

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
<b>Total index</b>			<b>2,464,336</b>	<b>100.00</b>		<b>Series begins in 1919.</b>
<b>Manufacturing (SIC)</b>			2,043,891	82.94		Series begins in 1919.
Manufacturing (NAICS)			1,928,276	78.25		
Durable manufacturing			1,066,201	43.27		
Nondurable manufacturing			862,075	34.98		
Other manufacturing			115,615	4.69		
Mining			174,559	7.08		
Utilities			245,886	9.98		

#### 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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<b>Manufacturing (SIC)</b>			2,043,891	82.94		Series begins in 1919.
<b>Manufacturing (NAICS)</b>			1,928,276	78.25		
<b>Durable manufacturing</b>			1,066,201	43.27		
<b>Wood product</b>	321		36,571	1.48		
Sawmills and wood preservation	3211	Sc, Mnd	8,404	.34	Prod	Board feet; American Forest & Paper Association.
Plywood and misc. wood products	3212,9		28,167	1.14		
Veneer, plywood, and engineered wood product	3212		8,872	.36		
Veneer and plywood	321211,2	Cdo, Sc, Sb, Mnd	2,762	.11	Prod	Square feet, structural panels; APA—The Engineered Wood Association.
Engineered wood member*	321213,4	Cdo, Sc, Sb	3,161	.13	Hrs	
Reconstituted wood product	321219	Cdo, Sc, Mnd	2,949	.12	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		19,295	.78		
Millwork	32191		10,117	.41		
Flooring*	32191pt.	Cdo, Sc, Sb, Mnd	1,109	.05	Prod	Board feet; The Wood Flooring Manufacturers Association, The Maple Flooring Manufacturers Association.
Other millwork*	32191pt.	Cdo, Sc, Sb, Mnd	9,008	.37	Hrs	
Wood container and pallet	32192	Cdo, Sb, Mnn	2,352	.10	Hrs	
All other wood product	32199		6,826	.28		
Manufactured home (mobile home)	321991	Es	2,558	.10	Prod	Units; Manufactured Housing Institute.
Other miscellaneous wood product*	321992,9	Cdo, Sc, Sb, Mnd	4,268	.17	Hrs	
<b>Nonmetallic mineral product</b>	327		54,768	2.22		
Clay, lime, gypsum, and misc. nonmetallic mineral products	3271,4,9		17,707	.72		
Clay and misc. nonmetallic mineral products	3271,9		15,071	.61		
Clay product and refractory	3271		5,337	.22		
Pottery, ceramics, and plumbing fixture	32711		2,111	.09		
Vitreous china plumbing fixture and china and earthenware bathroom accessories*	327111	Cdo, Sc	789	.03	Hrs	
Vitreous china, fine earthenware, and other pottery product*	327112	Cdo	664	.03	Hrs	

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	NAICS	Market	Millions of dollars	Proportion		
Porcelain electrical supply*	327113	Sc, Mnd	657	.03	Hrs	
Clay building material and refractories	32712		3,226	.13		
Brick and structural clay tile*	327121	Cdo, Sc	1,375	.06	Qprod	Units, building or common and face brick; Census Bureau. Monthly data for 1972-90.
Ceramic tile and refractory*	327122,4,5	Sc, Mnd	1,703	.07	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	149	.01	Qprod	Tons, vitrified clay sewer pipe; Census Bureau. Monthly data for 1972-90.
Other nonmetallic mineral product	3279	Cdo, Sc, Mnd	9,733	.39	Hrs	Electric power use for 1972-96.
Lime and gypsum product	3274		2,636	.11		
Lime*	32741	Sc, Sb, Mnd	549	.02	Hrs	Electric power use for 1972-96.
Gypsum product*	32742	Cdo, Sc, Sb, Mnd	2,088	.08	Prod	Tons, calcined gypsum; U.S. Geological Survey. Production worker hours for 1972-76.
Glass and glass product	3272		12,594	.51		
Flat glass*	327211	Mnd	1,730	.07	Hrs	
Other pressed and blown glass and glassware*	327212	Cdo, Sc, Sb, Mnd	2,628	.11	Hrs	Electric power use for 1972-96.
Glass container	327213	Mnn	2,648	.11	Prod	Gross, glass containers; Census Bureau.
Glass product made of purchased glass*	327215	Cdo, Sc, Sb, Mnd	5,588	.23	Hrs	Electric power use for 1972-96.
Cement and concrete product	3273		24,466	.99		
Cement	32731	Sc, Mnd	4,564	.19	Prod	Tons, shipments, portland cement, with model-based inventory adjustment; U.S. Geological Survey, FRB.
Concrete and product	32732-9	Cdo, Sc, Sb	19,903	.81	Hrs	
<b>Primary metal</b>	331		54,194	2.20		
Iron and steel products	3311,2		22,660	.92		
Basic iron and steel*			3,922	.16		
Pig iron	3311,2pt.	Mnd	2,142	.09	Prod	Tons; American Iron and Steel Institute (AISI)
Raw steel	3311,2pt.	Mnd	1,334	.05	Prod	Tons, weighted combination of carbon, alloy, and stainless.
Coke and products	3311,2pt.	Mec	446	.02	Qprod	Tons, coke; Department of Energy. Monthly data for 1972-80.
Steel mill products*			18,738	.76		Tons. Shipments (AISI) plus inventory change (model-based by FRB beginning in 2005, survey-based from Census through 2004).
Construction steel	3311,2pt.	Sc	2,388	.10	Prod	Tons, steel for construction, including maintenance and contractors' products.

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Consumer durable steel	3311,2pt.	Mnd	2,595	.11	Prod	Tons, steel for autos, appliances, utensils, and cutlery.
Can and closure steel	3311,2pt.	Mnd	536	.02	Prod	Tons.
Equipment steel	3311,2pt.	Mnd	1,284	.05	Prod	Tons.
Miscellaneous steel	3311,2pt.	Mnd	11,934	.48	Prod	Tons of steel, all other classifications, including warehouses and exports.
Alumina and aluminum production and processing	3313		9,080	.37		
Alumina refining*	331311	Mnd	143	.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	1,716	.07	Prod	Tons, primary aluminum ingots; Aluminum Association.
Secondary smelting and alloying of aluminum	331314	Mnd	675	.03	Prod	Tons, aluminum alloys and brass ingot at secondary smelters and secondary lead; U.S. Geological Survey.
Misc. aluminum materials	331315,9	Mnd	4,414	.18	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	2,132	.09	Prod	Pounds, extruded shapes; Census Bureau. Net shipments for 1972-86.
Nonferrous metal (except aluminum) production and processing	3314		8,005	.32		
Nonferrous metal (except aluminum) smelting and refining	33141		1,575	.06		
Primary smelting and refining of copper	331411		621	.03		
Copper refining*	331411pt.	Mnd	352	.01	Prod	Tons, refined copper; American Bureau of Metal Statistics.
Copper smelting*	331411pt.	Mnd	269	.01	Prod	Tons, scrap and primary copper; American Bureau of Metal Statistics.
Primary smelting and refining of nonferrous metal (except copper and aluminum)	331419	Mnd	954	.04	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	3,197	.13	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	3,233	.13	Hrs	
Foundries	3315		14,449	.59		
Ferrous metal foundries*	33151	Mnd	8,187	.33	Hrs	Electric power use for 1972-96.
Nonferrous metal foundries*	33152		6,262	.25		
Aluminum foundries*	331521,4	Mnd	4,185	.17	Qprod	Pounds, shipments of diecastings, sand castings, permanent molds, and other aluminum castings, with model-based inventory adjustment; Aluminum Association, FRB. 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	2,076	.08	Hrs	

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
<b>Fabricated metal product</b>	332		137,232	5.57		
Forging and stamping	3321	Mnd	10,951	.44	Hrs	
Cutlery and handtool	3322	Cdo, Ebn, Sc, Sb, Mnd	6,250	.25	Hrs	
Architectural and structural metals	3323	Sc, Mnd	30,294	1.23	Hrs	
Boiler, tank, and shipping container*	3324		10,190	.41		
Boilers, heat exchangers, and metal tanks*	33241,2	Ebn, Sc, Mnd	4,674	.19	Hrs	
Metal can, box, and other metal container (light gauge)*	33243	Mnn	5,516	.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	5,837	.24	Hrs	Electric power use for 1972-96.
Spring and wire product	3326	Cdo, Sc, Sb, Mnd	5,012	.20	Hrs	
Machine shops; turned product; and screw, nut, and bolt	3327	Sb, Mnd	27,781	1.13	Hrs	Electric power use for 1972-96.
Coating, engraving, heat treating, and allied activities	3328	Sb, Mnd	10,356	.42	Hrs	
Other fabricated metal product	3329		30,561	1.24		
Metal valve*	33291	Ebn, Sc, Sb, Mnd	12,651	.51	Hrs	
All other fabricated metal product*	33299		17,910	.73		
Ball and roller bearing	332991	Sb, Mnd	3,629	.15	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	3,956	.16	Hrs	
Miscellaneous fabricated metal products*	332996-9	Cdo, Ebn, Sc, Sb, Mnd	10,325	.42	Hrs	
<b>Machinery</b>	333		126,232	5.12		
Agriculture, construction, and mining machinery	3331		20,921	.85		
Agricultural implement	33311		10,110	.41		
Farm machinery and equipment	333111	Ebn, Sb	7,384	.30	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	2,726	.11	Hrs	

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Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Construction machinery	33312	Ebn, Mnd	7,424	.30	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	3,387	.14	Hrs	
Industrial machinery	3332		15,156	.62		Deflated billings, front-end semiconductor equipment, with model-based inventory adjustment; Semiconductor Equipment and Materials International, FRB. Production worker hours for 1972-91.
Semiconductor machinery*	333295	Ebn, Mnd	4,252	.17	Prod	
Industrial machinery ex. semiconductor fabrication*	33321,2,91-4,8	Ebn, Mnd	10,904	.44	Hrs	
Commercial and service industry machinery and other general purpose machinery	3333,9		40,936	1.66		
Commercial and service industry machinery*	3333	Cdo, Ebn, Sc, Sb, Mnd	11,633	.47	Hrs	
Other general purpose machinery*	3339	Ebn, Sc, Mnd	29,303	1.19	Hrs	
HVAC, metalworking, and power transmission machinery	3334-6		49,220	2.00		
Ventilation, heating, air-conditioning, and commercial refrigeration equipment	3334		16,543	.67		
Air purification equip., fans, and blowers*	333411,2	Ebn, Sc, Sb, Mnd	2,303	.09	Hrs	Electric power use for 1972-96.
Heating equipment (except warm air furnaces)*	333414		2,397	.10		
Boilers, heaters, and furnaces*	333414pt.	Cdo, Sc	1,621	.07	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	775	.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; GAMA, FRB. Production worker hours for 1972-81.
Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment*	333415		11,843	.48		
Room air conditioners*	333415pt.	Cdo	512	.02	Prod	Units; Association of Home Appliance Manufacturers (AHAM).
Warm air furnaces*	333415pt.	Cdo, Ebn, Sc, Sb	1,370	.06	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.

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Compressors, condensers, and other parts*	333415pt.	Mnd	5,638	.23	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.	Cdo, Ebn, Sc, Sb	4,324	.18	Prod	Units; Air-Conditioning and Refrigeration Institute.
Metalworking machinery	3335		15,437	.63		
Machine tools*	333512,3	Ebn, Mnd	2,238	.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	13,199	.54	Hrs	
Engine, turbine, and power transmission equipment	3336		17,241	.70		
Turbine and turbine generator set units*	333611	Ebn, Ed, Mnd	8,236	.33	Hrs	
Engines and power transmission equipment*	333612-8		9,005	.37		
Speed changers, drives, gears, and power transmission equipment*	333612,3	Mnd	2,858	.12	Hrs	
Engines*	333618	Mnd	6,147	.25	Prod	Units, diesel engines; Stark Communications. Series begins in 1992. Grouped with other power transmission equipment as production worker hour series, 1972-91.
<b>Computer and electronic product</b>	334		203,514	8.26		
Computer and peripheral equipment	3341		30,489	1.24		
Electronic computer*	334111		19,735	.80		
Computers, business*	334111pt.	Ebi, Mnd	15,829	.64	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1972-91.
Computers, consumer*	334111pt.	Cdo, Mnd	3,905	.16	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1982-91. Series begins in 1982.
Computer storage and terminals*	334112,3		3,752	.15		
Computer storage and terminals, business*	334112,3pt.	Ebi, Mnd	2,839	.12	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1972-91.
Computer storage and terminals, consumer*	334112,3pt.	Cdo, Mnd	913	.04	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1982-91. Series begins in 1982.
Other computer peripheral equipment*	334119		7,003	.28		
Computer printers, business*	334119pt.	Ebi, Mnd	5,373	.22	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1972-91.
Computer printers, consumer*	334119pt.	Cdo, Mnd	1,630	.07	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992-3. Production worker hours for 1982-91. Series begins in 1982.

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Communications equipment	3342		30,557	1.24		
Telephone apparatus*	33421		13,125	.53		
Routers, switches, and hubs*	33421pt.	Ebi, Sb	6,123	.25	Qprod	Fisher quantity index; Gartner, Inc. Series begins in 1992.
Other telephone apparatus*	33421pt.	Ebi, Sb	7,002	.28	Hrs	
Broadcasting, wireless, and other communications equipment*	33422,9	Cdo, Ebi, Ed, Sc, Mnd	17,433	.71	Hrs	
Audio and video equipment and media*	3343,6		7,408	.30		
Audio and video equipment	3343	Cdo, Mnd	3,193	.13	Prod	Units, direct view color television sets, 25 inches and over since 1996; Electronic Industries Alliance (EIA). 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	4,214	.17	Hrs	
Semiconductor and other electronic component	3344		72,776	2.95		
Semiconductor and related device*	334413		49,122	1.99		Production worker hours for 1972-91.
Optoelectronics and discretes*	334413pt.	Sb, Mnd	2,907	.12	Prod	Fisher quantity index; Semiconductor Industry Association. Series begins in 1992.
MOS logic ex. MPUs*	334413pt.	Sb, Mnd	8,217	.33	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
MOS memories*	334413pt.	Sb, Mnd	10,243	.42	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc.; Bureau of Labor Statistics. Series begins in 1992.
MPUs*	334413pt.	Sb, Mnd	21,690	.88	Prod	Fisher quantity index; Semiconductor Industry Association; In-Stat/MDR; Bureau of Labor Statistics. Series begins in 1992.
Other integrated circuits*	334413pt.	Sb, Mnd	6,065	.25	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
Electronic components ex. chips*			23,654	.96		
Electron tube*	334411	Sb, Mnd	770	.03	Prod	Units, factory sales of picture tubes, with model-based inventory adjustment; EIA, FRB.
Electronic components ex. chips and tubes*			22,884	.93		
Bare printed circuit board*	334412	Sb, Mnd	3,373	.14	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	9,603	.39	Hrs	



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Printed circuit assembly (electronic assembly)*	334418	Ebi, Sb, Mnd	9,908	.40	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		62,283	2.53		
Electromedical and electrotherapeutic apparatus*	334510	Ebi, Sb	11,144	.45	Hrs	
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument*	334511	Ebi, Ed, Mnd	24,453	.99	Hrs	
Measuring and controlling instruments and parts*	334512-9	Cdo, Ebi, Ed, Sc, Sb, Mnd	26,685	1.08	Hrs	
<b>Electrical equipment, appliance, and component</b>	335		52,298	2.12		
Household appliance	3352		10,667	.43		
Small electrical appliance	33521		2,196	.09		
Electric housewares and household fan*	335211	Cdo, Sc	997	.04	Prod	Deflated shipments, with model-based inventory adjustment; AHAM, FRB. Production work hours for 1972-91.
Household vacuum cleaner*	335212	Cdo	1,199	.05	Qprod	Units, sales, with model-based inventory adjustment; AHAM, Vacuum Cleaner Manufacturers Association, FRB. Federal Reserve estimates for 1985-86. Monthly data for 1972-76.
Major appliance	33522		8,471	.34		
Household cooking appliance*	335221	Cdo, Ebn	1,642	.07	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		2,613	.11		
Home freezers*	335222pt.	Cdo, Ebn	243	.01	Prod	Units, upright and chest freezers; AHAM.
Refrigerators*	335222pt.	Cdo, Ebn	2,370	.10	Prod	Units; AHAM.
Household laundry equipment*	335224		2,248	.09		
Clothes dryers*	335224pt.	Cdo	796	.03	Prod	Units, electric and gas dryers; AHAM. Shipments of gas dryers prior to 1988, AHAM.
Washing machines*	335224pt.	Cdo	1,452	.06	Prod	Units, automatic washers. Automatic and wringer washers for 1972-1983; AHAM.
Other major household appliance*	335228		1,968	.08		
Dishwashers and disposers*	335228pt.	Cdo, Ebn, Sc, Mnd	982	.04	Prod	Units, weighted combination of built-in and portable dishwashers and disposers; AHAM.
Electric water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	392	.02	Prod	Units, shipments, residential electric storage water heaters, with model-based inventory adjustment; GAMA, FRB.

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Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Gas water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	594	.02	Prod	Units, shipments, residential gas-fired automatic storage water types, with model-based inventory adjustment; GAMA, FRB.
Electrical equipment except appliances	3351,3,9		41,630	1.69		
Electric lighting equipment	3351	Cdo, Sc, Sb, Mnd	6,726	.27	Hrs	Electric power use for 1972-96.
Electrical equipment	3353	Ebn, Sb, Mnd	16,476	.67	Hrs	Electric power use for 1972-96.
Other electrical equipment and component	3359		18,428	.75		
Battery	33591		3,058	.12		
Storage battery*	335911	Cda, Sb, Mnd	1,517	.06	Prod	Units, shipments, automotive replacement batteries, with model-based inventory adjustment; Battery Council International, FRB.
Primary battery*	335912	Cne	1,541	.06	Hrs	
Communication and energy wire and cable	33592	Sc, Mnd	4,357	.18	Hrs	
Other electrical equipment	33593,9	Cdo, Ebn, Sc, Mnd	11,013	.45	Hrs	Electric power use for 1972-96.
<b>Transportation equipment</b>	336		274,691	11.15		
Motor vehicles and parts	3361-3		188,090	7.63		
Motor vehicle	3361		94,387	3.83		
Automobile and light duty motor vehicle	33611		91,877	3.73		
Automobile	336111		21,888	.89		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	3,960	.16	Prod	
Automobile, consumer*	336111pt.	Cda	17,928	.73	Prod	
Light truck and utility vehicle	336112		69,989	2.84		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	6,151	.25	Prod	

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Light trucks, consumer*	336112pt.	Cda	63,838	2.59	Prod	Units; Ward's Communications, allocated to medium and heavy classes based on share of factory shipments.
Heavy duty truck	33612		2,510	.10		
Heavy trucks*	33612pt.	Ebt	1,133	.05	Prod	
Medium trucks*	33612pt.	Ebt	1,377	.06	Prod	
Motor vehicle body and trailer	3362		9,469	.38		
Motor vehicle body*	336211	Cda, Ebt, Mnd	3,269	.13	Hrs	
Truck trailer	336212	Ebt	1,626	.07	Prod	Units, shipments, with model-based inventory adjustment; ACT Research, FRB. Census Bureau before 1992.
Motor home	336213	Cda	1,864	.08	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	2,710	.11	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		84,234	3.42		
Motor vehicle gasoline engine and engine parts*	33631		12,627	.51		
Motor vehicle gasoline engine and engine parts, original equip.*	33631pt.	Mnd	8,715	.35	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	3,912	.16	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		12,590	.51		
Motor vehicle electrical and electronic equipment, original equip.*	33632pt.	Mnd	7,289	.30	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle electrical and electronic equipment, repair*	33632pt.	Cda	5,301	.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.
Motor vehicle steering and suspension components (except spring)*	33633		4,946	.20		

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Motor vehicle steering and suspension components (except spring), original equip.*	33633pt.	Mnd	3,451	.14	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	1,495	.06	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		4,741	.19		
Motor vehicle brake system, original equip.*	33634pt.	Mnd	3,212	.13	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.
Motor vehicle brake system, repair*	33634pt.	Cda	1,529	.06	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		13,422	.54		
Motor vehicle transmission and power train parts, original equip.*	33635pt.	Mnd	9,075	.37	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	4,347	.18	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		5,622	.23		
Motor vehicle seating and interior trim, original equip.*	33636pt.	Mnd	3,460	.14	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).
Motor vehicle seating and interior trim, repair*	33636pt.	Cda	2,163	.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; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle metal stamping*	33637	Mnd	12,363	.50	Hrs	
Other motor vehicle parts*	33639		17,924	.73		
Motor vehicle air-conditioning*	336391		2,468	.10		
Motor vehicle air-conditioning, original equip.*	336391pt.	Mnd	1,553	.06	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	916	.04	Est	Federal Reserve estimates.
All other motor vehicle parts*	336399		15,455	.63		
All other motor vehicle parts, original equip.*	336399pt.	Mnd	10,294	.42	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications (assemblies).

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
All other motor vehicle parts, repair*	336399pt.	Cda	5,161	.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.
Aerospace and miscellaneous transportation eq.	3364-9		86,601	3.51		
Aerospace product and parts	3364		65,389	2.65		
Aircraft and parts	336411-3		55,744	2.26		
Aircraft*	336411		30,453	1.24		
Civilian aircraft*	336411pt.	Ebt	18,682	.76	Prod	Forward-looking weighted average of passenger aircraft completed and production worker hours; Boeing, Bureau of Labor Statistics.
Military aircraft*	336411pt.	Ed	11,771	.48	Hrs	
Aircraft engine, parts, and auxiliary equipment*	336412,3		25,291	1.03		
Aircraft equipment, civilian*	336412,3pt.	Ebt	3,941	.16	Hrs	
Aircraft equipment, military*	336412,3pt.	Ed	2,382	.10	Hrs	
Aircraft parts*	336412,3pt.	Mnd	18,968	.77	Hrs	
Guided missiles, space vehicles, and parts*	336414-9		9,645	.39		
Guided missile and space vehicle*	336414	Ed	7,055	.29	Hrs	
Guided missile and space vehicle parts and equipment*	336415,9	Ed, Mnd	2,590	.11	Hrs	
Railroad eq., ships and boats, and other transportation equipment	3365-9		21,213	.86		
Railroad rolling stock	3365	Ebt, Sb, Mnd	2,907	.12	Hrs	
Ship and boat building	3366		12,636	.51		
Ship building and repairing*	336611		8,620	.35		
Ship building and repairing, civilian*	336611pt.	Ebt	1,956	.08	Hrs	
Ship building and repairing, military*	336611pt.	Ed	6,665	.27	Hrs	
Boat building*	336612	Cda	4,016	.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	5,669	.23	Hrs	
<b>Furniture and related product</b>	337		43,531	1.77		
Household and institutional furniture and kitchen cabinet	3371	Cdo, Ebn, Sc, Mnd	25,150	1.02	Hrs	
Office furniture (including fixtures)*	3372	Ebn, Sc	14,121	.57	Hrs	Electric power use for 1972-96.

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other furniture related product*	3379		4,260	.17		
Mattress*	33791	Cdo, Ebn	2,865	.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	1,395	.06	Hrs	
<b>Miscellaneous</b>	339		83,172	3.38		
Medical equipment and supplies	3391	Cnn, Ebn, Sb, Mnn	47,105	1.91	Hrs	
Other miscellaneous*	3399		36,067	1.46		
Miscellaneous consumer goods*	33991-3	Cdo	13,101	.53	Hrs	
Miscellaneous business goods*	33994,5	Cdo, Ebn, Sb, Mnd	8,235	.33	Hrs	
All other miscellaneous*	33999	Cdo, Ebn, Sb, Mnd	14,732	.60	Hrs	
<b>Nondurable manufacturing</b>			862,075	34.98		
<b>Food</b>	311		211,697	8.59		
Animal food	3111		11,145	.45		
Dog and cat food*	311111	Cnn	6,721	.27	Hrs	
Other animal food*	311119	Sb	4,425	.18	Hrs	
Grain and oilseed milling	3112		19,843	.81		
Flour milling and malt*	31121	Cnn, Mnn	2,824	.11	Qprod	Sacks (cwt), wheat flour; Census Bureau.
Starch and vegetable fats and oils*	31122		8,911	.36		
Wet corn milling*	311221		3,352	.14		
Corn oil*	311221pt.	Cnn	349	.01	Prod	Pounds; Census Bureau.
Corn syrup and starch*	311221pt.	Mnn	3,004	.12	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	3,861	.16	Prod	Pounds, crude oils, cakes, and meals from cottonseed and soybean; Census Bureau.
Fats and oils refining and blending*	311225	Cnn, Sb, Mnn	1,698	.07	Prod	Pounds, margarine and baking/frying fats, soybean, salad and cooking oils; Census Bureau.
Breakfast cereal*	31123	Cnn	8,108	.33	Hrs	
Sugar and confectionery product	3113		13,785	.56		
Sugar*	31131	Cnn, Mnn	2,519	.10	Prod	Tons, processed beet sugar and refined cane sugar; Department of Agriculture (USDA). Quarterly data for 1982-91.

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Chocolate and confectionery*	31132-4	Cnn	11,266	.46	Hrs	
Fruit and vegetable preserving and specialty food	3114	Cnn	28,818	1.17	Hrs	Electric power use for 1972-96.
Dairy product	3115		22,582	.92		
Dairy product (except frozen)	31151		18,578	.75		
Fluid milk	311511	Cnn, Mnn	8,847	.36	Prod	Pounds; USDA.
Creamery butter	311512	Cnn, Mnn	299	.01	Prod	Pounds; USDA.
Cheese	311513	Cnn, Mnn	5,075	.21	Prod	Pounds; USDA.
Dry, condensed, and evaporated dairy product	311514	Cnn, Mnn	4,357	.18	Prod	Pounds; evaporated, condensed, and dry milk; whey; and lactose; USDA.
Ice cream and frozen dessert	31152	Cnn	4,004	.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		44,256	1.80		
Animal (except poultry) slaughtering and meat processing	311611-3		23,428	.95		
Beef	311611-3pt.	Cnn, Mnn	13,872	.56	Prod	Pounds; USDA.
Pork	311611-3pt.	Cnn, Mnn	9,195	.37	Prod	Pounds; USDA.
Miscellaneous meats	311611-3pt.	Cnn, Mnn	360	.01	Prod	Pounds, weighted combination of veal and lamb; USDA.
Poultry processing	311615	Cnn, Mnn	20,829	.85	Prod	Pounds; USDA.
Seafood product preparation and packaging*	3117	Cnn	3,381	.14	Hrs	
Bakeries and tortilla	3118	Cnn	32,108	1.30	Hrs	
Other food	3119		35,779	1.45		
Snack food*	31191	Cnn	10,697	.43	Hrs	
Coffee and tea	31192	Cnn	2,631	.11	Prod	Bags (60 kilo) green coffee roasted; George Gordon Patton and Company.
Other food*	31193-9	Cnn, Mnn	22,451	.91	Hrs	Electric power use for 1972-96.
<b>Beverage and tobacco product</b>	312		69,125	2.81		
Beverage	3121		35,449	1.44		
Soft drink and ice	31211	Cnn	15,326	.62	Hrs	
Breweries	31212	Cnn	12,445	.50	Prod	Barrels (31 gallons); Bureau of Alcohol, Tobacco, and Firearms (ATF).

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Wineries*	31213	Cnn	5,030	.20	Prod	Wine gallons, taxable withdrawals of still wines, effervescent wines, and brandy; ATF.
Distilleries*	31214		2,649	.11		
Liquor bottling*	31214pt.	Cnn	726	.03	Prod	Gallons, bottled-in-bond; ATF.
Liquor distilling*	31214pt.	Mnn	1,923	.08	Prod	Gallons; ATF.
Tobacco	3122		33,677	1.37		
Tobacco stemming and redrying*	31221	Mnn	187	.01	Hrs	
Tobacco product*	31222		33,489	1.36		
Cigarette*	312221	Cnn	30,661	1.24	Prod	Units; ATF.
Other tobacco product*	312229		2,828	.11		
Cigars*	312229pt.	Cnn	994	.04	Prod	Units; ATF.
Snuff and chewing tobacco*	312229pt.	Cnn	1,834	.07	Prod	Pounds; ATF. Production worker hours for 1972-86.
<b>Textile mills</b>	313		18,531	.75		
Fiber, yarn, and thread mills	3131	Mnn	3,684	.15	Prod	Bales, consumption of cotton and synthetic fibers, and thousand pounds, consumption of wool fibers; Census Bureau.
Fabric mills	3132		10,198	.41		
Broadwoven fabric mills*	31321		4,697	.19		
Cotton and synthetic fabrics*	31321pt.	Cnn, Mnn	4,496	.18	Qprod	Square yards, cotton and synthetic fabrics; Census Bureau. Long yards for 1972-79.
Wool fabrics*	31321pt.	Cnn, Mnn	200	.01	Qprod	Square yards, woolen and worsted fabrics; Census Bureau. Kilowatt hours for 1977-81. Monthly physical product data for 1972-76.
Other fabric mills*	31322-4	Mnn	5,501	.22	Hrs	
Textile and fabric finishing and fabric coating mills	3133		4,649	.19		
Textile and fabric finishing mills*	31331	Cnn, Mnn	3,840	.16	Hrs	
Fabric coating mills*	31332	Mnn	809	.03	Hrs	
<b>Textile product mills</b>	314		13,480	.55		
Textile furnishings mills	3141		8,760	.36		
Carpet and rug mills	31411	Cdo, Ebn, Sc, Mnd	5,157	.21	Prod	Square yards, tufted and woven carpeting; Carpet and Rug Institute.
Curtain and linen mills*	31412	Cdo, Sb	3,603	.15	Hrs	



Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other textile product mills	3149		4,720	.19		
Tire cord and tire fabric mills*	314992	Mnd	363	.01	Qprod	Millions of pounds; Census Bureau.
Other textile products except tire cord and fabrics*	31491,314991,9	Cnn, Sc, Sb, Mnn	4,357	.18	Hrs	
<b>Apparel</b>	315		20,396	.83		
Apparel knitting mills*	3151		2,494	.10		
Hosiery and sock mills*	31511	Cnn	1,726	.07	Qprod	Pairs, weighted combination of total hosiery and pantyhose; The Hosiery Association. Monthly data for 1972-91.
Other apparel knitting mills*	31519	Cnn, Mnn	768	.03	Hrs	
Cut and sew apparel*	3152		16,555	.67		
Cut and sew apparel contractors*	31521	Cnn, Mnn	2,243	.09	Hrs	
Men's and boys' cut and sew apparel*	31522	Cnn	6,009	.24	Hrs	
Women's and girls' cut and sew apparel*	31523	Cnn	7,327	.30	Hrs	
Other cut and sew apparel*	31529	Cnn	975	.04	Hrs	
Apparel accessories and other apparel*	3159	Cnn, Mnn	1,348	.05	Hrs	
<b>Leather and allied product</b>	316		2,877	.12		
Leather and hide tanning and finishing*	3161	Mnn	770	.03	Hrs	Electric power use for 1972-96.
Footwear*	3162	Cnn	1,071	.04	Hrs	
Other leather and allied product*	3169	Cnn, Sb, Mnd	1,036	.04	Hrs	
<b>Paper</b>	322		72,084	2.93		
Pulp, paper, and paperboard mills	3221		35,000	1.42		
Pulp mills	32211	Mnn	1,723	.07	Prod	Tons; American Forest and Paper Association (AFPA); Census Bureau, 1972-81.
Paper mills	32212		23,048	.94		
Paper (except newsprint) mills	322121	Mnn	21,591	.88	Prod	Tons; AFPA. Shipments plus inventory change for selected components, 1972-86. Census Bureau, 1972-81.
Newsprint mills*	322122	Mnn	1,458	.06	Prod	
Paperboard mills	32213	Mnn	10,229	.42	Prod	Tons; AFPA. Census Bureau, 1972-81.
Converted paper product	3222		37,084	1.50		

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Paperboard container	32221	Sb, Mnn	17,407	.71	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		8,608	.35		
Coated and laminated paper and plastics film*	322221,2	Cnn, Sc, Sb, Mnn	6,477	.26	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	2,131	.09	Hrs	
Stationery product*	32223	Cnn, Sb, Mnn	3,398	.14	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	7,670	.31	Prod	Tons, tissue paper; AFPA. Census Bureau, 1972-86
<b>Printing and related support activities</b>	323		56,590	2.30		
Printing*	32311	Sb, Mnn	52,678	2.14	Hrs	Electric power use for 1972-96.
Support activities for printing*	32312	Sb, Mnn	3,912	.16	Hrs	
<b>Petroleum and coal products</b>	324		45,415	1.84		
Petroleum refineries	32411		36,234	1.47		
Aviation fuel and kerosene	32411pt.	Sb	3,895	.16	Prod	Barrels, aviation gasoline, jet fuel, and kerosene; Department of Energy (DOE).
Distillate fuel oil	32411pt.	Cne	7,446	.30	Prod	Barrels, distillate fuel oil; DOE.
Automotive gasoline	32411pt.	Cne	17,510	.71	Prod	Barrels, automotive gasoline; DOE.
Refinery nonfuel materials*	32411pt.	Mnn	2,968	.12	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	1,239	.05	Prod	Barrels, residual fuel oil; DOE.
Refinery fuel n.e.c.*	32411pt.	Mec	859	.03	Prod	Barrels, liquefied refinery gases, ethane/ethylene, still gas, and petroleum coke; DOE.
Refinery products n.e.c.*	32411pt.	Sb	2,318	.09	Prod	Barrels, asphalt, road oil, and lubricants; DOE.
Paving, roofing, and other petroleum and coal products	32412,9	Cnn, Sc, Sb, Mnn	9,181	.37	Hrs	
<b>Chemical</b>	325		260,288	10.56		
Basic chemical	3251		45,884	1.86		
Organic chemicals	32511,9	Sb, Mnn	26,719	1.08	Qprod	Pounds and gallons, weighted combination of acrylonitrile, benzene, finished butadiene, cumene, ethylene, ethylene oxide, para-xylene, propylene, and styrene; National Petroleum Refiners Association. Production worker hours for 1972-91.
Basic inorganic chemicals	32512-8		19,166	.78		
Industrial gas	32512	Sb, Mnn	3,860	.16	Qprod	Cubic feet, hydrogen, oxygen, acetylene, argon, nitrogen, and carbon dioxide; Census Bureau. Monthly data for 1972-90.
Synthetic dye and pigment	32513	Sb, Mnn	3,354	.14	Prod	Tons, titanium dioxide; Census Bureau.

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other basic inorganic chemical	32518		11,952	.48		
Alkalies and chlorine	325181	Sb, Mnn	1,866	.08	Prod	Tons, sodium hydroxide liquid and chlorine gas; The Chlorine Institute. Census Bureau, 1972-86.
Carbon black*	325182	Sb, Mnn	553	.02	Hrs	
All other basic inorganic chemical	325188		9,533	.39		
Acids, phosphates, and sulfates	325188pt.	Sb, Mnn	1,148	.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	2,956	.12	Prod	Kilowatt sales to facilities producing nondefense nuclear materials; Department of Energy, individual facilities.
Other inorganic chemicals	325188pt.	Sb, Mnn	5,428	.22	Qprod	Tons, calcium carbide, hydrogen peroxide, sodium chlorate, sodium silicate, and potassium pyrophosphate; Census Bureau. Monthly data for 1972-90.
Resin, synthetic rubber, and artificial and synthetic fibers and filaments	3252		23,630	.96		
Resin and synthetic rubber	32521		20,179	.82		
Plastics material and resin	325211	Mnn	17,448	.71	Prod	Pounds, thermosetting and thermoplastic resins; Society of the Plastics Industry, Inc.
Synthetic rubber	325212	Mnn	2,731	.11	Prod	Tons; Rubber Manufacturers Association.
Artificial and synthetic fibers and filaments	32522	Mnn	3,451	.14	Prod	Pounds, noncellulosic, rayon, and acetate fibers; Fiber Economics Bureau.
Pesticide, fertilizer, and other agricultural chemical	3253		10,131	.41		
Fertilizer*	32531	Sb, Mnn	3,627	.15	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	6,503	.26	Hrs	
Pharmaceutical and medicine	3254		110,502	4.48		
Medicinal, botanical, biological product*	325411,3,4	Cnn, Mnn	19,070	.77	Hrs	
Pharmaceutical preparation*	325412	Cnn, Mnn	91,432	3.71	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		70,141	2.85		
Paints and other chemical products	3255,9		33,146	1.35		
Paint, coating, and adhesive	3255		13,988	.57		
Paint and coating	32551		9,905	.40		
Construction paints*	32551pt.	Sc	5,390	.22	Qprod	Gallons, architectural and special-purpose coatings; Census Bureau. Monthly data for 1972-90.
Industrial paints*	32551pt.	Mnd	4,515	.18	Qprod	Gallons, product coatings and special-purpose coatings; Census Bureau. Monthly data for 1972-90.
Adhesive*	32552	Cnn, Sc, Sb, Mnn	4,082	.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 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Other chemical product and preparation*	3259	Cnn, Sb, Mnn	19,158	.78	Hrs	Electric power use for 1972-96.
Soap, cleaning compound, and toilet preparation	3256	Cnn, Sb, Mnn	36,995	1.50	Hrs	Electric power use for 1972-96.
<b>Plastics and rubber products</b>	326		91,591	3.72		
Plastics product	3261		74,063	3.01		
Plastics bottle*	32616	Sb, Mnn	3,740	.15	Hrs	
Plastics product*	32611-5,9	Cdo, Sc, Sb, Mnd	70,323	2.85	Hrs	
Rubber product	3262		17,528	.71		
Tire	32621		8,000	.32		
Original equipment tires, business*	32621pt.	Mnd	667	.03	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial, and utility; Rubber Manufacturers Association (RMA).
Original equipment tires, consumer*	32621pt.	Mnd	896	.04	Prod	Units, passenger car tires (radial and other); RMA.
Replacement tires, business*	32621pt.	Sb	2,985	.12	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial and utility; RMA.
Replacement tires, consumer*	32621pt.	Cda	3,451	.14	Prod	Units, passenger car tires (radial and other); RMA.
Rubber products ex. tires	32622,9		9,528	.39		
Rubber and plastics hoses and belting*	32622	Cdo, Sb, Mnd	2,115	.09	Hrs	Electric power use for 1972-96.
Other rubber product*	32629	Cdo, Sb, Mnd	7,413	.30	Hrs	Electric power use for 1972-96.
<b>Other manufacturing</b>			115,615	4.69		
Newspaper, periodical, book, and directory publishers	5111		110,488	4.48		
Newspaper publishers	51111		38,178	1.55		Tons, newsprint consumption; Pulp and Paper Products Council. American Newspaper Publishers Association, 1972-86.
Newspaper advertising*	51111pt.	Sb, Mnn	29,578	1.20	Prod	Index derived by deducting circulation from newsprint consumption.
Newspaper circulation*	51111pt.	Cnn	8,600	.35	Est	Federal Reserve estimates based on Editor & Publisher annual circulation data.
Periodical, book, and other publishers	51112-9		72,310	2.93		
Book Publishers*	51113	Cnn, Sb, Mnn	19,130	.78	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 1972-91
Periodicals and other publishers*	51112,4,9	Cnn, Sb, Mnn	53,180	2.16	Hrs	
Logging	1133	Mnd	5,127	.21	Hrs	
<b>Mining</b>			174,559	7.08		

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
<b>Oil and gas extraction</b>	211		125,801	5.10		
Crude petroleum and natural gas extraction	211111		115,872	4.70		
Crude oil	211111pt.		49,869	2.02		
Texas crude oil*	211111pt.	Mep	9,708	.39	Prod	Barrels; Department of Energy (DOE).
Alaska and California crude oil*	211111pt.	Mep	14,387	.58	Prod	Barrels; DOE.
Louisiana and other crude oil*	211111pt.	Mep	25,774	1.05	Prod	Barrels; DOE.
Natural gas	211111pt.	Mep	66,003	2.68	Prod	Billion cubic feet, marketed production; Department of Energy.
Natural gas liquid extraction	211112		9,929	.40		
Propane*	211112pt.	Cne	602	.02	Prod	Barrels, at gas-processing plants; Department of Energy.
Liquefied petroleum*	211112pt.	Mec	9,327	.38	Prod	Barrels, natural gas liquids minus propane at gas-processing plants; Department of Energy.
<b>Mining (except oil and gas)</b>	212		34,899	1.42		
Coal mining	2121	Mep	14,992	.61	Prod	Tons, anthracite and bituminous, including lignite; Btu weighted; DOE.
Metal ore mining	2122		5,062	.21		
Iron ore mining	21221	Mnd	717	.03	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		2,322	.09		
Gold ore mining*	212221	Mnd	2,273	.09	Prod	Kilograms, gold ores; U.S. Geological Survey.
Silver ore mining*	212222	Mnd	48	.00	Prod	Metric tons, silver ores; U.S. Geological Survey.
Copper, nickel, lead, and zinc mining	21223		1,690	.07		
Lead ore and zinc ore mining*	212231	Mnd	449	.02	Prod	Metric tons, recoverable lead and zinc; U.S. Geological Survey.
Copper ore and nickel ore mining*	212234	Mnd	1,241	.05	Prod	Metric tons, recoverable copper; U.S. Geological Survey.
Other metal ore mining*	21229	Mnd	333	.01	Prod	Metric tons, molybdenum concentrate; U.S. Geological Survey
Nonmetallic mineral mining and quarrying	2123		14,845	.60		
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21231,2		12,563	.51		
Stone mining and quarrying*	21231	Sc, Mnd	7,227	.29	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		5,336	.22		

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

Groups and series	Classification		Value added in 2003		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Sand and gravel mining*	212321,2	Sc, Mnd	4,272	.17	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	1,064	.04	Hrs	
Other nonmetallic mineral mining and quarrying*	21239	Mnn	2,282	.09	Prod	Metric tons, phosphate rock, soda ash, sulfur frasche. U.S. Geological Survey
<b>Support activities for mining</b>	213		13,859	.56		
Drilling oil and gas wells	213111	Es	6,511	.26	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	6,696	.27	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	653	.03	Prod	Average of indexed underlying data for series in NAICS 212; U.S. Geological Survey, Bureau of Labor Statistics.
<b>Utilities</b>			245,886	9.98		
<b>Electric power generation, transmission and distribution</b>	2211		206,736	8.39		
Electric power generation	22111		84,435	3.43		
Hydroelectric power generation	221111	Mep	5,907	.24	Prod	Kilowatt hours, includes pumped storage; Department of Energy (DOE).
Fossil fuel and other electric power generation	221112,9	Mec	42,843	1.74	Prod	Kilowatt hours, conventional steam and internal combustion; DOE.
Nuclear electric power generation	221113	Mep	35,685	1.45	Prod	
Electric power transmission, control, and distribution	22112		122,301	4.96		
Commercial and other electricity sales	22112pt.	Sb	47,403	1.92	Prod	Kilowatt hours to commercial and other; DOE.
Industrial electricity sales	22112pt.	Mec	22,462	.91	Prod	Kilowatt hours to industrial users; DOE.
Residential electricity sales	22112pt.	Cne	52,436	2.13	Prod	Kilowatt hours; DOE.
<b>Natural gas distribution</b>	2212		39,150	1.59		
Commercial and other gas sales	2212pt.	Sb	7,052	.29	Prod	Cubic feet, sales to commercial establishments; DOE. American Gas Association, 1972-77.
Industrial gas sales	2212pt.	Mec	3,049	.12	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	19,995	.81	Prod	Cubic feet, sales to residences; DOE. American Gas Association, 1972-77.
Gas transmission	2212pt.	Mec	9,054	.37	Prod	Cubic feet, natural gas sold; DOE. American Gas Association, 1972-77.