under 20	3,290.1	18.8	11.5
20-49	3,790.3	26.8	10.4
50-99	6,495.3	42.9	15.2
100-249	8,672.2	34.6	15.6
250-499	16,755.4	46.3	22.9
500 and Over	16,281.8	27.0	15.8
Total	13,693.0	32.4	17.3

322122 Newsprint Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	57.1	0.3	0.1
20-49	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	21,160.1	55.8	24.7
250-499	20,249.6	79.0	26.0
500 and Over	0.0	0.0	0.0
Total	20,363.8	67.1	25.3

322130 Paperboard Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	368.1	2.3	1.0
20-49	7,537.4	25.8	13.4
50-99	6,446.5	21.6	10.8
100-249	16,853.2	43.1	23.1
250-499	26,892.3	47.1	27.9
500 and Over	36,139.7	51.3	29.4
Total	26,140.0	46.9	26.7

323 PRINTING AND RELATED SUPPORT

**Value of Shipments and Receipts
(million dollars)**

Under 20	86.8	1.1	0.6
20-49	180.4	1.3	0.7
50-99	222.7	1.5	0.8
100-249	415.5	3.3	1.7
250-499	1,148.2	Q	Q
500 and Over	Q	Q	Q
Total	168.8	1.4	0.8

324 PETROLEUM AND COAL PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	2,363.6	14.0	4.8
20-49	1,911.7	6.7	2.7
50-99	3,705.9	10.4	4.3
100-249	3,384.0	6.8	2.7
250-499	6,830.7	7.6	3.1
500 and Over	51,649.3	27.6	5.2
Total	30,305.6	25.2	5.1

324110 Petroleum Refineries

**Value of Shipments and Receipts
(million dollars)**

Under 20	9,406.9	167.8	42.0
20-49	6,711.1	29.9	16.0
50-99	1,264.7	1.2	0.3
100-249	24,431.1	16.2	3.5
250-499	15,334.7	33.9	7.9
500 and Over	53,370.4	28.6	5.3
Total	52,381.3	28.6	5.3

324121 Asphalt Paving Mixture and Block

Value of Shipments and Receipts

(million dollars)			
Under 20	4,580.3	17.0	5.4
20-49	2,986.8	9.1	3.5
50-99	2,115.2	6.0	2.6
100-249	2,598.8	9.1	2.7
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	3,834.6	13.1	4.5
324122	Asphalt Shingle and Coating Materials		
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,718.7	10.3	3.8
20-49	1,593.9	7.2	2.8
50-99	1,573.7	4.0	1.6
100-249	1,423.7	2.3	1.1
250-499	1,682.0	1.8	1.0
500 and Over	0.0	0.0	0.0
Total	1,555.2	2.9	1.4
324191	Petroleum Lubricating Oil and Grease		
Value of Shipments and Receipts			
(million dollars)			
Under 20	Q	Q	0.5
20-49	260.0	1.0	0.4
50-99	4,058.6	15.0	5.0
100-249	1,475.4	5.6	1.6
250-499	2,595.1	2.3	0.9
500 and Over	2,771.3	1.4	0.5
Total	1,233.9	2.9	1.1
324199	Other Petroleum and Coal Products		
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,469.9	8.4	4.1
20-49	38.3	0.2	0.1
50-99	9,716.0	19.4	11.5
100-249	22,312.9	29.4	10.0
250-499	14,605.9	12.5	5.6
500 and Over	0.0	0.0	0.0
Total	10,014.6	17.1	7.4
325	CHEMICALS		
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,915.4	11.5	6.5
20-49	1,524.2	5.2	2.9
50-99	3,767.5	13.4	6.3
100-249	3,872.2	12.0	4.6
250-499	6,162.5	12.0	6.2
500 and Over	10,182.3	8.3	4.8
Total	5,018.2	9.4	5.0
325110	Petrochemicals		
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,918.6	7.3	3.4
20-49	139.3	0.3	0.2
50-99	623.5	2.7	1.0
100-249	10,734.4	30.9	10.8
250-499	49,494.4	52.2	15.8
500 and Over	63,298.3	22.7	9.5
Total	58,401.0	23.1	9.6
325120	Industrial Gases		

Value of Shipments and Receipts**(million dollars)**

Under 20	15,903.8	61.1	41.5
20-49	8,974.8	19.5	13.7
50-99	5,005.0	9.6	6.1
100-249	8,419.0	20.2	8.1
250-499	43,221.1	29.7	23.3
500 and Over	10,281.4	7.8	4.3
Total	11,965.1	29.2	18.3

325180 Other Basic Inorganic Chemicals**Value of Shipments and Receipts****(million dollars)**

Under 20	973.3	3.5	2.3
20-49	Q	Q	Q
50-99	5,782.6	13.3	7.7
100-249	8,476.8	15.1	8.7
250-499	9,631.2	24.2	14.1
500 and Over	19,712.7	29.9	14.4
Total	9,688.5	20.6	11.7

325193 Ethyl Alcohol**Value of Shipments and Receipts****(million dollars)**

Under 20	5,129.3	42.4	18.9
20-49	16,754.0	Q	22.8
50-99	30,457.5	118.0	15.8
100-249	51,198.8	153.4	16.0
250-499	43,381.2	84.9	13.7
500 and Over	63,367.8	38.6	15.0
Total	43,297.8	89.0	15.7

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals**Value of Shipments and Receipts****(million dollars)**

Under 20	4,586.7	33.8	11.3
20-49	3,881.3	13.5	6.5
50-99	4,565.6	16.3	7.1
100-249	35,816.2	173.6	48.7
250-499	12,867.1	11.6	5.4
500 and Over	17,906.1	5.2	3.5
Total	12,419.7	12.6	7.3

325199 Other Basic Organic Chemicals**Value of Shipments and Receipts****(million dollars)**

Under 20	4,205.8	Q	8.8
20-49	4,515.9	13.0	7.3
50-99	9,088.5	27.6	13.0
100-249	7,114.0	19.6	6.2
250-499	9,580.9	13.7	6.2
500 and Over	16,036.4	21.5	9.0
Total	11,103.3	19.8	8.1

325211 Plastics Materials and Resins**Value of Shipments and Receipts****(million dollars)**

Under 20	451.6	3.3	1.6
20-49	1,889.7	8.7	3.2
50-99	7,999.3	27.0	12.1
100-249	3,362.9	8.2	3.8
250-499	16,140.2	18.7	6.8
500 and Over	21,517.0	24.5	8.7
Total	10,477.3	20.5	7.8

325212 Synthetic Rubber

Value of Shipments and Receipts			
(million dollars)			
Under 20	389.3	3.3	1.5
20-49	959.7	3.1	1.8
50-99	1,551.9	4.9	2.1
100-249	3,477.8	10.3	4.3
250-499	5,535.7	13.4	4.8
500 and Over	8,974.8	16.0	6.8
Total	3,960.0	11.0	4.6
325220 Artificial and Synthetic Fibers and Filaments			
Value of Shipments and Receipts			
(million dollars)			
Under 20	454.3	4.3	1.8
20-49	864.1	6.6	2.6
50-99	1,120.9	4.6	1.8
100-249	2,148.1	11.0	4.9
250-499	4,890.4	28.0	8.5
500 and Over	2,613.6	7.4	3.3
Total	2,482.6	12.8	5.0
325311 Nitrogenous Fertilizers			
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,281.1	5.6	2.8
20-49	717.3	Q	Q
50-99	34,775.6	57.6	30.3
100-249	35,452.1	50.5	32.2
250-499	53,808.2	64.6	41.5
500 and Over	87,404.8	74.8	53.8
Total	28,363.2	37.2	26.0
325312 Phosphatic Fertilizers			
Value of Shipments and Receipts			
(million dollars)			
Under 20	433.6	1.2	0.4
20-49	839.2	2.1	1.3
50-99	820.2	0.9	0.5
100-249	4,681.3	18.2	9.0
250-499	14,314.5	20.8	9.5
500 and Over	3,345.3	6.7	2.7
Total	6,256.6	12.7	5.7
3254 Pharmaceuticals and Medicines			
Value of Shipments and Receipts			
(million dollars)			
Under 20	620.8	3.3	2.1
20-49	365.3	1.7	1.2
50-99	271.8	1.2	0.7
100-249	592.5	2.4	1.4
250-499	390.4	1.0	0.7
500 and Over	387.3	0.2	0.2
Total	442.9	0.7	0.5
325412 Pharmaceutical Preparation			
Value of Shipments and Receipts			
(million dollars)			
Under 20	1,297.1	5.8	3.6
20-49	371.8	1.6	1.2
50-99	398.1	2.0	1.0
100-249	Q	2.6	1.4
250-499	452.3	1.2	0.7
500 and Over	279.4	0.1	0.1
Total	447.7	0.5	0.4

325992 Photographic Film, Paper, Plate, and Chemicals**Value of Shipments and Receipts
(million dollars)**

Under 20	324.3	3.5	1.7
20-49	255.8	2.0	0.9
50-99	990.8	3.6	2.0
100-249	382.5	5.4	0.2
250-499	814.7	2.5	1.5
500 and Over	1,320.0	2.5	1.3
Total	832.0	2.6	1.4

326 PLASTICS AND RUBBER PRODUCTS**Value of Shipments and Receipts
(million dollars)**

Under 20	219.2	2.5	1.2
20-49	371.8	3.2	1.5
50-99	273.4	1.6	0.8
100-249	596.4	2.7	1.4
250-499	540.2	1.4	0.8
500 and Over	769.9	4.2	Q
Total	361.4	2.5	1.2

327 NONMETALLIC MINERAL PRODUCTS**Value of Shipments and Receipts
(million dollars)**

Under 20	738.3	5.2	2.9
20-49	2,511.9	13.9	7.3
50-99	5,240.9	22.8	13.2
100-249	4,964.3	17.2	10.6
250-499	2,062.4	7.2	4.6
500 and Over	356.3	1.6	1.0
Total	2,257.4	12.0	6.9

327120 Clay Building Material and Refractories**Value of Shipments and Receipts
(million dollars)**

Under 20	1,687.3	15.6	9.7
20-49	1,612.6	10.4	5.6
50-99	2,259.0	8.3	5.1
100-249	2,822.7	10.8	5.8
250-499	3,666.4	10.4	6.2
500 and Over	0.0	0.0	0.0
Total	1,902.0	11.9	7.0

327211 Flat Glass**Value of Shipments and Receipts
(million dollars)**

Under 20	253.2	2.4	1.5
20-49	2,213.3	11.0	7.0
50-99	4,079.5	23.7	14.4
100-249	6,263.4	23.7	14.3
250-499	0.0	0.0	0.0
500 and Over	2,337.7	5.0	3.3
Total	4,116.7	18.8	11.6

327212 Other Pressed and Blown Glass and Glassware**Value of Shipments and Receipts
(million dollars)**

Under 20	933.0	6.2	3.2
20-49	2,497.2	16.7	7.6
50-99	2,076.4	14.2	9.1
100-249	3,511.8	13.8	10.0
250-499	2,494.5	8.7	5.5
500 and Over	0.0	0.0	0.0
Total	2,388.1	12.2	7.6

327213	Glass Containers			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	9,264.3	66.9	41.6
	20-49	2,025.6	18.9	8.6
	50-99	4,356.5	19.9	13.1
	100-249	4,236.3	17.4	11.5
	250-499	3,816.8	12.8	9.5
	500 and Over	0.0	0.0	0.0
	Total	4,120.0	18.2	11.9
327215	Glass Products from Purchased Glass			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	151.2	1.8	1.1
	20-49	393.6	2.9	1.7
	50-99	663.4	4.1	2.1
	100-249	436.2	2.7	1.3
	250-499	441.8	2.5	1.6
	500 and Over	131.0	0.6	0.4
	Total	335.0	2.4	1.4
327310	Cements			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	Q	29.7	21.3
	20-49	18,452.9	89.9	44.8
	50-99	17,476.8	60.8	40.2
	100-249	22,044.2	43.0	29.5
	250-499	11,920.1	28.2	20.9
	500 and Over	0.0	0.0	0.0
	Total	17,960.8	52.6	34.4
327410	Lime			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	27,968.5	106.3	43.2
	20-49	29,500.3	100.8	48.8
	50-99	28,188.7	87.0	45.4
	100-249	0.0	0.0	0.0
	250-499	0.0	0.0	0.0
	500 and Over	0.0	0.0	0.0
	Total	28,611.1	94.2	46.2
327420	Gypsum			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	1,479.0	9.6	4.6
	20-49	2,607.6	6.6	3.3
	50-99	7,554.1	20.1	11.2
	100-249	9,141.1	18.6	11.0
	250-499	1,793.7	3.9	2.3
	500 and Over	0.0	0.0	0.0
	Total	5,933.3	14.6	8.0
327993	Mineral Wool			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	393.4	2.2	1.4
	20-49	4,516.9	20.2	8.9
	50-99	2,388.8	15.0	8.0
	100-249	3,096.5	9.2	6.1
	250-499	5,837.6	9.9	6.7
	500 and Over	0.0	0.0	0.0

Total	2,542.6	9.1	5.7
331	PRIMARY METALS		
Value of Shipments and Receipts (million dollars)			
Under 20	638.2	5.2	2.6
20-49	863.9	6.4	2.9
50-99	1,418.8	8.4	3.3
100-249	2,579.1	11.7	4.6
250-499	3,260.8	9.8	3.9
500 and Over	11,530.9	26.7	9.3
Total	3,848.4	16.0	6.2
331110	Iron and Steel Mills and Ferroalloys		
Value of Shipments and Receipts (million dollars)			
Under 20	2,012.1	12.4	5.8
20-49	1,700.3	9.4	3.5
50-99	2,417.8	8.9	3.3
100-249	8,833.4	30.8	11.9
250-499	4,907.2	10.5	4.8
500 and Over	16,842.9	33.6	11.8
Total	12,548.6	28.7	10.6
3312	Steel Products from Purchased Steel		
Value of Shipments and Receipts (million dollars)			
Under 20	Q	4.1	2.0
20-49	Q	Q	3.3
50-99	559.3	2.8	1.1
100-249	1,176.2	5.2	1.9
250-499	1,904.1	4.5	1.8
500 and Over	3,177.2	15.0	3.1
Total	990.2	5.7	2.1
3313	Alumina and Aluminum		
Value of Shipments and Receipts (million dollars)			
Under 20	900.6	5.3	2.4
20-49	1,458.6	7.9	3.2
50-99	2,981.7	23.7	7.4
100-249	2,456.8	12.8	3.7
250-499	7,084.8	25.8	7.8
500 and Over	4,020.7	10.9	3.9
Total	2,441.2	11.4	4.1
331314	Secondary Smelting and Alloying of Aluminum		
Value of Shipments and Receipts (million dollars)			
Under 20	2,828.8	31.7	9.8
20-49	2,328.4	9.3	3.4
50-99	3,626.9	32.9	3.5
100-249	4,540.4	16.9	3.3
250-499	4,287.9	17.6	2.1
500 and Over	9,225.8	-54.3	1.9
Total	3,691.9	17.5	3.2
331315	Aluminum Sheet, Plate and Foils		
Value of Shipments and Receipts (million dollars)			
Under 20	8,465.4	59.8	29.3
20-49	88.5	0.5	0.2
50-99	454.8	1.9	0.6
100-249	3,814.7	19.9	6.3
250-499	999.5	2.9	1.2

	500 and Over	4,280.0	10.8	4.0
	Total	3,759.1	10.6	3.9
331318	Other Aluminum Rolling, Drawing and Extruding			
	Value of Shipments and Receipts (million dollars)			
	Under 20	276.8	2.3	1.0
	20-49	851.5	5.8	2.4
	50-99	557.3	4.6	1.6
	100-249	1,050.9	6.1	2.1
	250-499	1,902.4	8.5	5.2
	500 and Over	1,625.8	8.1	3.3
	Total	897.2	5.8	2.1
3314	Nonferrous Metals, except Aluminum			
	Value of Shipments and Receipts (million dollars)			
	Under 20	479.4	3.4	1.8
	20-49	742.2	4.9	1.8
	50-99	1,546.9	7.7	2.4
	100-249	2,028.7	8.1	2.9
	250-499	1,689.2	7.3	1.8
	500 and Over	2,263.7	6.3	2.1
	Total	1,550.6	6.8	2.3
331410	Nonferrous Metal (except Aluminum) Smelting and Refining			
	Value of Shipments and Receipts (million dollars)			
	Under 20	928.3	9.7	3.7
	20-49	45.6	1.2	0.4
	50-99	3,308.1	Q	6.2
	100-249	7,969.6	34.5	13.2
	250-499	0.0	0.0	0.0
	500 and Over	7,030.7	7.5	3.4
	Total	3,932.4	14.0	5.9
3315	Foundries			
	Value of Shipments and Receipts (million dollars)			
	Under 20	452.7	4.8	2.9
	20-49	601.4	5.4	3.0
	50-99	899.2	6.4	3.5
	100-249	980.2	5.2	2.9
	250-499	1,017.2	3.9	2.3
	500 and Over	1,024.5	4.8	2.7
	Total	747.8	5.1	2.9
331511	Iron Foundries			
	Value of Shipments and Receipts (million dollars)			
	Under 20	626.6	6.1	3.8
	20-49	672.6	7.1	3.8
	50-99	1,289.2	9.3	4.9
	100-249	1,371.0	6.5	3.6
	250-499	1,479.0	6.2	3.7
	500 and Over	3,083.1	14.2	5.7
	Total	1,144.6	7.6	4.1
331523	Nonferrous Metal Die-Casting Foundries			
	Value of Shipments and Receipts (million dollars)			
	Under 20	490.6	6.0	3.4
	20-49	619.7	4.4	2.6
	50-99	499.8	4.0	2.2
	100-249	788.7	5.1	3.1

250-499	839.2	3.6	2.4
500 and Over	547.1	1.2	0.8
Total	647.3	4.3	2.6

331524 Aluminum Foundries, except Die-Casting

**Value of Shipments and Receipts
(million dollars)**

Under 20	415.5	4.2	2.7
20-49	611.8	5.7	3.7
50-99	964.0	7.3	3.8
100-249	552.8	1.6	0.8
250-499	680.2	3.1	1.8
500 and Over	0.0	0.0	0.0
Total	584.0	4.7	2.8

332 FABRICATED METAL PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	123.2	1.3	0.8
20-49	126.3	0.9	0.6
50-99	335.9	2.0	1.0
100-249	263.6	1.6	0.8
250-499	Q	Q	Q
500 and Over	325.6	Q	0.8
Total	174.0	1.4	0.8

333 MACHINERY

**Value of Shipments and Receipts
(million dollars)**

Under 20	105.5	1.3	0.7
20-49	154.5	0.8	0.4
50-99	149.7	1.0	0.4
100-249	180.4	0.7	0.3
250-499	228.9	0.5	0.3
500 and Over	175.2	0.6	0.3
Total	140.9	0.9	0.4

334 COMPUTER AND ELECTRONIC PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	65.1	0.5	0.4
20-49	110.4	0.7	0.5
50-99	118.2	0.7	0.4
100-249	106.8	0.5	0.3
250-499	159.0	0.8	0.4
500 and Over	237.3	0.7	0.4
Total	133.9	0.7	0.4

334413 Semiconductors and Related Devices

**Value of Shipments and Receipts
(million dollars)**

Under 20	Q	Q	Q
20-49	379.1	1.6	1.1
50-99	689.2	4.6	2.8
100-249	Q	1.8	Q
250-499	704.6	2.2	1.7
500 and Over	648.3	1.7	1.0
Total	529.6	1.9	1.1

335 ELEC. EQUIP., APPLIANCES, COMPONENTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	188.2	1.9	1.0
20-49	Q	Q	Q
50-99	314.1	1.9	0.8

100-249	237.6	1.4	0.7
250-499	Q	0.7	Q
500 and Over	223.0	1.1	0.5
Total	222.0	1.4	0.5

336 TRANSPORTATION EQUIPMENT

**Value of Shipments and Receipts
(million dollars)**

Under 20	290.0	2.9	1.4
20-49	141.1	1.2	0.6
50-99	315.1	2.9	1.0
100-249	263.1	1.6	0.6
250-499	295.2	1.5	0.6
500 and Over	230.4	0.6	0.2
Total	245.0	1.0	0.4

336111 Automobiles

**Value of Shipments and Receipts
(million dollars)**

Under 20	579.4	15.5	3.8
20-49	117.5	0.9	0.3
50-99	66.5	0.4	0.1
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	360.6	1.5	0.3
Total	360.0	1.6	0.3

336112 Light Trucks and Utility Vehicles

**Value of Shipments and Receipts
(million dollars)**

Under 20	77.7	0.6	0.3
20-49	187.8	1.7	0.5
50-99	87.0	0.6	0.2
100-249	112.9	0.8	0.3
250-499	0.0	0.0	0.0
500 and Over	448.3	0.8	0.2
Total	442.1	0.8	0.2

3364 Aerospace Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	Q	1.8	1.2
20-49	130.8	0.9	0.5
50-99	113.2	0.8	0.4
100-249	247.3	1.9	0.8
250-499	211.9	0.9	0.4
500 and Over	143.7	0.3	0.2
Total	160.2	0.5	0.3

336411 Aircraft

**Value of Shipments and Receipts
(million dollars)**

Under 20	517.0	3.3	2.1
20-49	205.4	1.4	0.7
50-99	Q	Q	Q
100-249	115.4	0.8	0.4
250-499	121.2	0.3	0.2
500 and Over	99.6	0.2	0.1
Total	110.7	0.3	0.2

337 FURNITURE AND RELATED PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	39.3	0.9	0.5
20-49	114.4	1.4	0.5

50-99	101.1	0.8	0.5
100-249	91.4	0.7	0.4
250-499	238.0	Q	Q
500 and Over	73.8	Q	Q
Total	71.8	0.8	0.4
339	MISCELLANEOUS		
Value of Shipments and Receipts			
(million dollars)			
Under 20	50.4	Q	0.3
20-49	81.2	0.5	0.4
50-99	123.6	0.8	0.5
100-249	120.5	0.5	Q
250-499	Q	0.6	0.3
500 and Over	219.3	0.5	0.4
Total	99.8	Q	0.4

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

(b) *Value of Shipments and Receipts* 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 6.3 Relative Standard Errors for Table 6.3;

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			
	Value of Shipments and Receipts (million dollars)			
	Under 20	7.0	39.3	5.2
	20-49	7.8	7.5	6.8
	50-99	7.2	6.8	6.1
	100-249	5.2	5.8	4.8
	250-499	8.7	6.7	7.9
	500 and Over	4.1	2.7	2.2
	Total	2.2	5.4	1.6
311	FOOD			
	Value of Shipments and Receipts (million dollars)			
	Under 20	21.1	15.8	13.8
	20-49	22.9	18.6	16.2
	50-99	28.6	28.9	28.2
	100-249	8.5	9.0	8.1
	250-499	7.2	10.5	4.3
	500 and Over	3.6	8.2	4.2
	Total	5.7	5.6	4.7
3112	Grain and Oilseed Milling			
	Value of Shipments and Receipts (million dollars)			
	Under 20	22.8	11.1	14.2
	20-49	21.1	25.5	14.1
	50-99	11.4	9.2	10.7
	100-249	9.3	9.6	14.4
	250-499	7.6	4.0	5.8
	500 and Over	4.3	2.1	2.2
	Total	4.7	3.2	3.4
311221	Wet Corn Milling			
	Value of Shipments and Receipts (million dollars)			
	Under 20	0.0	0.0	0.0
	20-49	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 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
31131	Sugar			
	Value of Shipments and Receipts (million dollars)			
	Under 20	0.0	0.0	0.0
	20-49	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 and Over	0.0	0.0	0.0

Total	0.0	0.0	0.0
3114	Fruit and Vegetable Preserving and Specialty Foods		
Value of Shipments and Receipts			
(million dollars)			
Under 20	34.7	43.3	28.0
20-49	12.0	14.2	13.0
50-99	8.5	10.5	9.8
100-249	6.7	5.2	5.3
250-499	3.2	3.2	3.1
500 and Over	12.8	15.3	13.8
Total	4.2	3.8	3.1
3115	Dairy Products		
Value of Shipments and Receipts			
(million dollars)			
Under 20	30.0	36.7	35.7
20-49	22.1	23.8	15.5
50-99	8.2	7.1	7.5
100-249	5.2	5.7	3.8
250-499	4.3	6.5	5.4
500 and Over	6.3	4.2	4.7
Total	3.4	3.2	2.8
3116	Animal Slaughtering and Processing		
Value of Shipments and Receipts			
(million dollars)			
Under 20	23.1	18.4	19.8
20-49	17.1	20.5	20.3
50-99	55.0	53.3	54.2
100-249	5.1	10.3	10.0
250-499	4.2	5.2	7.2
500 and Over	6.3	7.9	7.3
Total	14.9	15.1	15.1
312	BEVERAGE AND TOBACCO PRODUCTS		
Value of Shipments and Receipts			
(million dollars)			
Under 20	46.6	46.4	46.2
20-49	40.9	31.4	32.4
50-99	17.0	32.2	16.9
100-249	25.0	24.4	24.3
250-499	13.4	14.1	10.5
500 and Over	2.5	2.8	2.8
Total	12.8	12.1	12.0
3121	Beverages		
Value of Shipments and Receipts			
(million dollars)			
Under 20	46.9	46.7	46.5
20-49	43.0	33.1	34.1
50-99	17.9	35.0	18.3
100-249	26.7	26.1	25.9
250-499	14.2	15.1	11.3
500 and Over	3.3	7.9	6.7
Total	13.6	13.4	13.0
3122	Tobacco		
Value of Shipments and Receipts			
(million dollars)			
Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
313	TEXTILE MILLS			
	Value of Shipments and Receipts (million dollars)			
	Under 20	38.7	19.9	16.3
	20-49	16.3	27.0	23.1
	50-99	16.1	14.0	8.1
	100-249	38.8	43.6	21.2
	250-499	1.4	1.0	1.2
	500 and Over	X	X	X
	Total	12.7	12.2	8.5
314	TEXTILE PRODUCT MILLS			
	Value of Shipments and Receipts (million dollars)			
	Under 20	30.5	30.4	28.5
	20-49	159.3	68.0	56.5
	50-99	163.0	185.9	105.5
	100-249	16.2	34.3	31.7
	250-499	27.2	20.5	9.7
	500 and Over	0.0	0.0	0.0
	Total	16.5	26.7	18.4
315	APPAREL			
	Value of Shipments and Receipts (million dollars)			
	Under 20	16.5	23.6	65.7
	20-49	18.8	66.9	58.1
	50-99	27.8	176.3	89.8
	100-249	X	X	X
	250-499	X	X	X
	500 and Over	X	X	X
	Total	10.3	24.8	29.8
316	LEATHER AND ALLIED PRODUCTS			
	Value of Shipments and Receipts (million dollars)			
	Under 20	14.2	13.8	16.6
	20-49	13.6	12.1	11.0
	50-99	21.9	19.6	15.4
	100-249	7.4	0.7	17.2
	250-499	X	X	X
	500 and Over	X	X	X
	Total	8.1	7.9	8.0
321	WOOD PRODUCTS			
	Value of Shipments and Receipts (million dollars)			
	Under 20	12.4	12.4	11.9
	20-49	16.0	15.9	15.3
	50-99	8.9	16.9	5.3
	100-249	8.9	9.3	9.6
	250-499	9.8	15.3	13.4
	500 and Over	0.0	0.0	0.0
	Total	5.3	5.5	4.6
321113	Sawmills			
	Value of Shipments and Receipts (million dollars)			
	Under 20	7.1	8.2	7.0
	20-49	9.9	9.8	7.3
	50-99	5.0	42.8	7.4
	100-249	8.9	39.7	36.5

250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	4.5	15.5	6.9

3212 Veneer, Plywood, and Engineered Woods

**Value of Shipments and Receipts
(million dollars)**

Under 20	18.4	13.9	14.0
20-49	9.2	11.7	8.7
50-99	1.6	1.4	1.9
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	7.9	3.6	3.3

321219 Reconstituted Wood Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	21.9	22.6	22.1
20-49	13.8	10.2	13.7
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 and Over	X	X	X
Total	3.5	1.4	1.8

3219 Other Wood Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	27.9	28.2	27.7
20-49	34.6	35.1	35.0
50-99	10.8	14.8	12.7
100-249	18.4	14.4	15.2
250-499	11.4	24.3	20.4
500 and Over	0.0	0.0	0.0
Total	16.8	17.0	16.9

322 PAPER

**Value of Shipments and Receipts
(million dollars)**

Under 20	26.6	28.8	23.4
20-49	17.9	21.4	18.0
50-99	16.2	17.7	13.8
100-249	15.9	27.0	23.4
250-499	11.1	10.3	25.8
500 and Over	5.1	5.6	4.4
Total	5.1	5.7	6.6

322110 Pulp Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	X	X	X
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

322121 Paper Mills, except Newsprint

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

322122 Newsprint Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	X	X	X
50-99	X	X	X
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	0.0	0.0	0.0

322130 Paperboard Mills

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

323 PRINTING AND RELATED SUPPORT

**Value of Shipments and Receipts
(million dollars)**

Under 20	10.7	10.6	8.8
20-49	20.4	28.7	22.9
50-99	25.6	22.9	18.6
100-249	20.1	19.1	17.5
250-499	11.5	396.9	449.1
500 and Over	77.4	77.4	77.4
Total	7.9	11.7	10.8

324 PETROLEUM AND COAL PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	32.4	8.9	7.4
20-49	6.8	6.0	5.5
50-99	17.2	15.9	16.1
100-249	3.0	5.3	3.2
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	4.4	0.3	0.2

324110 Petroleum Refineries

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

324121 Asphalt Paving Mixture and Block

**Value of Shipments and Receipts
(million dollars)**

Under 20	8.6	7.9	7.7
20-49	4.9	6.1	4.8

50-99	1.6	1.3	1.5
100-249	0.0	0.0	0.0
250-499	X	X	X
500 and Over	X	X	X
Total	5.9	5.6	5.4

324122 Asphalt Shingle and Coating Materials

**Value of Shipments and Receipts
(million dollars)**

Under 20	23.9	20.1	29.1
20-49	2.8	7.7	4.8
50-99	1.1	1.0	1.5
100-249	3.9	7.1	5.0
250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	3.1	3.6	2.7

324191 Petroleum Lubricating Oil and Grease

**Value of Shipments and Receipts
(million dollars)**

Under 20	166.2	54.5	33.4
20-49	23.8	19.7	23.6
50-99	46.4	43.5	42.8
100-249	3.8	3.6	4.3
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	38.1	17.1	16.9

324199 Other Petroleum and Coal Products

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	X	X	X
Total	0.0	0.0	0.0

325 CHEMICALS

**Value of Shipments and Receipts
(million dollars)**

Under 20	22.3	13.6	13.0
20-49	24.4	24.4	23.6
50-99	12.7	10.1	8.9
100-249	13.1	15.4	10.7
250-499	13.9	11.6	9.8
500 and Over	4.3	3.2	2.8
Total	4.4	3.3	2.8

325110 Petrochemicals

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325120 Industrial Gases

**Value of Shipments and Receipts
(million dollars)**

Under 20	22.3	16.0	15.6
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20-49	23.0	26.6	22.3
50-99	33.9	32.9	23.4
100-249	0.6	4.3	2.8
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	11.2	9.3	7.4

325180 Other Basic Inorganic Chemicals

Value of Shipments and Receipts

(million dollars)

Under 20	32.6	28.3	27.3
20-49	56.1	70.3	58.7
50-99	10.5	10.0	7.3
100-249	3.7	6.8	6.7
250-499	42.2	15.3	16.9
500 and Over	0.0	0.0	0.0
Total	14.2	10.6	10.0

325193 Ethyl Alcohol

Value of Shipments and Receipts

(million dollars)

Under 20	8.7	9.4	3.6
20-49	40.0	61.0	12.7
50-99	1.9	10.9	1.8
100-249	0.7	2.6	0.2
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	2.5	1.8	0.6

325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals

Value of Shipments and Receipts

(million dollars)

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325199 Other Basic Organic Chemicals

Value of Shipments and Receipts

(million dollars)

Under 20	36.1	56.5	32.6
20-49	26.8	41.1	39.6
50-99	17.1	22.9	15.5
100-249	16.1	21.9	7.1
250-499	19.3	15.2	11.5
500 and Over	0.3	4.3	4.6
Total	3.7	4.8	3.1

325211 Plastics Materials and Resins

Value of Shipments and Receipts

(million dollars)

Under 20	20.7	13.0	18.5
20-49	23.6	28.2	21.4
50-99	38.4	25.5	18.3
100-249	30.5	13.5	15.1
250-499	1.9	7.5	7.7
500 and Over	1.2	2.3	3.2
Total	5.8	2.7	2.4

325212 Synthetic Rubber

Value of Shipments and Receipts

(million dollars)

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325220 Artificial and Synthetic Fibers and Filaments

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

325311 Nitrogenous Fertilizers

**Value of Shipments and Receipts
(million dollars)**

Under 20	38.4	25.7	32.0
20-49	39.1	98.8	101.7
50-99	35.7	12.7	19.9
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	28.8	36.9	30.0

325312 Phosphatic Fertilizers

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

3254 Pharmaceuticals and Medicines

**Value of Shipments and Receipts
(million dollars)**

Under 20	28.3	30.3	28.5
20-49	18.0	17.4	15.7
50-99	24.6	23.3	16.1
100-249	31.7	19.1	27.3
250-499	15.4	10.0	4.6
500 and Over	1.3	2.2	1.8
Total	8.8	6.0	6.3

325412 Pharmaceutical Preparation

**Value of Shipments and Receipts
(million dollars)**

Under 20	40.0	37.3	35.8
20-49	22.0	23.2	19.8
50-99	10.5	9.2	15.0
100-249	58.2	31.7	45.6
250-499	0.0	0.0	0.0
500 and Over	1.8	2.4	2.0
Total	14.5	10.0	10.1

325992 Photographic Film, Paper, Plate, and Chemicals

Value of Shipments and Receipts

(million dollars)			
Under 20	14.4	7.4	7.4
20-49	44.0	29.0	32.1
50-99	21.6	19.8	15.7
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	5.2	1.9	1.9

326 PLASTICS AND RUBBER PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	15.2	13.8	12.8
20-49	16.7	18.6	16.4
50-99	24.6	12.6	17.0
100-249	16.8	19.2	15.1
250-499	37.6	34.7	29.7
500 and Over	26.8	11.2	91.7
Total	8.2	8.1	8.2

327 NONMETALLIC MINERAL PRODUCTS

**Value of Shipments and Receipts
(million dollars)**

Under 20	18.8	18.9	18.5
20-49	18.4	16.5	16.8
50-99	10.8	12.3	12.6
100-249	4.0	7.2	5.6
250-499	32.0	34.6	44.7
500 and Over	0.0	0.0	0.0
Total	5.9	5.5	5.4

327120 Clay Building Material and Refractories

**Value of Shipments and Receipts
(million dollars)**

Under 20	4.8	5.4	6.3
20-49	9.0	11.3	18.4
50-99	6.8	35.6	30.6
100-249	1.7	16.5	10.9
250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	3.2	7.0	6.6

327211 Flat Glass

**Value of Shipments and Receipts
(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

327212 Other Pressed and Blown Glass and Glassware

**Value of Shipments and Receipts
(million dollars)**

Under 20	22.6	46.5	49.7
20-49	11.5	10.4	11.1
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 and Over	X	X	X
Total	5.3	6.7	8.5

327213 Glass Containers

Value of Shipments and Receipts**(million dollars)**

Under 20	0.0	0.0	0.0
20-49	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 and Over	X	X	X
Total	0.0	0.0	0.0

327215 Glass Products from Purchased Glass**Value of Shipments and Receipts****(million dollars)**

Under 20	26.1	10.2	10.6
20-49	4.7	4.6	4.1
50-99	3.8	3.3	3.2
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	7.2	2.0	1.9

327310 Cements**Value of Shipments and Receipts****(million dollars)**

Under 20	62.2	37.3	28.0
20-49	22.6	30.4	31.6
50-99	0.1	0.2	0.4
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	X	X	X
Total	4.3	3.2	4.2

327410 Lime**Value of Shipments and Receipts****(million dollars)**

Under 20	0.0	0.0	0.0
20-49	0.0	0.0	0.0
50-99	0.0	0.0	0.0
100-249	X	X	X
250-499	X	X	X
500 and Over	X	X	X
Total	0.0	0.0	0.0

327420 Gypsum**Value of Shipments and Receipts****(million dollars)**

Under 20	30.6	28.1	43.2
20-49	13.6	38.3	27.9
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 and Over	X	X	X
Total	4.2	9.6	9.0

327993 Mineral Wool**Value of Shipments and Receipts****(million dollars)**

Under 20	21.5	33.5	24.6
20-49	3.4	18.3	7.9
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 and Over	X	X	X
Total	4.6	4.7	3.4

331 PRIMARY METALS

Value of Shipments and Receipts			
(million dollars)			
Under 20	5.4	3.1	2.3
20-49	11.6	12.1	11.5
50-99	3.3	4.3	3.4
100-249	4.1	2.7	2.4
250-499	1.7	2.9	3.3
500 and Over	0.0	0.0	0.0
Total	1.6	0.9	0.8
331110	Iron and Steel Mills and Ferroalloys		
Value of Shipments and Receipts			
(million dollars)			
Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0
3312	Steel Products from Purchased Steel		
Value of Shipments and Receipts			
(million dollars)			
Under 20	55.2	16.7	16.1
20-49	54.1	52.0	47.2
50-99	13.4	12.4	9.1
100-249	5.3	9.8	10.3
250-499	12.4	27.7	25.8
500 and Over	0.0	0.0	0.0
Total	14.2	11.6	10.9
3313	Alumina and Aluminum		
Value of Shipments and Receipts			
(million dollars)			
Under 20	1.1	1.2	0.9
20-49	6.1	4.4	9.8
50-99	0.0	0.0	0.0
100-249	0.8	0.5	0.5
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	0.5	0.4	0.5
331314	Secondary Smelting and Alloying of Aluminum		
Value of Shipments and Receipts			
(million dollars)			
Under 20	3.5	24.1	6.4
20-49	10.3	10.2	29.7
50-99	0.0	0.0	0.0
100-249	1.7	1.0	1.3
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	2.8	4.9	3.3
331315	Aluminum Sheet, Plate and Foils		
Value of Shipments and Receipts			
(million dollars)			
Under 20	0.0	0.0	0.0
20-49	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 and Over	0.0	0.0	0.0
Total	0.0	0.0	0.0

331318 Other Aluminum Rolling, Drawing and Extruding**Value of Shipments and Receipts
(million dollars)**

Under 20	17.8	18.3	20.0
20-49	7.6	6.0	5.0
50-99	0.0	0.0	0.0
100-249	0.9	0.8	0.5
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	1.4	1.0	0.8

3314 Nonferrous Metals, except Aluminum**Value of Shipments and Receipts
(million dollars)**

Under 20	18.3	33.0	20.1
20-49	13.5	26.2	22.0
50-99	12.4	17.4	9.3
100-249	22.5	10.6	7.6
250-499	5.6	7.7	8.8
500 and Over	0.0	0.0	0.0
Total	6.1	4.5	3.2

331410 Nonferrous Metal (except Aluminum) Smelting and Refining**Value of Shipments and Receipts
(million dollars)**

Under 20	20.6	16.7	12.7
20-49	0.0	0.0	0.0
50-99	48.8	50.3	20.8
100-249	3.3	3.5	4.7
250-499	X	X	X
500 and Over	0.0	0.0	0.0
Total	6.3	5.3	2.7

3315 Foundries**Value of Shipments and Receipts
(million dollars)**

Under 20	5.6	5.0	4.5
20-49	3.4	4.9	3.5
50-99	1.9	2.7	2.5
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	1.5	1.2	1.0

331511 Iron Foundries**Value of Shipments and Receipts
(million dollars)**

Under 20	14.3	13.7	12.4
20-49	9.8	11.3	6.5
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 and Over	0.0	0.0	0.0
Total	3.1	2.2	1.6

331523 Nonferrous Metal Die-Casting Foundries**Value of Shipments and Receipts
(million dollars)**

Under 20	5.5	5.3	5.1
20-49	3.9	15.4	9.9
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 and Over	0.0	0.0	0.0
Total	1.5	2.3	1.7

331524	Aluminum Foundries, except Die-Casting			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	5.1	5.9	5.9
	20-49	0.6	0.9	0.8
	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 and Over	X	X	X
	Total	2.1	1.9	1.8
332	FABRICATED METAL PRODUCTS			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	15.5	12.1	11.7
	20-49	26.1	27.1	25.4
	50-99	36.5	30.8	28.9
	100-249	35.5	38.6	34.0
	250-499	96.2	96.2	96.2
	500 and Over	30.5	53.6	31.8
	Total	11.7	10.5	10.2
333	MACHINERY			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	37.9	29.1	29.1
	20-49	19.5	18.5	17.7
	50-99	26.8	27.9	23.1
	100-249	24.9	24.1	25.1
	250-499	32.0	42.6	46.2
	500 and Over	22.4	21.8	13.2
	Total	14.3	11.9	11.4
334	COMPUTER AND ELECTRONIC PRODUCTS			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	28.5	26.9	26.6
	20-49	27.3	26.4	27.2
	50-99	23.7	29.8	24.1
	100-249	27.0	31.4	27.3
	250-499	33.7	30.1	30.7
	500 and Over	13.1	17.5	13.8
	Total	7.9	9.3	8.2
334413	Semiconductors and Related Devices			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	68.7	70.9	74.6
	20-49	36.8	47.0	48.9
	50-99	2.3	12.7	18.2
	100-249	54.5	49.8	54.4
	250-499	0.5	0.1	2.2
	500 and Over	0.3	2.0	0.9
	Total	9.8	5.3	5.8
335	ELEC. EQUIP., APPLIANCES, COMPONENTS			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	37.9	36.6	37.3
	20-49	63.9	58.8	123.3
	50-99	28.3	34.0	41.2
	100-249	26.8	20.0	15.8
	250-499	160.0	42.6	107.4
	500 and Over	8.4	20.8	13.1

	Total	18.6	14.1	25.7
336	TRANSPORTATION EQUIPMENT			
	Value of Shipments and Receipts (million dollars)			
	Under 20	46.7	45.0	45.0
	20-49	24.3	24.0	24.8
	50-99	35.0	39.0	36.5
	100-249	25.0	28.5	31.4
	250-499	26.2	20.0	34.2
	500 and Over	5.9	4.9	4.4
	Total	8.3	8.6	8.7
336111	Automobiles			
	Value of Shipments and Receipts (million dollars)			
	Under 20	0.0	0.0	0.0
	20-49	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	X	X	X
	250-499	X	X	X
	500 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
336112	Light Trucks and Utility Vehicles			
	Value of Shipments and Receipts (million dollars)			
	Under 20	0.0	0.0	0.0
	20-49	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 and Over	0.0	0.0	0.0
	Total	0.0	0.0	0.0
3364	Aerospace Products			
	Value of Shipments and Receipts (million dollars)			
	Under 20	87.6	25.8	23.7
	20-49	9.1	10.1	11.7
	50-99	26.3	17.7	19.8
	100-249	5.9	10.6	11.5
	250-499	10.1	21.3	9.8
	500 and Over	1.0	0.5	0.5
	Total	5.6	3.2	3.0
336411	Aircraft			
	Value of Shipments and Receipts (million dollars)			
	Under 20	36.2	38.1	37.9
	20-49	25.1	19.6	19.0
	50-99	85.6	79.6	79.3
	100-249	0.8	0.9	1.7
	250-499	0.0	0.0	0.0
	500 and Over	0.0	0.0	0.0
	Total	7.3	5.5	5.5
337	FURNITURE AND RELATED PRODUCTS			
	Value of Shipments and Receipts (million dollars)			
	Under 20	44.6	13.1	12.2
	20-49	19.4	30.6	24.1
	50-99	15.5	29.8	18.8
	100-249	19.9	22.3	20.6
	250-499	42.7	53.1	51.7

	500 and Over	16.0	186.1	220.1
	Total	23.6	21.4	22.2
339	MISCELLANEOUS			
	Value of Shipments and Receipts			
	(million dollars)			
	Under 20	17.3	522.3	15.8
	20-49	36.7	43.6	36.2
	50-99	37.7	38.1	36.1
	100-249	25.5	49.3	55.1
	250-499	52.6	48.2	30.3
	500 and Over	30.6	25.2	24.2
	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) *Value of Shipments and Receipts* 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).