

Industrial Production Source and Description Tables

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Descriptions of Series**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Total index	. . .	. . .	3,790,362	100.00	. . .	Series begins in 1919.
Manufacturing (SIC)	. . .	. . .	2,875,591	75.87	. . .	Series begins in 1919.
Manufacturing (NAICS)	31–33	. . .	2,805,744	74.02	. . .	Series begins in 1972.
Durable manufacturing	321, 327, 331–339	. . .	1,417,444	37.40	. . .	Series begins in 1972.
Nondurable manufacturing	311–316, 322–326	. . .	1,388,300	36.63	. . .	Series begins in 1972.
Other manufacturing	1133, 5111	. . .	69,846	1.84	. . .	Series begins in 1972.
Mining	21	. . .	520,016	13.72	. . .	Series begins in 1972.
Utilities	2211, 2	. . .	394,755	10.41	. . .	Series begins in 1972.

. . . Not applicable.

DESCRIPTION OF COLUMNS

Groups and Series: Series marked with either an asterisk (*) or a dagger (†) are included in the published totals but are not published separately. Series marked with an asterisk are available upon request. Any aggregate IP indexes not listed in these tables are also available upon request. The following abbreviations are used: n.e.c. = not elsewhere classified; misc. = miscellaneous; pt. = part.

Classification:

NAICS codes are from the *North American Industry Classification System*, 2017 edition, published by the U.S. Office of Management and Budget. Individual and aggregate series have been compiled on a consistent NAICS basis back to 1972. Major aggregates and groupings were linked to their corresponding pre-1972 SIC-based counterparts.

Market codes are as follows:

Consumer goods (C)

Durable consumer goods (Cd)

Cda—Automotive products

Cdo—Other durable goods

Nondurable consumer goods (Cn)

Cnn—Non-energy

Cne—Energy

Equipment (E)

Business equipment (Eb)

Ebt—Transit equipment

Ebi—Information processing and related equipment

Ebn—Industrial and other equipment

Oil and gas well drilling and manufactured homes (Es)

Defense and space equipment (Ed)

Nonindustrial supplies (S)

Sc—Construction

Sb—Business

Materials (M)

Non-energy (Mn)

Mnd—Durable goods materials

Mnn—Nondurable goods materials

Energy materials (Me)

Mep—Primary energy

Mec—Converted fuel materials

Value added: Values and proportions are compiled from information contained in the Census of Manufactures, Annual Survey of Manufactures, and Census of Mineral Industries and in reports from the Department of Energy, the Edison Electric Institute, and the American Gas Association. The figures may not add to totals because of rounding.

Type of series: The following codes appear:

Prod: Monthly product data, unless otherwise noted.

Qprod: Quarterly product data, usually interpolated to the monthly frequency using a cubic spline.

Hrs: Production worker hours, data collected by the Bureau of Labor Statistics.

Est: Series are estimated by the Federal Reserve until source data can be introduced at an annual revision.

Units, source for monthly series, and notes: The source and units for the underlying data for detailed indexes other than for those based on production worker hours. Starting dates are shown for indexes that begin in years other than 1972.

COVERAGE INFORMATION

The individual series that comprise the **total index** include those industries in mining, utilities, and manufacturing.

Manufacturing comprises those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing *plus* the logging and newspaper, periodical, book, and directory publishing industries that have traditionally been considered manufacturing. **Durable manufacturing** includes three-digit NAICS groups 321, 327, 331–337, and 339. **Nondurable manufacturing** includes three-digit NAICS groups 311–316 and 322–326. **Other manufacturing** includes NAICS 1133 and 5111.

Mining includes three-digit NAICS groups 211–213.

Utilities include electric utilities and natural gas distribution, NAICS 2211 and 2212.

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	NAICS	Market	Millions of dollars	Proportion		
Manufacturing (SIC)	2,875,591	75.87
Manufacturing (NAICS)	31–33	. . .	2,805,744	74.02	. . .	. . .
Durable manufacturing	321, 327, 331–339	. . .	1,417,444	37.40	. . .	. . .
Wood product	321	. . .	78,536	2.07	. . .	. . .
Sawmills and wood preservation	3211	Sc, Mnd	26,152	.69	Prod	Board feet; American Forest & Paper Association.
Plywood and misc. wood products	3212,9	. . .	52,384	1.38	. . .	. . .
Veneer, plywood, and engineered wood product	3212	. . .	19,168	.51	. . .	. . .
Veneer and plywood	321211,2	Cdo, Sc, Sb, Mnd	5,065	.13	Qprod	Square feet, structural panels; APA-The Engineered Wood Association. Monthly data for 1972–2014.
Engineered wood member*	321213,4	Cdo, Sc, Sb, Mnd	7,070	.19	Hrs	. . .
Reconstituted wood product	321219	Cdo, Sc, Mnd	7,033	.19	Prod	Square feet, shipments, particleboard and medium density fiberboard, with model-based inventory adjustment; Composite Panel Association, Federal Reserve Board (FRB). Production worker hours for 1972–76.
Other wood product	3219	. . .	33,216	.88	. . .	. . .
Millwork	32191	. . .	16,998	.45	. . .	. . .
Flooring†	32191pt.	Cdo, Sc, Sb, Mnd	1,982	.05	Prod	Board feet: The Maple Flooring Manufacturers Association for 1972–present. The Wood Flooring Manufacturers Association for 1972–2012.
Other millwork*	32191pt.	Cdo, Sc, Sb, Mnd	15,016	.40	Hrs	. . .
Wood container and pallet	32192	Cdo, Sb, Mnn	6,270	.17	Hrs	. . .
All other wood product	32199	. . .	9,947	.26	. . .	. . .
Manufactured home (mobile home)	321991	Es	2,732	.07	Prod	Units; Manufactured Housing Institute.
Other miscellaneous wood product*	321992,9	Cdo, Sc, Sb, Mnd	7,215	.19	Hrs	. . .
Nonmetallic mineral product	327	. . .	80,096	2.11	. . .	. . .
Clay, lime, gypsum, and misc. nonmetallic mineral products	3271,4,9	. . .	28,192	.74

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. . . Not applicable.

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	NAICS	Market	Millions of dollars	Proportion		
Clay and misc. nonmetallic mineral products	3271,9	. . .	23,373	.62
Clay product and refractory	3271	. . .	5,585	.15	. . .	. . .
Pottery, ceramics, and plumbing fixture	32711	Cdo, Sc	1,880	.05	Hrs	. . .
Clay building material and refractories	32712	. . .	3,705	.10	. . .	. . .
Brick and structural clay tile*	32712pt.	Cdo, Sc	1,093	.03	Prod	Units, bricks; Brick Industry Association. Building or common and face brick for 1972Q1–2006Q4 (quarterly data for 1991–2006); Census Bureau.
Clay building material and refractories, except brick*	32712pt.	Sc, Mnd	2,613	.07	Hrs	Square feet, clay floor and wall tile, including quarry tile, glazed wall tile for 1972Q1–2011Q2; Tons, vitrified clay sewer pipe for 1972Q1–2011Q2; Census Bureau. Monthly data for 1972–90.
Other nonmetallic mineral product	3279	Cdo, Sc, Mnd	17,787	.47	Hrs	Electric power use for 1972–96.
Lime and gypsum product	3274	. . .	4,819	.13	. . .	. . .
Lime*	32741	Sc, Sb, Mnd	1,352	.04	Hrs	Electric power use for 1972–96.
Gypsum product*	32742	Cdo, Sc, Sb, Mnd	3,467	.09	Qprod	Tons, calcined gypsum; U.S. Geological Survey, Gypsum Association. Production worker hours for 1972–76.
Glass and glass product	3272	. . .	14,730	.39	. . .	. . .
Flat glass*	327211	Mnd	2,212	.06	Hrs	. . .
Other pressed and blown glass and glassware*	327212	Cdo, Sc, Sb, Mnd	2,036	.05	Hrs	Electric power use for 1972–96.
Glass container	327213	Mnn	2,955	.08	Qprod	Gross, glass containers; Glass Packaging Institute for 2009–present, Census Bureau for 1972–2008. Monthly data for 1972 to June 2011.
Glass product made of purchased glass*	327215	Cdo, Sc, Sb, Mnd	7,526	.20	Hrs	Electric power use for 1972–96.
Cement and concrete product	3273	. . .	37,175	.98	. . .	. . .
Cement	32731	Sc, Mnd	5,682	.15	Prod	Tons, shipments, portland cement, with model-based inventory adjustment; U.S. Geological Survey, FRB.
Concrete and product	32732–9	Cdo, Sc, Sb	31,492	.83	Hrs	. . .
Primary metal	331	. . .	126,132	3.33

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Iron and steel products	3311,2	. . .	72,038	1.90	. . .	. . .
Basic iron and steel*	. . .	. . .	9,556	.25	. . .	. . .
Coke and products	3311,2pt.	Mec	1,175	.03	Qprod	Tons, coke; Department of Energy. Monthly data for 1972–80.
Pig iron	3311,2pt.	Mnd	3,837	.10	Prod	Tons; U.S. Geological Survey. American Iron and Steel Institute for 1972–2016.
Raw steel	3311,2pt.	Mnd	4,545	.12	Prod	Tons, weighted combination of carbon, alloy, and stainless; AISI.
Steel mill products*	. . .	. . .	62,482	1.65	. . .	Tons. Shipments (AISI) plus inventory change (model-based by FRB beginning in 2005, survey-based from Census through 2004).
Construction steel	3311,2pt.	Sc	15,049	.40	Prod	Tons, steel for construction, including maintenance and contractors' products; AISI.
Consumer durable steel	3311,2pt.	Mnd	11,187	.30	Prod	Tons, steel for autos, appliances, utensils, and cutlery; AISI.
Can and closure steel	3311,2pt.	Mnd	950	.03	Prod	Tons; AISI.
Equipment steel	3311,2pt.	Mnd	4,059	.11	Prod	Tons; AISI.
Miscellaneous steel	3311,2pt.	Mnd	31,238	.82	Prod	Tons of steel, all other classifications, including warehouses and exports; AISI.
Nonferrous metals except foundries	3313,4	. . .	38,894	1.03	. . .	. . .
Alumina and aluminum production and processing	3313	. . .	15,694	.41	. . .	. . .
Alumina refining and primary aluminum production*	331313	. . .	998	.03		. . .
Alumina refining†	331313pt.	Mnd	313	.01	Qprod	Thousand metric tons, North American alumina production since 1974; International Aluminium Institute. Production worker hours for 1972–73.
Primary aluminum production	331313pt.	Mnd	685	.02	Prod	Tons, primary aluminum ingots; Aluminum Association.
Secondary smelting and alloying of aluminum	331314	Mnd	1,919	.05	Prod	Tons, aluminum alloys and brass ingot at secondary smelters and secondary lead; U.S. Geological Survey.
Aluminum sheet, plate, foil, and other products*	331315,8	. . .	12,777	.34

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Misc. aluminum materials	331315,8pt.	Mnd	7,985	.21	Prod	Pounds, aluminum mill products other than extruded shapes, powder and paste, and forgings and impacts for 1972Q1–2011Q2; Census Bureau. Net shipments for 1972–86.
Aluminum extruded product	331318pt.	Mnd	4,792	.13	Prod	Pounds, extruded shapes for 1972Q1–2011Q2; Census Bureau. Net shipments for 1972–86.
Nonferrous metal (except aluminum) production and processing	3314	. . .	23,200	.61	. . .	. . .
Nonferrous metal (except aluminum) smelting and refining	33141	. . .	6,246	.16	. . .	. . .
Primary smelting and refining of copper	33141pt.	. . .	2,096	.06	. . .	. . .
Copper refining†	33141pt.	Mnd	1,188	.03	Hrs	Tons, refined copper; American Bureau of Metal Statistics (ABMS) for 1972–2015.
Copper smelting†	33141pt.	Mnd	908	.02	Prod	Tons, copper smelting production; U.S. Geological Survey. For 1972–1991, tons, scrap and primary copper; ABMS.
Primary smelting and refining of nonferrous metal (except copper and aluminum)	33141pt.	Mnd	4,150	.11	Prod	Tons, lead mining and primary slab zinc refining; U.S. Geological Survey and American Bureau of Metal Statistics. Before August 1998, lead refining (ABMS) used instead of lead mining.
Copper rolling, drawing, extruding, and alloying*	33142	Mnd	10,939	.29	Hrs	Tons, refined copper consumption by U.S. fabricators; ABMS for 1972–2015.
Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying*	33149	Mnd	6,015	.16	Hrs	. . .
Foundries	3315	. . .	15,200	.40	. . .	. . .
Ferrous metal foundries*	33151	Mnd	9,101	.24	Hrs	Electric power use for 1972–96.

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Nonferrous metal foundries*	33152	Mnd	6,100	.16	Hrs	Pounds, shipments of die castings, sand castings, permanent molds, and other aluminum castings, with model-based inventory adjustment; Aluminum Association, FRB for 1994 to 2007 for aluminum castings component; production worker hours for 1992–1993. Grouped with other nonferrous castings 1972–1991; production worker hours.
Fabricated metal product	332	. . .	217,542	5.74	. . .	. . .
Forging and stamping	3321	Mnd	15,301	.40	Hrs	. . .
Cutlery and handtool	3322	Cdo, Ebn, Sc, Sb, Mnd	6,560	.17	Hrs	. . .
Architectural and structural metals	3323	Sc, Mnd	58,817	1.55	Hrs	. . .
Boiler, tank, and shipping container*	3324	. . .	17,383	.46	. . .	. . .
Boilers, heat exchangers, and metal tanks*	33241,2	Ebn, Sc, Mnd	9,254	.24	Hrs	. . .
Metal can, box, and other metal container (light gauge)†	33243	Mnn	8,130	.21	Prod	Monthly shipments, in pounds, of can stock from the Aluminum Association combined with quarterly shipments, in tons, of metal cans from the Can Manufacturers Institute, with model-based inventory adjustment by FRB. Tons, shipments, metal cans; Can Manufacturers Institute. Quarterly data 1997–2016. Monthly data for 1977–96. Production worker hours for 1972–76.
Hardware	3325	Cdo, Sc, Sb, Mnd	5,476	.14	Hrs	Electric power use for 1972–96.
Spring and wire product	3326	Cdo, Sc, Sb, Mnd	5,323	.14	Hrs	. . .
Machine shops; turned product; and screw, nut, and bolt	3327	Sb, Mnd	43,444	1.15	Hrs	Electric power use for 1972–96.
Coating, engraving, heat treating, and allied activities	3328	Sb, Mnd	17,636	.47	Hrs	. . .

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other fabricated metal product	3329	. . .	47,601	1.26	. . .	. . .
Metal valve*	33291	Ebn, Sc, Sb, Mnd	18,832	.50	Hrs	. . .
All other fabricated metal product*	33299	. . .	28,770	.76	. . .	. . .
Ball and roller bearing	332991	Sb, Mnd	3,360	.09	Qprod	Units, weighted combination of ball, mounted, tapered, and other roller bearings; American Bearing Manufacturers Association. Production worker hours for 1972–91.
Ammunition, small arms, ordnance, and ordnance accessories*	332992–4	Cdo, Ed	12,357	.33	Hrs	. . .
Miscellaneous fabricated metal products*	332996–9	Cdo, Ebn, Sc, Sb, Mnd	13,052	.34	Hrs	. . .
Machinery	333	. . .	197,236	5.20	. . .	. . .
Agriculture, construction, and mining machinery	3331	. . .	41,983	1.11	. . .	. . .
Agricultural implement	33311	. . .	20,656	.54	. . .	. . .
Farm machinery and equipment	333111	Ebn, Sb	17,679	.47	Hrs	Units, tractor and farm machinery production; Stark's News Service for 1992–2017. Production worker hours for 1972–91.
Lawn and garden tractor and home lawn and garden equipment*	333112	Cdo, Ebn, Sb	2,976	.08	Hrs	. . .
Construction machinery	33312	Ebn, Mnd	15,395	.41	Hrs	Units, weighted combination of assemblies of crawlers, wheel loaders, skid steer loaders, wheel tractors, and other construction equipment; Stark's News Service for 1987–2017. Production worker hours for 1972–86.
Mining and oil and gas field machinery	33313	Ebn, Mnd	5,933	.16	Hrs	. . .
Industrial machinery	3332	. . .	20,351	.54	. . .	. . .
Semiconductor machinery†	333242	Ebn, Mnd	5,325	.14	Prod	Deflated billings, front-end semiconductor equipment, with model-based inventory adjustment; Semiconductor Equipment and Materials International, FRB. Production worker hours for 1972–91.
Industrial machinery ex. semiconductor fabrication*	333241,3–9	Ebn, Mnd	15,026	.40	Hrs	. . .

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Commercial and service industry machinery and other general purpose machinery	3333,9	. . .	70,375	1.86	. . .	. . .
Commercial and service industry machinery*	3333	Cdo, Ebn, Sc, Sb, Mnd	15,172	.40	Hrs	. . .
Other general purpose machinery*	3339	Ebn, Sc, Mnd	55,203	1.46	Hrs	. . .
HVAC, metalworking, and power transmission machinery	3334-6	. . .	64,527	1.70	. . .	. . .
Ventilation, heating, air-conditioning, and commercial refrigeration equipment	3334	. . .	26,161	.69	. . .	. . .
Air purification equip., fans, and blowers*	333413	Ebn, Sc, Sb, Mnd	3,689	.10	Hrs	. . .
Heating equipment (except warm air furnaces)*	333414	. . .	3,058	.08	. . .	. . .
Boilers, heaters, and furnaces*	333414pt.	Cdo, Sc	1,999	.05	Hrs	Units, shipments, boilers, with model-based inventory adjustment for 2002Q1-2008Q2; Air-conditioning, Heating, and Refrigeration Institute (AHRI), FRB. Monthly for 1982-2001. For 1982-2000, included floor and wall furnaces; for 1982-2001, included unit heaters. Production worker hours for 1972-81.
Burners and other parts*	333414pt.	Mnd	1,059	.03	Prod	Units, electric and gas water heaters, boilers, unit heaters, warm air furnaces, with model-based inventory adjustment; water heater shipments for 1981-6; AHRI, Association of Home Appliance Manufacturers (AHAM), FRB. Production worker hours for 1972-81.
Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment*	333415	. . .	19,413	.51
Room air conditioners†	333415pt.	Cdo	3,077	.08	Prod	Units; AHAM.

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	NAICS	Market	Millions of dollars	Proportion		
Warm air furnaces†	333415pt.	Cdo, Ebn, Sc, Sb	1,872	.05	Prod	Units, shipments, gas and oil warm air furnaces, with model-based inventory adjustment; AHRI, AHAM, FRB. Included electric warm air furnaces for 1982–97. Production workers for 1972–81.
Compressors, condensers, and other parts†	333415pt.	Mnd	8,351	.22	Prod	Units, refrigerators, freezers, and room air-conditioners, AHAM; and, shipments, warm air furnaces; AHRI, AHAM. Production worker hours for 1972–81.
Unitary air conditioners†	333415pt.	. . .	6,114	.16	. . .	Units; AHRI. 1972–1996.
Unitary air conditioners - residential†	333415pt.	Cdo, Sc, Sb	4,279	.11	Prod	Units, price weighted by size; AHRI.
Unitary air conditioners - nonresidential†	333415pt.	Ebn, Sc, Sb	1,834	.05	Prod	Units, price weighted by size; AHRI.
Metalworking machinery	3335	. . .	20,109	.53	. . .	. . .
Other metalworking machinery*	333511–5,9	Ebn, Mnd	15,252	.40	Hrs	. . .
Machine tools*	333517	Ebn, Mnd	4,857	.13	Hrs	. . .
Engine, turbine, and power transmission equipment	3336	. . .	18,257	.48	. . .	. . .
Turbine and turbine generator set units*	333611	Ebn, Ed, Mnd	4,935	.13	Hrs	. . .
Engines and power transmission equipment*	333612–8	. . .	13,322	.35	. . .	. . .
Speed changers, drives, gears, and power transmission equipment*	333612,3	Mnd	4,405	.12	Prod	Deflated shipments, with model-based inventory adjustment; American Gear Manufacturers Association, BLS, FRB. Production work hours for 1972–2003.
Engines*	333618	Mnd	8,918	.24	Hrs	Units, diesel engines; Stark's News Service for 1992–2017.
Computer and electronic product	334	. . .	183,550	4.84	. . .	. . .
Computer and peripheral equipment	3341	. . .	9,047	.24	. . .	. . .
Electronic computer*	334111	. . .	2,664	.07	. . .	. . .
Computers, business*	334111pt.	. . .	2,232	.06	. . .	Production worker hours for 1972–91.
Computers, business desktop†	334111pt.	Ebi, Mnd	352	.01	Hrs	Production worker hours for 2012–present. Fisher quantity index; International Data Corporation (IDC) for 1994–2011. Federal Reserve estimates 1992–3.

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Computers, business mobile†	334111pt.	Ebi, Mnd	117	.00	Hrs	Production worker hours for 2012–present; Fisher quantity index; IDC for 1994–2011. Federal Reserve estimates 1992–3.
Computers, business non-x86 servers†	334111pt.	Ebi, Mnd	443	.01	Qprod	Deflated shipments; Nominal shipments estimated from Quarterly Survey of Plant Capacity Utilization (QSPC) for 2012–present; Fisher quantity index; IDC for 1994–2011. Federal Reserve estimates 1992–3. Bureau of Labor Statistics (1994–present).
Computers, business x86 servers†	334111pt.	Ebi, Mnd	1,321	.03	Qprod	Deflated shipments; Nominal shipments estimated from QSPC for 2012–present; IDC for 1994–2011. Federal Reserve estimates 1992–3. Bureau of Labor Statistics (1994–present).
Computers, consumer*	334111pt.	. . .	432	.01	. . .	Production worker hours for 1982–91. Series begins in 1982.
Computers, consumer desktop†	334111pt.	Cdo, Mnd	230	.01	Hrs	Production worker hours for 2012–present; Fisher quantity index; IDC for 1994–2011. Federal Reserve estimates 1992–3.
Computers, consumer mobile†	334111pt.	Cdo, Mnd	202	.01	Hrs	Production worker hours for 2012–present; Fisher quantity index; IDC for 1994–2011. Federal Reserve estimates 1992–3.
Computer storage devices*	334112	. . .	2,659	.07	. . .	. . .
Computer storage devices, business†	334112pt.	Ebi, Mnd	1,827	.05	Hrs	Production worker hours for 2012–present; computer production index, IDC, FRB. Deflated shipments 2007–2011; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994–2006; Gartner, Inc., IDC. Federal Reserve estimates 1992–3. Production worker hours for 1982–91. Series begins in 1982.

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Computer storage devices, consumer†	334112pt.	Cdo, Mnd	833	.02	Hrs	Production worker hours for 2012–present; computer production index, IDC, FRB. Deflated shipments 2007–11; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994–2006; Gartner, Inc., IDC. Federal Reserve estimates 1992–3. Production worker hours for 1982–91. Series begins in 1982.
Computer terminal and other computer peripheral equipment*	334118	. . .	3,723	.10	. . .	. . .
Computer terminal and other computer peripheral equipment, business†	334118pt.	Ebi, Mnd	2,608	.07	Hrs	Production worker hours for 2012–present; computer production index, IDC, FRB. Deflated shipments 2007–11; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994–2006; Gartner, Inc., IDC. Federal Reserve estimates 1992–3. Production worker hours for 1982–91. Series begins in 1982.
Computer terminal and other computer peripheral equipment, consumer†	334118pt.	Cdo, Mnd	1,115	.03	Hrs	Production worker hours for 2012–present; computer production index, IDC, FRB. Deflated shipments 2007–11; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994–2006; Gartner, Inc., IDC. Federal Reserve estimates 1992–3. Production worker hours for 1982–91. Series begins in 1982.
Communications equipment	3342	. . .	16,740	.44	. . .	. . .
Telephone apparatus*	33421	Ebi, Sb	1,596	.04	Qprod	Shipments estimated from QSPC (2011Q3–present) and Current Industrial Report (CIR) (2007Q1–2011Q2); Census Bureau; Prices from Dell’Oro Group and Synergy Research Group for 1992–2012.
Broadcasting, wireless, and other communications equipment*	33422,9	. . .	15,143	.40

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Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Radio and TV broadcasting and other eq.*	33429,2pt.	Cdo, Ebi, Ed, Sc, Mnd	11,515	.30	Qprod	Shipments estimated from QSPC (2011Q3–present) and Current Industrial Report (CIR) (2007Q1–2011Q2); Census Bureau; Prices from Dell’Oro Group for 2007–2012. Production worker hours for 1992–2006.
Wireless system equipment*	33422pt.	Cdo, Ebi, Ed, Sc, Mnd	3,628	.10	Qprod	Fisher quantity index; Nominal shipments estimated from QSPC (2011Q3–present) and CIR (2007Q1–2011Q2); Census Bureau. For all products, Fisher quantity index and prices from Dell’Oro Group for 2002–2006. Production worker hours for 1992–2001.
Audio and video equipment and media*	3343,6	. . .	3,105	.08	. . .	. . .
Audio and video equipment	3343	Cdo, Mnd	2,261	.06	Hrs	Fisher quantity index, digital televisions, speakers for 2002–06; Consumer Electronics Association (CEA). Fisher index included direct view analog color televisions (25 inches and over) January 2002–February 2006. Units, direct view color television sets, 25 inches and over, 1996–2001. Sets 19 inches and over for 1991–1995. Total color television sets for 1972–90. Excludes comparable imports based on data from the Census Bureau.
Manufacturing and reproducing magnetic and optical media*	3346	Cdo, Ebi, Sb, Mnd	844	.02	Hrs	. . .
Semiconductor and other electronic component	3344	. . .	55,201	1.46	. . .	. . .
Semiconductor and related device*	334413	. . .	33,247	.88	. . .	Production worker hours for 1972–91.
Optoelectronics and discretcs*	334413pt.	Sb, Mnd	31	.00	Prod	Fisher quantity index; Semiconductor Industry Association (SIA). Series begins in 1992.
MOS logic ex. MPUs*	334413pt.	Sb, Mnd	3,844	.10	Prod	Fisher quantity index; SIA; Gartner, Inc.; FRB. Series begins in 1992.

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
MPUs*	334413pt.	Sb, Mnd	11,390	.30	Prod	Fisher quantity index; SIA; In-Stat/MDR; Bureau of Labor Statistics; Gartner, Inc.; FRB. Series begins in 1992.
Other integrated circuits*	334413pt.	Sb, Mnd	16,332	.43	Prod	Fisher quantity index; SIA; Gartner, Inc. Series begins in 1992.
MOS memories*	334413pt.	. . .	1,650	.04	. . .	. . .
DRAM*	334413pt.	Sb, Mnd	76	.00	Prod	Fisher quantity index; SIA; iSuppli; Bank of Japan (BOJ). Series begins in 1992.
Flash memory*	334413pt.	Sb, Mnd	1,520	.04	Prod	Fisher quantity index; SIA; iSuppli; BOJ. Series begins in 1992.
Other MOS memory*	334413pt.	Sb, Mnd	53	.00	Prod	Fisher quantity index; SIA; iSuppli; BOJ. Series begins in 1992.
Electronic components ex. chips*	33441 ex. 334413	. . .	21,953	.58	. . .	. . .
Bare printed circuit board†	334412	Sb, Mnd	2,544	.07	Prod	Deflated shipments, flexible and rigid circuit boards, with model-based inventory adjustment; IPC Association of Electronic Connecting Industries, FRB. Production worker hours for 1972–91.
Miscellaneous and other electronic components*	334416,7,9	Sb, Mnd	13,145	.35	Hrs	. . .
Printed circuit assembly (electronic assembly)†	334418	Ebi, Sb, Mnd	6,265	.17	Prod	Deflated shipments, flexible and rigid circuit boards, with model-based inventory adjustment; IPC Association of Electronic Connecting Industries, FRB. Production worker hours for 1972–91.
Navigational, measuring, electromedical, and control instruments	3345	. . .	99,458	2.62	. . .	. . .
Electromedical and electrotherapeutic apparatus*	334510	Ebi, Sb	22,787	.60	Hrs	. . .
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument*	334511	Ebi, Ed, Mnd	35,627	.94	Hrs	. . .
Measuring and controlling instruments and parts*	334512–9	Cdo, Ebi, Ed, Sc, Sb, Mnd	41,044	1.08	Hrs	. . .

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Electrical equipment, appliance, and component	335	. . .	73,796	1.95	. . .	. . .
Household appliance	3352	. . .	14,440	.38	. . .	. . .
Small electrical appliance	33521	Cdo, Sc	1,971	.05	Hrs	Small Appliances: Deflated shipments, with model-based inventory adjustment for 1992–2006; AHAM, FRB. Production work hours for 1972–91. Vacuum cleaners: Units, sales, with model-based inventory adjustment; monthly data for 2003–06; AHAM, Vacuum Cleaner Manufacturers Association, FRB. Federal Reserve estimates for 1985–86. Quarterly data for 1977–84, 1987–2002.
Major appliance	33522	. . .	12,469	.33	. . .	. . .
Household cooking appliance†	335220pt.	Cdo, Ebn	3,394	.09	Prod	Units, weighted combination of electric ranges, gas ranges, microwave ovens, and combination microwave ovens/ranges; AHAM. Shipments of gas ranges prior to 1988, American Gas Association.
Household laundry equipment*	335220pt.	. . .	2,422	.06	. . .	. . .
Clothes dryers†	335220pt.	Cdo	802	.02	Prod	Units, electric and gas dryers; AHAM. Shipments of gas dryers prior to 1988, AHAM.
Washing machines†	335220pt.	Cdo	1,620	.04	Prod	Units, automatic washers. Automatic and wringer washers for 1972–1983; AHAM.
Other major household appliance*	335220pt.	. . .	3,827	.10	. . .	. . .
Electric water heaters†	335220pt.	Cdo, Ebn, Sc, Mnd	955	.03	Prod	Units, shipments, residential electric storage water heaters, with model-based inventory adjustment; AHRI, AHAM, FRB.
Gas water heaters†	335220pt.	Cdo, Ebn, Sc, Mnd	1,026	.03	Prod	Units, shipments, residential gas-fired automatic storage water types, with model-based inventory adjustment; AHRI, AHAM, FRB.
Dishwashers and disposers†	335220pt.	Cdo, Ebn, Sc, Mnd	1,846	.05	Prod	Units, weighted combination of built-in and portable dishwashers and disposers; AHAM.
Household refrigerator and home freezer*	335220pt.	. . .	2,826	.07

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Home freezers†	335220pt.	Cdo, Ebn	328	.01	Prod	Units, upright and chest freezers; AHAM.
Refrigerators†	335220pt.	Cdo, Ebn	2,499	.07	Prod	Units; AHAM.
Electrical equipment except appliances	3351,3,9	. . .	59,356	1.57	. . .	. . .
Electric lighting equipment	3351	Cdo, Sc, Sb, Mnd	7,713	.20	Hrs	National Electrical Manufacturers Association for 2002–2015; production worker hours for 1997–2001; electric power use for 1972–1996.
Electrical equipment	3353	Ebn, Sb, Mnd	22,021	.58	Hrs	Electric power use for 1972–96.
Other electrical equipment and component	3359	. . .	29,621	.78	. . .	. . .
Battery	33591	. . .	4,789	.13	. . .	. . .
Storage battery†	335911	Cda, Sb, Mnd	3,761	.10	Prod	Units, shipments, automotive replacement batteries, with model-based inventory adjustment; Battery Council International, FRB.
Primary battery*	335912	Cne	1,027	.03	Hrs	. . .
Communication and energy wire and cable	33592	Sc, Mnd	5,346	.14	Hrs	. . .
Other electrical equipment	33593–9	Cdo, Ebn, Sc, Mnd	19,487	.51	Hrs	Electric power use for 1972–96.
Transportation equipment	336	. . .	318,732	8.41	. . .	. . .
Motor vehicles and parts	3361–3	. . .	197,120	5.20	. . .	. . .
Motor vehicle	3361	. . .	92,310	2.44	. . .	. . .
Automobile and light duty motor vehicle	33611	. . .	86,607	2.28	. . .	. . .
Automobile	336111	. . .	16,043	.42	. . .	Fisher quantity index (unit auto production and annual list prices); Ward's Communications, Chrysler, and General Motors, allocated to consumer and business use based on shares of purchases data from the Bureau of Economic Analysis, vehicle registrations from IHS Automotive, National Truck Equipment Association, and Ward's Communication. Unit production data for 1972–86.
Automobile, business	336111pt.	Ebt	2,521	.07	Prod	. . .
Automobile, consumer*	336111pt.	Cda	13,521	.36	Prod	. . .

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Light truck and utility vehicle	336112	. . .	70,564	1.86	. . .	Fisher quantity index (unit auto production and annual list prices); Ward's Communications, Chrysler, and General Motors, allocated to consumer and business use based on shares of purchases data from the Bureau of Economic Analysis, vehicle registrations from IHS Automotive, National Truck Equipment Association, and Ward's Communication. Unit production data for 1972–86.
Light trucks, business	336112pt.	Ebt	12,127	.32	Prod	. . .
Light trucks, consumer*	336112pt.	Cda	58,437	1.54	Prod	. . .
Heavy duty truck	33612	. . .	5,703	.15	. . .	Units; Ward's Communications, allocated to medium and heavy classes based on share of factory shipments.
Heavy trucks*	33612pt.	Ebt	2,424	.06	Prod	. . .
Medium trucks*	33612pt.	Ebt	3,279	.09	Prod	. . .
Motor vehicle body and trailer	3362	. . .	22,392	.59	. . .	. . .
Motor vehicle body*	336211	Cda, Ebt, Mnd	6,440	.17	Hrs	. . .
Truck trailer	336212	Ebt	4,170	.11	Prod	Units, shipments, with model-based inventory adjustment; ACT Research, FRB. Census Bureau before 1992.
Motor home	336213	Cda	1,996	.05	Prod	Units, shipments, weighted combination of conventional vans, van campers, and chopped vans, with model-based inventory adjustment; Recreation Vehicle Industry Association, FRB.
Travel trailer and camper	336214	Cda, Ebt	9,785	.26	Prod	Units, shipments, travel trailers, folding camping trailers, and truck campers, with model-based inventory adjustment; Recreation Vehicle Industry Association, FRB.
Motor vehicle parts	3363	. . .	82,419	2.17
Motor vehicle gasoline engine and engine parts*	33631	. . .	11,869	.31

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle gasoline engine and engine parts, original equip.†	33631pt.	. . .	7,371	.19	Prod	Weighted average of: Unit assemblies, production worker hours and unit engine production; Ward's Communications, Chrysler, and General Motors (assemblies); Stark's News Service (engines), 1992–2020. For 1972–91 and 2021–present, weighted average of units and production worker hours.
Motor vehicle gasoline engine and engine parts, repair*	33631pt.	Cda	4,498	.12	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Motor vehicle electrical and electronic equipment*	33632	. . .	9,386	.25	. . .	. . .
Motor vehicle electrical and electronic equipment, original equip.†	33632pt.	Mnd	5,895	.16	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications, Chrysler, and General Motors (assemblies).
Motor vehicle electrical and electronic equipment, repair*	33632pt.	Cda	3,491	.09	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Motor vehicle steering and suspension components (except spring)*	33633	. . .	4,196	.11	. . .	. . .
Motor vehicle steering and suspension components (except spring), original equip.†	33633pt.	Mnd	2,844	.08	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications, Chrysler, and General Motors (assemblies).
Motor vehicle steering and suspension components (except spring), repair*	33633pt.	Cda	1,352	.04	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Motor vehicle brake system*	33634	. . .	3,523	.09

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle brake system, original equip.†	33634pt.	. . .	2,154	.06	Prod	Weighted average of: Unit vehicle assemblies, production worker hours, and unit brake production; Ward's Communications, Chrysler, and General Motors (assemblies); Stark's News Service (brakes), 1992–2020. For 1972–91 and 2021–present, weighted average of units and production worker hours.
Motor vehicle brake system, repair*	33634pt.	Cda	1,369	.04	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Motor vehicle transmission and power train parts*	33635	. . .	13,411	.35	. . .	. . .
Motor vehicle transmission and power train parts, original equip.†	33635pt.	. . .	8,508	.22	Prod	Weighted average of: Unit vehicle assemblies, production worker hours, and unit production of axles and transmissions; Ward's Communications, Chrysler, and General Motors (assemblies); Stark's News Service (axles and transmissions), 1992–2020. For 1972–91 and 2021–present, weighted average of units and production worker hours.
Motor vehicle transmission and power train parts, repair*	33635pt.	Cda	4,903	.13	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Motor vehicle seating and interior trim*	33636	. . .	6,988	.18	. . .	. . .
Motor vehicle seating and interior trim, original equip.†	33636pt.	Mnd	3,942	.10	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications, Chrysler, and General Motors (assemblies).
Motor vehicle seating and interior trim, repair*	33636pt.	Cda	3,046	.08	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle metal stamping*	33637	Mnd	12,979	.34	Hrs	...
Other motor vehicle parts*	33639	...	20,067	.53	...	...
Other motor vehicle parts, original equip.†	33639pt.	Mnd	13,494	.36	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications, Chrysler, and General Motors (assemblies).
Other motor vehicle parts, repair*	33639pt.	Cda	6,573	.17	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; IHS Automotive and Rubber Manufacturers Association.
Aerospace and miscellaneous transportation eq.	3364-9	...	121,611	3.21	...	...
Aerospace product and parts	3364	...	87,289	2.30	...	...
Aircraft and parts	336411-3	...	75,339	1.99	...	...
Aircraft*	336411	...	41,546	1.10	...	...
Civilian aircraft†	336411pt.	Ebt	19,922	.53	Prod	Forward-looking weighted average of passenger aircraft completed and production worker hours; Boeing, Airbus, Bureau of Labor Statistics.
Military aircraft*	336411pt.	Ed	21,624	.57	Hrs	Production worker hours data supplemented with expected annual deliveries and prices from manufacturers' reports and Aviation Week magazine.
Aircraft engine, parts, and auxiliary equipment*	336412,3	...	33,793	.89	...	...
Aircraft equipment, civilian*	336412,3pt.	Ebt	3,880	.10	Hrs	...
Aircraft equipment, military*	336412,3pt.	Ed	4,568	.12	Hrs	...
Aircraft parts*	336412,3pt.	Mnd	25,345	.67	Hrs	...
Guided missiles, space vehicles, and parts*	336414-9	...	11,950	.32	...	...
Guided missile and space vehicle*	336414	Ed	7,827	.21	Hrs	...
Guided missile and space vehicle parts and equipment*	336415,9	Ed, Mnd	4,123	.11	Hrs	...
Railroad eq., ships and boats, and other transportation equipment	3365-9	...	34,322	.91	...	...
Railroad rolling stock	3365	Ebt, Sb, Mnd	2,659	.07	Hrs	...

* Unpublished but available upon request.

† Unpublished and not available upon request.

... Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Ship and boat building	3366	. . .	22,571	.60	. . .	. . .
Ship building and repairing*	336611	. . .	16,683	.44	. . .	. . .
Ship building and repairing, civilian*	336611pt.	Ebt	2,943	.08	Hrs	. . .
Ship building and repairing, military*	336611pt.	Ed	13,740	.36	Hrs	. . .
Boat building*	336612	Cda	5,888	.16	Prod	Fisher quantity index of shipments, with model-based inventory adjustment; National Marine Manufacturers Association, FRB. Production worker hours for 1972–91.
Other transportation equipment	3369	Cda, Ebt, Ed	9,092	.24	Hrs	. . .
Furniture and related product	337	. . .	41,245	1.09	. . .	. . .
Household and institutional furniture and kitchen cabinet	3371	Cdo, Ebn, Sc, Mnd	22,076	.58	Hrs	. . .
Office furniture (including fixtures)*	3372	Ebn, Sc	13,931	.37	Hrs	Deflated shipments, with model-based inventory adjustment for 1972–2015; Business and Institutional Furniture Manufacturers Association.
Other furniture related product*	3379	. . .	5,238	.14	. . .	. . .
Mattress†	33791	Cdo, Ebn	3,958	.10	Qprod	Units, sales of mattresses and foundations, with model-based inventory adjustment; International Sleep Products Association (ISPA), FRB. ISPA data are quarterly since 2016 and monthly for 1987–2015. For 1972–86, grouped with blinds and shades using production worker hours.
Blind and Shade*	33792	Cdo, Ebn	1,280	.03	Hrs	. . .
Miscellaneous	339	. . .	100,580	2.65	. . .	. . .
Medical equipment and supplies	3391	Cnn, Ebn, Sb, Mnn	62,293	1.64	Hrs	. . .
Other miscellaneous*	3399	. . .	38,287	1.01	. . .	. . .
Miscellaneous consumer goods*	33991–3	Cdo	11,856	.31	Hrs	. . .

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Miscellaneous business goods*	33994,5	Cdo, Ebn, Sb, Mnd	9,035	.24	Hrs	...
All other miscellaneous*	33999	Cdo, Ebn, Sb, Mnd	17,396	.46	Hrs	...
Nondurable manufacturing	311–316, 322–326	...	1,388,300	36.63	...	...
Food	311	...	355,968	9.39	...	...
Animal food	3111	...	25,044	.66	...	...
Dog and cat food*	311111	Cnn	11,960	.32	Hrs	...
Other animal food*	311119	Sb	13,084	.35	Hrs	...
Grain and oilseed milling	3112	...	25,756	.68	...	...
Flour milling and malt*	31121	Cnn, Mnn	6,871	.18	Hrs	Sacks (cwt), wheat flour for 1972Q1–2011Q2; Census Bureau.
Starch and vegetable fats and oils*	31122	...	14,096	.37	...	...
Wet corn milling*	311221	...	4,084	.11	...	...
Corn oil*	311221pt.	Cnn	972	.03	Hrs	Pounds for 1972Q1–2011Q2; Census Bureau.
Corn syrup and starch†	311221pt.	Mnn	3,112	.08	Prod	Pounds, shipments, with model-based inventory adjustment; Corn Refiners Association, FRB. Production worker hours for 1972–76.
Soybean and other oilseed processing*	311224	Cnn, Sb, Mnn	6,747	.18	Prod	Pounds. Oil and meal, various oilseeds including soybeans; National Oilseed Processors Association. Cottonseed oil and meal for 2011–2015; Cottonseed Products Association. Crude oils, cakes, and meals from cottonseed and soybean for 1972Q1–2011Q2; Census Bureau.
Fats and oils refining and blending*	311225	Cnn, Sb, Mnn	3,266	.09	Hrs	Pounds, margarine and baking/frying fats, soybean, salad and cooking oils for 1972Q1–2011Q2; Census Bureau.
Breakfast cereal*	31123	Cnn	4,789	.13	Hrs	...
Sugar and confectionery product	3113	...	18,010	.48	...	...
Sugar*	31131	Cnn, Mnn	4,403	.12	Prod	Tons, processed beet sugar and refined cane sugar; Department of Agriculture (USDA). Quarterly data for 1982–91.
Chocolate and confectionery*	31134,5	Cnn, Mnn	13,608	.36	Hrs	...

* Unpublished but available upon request.

† Unpublished and not available upon request.

... Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Fruit and vegetable preserving and specialty food	3114	Cnn	35,945	.95	Hrs	Electric power use for 1972–96.
Dairy product	3115	. . .	43,037	1.14	. . .	. . .
Dairy product (except frozen)	31151	. . .	38,255	1.01	. . .	. . .
Fluid milk	311511	Cnn, Mnn	14,175	.37	Prod	Pounds; USDA.
Creamery butter	311512	Cnn, Mnn	876	.02	Prod	Pounds; USDA.
Cheese	311513	Cnn, Mnn	16,166	.43	Prod	Pounds; USDA.
Dry, condensed, and evaporated dairy product	311514	Cnn, Mnn	7,038	.19	Prod	Pounds; evaporated, condensed, and dry milk; whey; and lactose; USDA.
Ice cream and frozen dessert	31152	Cnn, Sb	4,782	.13	Prod	Gallons, ice cream, low-fat ice cream, sherbet, water and juice ices, and frozen yogurt; USDA. Mellorine included through 1990.
Animal slaughtering and processing	3116	. . .	92,947	2.45	. . .	. . .
Animal (except poultry) slaughtering and meat processing	311611–3	. . .	62,184	1.64	. . .	. . .
Beef	311611–3pt.	Cnn, Mnn	37,807	1.00	Prod	Pounds; USDA.
Pork	311611–3pt.	Cnn, Mnn	23,700	.63	Prod	Pounds; USDA.
Miscellaneous meats	311611–3pt.	Cnn, Mnn	678	.02	Prod	Pounds, weighted combination of veal and lamb; USDA.
Poultry processing	311615	Cnn, Mnn	30,763	.81	Prod	Pounds; USDA.
Seafood product preparation and packaging*	3117	Cnn, Sb	5,324	.14	Hrs	. . .
Bakeries and tortilla	3118	Cnn	45,401	1.20	Hrs	. . .
Other food	3119	. . .	64,503	1.70	. . .	. . .
Snack food*	31191	Cnn	22,154	.58	Hrs	. . .
Other food*	31193–9	Cnn, Mnn	37,783	1.00	Hrs	Electric power use for 1972–96.
Coffee and tea	31192	Cnn, Sb	4,566	.12	Hrs	Bags (60 kilo) green coffee roasted; George Gordon Patton and Company for 1972–2002.
Beverage and tobacco product	312	. . .	107,192	2.83	. . .	. . .
Beverage	3121	. . .	63,238	1.67	. . .	. . .
Soft drink and ice	31211	Cnn	16,507	.44	Hrs	. . .
Breweries	31212	Cnn	20,358	.54	Prod	Barrels (31 gallons); Alcohol and Tobacco Tax and Trade Bureau (TTB).

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Wineries*	31213	Cnn	14,630	.39	Prod	Wine gallons, taxable withdrawals of still wines, effervescent wines, and brandy; TTB.
Distilleries*	31214	. . .	11,743	.31	. . .	. . .
Liquor bottling*	31214pt.	Cnn	6,939	.18	Prod	Gallons, bottled-in-bond; TTB.
Liquor distilling*	31214pt.	Mnn	4,804	.13	Prod	Gallons; TTB.
Tobacco	3122	. . .	43,954	1.16	. . .	. . .
Cigarettes, cigars, snuff, and chewing tobacco*	3122pt.	. . .	43,601	1.15	. . .	. . .
Cigarette*	3122pt.	Cnn	36,205	.96	Prod	Units; TTB.
Cigars, snuff and chewing tobacco*	3122pt.	. . .	7,397	.20	. . .	. . .
Cigars*	3122pt.	Cnn	2,601	.07	Prod	Units; TTB.
Snuff and chewing tobacco*	3122pt.	Cnn	4,796	.13	Prod	Pounds; TTB. Production worker hours for 1972–86.
Tobacco stemming and redrying*	3122pt.	Mnn	353	.01	Hrs	. . .
Textile mills	313	. . .	11,530	.30	. . .	. . .
Fiber, yarn, and thread mills	3131	Mnn	2,082	.05	Hrs	Bales, consumption of cotton and synthetic fibers, and thousand pounds, consumption of wool fibers for 1972Q1–2011Q2; Census Bureau.
Fabric mills	3132	. . .	6,468	.17	. . .	. . .
Broadwoven fabric mills*	31321	Cnn, Mnn	1,558	.04	Hrs	Wool fabrics: Square yards, woolen and worsted fabrics, quarterly, 1982–2002; Census Bureau. Kilowatt hours for 1977–81. Monthly physical product data for 1972–76. Cotton and synthetic fabrics: Square yards, cotton and synthetic fabrics, 1980–2002; Census Bureau. Long yards for 1972–79.
Other fabric mills*	31322–4	Mnn	4,910	.13	Hrs	. . .
Textile and fabric finishing and fabric coating mills	3133	. . .	2,980	.08	. . .	. . .
Textile and fabric finishing mills*	31331	Cnn, Mnn	2,023	.05	Hrs	. . .
Fabric coating mills*	31332	Mnn	957	.03	Hrs	. . .
Textile product mills	314	. . .	11,864	.31	. . .	. . .
Textile furnishings mills	3141	. . .	6,076	.16	. . .	. . .
Carpet and rug mills	31411	Cdo, Ebn, Sc, Mnd	3,927	.10	Qprod	Square yards, tufted broadloom carpeting, shipments, with model-based inventory adjustment; Carpet and Rug Institute. Monthly physical product data for 1972–2004.
Curtain and linen mills*	31412	Cdo, Sb	2,148	.06	Hrs	. . .

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other textile product mills	3149	Cnn, Sc, Sb, Mnn	5,789	.15	Hrs	Tire cord: Millions of pounds, 1972–2002; Census Bureau.
Apparel	315	. . .	5,228	.14	. . .	. . .
Apparel knitting mills*	3151	. . .	480	.01	. . .	. . .
Hosiery and sock mills†	31511	Cnn	381	.01	Hrs	Pairs, weighted combination of total hosiery and pantyhose, 1992–2002; The Hosiery Association. Monthly data for 1972–91.
Other apparel knitting mills*	31519	Cnn, Mnn	100	.00	Hrs	. . .
Cut and sew apparel*	3152	. . .	4,148	.11	. . .	. . .
Cut and sew apparel contractors*	31521	Cnn, Mnn	1,133	.03	Hrs	. . .
Men's and boys' cut and sew apparel*	31522	Cnn	707	.02	Hrs	. . .
Women's, girls', infants', and other cut and sew apparel*	31524,8	Cnn	2,308	.06	Hrs	. . .
Apparel accessories and other apparel*	3159	Cnn, Mnn	600	.02	Hrs	. . .
Leather and allied product	316	. . .	2,462	.06	. . .	. . .
Leather and hide tanning and finishing*	3161	Mnn	529	.01	Hrs	Electric power use for 1972–96.
Footwear*	3162	Cnn	787	.02	Hrs	. . .
Other leather and allied product*	3169	Cnn, Sb, Mnd	1,146	.03	Hrs	. . .
Paper	322	. . .	90,750	2.39	. . .	. . .
Pulp, paper, and paperboard mills	3221	. . .	41,444	1.09	. . .	. . .
Pulp mills	32211	Mnn	3,663	.10	Prod	Tons; American Forest and Paper Association (AFPA); Census Bureau, 1972–81.
Paper mills	32212	. . .	18,341	.48	. . .	. . .
Paper (except newsprint) mills	322121	Mnn	18,188	.48	Prod	Tons; AFPA. Shipments plus inventory change for selected components, 1972–86. Census Bureau, 1972–81.
Newsprint mills†	322122	Mnn	152	.00	Prod	Metric tons; Pulp and Paper Products Council.
Paperboard mills	32213	Mnn	19,440	.51	Prod	Tons; AFPA. Census Bureau, 1972–81.
Converted paper product	3222	. . .	49,306	1.30	. . .	. . .
Paperboard container	32221	Sb, Mnn	25,853	.68	Prod	Square feet, shipments, corrugated and solid fiber products, with model-based inventory adjustment; Fibre Box Association, FRB.
Paper bag and coated and treated paper	32222	. . .	9,896	.26

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Coated and laminated paper and plastics film†	32222pt.	Cnn, Sc, Sb, Mnn	7,826	.21	Prod	Tons, shipments plus inventory change, coated printing and converted paper beginning in 1987; AFPA. Census Bureau, 1972–86.
Paper bag and coated and treated paper*	32222pt.	Cnn, Sb, Mnn	2,070	.05	Hrs	. . .
Stationery product†	32223	Cnn, Sb, Mnn	1,793	.05	Prod	Tons, shipments plus inventory change, free sheet, cotton, and thin paper beginning in 1987; AFPA. Census Bureau, 1972–86.
Other converted paper product†	32229	Cnn, Sc, Sb, Mnn	11,766	.31	Prod	Tons, tissue paper; AFPA. Census Bureau, 1972–86
Printing and related support activities	323	. . .	46,347	1.22	. . .	. . .
Printing*	32311	Sb, Mnn	44,362	1.17	Hrs	Electric power use for 1972–96.
Support activities for printing*	32312	Sb, Mnn	1,985	.05	Hrs	. . .
Petroleum and coal products	324	. . .	144,384	3.81	. . .	. . .
Petroleum refineries	32411	. . .	122,025	3.22	. . .	. . .
Aviation fuel and kerosene	32411pt.	Sb	10,720	.28	Prod	Barrels, aviation gasoline, jet fuel, and kerosene; Department of Energy (DOE).
Distillate fuel oil	32411pt.	Cne	29,793	.79	Prod	Barrels, distillate fuel oil; DOE.
Automotive gasoline	32411pt.	Cne	60,471	1.60	Prod	Barrels, automotive gasoline; DOE.
Refinery nonfuel materials*	32411pt.	Mnn	7,946	.21	Prod	Barrels, liquified refinery gases for chemical use, ethane/ethylene, special naphthas, naphtha and other feedstocks, wax, and miscellaneous products at refineries; DOE.
Residual fuel oil	32411pt.	Mec	4,492	.12	Prod	Barrels, residual fuel oil; DOE.
Refinery fuel n.e.c.*	32411pt.	Mec	1,598	.04	Prod	Barrels, liquefied refinery gases, ethane/ethylene, still gas, and petroleum coke; DOE.
Refinery products n.e.c.*	32411pt.	Sb	7,005	.18	Prod	Barrels, asphalt, road oil, and lubricants; DOE.
Paving, roofing, and other petroleum and coal products	32412,9	Cnn, Sc, Sb, Mnn	22,359	.59	Hrs	. . .
Chemical	325	. . .	472,584	12.47	. . .	. . .
Basic chemical	3251	. . .	122,857	3.24	. . .	. . .
Organic chemicals	32511,9	. . .	91,687	2.42	. . .	. . .
Ethyl alcohol*	325193	Sb, Mec	12,625	.33	Prod	Barrels, ethanol; DOE.

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Organic chemicals ex. ethanol†	32511,9 ex 325193	Sb, Mnn	79,062	2.09	Qprod	Pounds and gallons, weighted combination of acrylonitrile, benzene, finished butadiene, cumene, ethylene, ethylene oxide, para-xylene, propylene, and styrene; American Fuel & Petrochemical Manufacturers.
Basic inorganic chemicals	32512-8	. . .	31,170	.82	. . .	. . .
Industrial gas	32512	Sb, Mnn	8,969	.24	Hrs	Cubic feet, hydrogen, oxygen, acetylene, argon, nitrogen, and carbon dioxide; quarterly for 1991-2004; Census Bureau. Monthly data for 1972-90.
Other basic inorganic chemical	32518pt.	. . .	19,528	.52	. . .	. . .
Misc. other basic inorganic chemicals*	32518pt.	Sb, Mnn	11,653	.31	Hrs	Tons, sulfuric acid, hydrochloric acid, aluminum sulfate, sodium phosphate tripoly, phosphorus, hydrofluoric acid, calcium phosphate, calcium carbide, hydrogen peroxide, sodium chlorate, sodium silicate, and potassium pyrophosphate for 1972Q1-2011Q2; Census Bureau. Monthly data for 1972-90. Carbon black estimated from production worker hours for 1972-2012.
Alkalies and chlorine	32518pt.	Sb, Mnn	4,161	.11	Prod	Tons, sodium hydroxide liquid and chlorine gas; The Chlorine Institute. Census Bureau, 1972-86.
Nuclear materials†	32518pt.	Mec	3,714	.10	Prod	SWU; URENCO. Kilowatt sales to facilities producing nondefense nuclear materials 1972-2013; Department of Energy, individual facilities.
Synthetic dye and pigment	32513	Sb, Mnn	2,673	.07	Hrs	Tons, titanium dioxide, 1972-2002; Census Bureau.
Resin, synthetic rubber, and artificial and synthetic fibers and filaments	3252	. . .	44,012	1.16	. . .	. . .
Resin and synthetic rubber	32521	. . .	41,419	1.09	. . .	. . .
Plastics material and resin	325211	Mnn	38,258	1.01	Prod	Pounds, thermosetting and thermoplastic resins; American Chemistry Council.
Synthetic rubber	325212	Mnn	3,161	.08	Hrs	Tons; Rubber Manufacturers Association, 1972-2002.
Artificial and synthetic fibers and filaments	32522	Mnn	2,593	.07	Hrs	Pounds, noncellulosic, rayon, and acetate fibers; Fiber Economics Bureau, 1972-2017.
Pesticide, fertilizer, and other agricultural chemical	3253	. . .	24,514	.65

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Fertilizer†	32531	Sb, Mnn	16,068	.42	Prod	Tons, synthetic anhydrous ammonia, ammonia nitrate, ammonium sulfate, nitrogen solutions, nitric acid, phosphoric acid, phosphatic fertilizer materials, and urea; Census Bureau (1972Q1–2011Q2), The Fertilizer Institute (2011Q3–present, monthly). Monthly data for 1972–90.
Pesticide and other agricultural chemical*	32532	Cnn, Sb, Mnn	8,446	.22	Hrs	. . .
Pharmaceutical and medicine	3254	. . .	186,130	4.91	. . .	. . .
Medicinal, botanical, biological product*	325411,3,4	Cnn, Mnn	67,200	1.77	Hrs	. . .
Pharmaceutical preparation†	325412	Cnn, Mnn	118,930	3.14	Prod	Fisher quantity index, with model-based inventory adjustment; IQVIA/IMS-Health, FRB. Production worker hours for 1972–93.
Paints, soaps and toiletries, and other chemical products	3255–9	. . .	95,070	2.51	. . .	. . .
Paints and other chemical products	3255,9	. . .	46,799	1.23	. . .	. . .
Paint, coating, and adhesive	3255	. . .	23,648	.62	. . .	. . .
Paint and coating	32551	Sc, Mnd	14,849	.39	. . .	. . .
Adhesive*	32552	Cnn, Sc, Sb, Mnn	8,798	.23	Hrs	. . .
Other chemical product and preparation*	3259	Cnn, Sb, Mnn	23,151	.61	Hrs	Electric power use for 1972–96.
Soap, cleaning compound, and toilet preparation	3256	Cnn, Sb, Mnn	48,271	1.27	Hrs	Electric power use for 1972–96.
Plastics and rubber products	326	. . .	139,989	3.69	. . .	. . .
Plastics product	3261	. . .	115,029	3.03	. . .	. . .
Plastics bottle*	32616	Sb, Mnn	6,066	.16	Hrs	. . .
Plastics product*	32611–5,9	Cdo, Sc, Sb, Mnd	108,963	2.87	Hrs	. . .
Rubber product	3262	. . .	24,960	.66
Tire	32621	. . .	11,671	.31

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† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Original equipment tires, business†	32621pt.	Mnd	461	.01	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial, and utility; Rubber Manufacturers Association (RMA).
Original equipment tires, consumer†	32621pt.	Mnd	1,132	.03	Prod	Units, passenger car tires (radial and other); RMA.
Replacement tires, business†	32621pt.	Sb	2,700	.07	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial and utility; RMA.
Replacement tires, consumer†	32621pt.	Cda	7,377	.19	Prod	Units, passenger car tires (radial and other); RMA.
Rubber products ex. tires	32622,9	. . .	13,289	.35	. . .	. . .
Rubber and plastics hoses and belting*	32622	Cdo, Sb, Mnd	3,683	.10	Hrs	Electric power use for 1972–96.
Other rubber product*	32629	Cdo, Sb, Mnd	9,607	.25	Hrs	Electric power use for 1972–96.
Other manufacturing	1133, 5111	. . .	69,846	1.84	. . .	. . .
Newspaper, periodical, book, and directory publishers	5111	. . .	63,494	1.68	. . .	. . .
Newspaper publishers	51111	. . .	17,752	.47	. . .	Tons, newsprint consumption; Pulp and Paper Products Council. American Newspaper Publishers Association, 1972–86.
Newspaper advertising*	51111pt.	Sb, Mnn	9,527	.25	Prod	Index derived by deducting circulation from newsprint consumption.
Newspaper circulation*	51111pt.	Cnn	8,225	.22	Est	Federal Reserve estimates based on annual circulation data; Alliance for Audited Media; Editor & Publisher (1972–2014).
Periodical, book, and other publishers	51112–9	. . .	45,742	1.21	. . .	. . .
Book Publishers†	51113	Cnn, Sb, Mnn	19,168	.51	Prod	Fisher quantity index of sales, with model-based inventory adjustment; Association of American Publishers (Dollar sales), Bureau of Labor Statistics (prices), FRB (inventories). Series begins in 1987. Grouped with periodical and other non-newspaper publishers and based on production worker hours for 1972–86.

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Periodicals and other publishers*	51112,4,9	. . .	26,574	.70	. . .	Series begins in 1987. Grouped with book publishers and based on production worker hours for 1972–86.
Periodical Publishers*	51112	Cnn, Sb, Mnn	18,192	.48	Qprod	Deflated revenue; Census Bureau, Bureau of Labor Statistics (prices). Series begins in 1987; monthly production worker hours for 1987–2002. Grouped with books and other non-newspaper publishers and based on production worker hours for 1972–86.
Other publishers*	51114,9	Cnn, Sb, Mnn	8,382	.22	Hrs	Series begins in 1987. Grouped with book and periodical publishers and based on production worker hours for 1972–86.
Logging	1133	Sb, Mnd	6,352	.17	Hrs	. . .
Mining	21	. . .	520,016	13.72	. . .	. . .
Oil and gas extraction	211	. . .	379,936	10.02	. . .	. . .
Crude oil	21112	. . .	265,937	7.02	. . .	. . .
Texas crude oil*	211120pt.	Mep	112,570	2.97	Prod	Barrels; Department of Energy (DOE).
Alaska and California crude oil*	211120pt.	Mep	19,073	.50	Prod	Barrels; DOE.
Louisiana and other crude oil*	211120pt.	Mep	134,294	3.54	Prod	Barrels; DOE.
Natural gas and natural gas liquids	21113	. . .	113,999	3.01	. . .	. . .
Natural gas	211130pt.	Mep	77,497	2.04	Prod	Billion cubic feet, marketed production; DOE, S&P Global Platts.
Natural gas liquid extraction	211130pt.	. . .	36,502	.96	. . .	. . .
Propane*	211130pt.	Cne	4,912	.13	Prod	Barrels, at gas-processing plants; DOE.
Liquefied petroleum*	211130pt.	Mec	31,589	.83	Prod	Barrels, natural gas liquids minus propane at gas-processing plants; DOE.
Mining (except oil and gas)	212	. . .	78,691	2.08	. . .	. . .
Coal mining	2121	Sb, Mep	16,127	.43	Prod	Tons, anthracite and bituminous, including lignite; Btu weighted; DOE.
Metal ore mining	2122	. . .	30,771	.81	. . .	. . .
Iron ore mining	21221	Mnd	2,569	.07	Prod	Metric tons, usable iron ore excluding ore containing 5 percent or more manganese; U.S. Geological Survey.
Gold ore and silver ore mining	21222	. . .	8,475	.22	. . .	. . .
Gold ore mining*	212221	Mnd	7,842	.21	Prod	Kilograms, gold ores; U.S. Geological Survey.

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Silver ore mining*	212222	Mnd	633	.02	Prod	Metric tons, silver ores; U.S. Geological Survey.
Copper, nickel, lead, and zinc mining	21223	. . .	12,519	.33	. . .	. . .
Copper ore and nickel ore mining*	212230pt.	Mnd	11,160	.29	Prod	Metric tons, recoverable copper; U.S. Geological Survey.
Lead ore and zinc ore mining*	212230pt.	Mnd	1,359	.04	Prod	Metric tons, recoverable lead and zinc; U.S. Geological Survey.
Other metal ore mining*	21229	Mnd	7,207	.19	Prod	Metric tons, molybdenum concentrate; U.S. Geological Survey.
Nonmetallic mineral mining and quarrying	2123	. . .	31,793	.84	. . .	. . .
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21231,2	. . .	27,669	.73	. . .	. . .
Stone mining and quarrying*	21231	Sc, Mnd	17,663	.47	Qprod	Metric tons, crushed stone; U.S. Geological Survey. Railroad traffic for 1982–87; Association of American Railroads. Production worker hours for 1972–81.
Sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21232	. . .	10,005	.26	. . .	. . .
Sand and gravel mining*	212321,2	Sc, Sb, Mnd	8,861	.23	Qprod	Metric tons, crushed stone, sand and gravel; U.S. Geological Survey. Railroad traffic for 1982–87; Association of American Railroads. Production worker hours for 1972–81.
Kaolin, clay, and ceramic and refractory minerals mining*	212324,5	Sc, Sb, Mnn	1,145	.03	Hrs	. . .
Other nonmetallic mineral mining and quarrying*	21239	Mnn	4,124	.11	Prod	Metric tons, phosphate rock, soda ash, Frasch sulfur; U.S. Geological Survey.
Support activities for mining	213	. . .	61,390	1.62	. . .	. . .
Drilling oil and gas wells	213111	Es	16,221	.43	Prod	Number of rotary rigs running, weighted average of off-shore and on-shore; Baker Hughes. Footage drilled used in annual benchmark; American Petroleum Institute.
Support activities for oil and gas operations†	213112	Mep	42,583	1.12	Prod	Well servicing units, Energy Workforce & Technology Council; workover rigs, Baker Hughes.

* Unpublished but available upon request.

† Unpublished and not available upon request.

. . . Not applicable.

**Table 1. Industry Structure of Industrial Production:
Classification, Value-Added Weights, and Description of Series—Continued**

Groups and series	Classification		Value added in 2021		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Support activities for coal, metal, and nonmetallic minerals (except fuels)*	213113-5	Mnd	2,586	.07	Prod	Average of indexed underlying data for series in NAICS 212; U.S. Geological Survey, Bureau of Labor Statistics.
Utilities	2211, 2	. . .	394,755	10.41	. . .	. . .
Electric power generation, transmission, and distribution	2211	. . .	340,559	8.98	. . .	. . .
Electric power generation	22111	. . .	165,396	4.36	. . .	. . .
Hydroelectric, renewables, and other	221111,4-8	. . .	20,616	.54	. . .	. . .
Hydroelectric power generation	221111	Mep	10,187	.27	Prod	Kilowatt hours, includes pumped storage; Department of Energy (DOE).
Renewables and other electric power generation	221114-8	Mep	10,429	.28	Prod	Kilowatt hours from solar, wind, geothermal, and other sources; DOE.
Fossil Fuel electric power generation	221112	Mec	93,362	2.46	Prod	Kilowatt hours from coal, petroleum, and natural gas; DOE.
Nuclear electric power generation	221113	Mep	51,417	1.36	Prod	Kilowatt hours, DOE.
Electric power transmission, control, and distribution	22112	. . .	175,164	4.62	. . .	. . .
Commercial and other electricity sales	22112pt.	Sb	65,419	1.73	Prod	Kilowatt hours to commercial and other; DOE.
Industrial electricity sales	22112pt.	Mec	29,469	.78	Prod	Kilowatt hours to industrial users; DOE.
Residential electricity sales	22112pt.	Cne	80,276	2.12	Prod	Kilowatt hours; DOE.
Natural gas distribution	2212	. . .	54,196	1.43	. . .	. . .
Commercial and other gas sales	2212pt.	Sb	9,645	.25	Prod	Cubic feet, sales to commercial establishments; DOE. American Gas Association, 1972-77.
Industrial gas sales	2212pt.	Mec	2,917	.08	Prod	Cubic feet, sales, includes gas used by electric utilities, gas used for lease and plant fuel, and gas consumed as pipeline fuel; DOE. American Gas Association, 1972-77.
Residential gas sales	2212pt.	Cne	28,390	.75	Prod	Cubic feet, sales to residences; DOE. American Gas Association, 1972-77.
Gas transmission	2212pt.	Mec	13,244	.35	Prod	Cubic feet, natural gas sold; DOE. American Gas Association, 1972-77.

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† Unpublished and not available upon request.

. . . Not applicable.