

**Table 1. Industry structure of industrial production:
classification, value-added weights, and description of series**

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Total index	...	...	2,730,699	100.00	...	Series begins in 1919.
Manufacturing (SIC)	...	...	2,085,251	76.36	...	Series begins in 1919.
Manufacturing (NAICS)	31-33	...	1,985,836	72.72	...	Series begins in 1972.
Durable manufacturing	321, 327, 331-339	...	1,009,938	36.98	...	Series begins in 1972.
Nondurable manufacturing	311-316, 322-326	...	975,898	35.74	...	Series begins in 1972.
Other manufacturing	1133, 5111	...	99,414	3.64	...	Series begins in 1972.
Mining	21	...	321,891	11.79	...	Series begins in 1972.
Utilities	2211, 2	...	323,558	11.85	...	Series begins in 1972.

... Not applicable.

DESCRIPTION OF COLUMNS

Groups and Series: Series with asterisks are included in the published totals but are not published separately. 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*, 2002 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.

Kwh: Electric power use data, in kilowatt-hours, data collected by the Federal Reserve System.

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 or electric power use. 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)	2,085,251	76.36
Manufacturing (NAICS)	31-33	...	1,985,836	72.72	...	...
Durable manufacturing	321, 327, 331-339	...	1,009,938	36.98	...	...
Wood product	321	...	25,923	.95	...	...
Sawmills and wood preservation	3211	Sc, Mnd	6,065	.22	Prod	Board feet; American Forest & Paper Association.
Plywood and misc. wood products	3212,9	...	19,858	.73	...	...
Veneer, plywood, and engineered wood product	3212	...	4,641	.17	...	...
Veneer and plywood	321211,2	Cdo, Sc, Sb, Mnd	1,568	.06	Prod	Square feet, structural panels; APA—The Engineered Wood Association.
Engineered wood member*	321213,4	Cdo, Sc, Sb	1,271	.05	Hrs	...
Reconstituted wood product	321219	Cdo, Sc, Mnd	1,802	.07	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	...	15,217	.56	...	...
Millwork	32191	...	7,679	.28	...	...
Flooring*	32191pt.	Cdo, Sc, Sb, Mnd	855	.03	Prod	Board feet; The Wood Flooring Manufacturers Association, The Maple Flooring Manufacturers Association.
Other millwork*	32191pt.	Cdo, Sc, Sb, Mnd	6,824	.25	Hrs	...
Wood container and pallet	32192	Cdo, Sb, Mnn	2,763	.10	Hrs	...
All other wood product	32199	...	4,776	.17	...	...
Manufactured home (mobile home)	321991	Es	1,354	.05	Prod	Units; Manufactured Housing Institute.
Other miscellaneous wood product*	321992,9	Cdo, Sc, Sb, Mnd	3,422	.13	Hrs	...
Nonmetallic mineral product	327	...	48,909	1.79	...	...
Clay, lime, gypsum, and misc. nonmetallic mineral products	3271,4,9	...	16,213	.59	...	...
Clay and misc. nonmetallic mineral products	3271,9	...	13,723	.50	...	...
Clay product and refractory	3271	...	3,394	.12	...	...
Pottery, ceramics, and plumbing fixture	32711	...	1,036	.04	...	...
Vitreous china plumbing fixture and china and earthenware bathroom accessories*	327111	Cdo, Sc	169	.01	Hrs	...
Vitreous china, fine earthenware, and other pottery product*	327112	Cdo	419	.02	Hrs	...

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	NAICS	Market	Millions of dollars	Proportion		
Porcelain electrical supply*	327113	Sc, Mnd	448	.02	Hrs	...
Clay building material and refractories	32712	...	2,359	.09	...	...
Brick and structural clay tile*	327121	Cdo, Sc	602	.02	Qprod	Units, building or common and face brick; Census Bureau. Monthly data for 1972-90.
Ceramic tile and refractory*	327122,4,5	Sc, Mnd	1,646	.06	Qprod	Square feet, clay floor and wall tile, including quarry tile, glazed wall tile; Census Bureau. Monthly data for 1972-90.
Other structural clay product*	327123	Sc, Mnd	110	.00	Qprod	Tons, vitrified clay sewer pipe; Census Bureau. Monthly data for 1972-90.
Other nonmetallic mineral product	3279	Cdo, Sc, Mnd	10,329	.38	Hrs	Electric power use for 1972-96.
Lime and gypsum product	3274	...	2,489	.09	...	...
Lime*	32741	Sc, Sb, Mnd	1,079	.04	Hrs	Electric power use for 1972-96.
Gypsum product*	32742	Cdo, Sc, Sb, Mnd	1,411	.05	Prod	Tons, calcined gypsum; U.S. Geological Survey. Production worker hours for 1972-76.
Glass and glass product	3272	...	11,043	.40	...	...
Flat glass*	327211	Mnd	1,173	.04	Hrs	...
Other pressed and blown glass and glassware*	327212	Cdo, Sc, Sb, Mnd	2,196	.08	Hrs	Electric power use for 1972-96.
Glass container	327213	Mnn	3,097	.11	Prod	Gross, glass containers; Glass Packaging Institute for 2009-present, Census Bureau for 1972-2008.
Glass product made of purchased glass*	327215	Cdo, Sc, Sb, Mnd	4,577	.17	Hrs	Electric power use for 1972-96.
Cement and concrete product	3273	...	21,653	.79	...	...
Cement	32731	Sc, Mnd	3,556	.13	Prod	Tons, shipments, portland cement, with model-based inventory adjustment; U.S. Geological Survey, FRB.
Concrete and product	32732-9	Cdo, Sc, Sb	18,096	.66	Hrs	...
Primary metal	331	...	48,169	1.76	...	...
Iron and steel products	3311,2	...	18,296	.67	...	...
Basic iron and steel*	...	...	3,003	.11	...	...
Pig iron	3311,2pt.	Mnd	1,442	.05	Prod	Tons; American Iron and Steel Institute (AISI)
Raw steel	3311,2pt.	Mnd	1,161	.04	Prod	Tons, weighted combination of carbon, alloy, and stainless.
Coke and products	3311,2pt.	Mec	399	.01	Qprod	Tons, coke; Department of Energy. Monthly data for 1972-80.
Steel mill products*	...	...	15,293	.56	...	Tons. Shipments (AISI) plus inventory change (model-based by FRB beginning in 2005, survey-based from Census through 2004).
Construction steel	3311,2pt.	Sc	2,177	.08	Prod	Tons, steel for construction, including maintenance and contractors' products.

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	NAICS	Market	Millions of dollars	Proportion		
Consumer durable steel	3311,2pt.	Mnd	2,351	.09	Prod	Tons, steel for autos, appliances, utensils, and cutlery.
Can and closure steel	3311,2pt.	Mnd	506	.02	Prod	Tons.
Equipment steel	3311,2pt.	Mnd	987	.04	Prod	Tons.
Miscellaneous steel	3311,2pt.	Mnd	9,272	.34	Prod	Tons of steel, all other classifications, including warehouses and exports.
Alumina and aluminum production and processing	3313	...	5,712	.21	...	...
Alumina refining*	331311	Mnd	252	.01	Qprod	Thousand metric tons, North American alumina production since 1974; International Aluminium Institute. Production worker hours for 1972-73.
Primary aluminum production	331312	Mnd	826	.03	Prod	Tons, primary aluminum ingots; Aluminum Association.
Secondary smelting and alloying of aluminum	331314	Mnd	586	.02	Prod	Tons, aluminum alloys and brass ingot at secondary smelters and secondary lead; U.S. Geological Survey.
Misc. aluminum materials	331315,9	Mnd	2,504	.09	Prod	Pounds, aluminum mill products other than extruded shapes, powder and paste, and forgings and impacts; Census Bureau. Net shipments for 1972-86.
Aluminum extruded product	331316	Mnd	1,544	.06	Prod	Pounds, extruded shapes; Census Bureau. Net shipments for 1972-86.
Nonferrous metal (except aluminum) production and processing	3314	...	12,040	.44	...	...
Nonferrous metal (except aluminum) smelting and refining	33141	...	4,765	.17	...	...
Primary smelting and refining of copper	331411	...	2,657	.10	...	...
Copper refining*	331411pt.	Mnd	1,506	.06	Prod	Tons, refined copper; American Bureau of Metal Statistics.
Copper smelting*	331411pt.	Mnd	1,151	.04	Prod	Tons, scrap and primary copper; American Bureau of Metal Statistics.
Primary smelting and refining of nonferrous metal (except copper and aluminum)	331419	Mnd	2,108	.08	Prod	Tons, lead mining and primary slab zinc refining; U.S. Geological Survey and American Bureau of Metals Statistics. Before August 1998, lead refining (ABMS) used instead of lead mining.
Copper rolling, drawing, extruding, and alloying*	33142	Mnd	3,053	.11	Prod	Tons, refined copper consumption by U.S. fabricators; American Bureau of Metal Statistics.
Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying*	33149	Mnd	4,221	.15	Hrs	...
Foundries	3315	...	12,122	.44	...	...
Ferrous metal foundries*	33151	Mnd	7,123	.26	Hrs	Electric power use for 1972-96.
Nonferrous metal foundries*	33152	...	4,998	.18	...	...
Aluminum foundries*	331521,4	Mnd	3,021	.11	Hrs	Pounds, shipments of diecastings, sand castings, permanent molds, and other aluminum castings, with model-based inventory adjustment; Aluminum Association, FRB for 1994 to 2007. Series begins in 1992; production worker hours for 1992-1993. Grouped with other nonferrous castings 1972-1991; production worker hours.
Nonferrous foundries except aluminum*	331522,5,8	Mnd	1,977	.07	Hrs	...

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Fabricated metal product	332	...	146,911	5.38	...	...
Forging and stamping	3321	Mnd	11,391	.42	Hrs	...
Cutlery and handtool	3322	Cdo, Ebn, Sc, Sb, Mnd	5,151	.19	Hrs	...
Architectural and structural metals	3323	Sc, Mnd	34,059	1.25	Hrs	...
Boiler, tank, and shipping container*	3324	...	12,455	.46	...	...
Boilers, heat exchangers, and metal tanks*	33241,2	Ebn, Sc, Mnd	6,417	.23	Hrs	...
Metal can, box, and other metal container (light gauge)*	33243	Mnn	6,039	.22	Qprod	Tons, shipments, metal cans; Can Manufacturers Institute. Quarterly data since 1997. Monthly data for 1977-96. Production worker hours for 1972-76.
Hardware	3325	Cdo, Sc, Sb, Mnd	3,546	.13	Hrs	Electric power use for 1972-96.
Spring and wire product	3326	Cdo, Sc, Sb, Mnd	3,961	.15	Hrs	...
Machine shops; turned product; and screw, nut, and bolt	3327	Sb, Mnd	30,156	1.10	Hrs	Electric power use for 1972-96.
Coating, engraving, heat treating, and allied activities	3328	Sb, Mnd	11,570	.42	Hrs	...
Other fabricated metal product	3329	...	34,620	1.27	...	...
Metal valve*	33291	Ebn, Sc, Sb, Mnd	13,525	.50	Hrs	...
All other fabricated metal product*	33299	...	21,095	.77	...	...
Ball and roller bearing	332991	Sb, Mnd	3,689	.14	Qprod	Units, weighted combination of ball, mounted, tapered, and other roller bearings; American Bearing Manufacturers Association. Production worker hours for 1972-91.
Ordnance*	332992-5	Cdo, Ed	6,520	.24	Hrs	...
Miscellaneous fabricated metal products*	332996-9	Cdo, Ebn, Sc, Sb, Mnd	10,887	.40	Hrs	...
Machinery	333	...	132,274	4.84	...	...
Agriculture, construction, and mining machinery	3331	...	31,713	1.16	...	...
Agricultural implement	33311	...	12,753	.47	...	...
Farm machinery and equipment	333111	Ebn, Sb	10,826	.40	Prod	Units, tractor and farm machinery production; J-C Communications. Production worker hours for 1972-91.
Lawn and garden tractor and home lawn and garden equipment*	333112	Cdo, Ebn, Sb	1,927	.07	Hrs	...

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Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Construction machinery	33312	Ebn, Mnd	9,503	.35	Prod	Units, weighted combination of assemblies of crawlers, wheel loaders, skid steer loaders, wheel tractors, and other construction equipment; J-C Communications. Production worker hours for 1972-86.
Mining and oil and gas field machinery	33313	Ebn, Mnd	9,457	.35	Hrs	...
Industrial machinery	3332	...	12,147	.44	...	...
Semiconductor machinery*	333295	Ebn, Mnd	1,732	.06	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*	33321,2,91-4,8	Ebn, Mnd	10,415	.38	Hrs	...
Commercial and service industry machinery and other general purpose machinery	3333,9	...	48,094	1.76	...	...
Commercial and service industry machinery*	3333	Cdo, Ebn, Sc, Sb, Mnd	11,008	.40	Hrs	...
Other general purpose machinery*	3339	Ebn, Sc, Mnd	37,086	1.36	Hrs	...
HVAC, metalworking, and power transmission machinery	3334-6	...	40,320	1.48	...	...
Ventilation, heating, air-conditioning, and commercial refrigeration equipment	3334	...	15,803	.58	...	...
Air purification equip., fans, and blowers*	333411,2	Ebn, Sc, Sb, Mnd	2,373	.09	Hrs	Electric power use for 1972-96.
Heating equipment (except warm air furnaces)*	333414	...	1,952	.07	...	...
Boilers, heaters, and furnaces*	333414pt.	Cdo, Sc	1,337	.05	Qprod	Units, shipments, boilers, with model-based inventory adjustment; Gas Appliance Manufacturers Association, Inc (GAMA), 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	614	.02	Prod	Units, electric and gas water heaters, boilers, unit heaters, warm air furnaces, with model-based inventory adjustment; water heater shipments for 1981-6; GAMA, FRB. Production worker hours for 1972-81.
Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment*	333415	...	11,478	.42	...	...
Room air conditioners*	333415pt.	Cdo	249	.01	Prod	Units; Association of Home Appliance Manufacturers (AHAM).
Warm air furnaces*	333415pt.	Cdo, Ebn, Sc, Sb	1,112	.04	Prod	Units, shipments, gas and oil warm air furnaces, with model-based inventory adjustment; GAMA, FRB. Included electric warm air furnaces for 1982-97. Production workers for 1972-81.

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	NAICS	Market	Millions of dollars	Proportion		
Compressors, condensers, and other parts*	333415pt.	Mnd	5,233	.19	Prod	Units, refrigerators, freezers, and room air-conditioners, AHAM; and, shipments, warm air furnaces, GAMA. Production worker hours for 1972-81.
Unitary air conditioners*	333415pt.	...	4,884	.18	...	Units; Air-Conditioning and Refrigeration Institute. 1972-1996.
Unitary air conditioners - residential*	333415pt.	Cdo, Sc, Sb	3,419	.13	Prod	Units, price weighted by size; Air-Conditioning and Refrigeration Institute.
Unitary air conditioners - nonresidential*	333415pt.	Ebn, Sc, Sb	1,465	.05	Prod	Units, price weighted by size; Air-Conditioning and Refrigeration Institute.
Metalworking machinery	3335	...	11,970	.44	...	...
Machine tools*	333512,3	Ebn, Mnd	2,353	.09	Qprod	Fisher quantity index of shipments, with model-based inventory adjustment; Census Bureau, FRB. Series begins in 1992. Grouped with other metalworking machinery as production worker hour series, 1972-91.
Other metalworking machinery*	333511,4-8	Ebn, Mnd	9,618	.35	Hrs	...
Engine, turbine, and power transmission equipment	3336	...	12,547	.46	...	...
Turbine and turbine generator set units*	333611	Ebn, Ed, Mnd	4,127	.15	Hrs	...
Engines and power transmission equipment*	333612-8	...	8,420	.31	...	...
Speed changers, drives, gears, and power transmission equipment*	333612,3	Mnd	3,277	.12	Hrs	...
Engines*	333618	Mnd	5,143	.19	Prod	Units, diesel engines; Stark Communications. Series begins in 1992. Grouped with other power transmission equipment as production worker hour series, 1972-91.
Computer and electronic product	334	...	193,242	7.08	...	...
Computer and peripheral equipment	3341	...	25,974	.95	...	...
Electronic computer*	334111	...	18,164	.67	...	...
Computers, business*	334111pt.	Ebi, Mnd	13,010	.48	...	Production worker hours for 1972-91.
Computers, business desktop*	334111pt.	Ebi, Mnd	4,923	.18	Qprod	Fisher quantity index; International Data Corporation (IDC). Federal Reserve estimates 1992-3.
Computers, business mobile*	334111pt.	Ebi, Mnd	2,813	.10	Qprod	Fisher quantity index; IDC. Federal Reserve estimates 1992-3.
Computers, business x86 servers*	334111pt.	Ebi, Mnd	3,165	.12	Qprod	Fisher quantity index; IDC. Federal Reserve estimates 1992-3.
Computers, business non-x86 servers*	334111pt.	Ebi, Mnd	2,110	.08	Qprod	Fisher quantity index; IDC. Federal Reserve estimates 1992-3.
Computers, consumer*	334111pt.	Cdo, Mnd	5,154	.19	...	Production worker hours for 1982-91. Series begins in 1982.

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Computers, consumer desktop*	334111pt.	Cdo, Mnd	3,711	.14	Qprod	Fisher quantity index; IDC. Federal Reserve estimates 1992-3.
Computers, consumer mobile*	334111pt.	Cdo, Mnd	1,443	.05	Qprod	Fisher quantity index; IDC. Federal Reserve estimates 1992-3.
Computer storage and terminals*	334112,3	...	3,412	.12	...	...
Computer storage and terminals, business*	334112,3pt.	Ebi, Mnd	2,388	.09	Qprod	Deflated shipments 2007-present; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994-2006; Gartner, Inc., IDC. Federal Reserve estimates 1992-3. Production worker hours for 1972-91.
Computer storage and terminals, consumer*	334112,3pt.	Cdo, Mnd	1,024	.04	Qprod	Deflated shipments 2007-present; 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.
Other computer peripheral equipment*	334119	...	4,397	.16	...	...
Computer printers, business*	334119pt.	Ebi, Mnd	3,135	.11	Qprod	Deflated shipments 2007-present; Census Bureau, Bureau of Labor Statistics. Fisher quantity index 1994-2006; Gartner, Inc., IDC. Federal Reserve estimates 1992-3. Production worker hours for 1972-91.
Computer printers, consumer*	334119pt.	Cdo, Mnd	1,263	.05	Qprod	Deflated shipments 2007-present; 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	...	25,537	.94	...	...
Telephone apparatus*	33421	...	3,638	.13	...	...
Data networking equipment*	33421pt.	Ebi, Sb	939	.03	Qprod	Fisher quantity index; Census Bureau, Dell'Oro Group for 2007 to present. Synergy Research Group for 1992-2006.
Transmission, local loop, and legacy central office equipment*	33421pt.	Ebi, Sb	1,593	.06	Qprod	Fisher quantity index; Census Bureau, Dell'Oro Group for 2007 to present. Dell'Oro Group for 1992-2006.
Enterprise and home voice equipment*	33421pt.	Ebi, Sb	1,105	.04	Qprod	Fisher quantity index; Census Bureau, Dell'Oro Group for 2007 to present. Synergy Research Group for 1992-2006.
Broadcasting, wireless, and other communications equipment*	33422,9	...	21,900	.80	...	...
Satellites and earth station equipment*	33422pt.	Cdo, Ebi, Ed, Sc, Mnd	11,250	.41	Qprod	Deflated shipments; Census Bureau, Futron, Bureau of Labor Statistics for 2007 to present. Production worker hours for 1992-2006.
Wireless system equipment*	33421pt.	Cdo, Ebi, Ed, Sc, Mnd	1,795	.07	Qprod	Fisher quantity index; Census Bureau, Dell'Oro Group for 2007 to present. Dell'Oro Group for 1992-2006.
Radio and TV broadcasting eq. ex. satellites and other communications eq.*	33429,2pt.	Cdo, Ebi, Ed, Sc, Mnd	8,854	.32	Qprod	Deflated shipments; Census Bureau, Bureau of Labor Statistics for 2007 to present. Production worker hours for 1992-2006.
Audio and video equipment and media*	3343,6	...	4,608	.17

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Audio and video equipment	3343	Cdo, Mnd	1,464	.05	Hrs	Fisher 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	3,144	.12	Hrs	...
Semiconductor and other electronic component	3344	...	58,361	2.14	...	...
Semiconductor and related device*	334413	...	41,434	1.52	...	Production worker hours for 1972-91.
Optoelectronics and discretes*	334413pt.	Sb, Mnd	3,199	.12	Prod	Fisher quantity index; Semiconductor Industry Association. Series begins in 1992.
MOS logic ex. MPUs*	334413pt.	Sb, Mnd	7,842	.29	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
MPUs*	334413pt.	Sb, Mnd	15,797	.58	Prod	Fisher quantity index; Semiconductor Industry Association; In-Stat/MDR; Bureau of Labor Statistics. Series begins in 1992.
Other integrated circuits*	334413pt.	Sb, Mnd	6,348	.23	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
MOS memories*	334413pt.	...	8,248	.30	...	...
DRAM*	334413pt.	Sb, Mnd	3,121	.11	Prod	Fisher quantity index; Semiconductor Industry Association; iSuppli. Series begins in 1992.
Flash memory*	334413pt.	Sb, Mnd	4,418	.16	Prod	Fisher quantity index; Semiconductor Industry Association; iSuppli. Series begins in 1992.
Other MOS memory*	334413pt.	Sb, Mnd	708	.03	Prod	Fisher quantity index; Semiconductor Industry Association; iSuppli. Series begins in 1992.
Electronic components ex. chips*	...	...	16,927	.62	...	...
Electronic components ex. chips and tubes*	...	...	16,335	.60	...	...
Bare printed circuit board*	334412	Sb, Mnd	2,102	.08	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.
Other electronic components*	334414-7,9	Sb, Mnd	8,778	.32	Hrs	...
Printed circuit assembly (electronic assembly)*	334418	Ebi, Sb, Mnd	5,455	.20	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.
Electron tube*	334411	Sb, Mnd	592	.02	Hrs	Units, factory sales of picture tubes, with model-based inventory adjustment; EIA, FRB. 1972-2002.
Navigational, measuring, electromedical, and control instruments	3345	...	78,763	2.88	...	...
Electromedical and electrotherapeutic apparatus*	334510	Ebi, Sb	16,470	.60	Hrs	...

**Table 1. Industry structure of industrial production:
classification, value-added weights, and description of series—Continued**

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument*	334511	Ebi, Ed, Mnd	33,399	1.22	Hrs	...
Measuring and controlling instruments and parts*	334512-9	Cdo, Ebi, Ed, Sc, Sb, Mnd	28,894	1.06	Hrs	...
Electrical equipment, appliance, and component	335	...	50,510	1.85	...	...
Household appliance	3352	...	8,451	.31	...	...
Small electrical appliance	33521	...	1,884	.07	...	...
Electric housewares and household fan*	335211	Cdo, Sc	1,296	.05	Hrs	Deflated shipments, with model-based inventory adjustment for 1992-2006; AHAM, FRB. Production work hours for 1972-91.
Household vacuum cleaner*	335212	Cdo	588	.02	Hrs	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	...	6,567	.24	...	...
Household cooking appliance*	335221	Cdo, Ebn	1,439	.05	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 refrigerator and home freezer*	335222	...	1,708	.06	...	...
Home freezers*	335222pt.	Cdo, Ebn	212	.01	Prod	Units, upright and chest freezers; AHAM.
Refrigerators*	335222pt.	Cdo, Ebn	1,496	.05	Prod	Units; AHAM.
Household laundry equipment*	335224	...	1,295	.05	...	...
Clothes dryers*	335224pt.	Cdo	432	.02	Prod	Units, electric and gas dryers; AHAM. Shipments of gas dryers prior to 1988, AHAM.
Washing machines*	335224pt.	Cdo	863	.03	Prod	Units, automatic washers. Automatic and wringer washers for 1972-1983; AHAM.
Other major household appliance*	335228	...	2,125	.08	...	...
Dishwashers and disposers*	335228pt.	Cdo, Ebn, Sc, Mnd	1,099	.04	Prod	Units, weighted combination of built-in and portable dishwashers and disposers; AHAM.
Electric water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	470	.02	Prod	Units, shipments, residential electric storage water heaters, with model-based inventory adjustment; GAMA, FRB.
Gas water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	556	.02	Prod	Units, shipments, residential gas-fired automatic storage water types, with model-based inventory adjustment; GAMA, FRB.

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Electrical equipment except appliances	3351,3,9	...	42,060	1.54	...	...
Electric lighting equipment	3351	Cdo, Sc, Sb, Mnd	5,798	.21	Hrs	Electric power use for 1972-96.
Electrical equipment	3353	Ebn, Sb, Mnd	17,929	.66	Hrs	Electric power use for 1972-96.
Other electrical equipment and component	3359	...	18,333	.67	...	...
Battery	33591	...	4,188	.15	...	...
Storage battery*	335911	Cda, Sb, Mnd	2,380	.09	Prod	Units, shipments, automotive replacement batteries, with model-based inventory adjustment; Battery Council International, FRB.
Primary battery*	335912	Cne	1,808	.07	Hrs	...
Communication and energy wire and cable	33592	Sc, Mnd	3,979	.15	Hrs	...
Other electrical equipment	33593,9	Cdo, Ebn, Sc, Mnd	10,166	.37	Hrs	Electric power use for 1972-96.
Transportation equipment	336	...	237,225	8.69	...	...
Motor vehicles and parts	3361-3	...	108,032	3.96	...	...
Motor vehicle	3361	...	49,606	1.82	...	...
Automobile and light duty motor vehicle	33611	...	46,436	1.70	...	...
Automobile	336111	...	13,339	.49	...	Fisher quantity index (unit auto production and annual list prices); Ward's Communications, allocated to consumer and business use based on shares of purchases data from the Bureau of Economic Analysis and CNW. Unit production data for 1972-86.
Automobile, business	336111pt.	Ebt	3,291	.12	Prod	...
Automobile, consumer*	336111pt.	Cda	10,048	.37	Prod	...
Light truck and utility vehicle	336112	...	33,097	1.21	...	Fisher quantity index (unit light truck production and annual list prices); Ward's, allocated to consumer and business use based on shares of purchases data from the Bureau of Economic Analysis and CNW. Unit production data for 1972-86.
Light trucks, business	336112pt.	Ebt	5,290	.19	Prod	...
Light trucks, consumer*	336112pt.	Cda	27,807	1.02	Prod	...
Heavy duty truck	33612	...	3,170	.12	...	Units; Ward's Communications, allocated to medium and heavy classes based on share of factory shipments.
Heavy trucks*	33612pt.	Ebt	1,089	.04	Prod	...
Medium trucks*	33612pt.	Ebt	2,081	.08	Prod	...

**Table 1. Industry structure of industrial production:
classification, value-added weights, and description of series—Continued**

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle body and trailer	3362	...	6,877	.25	...	...
Motor vehicle body*	336211	Cda, Ebt, Mnd	3,099	.11	Hrs	...
Truck trailer	336212	Ebt	1,341	.05	Prod	Units, shipments, with model-based inventory adjustment; ACT Research, FRB. Census Bureau before 1992.
Motor home	336213	Cda	454	.02	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	1,983	.07	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	...	51,549	1.89	...	...
Motor vehicle gasoline engine and engine parts*	33631	...	6,638	.24	...	...
Motor vehicle gasoline engine and engine parts, original equip.*	33631pt.	Mnd	1,419	.05	Prod	Weighted averaged of: Unit assemblies, production worker hours and unit engine production; Ward's Communications (assemblies); Stark Communications (engines). For 1972-91, weighted average of units and production worker hours.
Motor vehicle gasoline engine and engine parts, repair*	33631pt.	Cda	5,219	.19	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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle electrical and electronic equipment*	33632	...	6,265	.23	...	...
Motor vehicle electrical and electronic equipment, original equip.*	33632pt.	Mnd	1,573	.06	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle electrical and electronic equipment, repair*	33632pt.	Cda	4,691	.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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle steering and suspension components (except spring)*	33633	...	3,032	.11	...	...
Motor vehicle steering and suspension components (except spring), original equip.*	33633pt.	Mnd	1,558	.06	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle steering and suspension components (except spring), repair*	33633pt.	Cda	1,474	.05	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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle brake system*	33634	...	2,994	.11	...	...
Motor vehicle brake system, original equip.*	33634pt.	Mnd	926	.03	Prod	Weighted average of: Unit vehicle assemblies, production worker hours, and unit brake production; Ward's Communications (assemblies); Stark Communications (brakes). For 1972-91, weighted average of units and production worker hours.

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle brake system, repair*	33634pt.	Cda	2,068	.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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle transmission and power train parts*	33635	...	9,417	.34	...	...
Motor vehicle transmission and power train parts, original equip.*	33635pt.	Mnd	3,665	.13	Prod	Weighted average of: Unit vehicle assemblies, production worker hours, and unit production of axles and transmissions; Ward's Communications (assemblies); Stark Communications (axles and transmissions). For 1972-91, weighted average of units and production worker hours.
Motor vehicle transmission and power train parts, repair*	33635pt.	Cda	5,752	.21	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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle seating and interior trim*	33636	...	3,906	.14	...	...
Motor vehicle seating and interior trim, original equip.*	33636pt.	Mnd	1,240	.05	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle seating and interior trim, repair*	33636pt.	Cda	2,666	.10	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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle metal stamping*	33637	Mnd	7,563	.28	Hrs	...
Other motor vehicle parts*	33639	...	11,734	.43	...	...
Motor vehicle air-conditioning*	336391	...	903	.03	...	...
Motor vehicle air-conditioning, original equip.*	336391pt.	Mnd	129	.00	Prod	Index derived using motor vehicle assemblies and annual output in units, Census Bureau. For 1972-91, weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle air-conditioning, repair*	336391pt.	Cda	775	.03	Est	Federal Reserve estimates.
All other motor vehicle parts*	336399	...	10,831	.40	...	...
All other motor vehicle parts, original equip.*	336399pt.	Mnd	4,863	.18	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
All other motor vehicle parts, repair*	336399pt.	Cda	5,968	.22	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; R.L. Polk and Rubber Manufacturers Association.
Aerospace and miscellaneous transportation eq.	3364-9	...	129,192	4.73	...	...
Aerospace product and parts	3364	...	99,173	3.63	...	...
Aircraft and parts	336411-3	...	85,699	3.14	...	...
Aircraft*	336411	...	49,349	1.81	...	...
Civilian aircraft*	336411pt.	Ebt	24,268	.89	Prod	Forward-looking weighted average of passenger aircraft completed and production worker hours; Boeing, Bureau of Labor Statistics.
Military aircraft*	336411pt.	Ed	25,081	.92	Hrs	...
Aircraft engine, parts, and auxiliary equipment*	336412,3	...	36,349	1.33	...	...
Aircraft equipment, civilian*	336412,3pt.	Ebt	4,517	.17	Hrs	...
Aircraft equipment, military*	336412,3pt.	Ed	4,570	.17	Hrs	...

**Table 1. Industry structure of industrial production:
classification, value-added weights, and description of series—Continued**

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Aircraft parts*	336412,3pt.	Mnd	27,262	1.00	Hrs	...
Guided missiles, space vehicles, and parts*	336414-9	...	13,475	.49	...	...
Guided missile and space vehicle*	336414	Ed	9,647	.35	Hrs	...
Guided missile and space vehicle parts and equipment*	336415,9	Ed, Mnd	3,828	.14	Hrs	...
Railroad eq., ships and boats, and other transportation equipment	3365-9	...	30,019	1.10	...	...
Railroad rolling stock	3365	Ebt, Sb, Mnd	4,353	.16	Hrs	...
Ship and boat building	3366	...	16,288	.60	...	...
Ship building and repairing*	336611	...	14,125	.52	...	...
Ship building and repairing, civilian*	336611pt.	Ebt	2,845	.10	Hrs	...
Ship building and repairing, military*	336611pt.	Ed	11,280	.41	Hrs	...
Boat building*	336612	Cda	2,162	.08	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	9,379	.34	Hrs	...
Furniture and related product	337	...	32,031	1.17	...	...
Household and institutional furniture and kitchen cabinet	3371	Cdo, Ebn, Sc, Mnd	16,615	.61	Hrs	...
Office furniture (including fixtures)*	3372	Ebn, Sc	11,062	.41	Hrs	Electric power use for 1972-96.
Other furniture related product*	3379	...	4,354	.16	...	...
Mattress*	33791	Cdo, Ebn	3,412	.12	Prod	Units, sales of mattresses and foundations, with model-based inventory adjustment; International Sleep Products Association, FRB. Series begins in 1987. For 1972-86, grouped with blinds and shades using production worker hours.
Blind and Shade*	33792	Cdo, Ebn	942	.03	Hrs	...
Miscellaneous	339	...	94,743	3.47	...	...
Medical equipment and supplies	3391	Cnn, Ebn, Sb, Mnn	61,277	2.24	Hrs	...

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other miscellaneous*	3399	...	33,466	1.23	...	...
Miscellaneous consumer goods*	33991-3	Cdo	10,220	.37	Hrs	...
Miscellaneous business goods*	33994,5	Cdo, Ebn, Sb, Mnd	8,065	.30	Hrs	...
All other miscellaneous*	33999	Cdo, Ebn, Sb, Mnd	15,181	.56	Hrs	...
Nondurable manufacturing	311-316, 322-326	...	975,898	35.74	...	...
Food	311	...	258,895	9.48	...	...
Animal food	3111	...	18,071	.66	...	...
Dog and cat food*	311111	Cnn	9,894	.36	Hrs	...
Other animal food*	311119	Sb	8,177	.30	Hrs	...
Grain and oilseed milling	3112	...	31,031	1.14	...	...
Flour milling and malt*	31121	Cnn, Mnn	4,794	.18	Qprod	Sacks (cwt), wheat flour; Census Bureau.
Starch and vegetable fats and oils*	31122	...	18,248	.67	...	...
Wet corn milling*	311221	...	7,753	.28	...	...
Corn oil*	311221pt.	Cnn	837	.03	Prod	Pounds; Census Bureau.
Corn syrup and starch*	311221pt.	Mnn	6,916	.25	Prod	Pounds, shipments, with model-based inventory adjustment; Corn Refiners Association, FRB. Production worker hours for 1972-76.
Soybean and other oilseed processing*	311222,3	Cnn, Sb, Mnn	7,109	.26	Prod	Pounds, crude oils, cakes, and meals from cottonseed and soybean; Census Bureau.
Fats and oils refining and blending*	311225	Cnn, Sb, Mnn	3,385	.12	Prod	Pounds, margarine and baking/frying fats, soybean, salad and cooking oils; Census Bureau.
Breakfast cereal*	31123	Cnn	7,988	.29	Hrs	...
Sugar and confectionery product	3113	...	13,781	.50	...	...
Sugar*	31131	Cnn, Mnn	2,918	.11	Prod	Tons, processed beet sugar and refined cane sugar; Department of Agriculture (USDA). Quarterly data for 1982-91.
Chocolate and confectionery*	31132-4	Cnn	10,863	.40	Hrs	...
Fruit and vegetable preserving and specialty food	3114	Cnn	29,442	1.08	Hrs	Electric power use for 1972-96.
Dairy product	3115	...	28,400	1.04	...	...
Dairy product (except frozen)	31151	...	23,950	.88	...	...
Fluid milk	311511	Cnn, Mnn	11,381	.42	Prod	Pounds; USDA.

**Table 1. Industry structure of industrial production:
classification, value-added weights, and description of series—Continued**

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Creamery butter	311512	Cnn, Mnn	470	.02	Prod	Pounds; USDA.
Cheese	311513	Cnn, Mnn	6,759	.25	Prod	Pounds; USDA.
Dry, condensed, and evaporated dairy product	311514	Cnn, Mnn	5,340	.20	Prod	Pounds; evaporated, condensed, and dry milk; whey; and lactose; USDA.
Ice cream and frozen dessert	31152	Cnn	4,450	.16	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	...	53,668	1.97	...	...
Animal (except poultry) slaughtering and meat processing	311611-3	...	31,560	1.16	...	...
Beef	311611-3pt.	Cnn, Mnn	18,063	.66	Prod	Pounds; USDA.
Pork	311611-3pt.	Cnn, Mnn	13,064	.48	Prod	Pounds; USDA.
Miscellaneous meats	311611-3pt.	Cnn, Mnn	434	.02	Prod	Pounds, weighted combination of veal and lamb; USDA.
Poultry processing	311615	Cnn, Mnn	22,108	.81	Prod	Pounds; USDA.
Seafood product preparation and packaging*	3117	Cnn	4,387	.16	Hrs	...
Bakeries and tortilla	3118	Cnn	35,228	1.29	Hrs	...
Other food	3119	...	44,887	1.64	...	...
Snack food*	31191	Cnn	16,224	.59	Hrs	...
Other food*	31193-9	Cnn, Mnn	24,821	.91	Hrs	Electric power use for 1972-96.
Coffee and tea	31192	Cnn	3,842	.14	Hrs	Bags (60 kilo) green coffee roasted; George Gordon Patton and Company. 1972-2002.
Beverage and tobacco product	312	...	70,990	2.60	...	...
Beverage	3121	...	45,025	1.65	...	...
Soft drink and ice	31211	Cnn	17,601	.64	Hrs	...
Breweries	31212	Cnn	12,899	.47	Prod	Barrels (31 gallons); Alcohol and Tobacco Tax and Trade Bureau (TTB).
Wineries*	31213	Cnn	9,365	.34	Prod	Wine gallons, taxable withdrawals of still wines, effervescent wines, and brandy; TTB.
Distilleries*	31214	...	5,160	.19	...	...
Liquor bottling*	31214pt.	Cnn	1,949	.07	Prod	Gallons, bottled-in-bond; TTB.
Liquor distilling*	31214pt.	Mnn	3,211	.12	Prod	Gallons; TTB.
Tobacco	3122	...	25,965	.95	...	...

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Tobacco stemming and redrying*	31221	Mnn	533	.02	Hrs	...
Tobacco product*	31222	...	25,432	.93	...	...
Cigarette*	312221	Cnn	22,893	.84	Prod	Units; TTB.
Other tobacco product*	312229	...	2,539	.09	...	...
Cigars*	312229pt.	Cnn	893	.03	Prod	Units; TTB.
Snuff and chewing tobacco*	312229pt.	Cnn	1,646	.06	Prod	Pounds; TTB. Production worker hours for 1972-86.
Textile mills	313	...	11,416	.42	...	...
Fiber, yarn, and thread mills	3131	Mnn	2,244	.08	Prod	Bales, consumption of cotton and synthetic fibers, and thousand pounds, consumption of wool fibers; Census Bureau.
Fabric mills	3132	...	6,767	.25	...	...
Broadwoven fabric mills*	31321	...	1,540	.06	...	...
Wool fabrics*	31321pt.	Cnn, Mnn	67	.00	Hrs	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*	31321pt.	Cnn, Mnn	1,473	.05	Hrs	Square yards, cotton and synthetic fabrics, 1980-2002; Census Bureau. Long yards for 1972-79.
Other fabric mills*	31322-4	Mnn	5,227	.19	Hrs	...
Textile and fabric finishing and fabric coating mills	3133	...	2,404	.09	...	...
Textile and fabric finishing mills*	31331	Cnn, Mnn	1,795	.07	Hrs	...
Fabric coating mills*	31332	Mnn	609	.02	Hrs	...
Textile product mills	314	...	8,979	.33	...	...
Textile furnishings mills	3141	...	5,140	.19	...	...
Carpet and rug mills	31411	Cdo, Ebn, Sc, Mnd	3,549	.13	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	1,591	.06	Hrs	...
Other textile product mills	3149	...	3,839	.14	...	...
Other textile products except tire cord and fabrics*	31491,31499,9	Cnn, Sc, Sb, Mnn	3,607	.13	Hrs	...
Tire cord and tire fabric mills*	314992	Mnd	232	.01	Hrs	Millions of pounds, 1972-2002; Census Bureau.
Apparel	315	...	6,976	.26	...	...
Apparel knitting mills*	3151	...	987	.04	...	...

Table 1. Industry structure of industrial production: classification, value-added weights, and description of series—Continued

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Hosiery and sock mills*	31511	Cnn	812	.03	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	175	.01	Hrs	...
Cut and sew apparel*	3152	...	5,404	.20	...	...
Cut and sew apparel contractors*	31521	Cnn, Mnn	1,634	.06	Hrs	...
Men's and boys' cut and sew apparel*	31522	Cnn	901	.03	Hrs	...
Women's and girls' cut and sew apparel*	31523	Cnn	2,371	.09	Hrs	...
Other cut and sew apparel*	31529	Cnn	498	.02	Hrs	...
Apparel accessories and other apparel*	3159	Cnn, Mnn	585	.02	Hrs	...
Leather and allied product	316	...	2,087	.08	...	...
Leather and hide tanning and finishing*	3161	Mnn	315	.01	Hrs	Electric power use for 1972-96.
Footwear*	3162	Cnn	851	.03	Hrs	...
Other leather and allied product*	3169	Cnn, Sb, Mnd	884	.03	Hrs	...
Paper	322	...	76,480	2.80	...	...
Pulp, paper, and paperboard mills	3221	...	39,522	1.45	...	...
Pulp mills	32211	Mnn	1,859	.07	Prod	Tons; American Forest and Paper Association (AFPA); Census Bureau, 1972-81.
Paper mills	32212	...	25,697	.94	...	...
Paper (except newsprint) mills	322121	Mnn	24,217	.89	Prod	Tons; AFPA. Shipments plus inventory change for selected components, 1972-86. Census Bureau, 1972-81.
Newsprint mills*	322122	Mnn	1,480	.05	Prod	Metric tons; Pulp and Paper Products Council.
Paperboard mills	32213	Mnn	11,966	.44	Prod	Tons; AFPA. Census Bureau, 1972-81.
Converted paper product	3222	...	36,958	1.35	...	...
Paperboard container	32221	Sb, Mnn	18,417	.67	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	...	8,110	.30	...	...
Coated and laminated paper and plastics film*	322221,2	Cnn, Sc, Sb, Mnn	6,062	.22	Prod	Tons, shipments plus inventory change, coated printing and converted paper beginning in 1987; AFPA. Census Bureau, 1972-86.
Plastics, foil, and paper bag, laminated aluminum foil, surface-coated paperboard*	322223-6	Cnn, Sb, Mnn	2,048	.08	Hrs	...
Stationery product*	32223	Cnn, Sb, Mnn	2,587	.09	Prod	Tons, shipments plus inventory change, free sheet, cotton, and thin paper beginning in 1987; AFPA. Census Bureau, 1972-86.

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other converted paper product*	32229	Cnn, Sc, Sb, Mnn	7,844	.29	Prod	Tons, tissue paper; AFPA. Census Bureau, 1972-86
Printing and related support activities	323	...	50,436	1.85	...	...
Printing*	32311	Sb, Mnn	47,240	1.73	Hrs	Electric power use for 1972-96.
Support activities for printing*	32312	Sb, Mnn	3,196	.12	Hrs	...
Petroleum and coal products	324	...	78,559	2.88	...	...
Petroleum refineries	32411	...	65,623	2.40	...	...
Aviation fuel and kerosene	32411pt.	Sb	6,866	.25	Prod	Barrels, aviation gasoline, jet fuel, and kerosene; Department of Energy (DOE).
Distillate fuel oil	32411pt.	Cne	16,275	.60	Prod	Barrels, distillate fuel oil; DOE.
Automotive gasoline	32411pt.	Cne	31,597	1.16	Prod	Barrels, automotive gasoline; DOE.
Refinery nonfuel materials*	32411pt.	Mnn	4,807	.18	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	2,226	.08	Prod	Barrels, residual fuel oil; DOE.
Refinery fuel n.e.c.*	32411pt.	Mec	799	.03	Prod	Barrels, liquefied refinery gases, ethane/ethylene, still gas, and petroleum coke; DOE.
Refinery products n.e.c.*	32411pt.	Sb	3,054	.11	Prod	Barrels, asphalt, road oil, and lubricants; DOE.
Paving, roofing, and other petroleum and coal products	32412,9	Cnn, Sc, Sb, Mnn	12,936	.47	Hrs	...
Chemical	325	...	328,794	12.04	...	...
Basic chemical	3251	...	66,655	2.44	...	...
Organic chemicals	32511,9	...	42,591	1.56	...	Pounds and gallons, weighted combination of acrylonitrile, benzene, finished butadiene, cumene, ethylene, ethylene oxide, para-xylene, propylene, and styrene, 1992-96; National Petroleum Refiners Association. Production worker hours for 1972-91.
Ethyl alcohol*	325193	Sb, Mec	3,807	.14	Prod	Barrels, ethanol; Department of Energy.
Organic chemicals ex. ethanol*	32511,9 ex 325193	Sb, Mnn	38,784	1.42	Qprod	Pounds and gallons, weighted combination of acrylonitrile, benzene, finished butadiene, cumene, ethylene, ethylene oxide, para-xylene, propylene, and styrene; National Petroleum Refiners Association.
Basic inorganic chemicals	32512-8	...	24,064	.88	...	...
Industrial gas	32512	Sb, Mnn	4,931	.18	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	32518	...	16,066	.59	...	...
Alkalies and chlorine	325181	Sb, Mnn	2,857	.10	Prod	Tons, sodium hydroxide liquid and chlorine gas; The Chlorine Institute. Census Bureau, 1972-86.
Carbon black*	325182	Sb, Mnn	419	.02	Hrs	...

Table 1. Industry structure of industrial production: classification, value-added weights, and description of series—Continued

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
All other basic inorganic chemical	325188	...	12,791	.47	...	...
Acids, phosphates, and sulfates	325188pt.	Sb, Mnn	1,491	.05	Qprod	Tons, sulfuric acid, hydrochloric acid, aluminum sulfate, sodium phosphate tripoly, phosphorus, hydrofluoric acid, and calcium phosphate; Census Bureau. Monthly data for 1972-90.
Nuclear materials*	325188pt.	Mec	5,553	.20	Prod	Kilowatt sales to facilities producing nondefense nuclear materials; Department of Energy, individual facilities.
Other inorganic chemicals	325188pt.	Sb, Mnn	5,748	.21	Qprod	Tons, calcium carbide, hydrogen peroxide, sodium chlorate, sodium silicate, and potassium pyrophosphate; Census Bureau. Monthly data for 1972-90.
Synthetic dye and pigment	32513	Sb, Mnn	3,067	.11	Hrs	Tons, titanium dioxide, 1972-2002; Census Bureau.
Resin, synthetic rubber, and artificial and synthetic fibers and filaments	3252	...	27,239	1.00	...	...
Resin and synthetic rubber	32521	...	25,447	.93	...	...
Plastics material and resin	325211	Mnn	23,057	.84	Prod	Pounds, thermosetting and thermoplastic resins; American Chemistry Council.
Synthetic rubber	325212	Mnn	2,390	.09	Hrs	Tons; Rubber Manufacturers Association. 1972-2002
Artificial and synthetic fibers and filaments	32522	Mnn	1,792	.07	Prod	Pounds, noncellulosic, rayon, and acetate fibers; Fiber Economics Bureau.
Pesticide, fertilizer, and other agricultural chemical	3253	...	16,142	.59	...	...
Fertilizer*	32531	Sb, Mnn	8,705	.32	Qprod	Tons, synthetic anhydrous ammonia, ammonia nitrate, ammonium sulfate, nitrogen solutions, nitric acid, phosphoric acid, phosphatic fertilizer materials, and urea; Census Bureau. Monthly data for 1972-90.
Pesticide and other agricultural chemical*	32532	Cnn, Sb, Mnn	7,438	.27	Hrs	...
Pharmaceutical and medicine	3254	...	140,568	5.15	...	...
Medicinal, botanical, biological product*	325411,3,4	Cnn, Mnn	34,403	1.26	Hrs	...
Pharmaceutical preparation*	325412	Cnn, Mnn	106,165	3.89	Prod	Fisher quantity index, with model-based inventory adjustment; IMS-Health, FRB. Production worker hours for 1972-93.
Paints, soaps and toiletries, and other chemical products	3255-9	...	78,189	2.86	...	...
Paints and other chemical products	3255,9	...	33,402	1.22	...	...
Paint, coating, and adhesive	3255	...	14,000	.51	...	...
Paint and coating	32551	...	9,703	.36	...	...
Construction paints*	32551pt.	Sc	5,605	.21	Qprod	Gallons, architectural and special-purpose coatings; Census Bureau. Monthly data for 1972-90.
Industrial paints*	32551pt.	Mnd	4,099	.15	Qprod	Gallons, product coatings and special-purpose coatings; Census Bureau. Monthly data for 1972-90.
Adhesive*	32552	Cnn, Sc, Sb, Mnn	4,297	.16	Hrs	...
Other chemical product and preparation*	3259	Cnn, Sb, Mnn	19,402	.71	Hrs	Electric power use for 1972-96.

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Soap, cleaning compound, and toilet preparation	3256	Cnn, Sb, Mnn	44,787	1.64	Hrs	Electric power use for 1972-96.
Plastics and rubber products	326	...	82,288	3.01	...	...
Plastics product	3261	...	67,342	2.47	...	...
Plastics bottle*	32616	Sb, Mnn	4,878	.18	Hrs	...
Plastics product*	32611-5,9	Cdo, Sc, Sb, Mnd	62,464	2.29	Hrs	...
Rubber product	3262	...	14,947	.55	...	...
Tire	32621	...	7,157	.26	...	...
Original equipment tires, business*	32621pt.	Mnd	282	.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	468	.02	Prod	Units, passenger car tires (radial and other); RMA.
Replacement tires, business*	32621pt.	Sb	2,419	.09	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial and utility; RMA.
Replacement tires, consumer*	32621pt.	Cda	3,987	.15	Prod	Units, passenger car tires (radial and other); RMA.
Rubber products ex. tires	32622,9	...	7,790	.29	...	...
Rubber and plastics hoses and belting*	32622	Cdo, Sb, Mnd	1,883	.07	Hrs	Electric power use for 1972-96.
Other rubber product*	32629	Cdo, Sb, Mnd	5,906	.22	Hrs	Electric power use for 1972-96.
Other manufacturing	1133, 5111	...	99,414	3.64	...	...
Newspaper, periodical, book, and directory publishers	5111	...	95,642	3.50	...	...
Newspaper publishers	51111	...	29,265	1.07	...	Tons, newsprint consumption; Pulp and Paper Products Council. American Newspaper Publishers Association, 1972-86.
Newspaper advertising*	51111pt.	Sb, Mnn	21,409	.78	Prod	Index derived by deducting circulation from newsprint consumption.
Newspaper circulation*	51111pt.	Cnn	7,856	.29	Est	Federal Reserve estimates based on Editor & Publisher annual circulation data.
Periodical, book, and other publishers	51112-9	...	66,377	2.43	...	...
Book Publishers*	51113	Cnn, Sb, Mnn	18,934	.69	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
Periodicals and other publishers*	51112,4,9	...	47,443	1.74	...	Series begins in 1987. Grouped with book publishers and based on production worker hours for 1972-86
Periodical Publishers*	51112	Cnn, Sb, Mnn	27,316	1.00	Hrs	Series begins in 1987. Grouped with book and other non-newspaper publishers and based on production worker hours for 1972-86
Other publishers*	51114,9	Cnn, Sb, Mnn	20,126	.74	Hrs	Series begins in 1987. Grouped with book and periodical publishers and based on production worker hours for 1972-86
Logging	1133	Mnd	3,773	.14	Hrs	...

Table 1. Industry structure of industrial production: classification, value-added weights, and description of series—Continued

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Mining	21	...	321,891	11.79	...	...
Oil and gas extraction	211	...	205,565	7.53	...	...
Crude petroleum and natural gas extraction	211111	...	196,286	7.19	...	...
Crude oil	211111pt.	...	100,193	3.67	...	...
Texas crude oil*	211111pt.	Mep	20,599	.75	Prod	Barrels; Department of Energy (DOE).
Alaska and California crude oil*	211111pt.	Mep	22,576	.83	Prod	Barrels; DOE.
Louisiana and other crude oil*	211111pt.	Mep	57,017	2.09	Prod	Barrels; DOE.
Natural gas	211111pt.	Mep	96,094	3.52	Prod	Billion cubic feet, marketed production; Department of Energy.
Natural gas liquid extraction	211112	...	9,279	.34	...	...
Propane*	211112pt.	Cne	542	.02	Prod	Barrels, at gas-processing plants; Department of Energy.
Liquefied petroleum*	211112pt.	Mec	8,736	.32	Prod	Barrels, natural gas liquids minus propane at gas-processing plants; Department of Energy.
Mining (except oil and gas)	212	...	74,388	2.72	...	...
Coal mining	2121	Mep	36,111	1.32	Prod	Tons, anthracite and bituminous, including lignite; Btu weighted; DOE.
Metal ore mining	2122	...	14,918	.55	...	...
Iron ore mining	21221	Mnd	994	.04	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	...	5,728	.21	...	...
Gold ore mining*	212221	Mnd	5,555	.20	Prod	Kilograms, gold ores; U.S. Geological Survey.
Silver ore mining*	212222	Mnd	173	.01	Prod	Metric tons, silver ores; U.S. Geological Survey.
Copper, nickel, lead, and zinc mining	21223	...	6,380	.23	...	...
Lead ore and zinc ore mining*	212231	Mnd	1,411	.05	Prod	Metric tons, recoverable lead and zinc; U.S. Geological Survey.
Copper ore and nickel ore mining*	212234	Mnd	4,969	.18	Prod	Metric tons, recoverable copper; U.S. Geological Survey.
Other metal ore mining*	21229	Mnd	1,816	.07	Prod	Metric tons, molybdenum concentrate; U.S. Geological Survey
Nonmetallic mineral mining and quarrying	2123	...	23,359	.86	...	...
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21231,2	...	19,587	.72	...	...
Stone mining and quarrying*	21231	Sc, Mnd	12,259	.45	Qprod	Metric tons, crushed stone; U.S. Geological Survey. Railroad traffic for 1982-87; Association of American Railroads. Production worker hours for 1972-81.

Groups and series	Classification		Value added in 2009		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21232	...	7,328	.27	...	...
Sand and gravel mining*	212321,2	Sc, Mnd	6,049	.22	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, Mnn	1,279	.05	Hrs	...
Other nonmetallic mineral mining and quarrying*	21239	Mnn	3,772	.14	Prod	Metric tons, phosphate rock, soda ash, sulfur frasche. U.S. Geological Survey
Support activities for mining	213	...	41,937	1.54	...	...
Drilling oil and gas wells	213111	Es	12,504	.46	Prod	Number of rotary rigs running, weighted average of off-shore and on-shore; Baker Hughes.
Support activities for oil and gas operations*	213112	Mep	27,096	.99	Prod	Well servicing units; Dresser Oil Tools, and workover rigs; Baker Hughes.
Support activities for coal, metal, and nonmetallic minerals (except fuels)*	213113-5	Mnd	2,337	.09	Prod	Average of indexed underlying data for series in NAICS 212; U.S. Geological Survey, Bureau of Labor Statistics.
Utilities	2211, 2	...	323,558	11.85	...	...
Electric power generation, transmission, and distribution	2211	...	274,225	10.04	...	...
Electric power generation	22111	...	110,216	4.04	...	...
Hydroelectric power generation	221111	Mep	7,604	.28	Prod	Kilowatt hours, includes pumped storage; Department of Energy (DOE).
Fossil fuel and other electric power generation	221112,9	Mec	55,315	2.03	Prod	Kilowatt hours, conventional steam and internal combustion; DOE.
Nuclear electric power generation	221113	Mep	47,297	1.73	Prod	...
Electric power transmission, control, and distribution	22112	...	164,009	6.01	...	...
Commercial and other electricity sales	22112pt.	Sb	68,295	2.50	Prod	Kilowatt hours to commercial and other; DOE.
Industrial electricity sales	22112pt.	Mec	24,858	.91	Prod	Kilowatt hours to industrial users; DOE.
Residential electricity sales	22112pt.	Cne	70,856	2.59	Prod	Kilowatt hours; DOE.
Natural gas distribution	2212	...	49,333	1.81	...	...
Commercial and other gas sales	2212pt.	Sb	8,762	.32	Prod	Cubic feet, sales to commercial establishments; DOE. American Gas Association, 1972-77.
Industrial gas sales	2212pt.	Mec	3,935	.14	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	24,448	.90	Prod	Cubic feet, sales to residences; DOE. American Gas Association, 1972-77.
Gas transmission	2212pt.	Mec	12,188	.45	Prod	Cubic feet, natural gas sold; DOE. American Gas Association, 1972-77.

