

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
<b>Total index</b>			<b>2,364,806</b>	<b>100.00</b>		<b>Series begins in 1919.</b>
<b>Manufacturing (SIC)</b>			1,977,267	83.61		Series begins in 1919.
Manufacturing (NAICS)			1,860,965	78.69		
Durable manufacturing			1,035,286	43.78		
Nondurable manufacturing			825,678	34.92		
Other manufacturing			116,302	4.92		
Mining			162,569	6.87		
Utilities			224,970	9.51		

#### 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>			1,977,267	83.61		Series begins in 1919.
<b>Manufacturing (NAICS)</b>			1,860,965	78.69		
<b>Durable manufacturing</b>			1,035,286	43.78		
<b>Wood product</b>	321		33,130	1.40		
Sawmills and wood preservation	3211	Sc, Mnd	7,484	.32	Prod	Board feet; American Forest & Paper Association.
Plywood and misc. wood products	3212,9		25,645	1.08		
Veneer, plywood, and engineered wood product	3212		7,586	.32		
Veneer and plywood	321211,2	Cdo, Sc, Sb, Mnd	2,598	.11	Prod	Square feet, structural panels; APA—The Engineered Wood Association.
Engineered wood member*	321213,4	Cdo, Sc, Sb	2,683	.11	Hrs	
Reconstituted wood product	321219	Cdo, Sc, Mnd	2,304	.10	Prod	Square feet, shipments, particleboard and medium density fiberboard; Composite Panel Association. Production worker hours for 1972–76.
Other wood product	3219		18,060	.76		
Millwork	32191		9,166	.39		
Flooring*	32191pt.	Cdo, Sc, Sb, Mnd	1,292	.05	Prod	Board feet; The Wood Flooring Manufacturers Association, The Maple Flooring Manufacturers Association.
Other millwork*	32191pt.	Cdo, Sc, Sb, Mnd	7,874	.33	Hrs	
Wood container and pallet	32192	Cdo, Sb, Mnn	2,169	.09	Kwh	
All other wood product	32199		6,724	.28		
Manufactured home (mobile home)	321991	Es	2,971	.13	Prod	Units; Manufactured Housing Institute.
Other miscellaneous wood product*	321992,9	Cdo, Sc, Sb, Mnd	3,752	.16	Hrs	
<b>Nonmetallic mineral product</b>	327		53,195	2.25		
Clay, lime, gypsum, and misc. nonmetallic mineral products	3271,4,9		16,070	.68		
Clay and misc. nonmetallic mineral products	3271,9		13,879	.59		
Clay product and refractory	3271		5,692	.24		
Pottery, ceramics, and plumbing fixture	32711		2,529	.11		
Vitreous china plumbing fixture and china and earthenware bathroom accessories*	327111	Cdo, Sc	831	.04	Hrs	
Vitreous china, fine earthenware, and other pottery product*	327112	Cdo	969	.04	Hrs	

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	NAICS	Market	Millions of dollars	Proportion		
Porcelain electrical supply*	327113	Sc, Mnd	730	.03	Hrs	
Clay building material and refractories	32712		3,162	.13		
Brick and structural clay tile*	327121	Cdo, Sc	1,296	.05	Qprod	Units, building or common and face brick; Census Bureau. Monthly data for 1972-90.
Ceramic tile and refractory*	327122,4,5	Sc, Mnd	1,762	.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	104	.00	Qprod	Tons, vitrified clay sewer pipe; Census Bureau. Monthly data for 1972-90.
Other nonmetallic mineral product	3279	Cdo, Sc, Mnd	8,187	.35	Kwh	
Lime and gypsum product	3274		2,191	.09		
Lime*	32741	Sc, Sb, Mnd	616	.03	Kwh	
Gypsum product*	32742	Cdo, Sc, Sb, Mnd	1,575	.07	Prod	Tons, calcined gypsum; U.S. Geological Survey. Production worker hours for 1972-76.
Glass and glass product	3272		13,680	.58		
Flat glass*	327211	Mnd	1,742	.07	Hrs	
Other pressed and blown glass and glassware*	327212	Cdo, Sc, Sb, Mnd	3,380	.14	Kwh	
Glass container	327213	Mnn	2,504	.11	Prod	Gross, glass containers; Census Bureau.
Glass product made of purchased glass*	327215	Cdo, Sc, Sb, Mnd	6,053	.26	Kwh	
Cement and concrete product	3273		23,446	.99		
Cement	32731	Sc, Mnd	4,791	.20	Prod	Tons, shipments, portland cement; U.S. Geological Survey.
Concrete and product	32732-9	Cdo, Sc, Sb	18,655	.79	Kwh	
<b>Primary metal</b>	331		53,111	2.25		
Iron and steel products	3311,2		20,427	.86		
Basic iron and steel*			3,878	.16		
Pig iron	3311,2pt.	Mnd	2,191	.09	Prod	Tons; American Iron and Steel Institute (AISI)
Raw steel	3311,2pt.	Mnd	1,222	.05	Prod	Tons, weighted combination of carbon, alloy, and stainless.
Coke and products	3311,2pt.	Mec	464	.02	Qprod	Tons, coke; Department of Energy. Monthly data for 1972-80.
Steel mill products*			16,549	.70		Tons. Shipments (AISI) plus inventory change (Census).
Construction steel	3311,2pt.	Sc	2,416	.10	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	2,521	.11	Prod	Tons, steel for autos, appliances, utensils, and cutlery.
Can and closure steel	3311,2pt.	Mnd	527	.02	Prod	Tons.
Equipment steel	3311,2pt.	Mnd	1,453	.06	Prod	Tons.
Miscellaneous steel	3311,2pt.	Mnd	9,632	.41	Prod	Tons of steel, all other classifications, including warehouses and exports.
Alumina and aluminum production and processing	3313		8,600	.36		
Alumina refining*	331311	Mnd	305	.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	2,268	.10	Prod	Tons, primary aluminum ingots; Aluminum Association.
Secondary smelting and alloying of aluminum	331314	Mnd	742	.03	Prod	Tons, aluminum alloys and brass ingot at secondary smelters and secondary lead; U.S. Geological Survey.
Misc. aluminum materials	331315,9	Mnd	3,088	.13	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	2,197	.09	Prod	Pounds, extruded shapes; Census Bureau. Net shipments for 1972–86.
Nonferrous metal (except aluminum) production and processing	3314		7,881	.33		
Nonferrous metal (except aluminum) smelting and refining	33141		2,053	.09		
Primary smelting and refining of copper	331411		937	.04		
Copper refining*	331411pt.	Mnd	531	.02	Prod	Tons, refined copper; American Bureau of Metal Statistics.
Copper smelting*	331411pt.	Mnd	406	.02	Prod	Tons, scrap and primary copper; American Bureau of Metal Statistics.
Primary smelting and refining of nonferrous metal (except copper and aluminum)	331419	Mnd	1,116	.05	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	2,414	.10	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	3,414	.14	Hrs	
Foundries	3315		16,204	.69		
Ferrous metal foundries*	33151	Mnd	9,688	.41	Kwh	
Nonferrous metal foundries*	33152	Mnd	6,515	.28	Hrs	
<b>Fabricated metal product</b>	332		138,793	5.87		
Forging and stamping	3321	Mnd	12,105	.51	Kwh	
Cutlery and handtool	3322	Cdo, Ebn, Sc, Sb, Mnd	7,517	.32	Hrs	
Architectural and structural metals	3323	Sc, Mnd	30,921	1.31	Hrs	

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Boiler, tank, and shipping container*	3324		9,551	.40		
Boilers, heat exchangers, and metal tanks*	33241,2	Ebn, Sc, Mnd	4,608	.19	Hrs	
Metal can, box, and other metal container (light gauge)*	33243	Mnn	4,943	.21	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	6,001	.25	Kwh	
Spring and wire product	3326	Cdo, Sc, Sb, Mnd	4,584	.19	Hrs	
Machine shops; turned product; and screw, nut, and bolt	3327	Sb, Mnd	29,153	1.23	Kwh	
Coating, engraving, heat treating, and allied activities	3328	Sb, Mnd	10,408	.44	Kwh	
Other fabricated metal product	3329		28,552	1.21		
Metal valve*	33291	Ebn, Sc, Sb, Mnd	12,397	.52	Hrs	
All other fabricated metal product*	33299		16,155	.68		
Ball and roller bearing	332991	Sb, Mnd	3,008	.13	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	3,172	.13	Hrs	
Miscellaneous fabricated metal products*	332996-9	Cdo, Ebn, Sc, Sb, Mnd	9,975	.42	Hrs	
<b>Machinery</b>	333		131,103	5.54		
Agriculture, construction, and mining machinery	3331		20,929	.89		
Agricultural implement	33311		8,565	.36		
Farm machinery and equipment	333111	Ebn, Sb	6,304	.27	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	2,261	.10	Hrs	
Construction machinery	33312	Ebn, Mnd	8,374	.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	3,991	.17	Hrs	
Industrial machinery	3332		17,448	.74		
Semiconductor machinery*	333295	Ebn, Mnd	5,647	.24	Hrs	

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Industrial machinery ex. semiconductor fabrication*	33321,2,91-4,8	Ebn, Mnd	11,801	.50	Hrs	
Commercial and service industry machinery and other general purpose machinery	3333,9		41,879	1.77		
Commercial and service industry machinery*	3333	Cdo, Ebn, Sc, Sb, Mnd	11,814	.50	Hrs	
Other general purpose machinery*	3339	Ebn, Sc, Mnd	30,065	1.27	Hrs	
HVAC, metalworking, and power transmission machinery	3334-6		50,847	2.15		
Ventilation, heating, air-conditioning, and commercial refrigeration equipment	3334		15,855	.67		
Air purification equip., fans, and blowers*	333411,2	Ebn, Sc, Sb, Mnd	2,085	.09	Kwh	
Heating equipment (except warm air furnaces)*	333414		2,148	.09		
Boilers, heaters, and furnaces*	333414pt.	Cdo, Sc	1,258	.05	Prod	Units, shipments, boilers and unit heaters; Gas Appliance Manufacturers Association, Inc (GAMA). For 1982-2000, included floor and wall furnaces. Boilers reported at quarterly frequency beginning in 2002. Production worker hours for 1972-81.
Burners and other parts*	333414pt.	Mnd	890	.04	Prod	Units, electric and gas water heaters, boilers, unit heaters, warm air furnaces; water heater shipments for 1981-6; GAMA. Production worker hours for 1972-81.
Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment*	333415		11,622	.49		
Room air conditioners*	333415pt.	Cdo	564	.02	Prod	Units; Association of Home Appliance Manufacturers(AHAM).
Warm air furnaces*	333415pt.	Cdo, Ebn, Sc, Sb	1,212	.05	Prod	Units, shipments, gas and oil warm air furnaces; GAMA. Included electric warm air furnaces for 1982-97. Production workers for 1972-81.
Compressors, condensers, and other parts*	333415pt.	Mnd	5,724	.24	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	4,122	.17	Prod	Units; Air-Conditioning and Refrigeration Institute.
Metalworking machinery	3335	Ebn, Mnd	16,030	.68	Hrs	
Engine, turbine, and power transmission equipment	3336		18,962	.80		
Turbine and turbine generator set units*	333611	Ebn, Ed, Mnd	6,330	.27	Hrs	
Engines and power transmission equipment*	333612-8	Mnd	12,632	.53	Hrs	

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<b>Computer and electronic product</b>	334		223,718	9.46		
Computer and peripheral equipment	3341		34,394	1.45		
Electronic computer*	334111		17,516	.74		
Computers, business*	334111pt.	Ebi, Mnd	15,669	.66	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992–3. Production worker hours for 1972–91.
Computers, consumer*	334111pt.	Cdo, Mnd	1,848	.08	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		7,790	.33		
Computer storage and terminals, business*	334112,3pt.	Ebi, Mnd	6,010	.25	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	1,780	.08	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		9,088	.38		
Computer printers, business*	334119pt.	Ebi, Mnd	7,101	.30	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992–3. Production worker hours for 1972–91.
Computer printers, consumer*	334119pt.	Cdo, Mnd	1,987	.08	Qprod	Fisher quantity index; Gartner, Inc. Federal Reserve estimates 1992–3. Production worker hours for 1982–91. Series begins in 1982.
Communications equipment	3342		50,757	2.15		
Telephone apparatus*	33421		28,005	1.18		
Routers, switches, and hubs*	33421pt.	Ebi, Sb	7,482	.32	Qprod	Fisher quantity index; Gartner, Inc. Series begins in 1992.
Other telephone apparatus*	33421pt.	Ebi, Sb	20,523	.87	Hrs	
Broadcasting, wireless, and other communications equipment*	33422,9	Cdo, Ebi, Ed, Sc, Mnd	22,752	.96	Hrs	
Audio and video equipment and media*	3343,6		7,243	.31		
Audio and video equipment	3343	Cdo, Mnd	3,143	.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	4,100	.17	Hrs	
Semiconductor and other electronic component	3344		71,289	3.01		
Semiconductor and related device*	334413		44,118	1.87		Production worker hours for 1972–91.

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Optoelectronics and discretes*	334413pt.	Sb, Mnd	2,626	.11	Prod	Fisher quantity index; Semiconductor Industry Association. Series begins in 1992.
MOS logic ex. MPUs*	334413pt.	Sb, Mnd	6,641	.28	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
MOS memories*	334413pt.	Sb, Mnd	7,500	.32	Qprod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc.; Bureau of Labor Statistics. Series begins in 1992.
MPUs*	334413pt.	Sb, Mnd	20,734	.88	Qprod	Fisher quantity index; Semiconductor Industry Association; In-Stat/MDR; Bureau of Labor Statistics. Series begins in 1992.
Other integrated circuits*	334413pt.	Sb, Mnd	6,617	.28	Prod	Fisher quantity index; Semiconductor Industry Association; Gartner, Inc. Series begins in 1992.
Electronic components ex. chips*			27,171	1.15		
Electron tube*	334411	Sb, Mnd	1,181	.05	Prod	Units, factory sales of picture tubes; EIA.
Electronic components ex. chips and tubes*			25,990	1.10		
Bare printed circuit board*	334412	Sb, Mnd	4,732	.20	Hrs	
Other electronic components*	334414–7,9	Sb, Mnd	11,037	.47	Hrs	
Printed circuit assembly (electronic assembly)*	334418	Ebi, Sb, Mnd	10,221	.43	Hrs	
Navigational, measuring, electromedical, and control instruments	3345		60,035	2.54		
Electromedical and electrotherapeutic apparatus*	334510	Ebi, Sb	8,631	.36	Hrs	
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument*	334511	Ebi, Ed, Mnd	23,375	.99	Hrs	
Measuring and controlling instruments and parts*	334512–9	Cdo, Ebi, Ed, Sc, Sb, Mnd	28,029	1.19	Hrs	
<b>Electrical equipment, appliance, and component</b>	335		56,304	2.38		
Household appliance	3352		9,443	.40		
Small electrical appliance	33521		2,445	.10		
Electric housewares and household fan*	335211	Cdo, Sc	1,203	.05	Prod	Deflated shipments; AHAM. Production work hours for 1972–91.
Household vacuum cleaner*	335212	Cdo	1,242	.05	Qprod	Units, sales; Vacuum Cleaner Manufacturers Association. Federal Reserve estimates for 1985–86. Monthly data for 1972–76.
Major appliance	33522		6,998	.30		
Household cooking appliance*	335221	Cdo, Ebn	1,327	.06	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		2,018	.09		

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Home freezers*	335222pt.	Cdo, Ebn	165	.01	Prod	Units, upright and chest freezers; AHAM.
Refrigerators*	335222pt.	Cdo, Ebn	1,853	.08	Prod	Units; AHAM.
Household laundry equipment*	335224		1,857	.08		
Clothes dryers*	335224pt.	Cdo	649	.03	Prod	Units, electric and gas dryers; AHAM. Shipments of gas dryers prior to 1988, AHAM.
Washing machines*	335224pt.	Cdo	1,208	.05	Prod	Units, automatic washers. Automatic and wringer washers for 1972–1983; AHAM.
Other major household appliance*	335228		1,797	.08		
Dishwashers and disposers*	335228pt.	Cdo, Ebn, Sc, Mnd	1,039	.04	Prod	Units, weighted combination of built-in and portable dishwashers and disposers; AHAM.
Electric water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	333	.01	Prod	Units, shipments, residential electric storage water heaters; GAMA.
Gas water heaters*	335228pt.	Cdo, Ebn, Sc, Mnd	425	.02	Prod	Units, shipments, residential gas-fired automatic storage water types; GAMA.
Electrical equipment except appliances	3351,3,9		46,861	1.98		
Electric lighting equipment	3351	Cdo, Sc, Sb, Mnd	6,958	.29	Kwh	
Electrical equipment	3353	Ebn, Sb, Mnd	17,340	.73	Kwh	
Other electrical equipment and component	3359		22,563	.95		
Battery	33591		3,251	.14		
Storage battery*	335911	Cda, Sb, Mnd	1,756	.07	Prod	Units, shipments, automotive replacement batteries; Battery Council International.
Primary battery*	335912	Cne	1,495	.06	Hrs	
Communication and energy wire and cable	33592	Sc, Mnd	7,348	.31	Hrs	
Other electrical equipment	33593,9	Cdo, Ebn, Sc, Mnd	11,964	.51	Kwh	
<b>Transportation equipment</b>	336		234,711	9.93		
Motor vehicles and parts	3361–3		144,917	6.13		
Motor vehicle	3361		61,968	2.62		
Automobile and light duty motor vehicle	33611		59,551	2.52		
Automobile	336111		25,773	1.09		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	4,965	.21	Prod	
Automobile, consumer*	336111pt.	Cda	20,809	.88	Prod	

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Light truck and utility vehicle	336112		33,778	1.43		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	3,157	.13	Prod	
Light trucks, consumer*	336112pt.	Cda	30,621	1.29	Prod	
Heavy duty truck	33612		2,416	.10		Units; Ward's Communications, allocated to medium and heavy classes based on share of factory shipments.
Heavy trucks*	33612pt.	Ebt	907	.04	Prod	
Medium trucks*	33612pt.	Ebt	1,509	.06	Prod	
Motor vehicle body and trailer	3362		8,417	.36		
Motor vehicle body*	336211	Cda, Ebt, Mnd	3,873	.16	Hrs	
Truck trailer	336212	Ebt	1,491	.06	Prod	Units, shipments; ACT Research. Census Bureau before 1992.
Motor home	336213	Cda	812	.03	Prod	Units, shipments, weighted combination of conventional vans, van campers, and chopped vans; Recreation Vehicle Industry Association.
Travel trailer and camper	336214	Cda, Ebt	2,241	.09	Prod	Units, shipments, travel trailers, folding camping trailers, and truck campers; Recreation Vehicle Industry Association.
Motor vehicle parts	3363		74,532	3.15		
Motor vehicle gasoline engine and engine parts*	33631		9,764	.41		
Motor vehicle gasoline engine and engine parts, original equip.*	33631pt.	Mnd	6,600	.28	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	3,164	.13	Est	Derived from annual levels of vehicles in use and production of replacement tires adjusted by the trend in the benchmark index for this product; R.L. Polk and Rubber Manufacturers Association.
Motor vehicle electrical and electronic equipment*	33632		10,007	.42		
Motor vehicle electrical and electronic equipment, original equip.*	33632pt.	Mnd	5,951	.25	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications(assemblies).
Motor vehicle electrical and electronic equipment, repair*	33632pt.	Cda	4,056	.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		4,591	.19		

Groups and series	Classification		Value added in 2001		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	3,137	.13	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	1,454	.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		4,260	.18		
Motor vehicle brake system, original equip.*	33634pt.	Mnd	2,832	.12	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	1,428	.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		13,305	.56		
Motor vehicle transmission and power train parts, original equip.*	33635pt.	Mnd	9,085	.38	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	4,220	.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		4,351	.18		
Motor vehicle seating and interior trim, original equip.*	33636pt.	Mnd	2,739	.12	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications(assemblies).
Motor vehicle seating and interior trim, repair*	33636pt.	Cda	1,612	.07	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	9,899	.42	Kwh	
Other motor vehicle parts*	33639		18,355	.78		
Motor vehicle air-conditioning*	336391		2,355	.10		
Motor vehicle air-conditioning, original equip.*	336391pt.	Mnd	1,454	.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	901	.04	Est	Federal Reserve estimates.
All other motor vehicle parts*	336399		16,000	.68		

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
All other motor vehicle parts, original equip.*	336399pt.	Mnd	10,918	.46	Prod	Weighted average of: Unit vehicle assemblies and production worker hours; Ward's Communications(assemblies). 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.
All other motor vehicle parts, repair*	336399pt.	Cda	5,083	.21	Est	
Aerospace and miscellaneous transportation eq.	3364-9		89,793	3.80		
Aerospace product and parts	3364		71,080	3.01		
Aircraft and parts	336411-3		58,905	2.49		
Aircraft*	336411		30,909	1.31		
Civilian aircraft*	336411pt.	Ebt	21,493	.91	Prod	Forward-looking weighted average of passenger aircraft completed and production worker hours; Boeing, Bureau of Labor Statistics.
Military aircraft*	336411pt.	Ed	9,416	.40	Hrs	
Aircraft engine, parts, and auxiliary equipment*	336412,3		27,995	1.18		
Aircraft equipment, civilian*	336412,3pt.	Ebt	4,981	.21	Hrs	
Aircraft equipment, military*	336412,3pt.	Ed	2,017	.09	Hrs	
Aircraft parts*	336412,3pt.	Mnd	20,996	.89	Hrs	
Guided missiles, space vehicles, and parts*	336414-9		12,175	.51		
Guided missile and space vehicle*	336414	Ed	10,251	.43	Hrs	
Guided missile and space vehicle parts and equipment*	336415,9	Ed, Mnd	1,924	.08	Hrs	
Railroad eq., ships and boats, and other transportation equipment	3365-9		18,713	.79		
Railroad rolling stock	3365	Ebt, Sb, Mnd	3,850	.16	Hrs	
Ship and boat building	3366		9,639	.41		
Ship building and repairing*	336611		6,438	.27		
Ship building and repairing, civilian*	336611pt.	Ebt	1,603	.07	Hrs	
Ship building and repairing, military*	336611pt.	Ed	4,836	.20	Hrs	
Boat building*	336612	Cda	3,201	.14	Hrs	
Other transportation equipment	3369	Cda, Ebt, Ed	5,224	.22	Hrs	
<b>Furniture and related product</b>	337		39,849	1.69		
Household and institutional furniture and kitchen cabinet	3371	Cdo, Ebn, Sc, Mnd	22,683	.96	Kwh	

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Office furniture (including fixtures)*	3372	Ebn, Sc	13,255	.56	Kwh	
Other furniture related product*	3379	Cdo, Ebn	3,911	.17	Hrs	
<b>Miscellaneous</b>	339		71,372	3.02		
Medical equipment and supplies	3391	Cnn, Ebn, Sb, Mnn	40,157	1.70	Kwh	
Other miscellaneous*	3399		31,215	1.32		
Miscellaneous consumer goods*	33991-3	Cdo	12,004	.51	Hrs	
Miscellaneous business goods*	33994,5	Cdo, Ebn, Sb, Mnd	7,726	.33	Hrs	
All other miscellaneous*	33999	Cdo, Ebn, Sb, Mnd	11,485	.49	Hrs	
<b>Nondurable manufacturing</b>			825,678	34.92		
<b>Food</b>	311		193,224	8.17		
Animal food	3111		9,800	.41		
Dog and cat food*	311111	Cnn	5,154	.22	Hrs	
Other animal food*	311119	Sb	4,646	.20	Kwh	
Grain and oilseed milling	3112		18,156	.77		
Flour milling and malt*	31121	Cnn, Mnn	2,325	.10	Qprod	Sacks (cwt), wheat flour; Census Bureau.
Starch and vegetable fats and oils*	31122		7,131	.30		
Wet corn milling*	311221		2,870	.12		
Corn oil*	311221pt.	Cnn	319	.01	Prod	Pounds; Census Bureau.
Corn syrup and starch*	311221pt.	Mnn	2,551	.11	Prod	Pounds, shipments; Corn Refiners Association. Production worker hours for 1972-76.
Soybean and other oilseed processing*	311222,3	Cnn, Sb, Mnn	2,548	.11	Prod	Pounds, crude oils, cakes, and meals from cottonseed and soybean; Census Bureau.
Fats and oils refining and blending*	311225	Cnn, Sb, Mnn	1,713	.07	Prod	Pounds, margarine and baking/frying fats, soybean, salad and cooking oils; Census Bureau.
Breakfast cereal*	31123	Cnn	8,700	.37	Hrs	
Sugar and confectionery product	3113		13,823	.58		
Sugar*	31131	Cnn, Mnn	1,931	.08	Prod	Tons, processed beet sugar and refined cane sugar; Department of Agriculture (USDA). Quarterly data for 1982-91.
Chocolate and confectionery*	31132-4	Cnn	11,892	.50	Hrs	

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Fruit and vegetable preserving and specialty food	3114	Cnn	27,370	1.16	Kwh	
Dairy product	3115		20,832	.88		
Dairy product (except frozen)	31151		17,470	.74		
Fluid milk	311511	Cnn, Mnn	8,230	.35	Prod	Pounds; USDA.
Creamery butter	311512	Cnn, Mnn	330	.01	Prod	Pounds; USDA.
Cheese	311513	Cnn, Mnn	4,754	.20	Prod	Pounds; USDA.
Dry, condensed, and evaporated dairy product	311514	Cnn, Mnn	4,157	.18	Prod	Pounds; evaporated, condensed, and dry milk; whey; and lactose; USDA.
Ice cream and frozen dessert	31152	Cnn	3,362	.14	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		38,051	1.61		
Animal (except poultry) slaughtering and meat processing	311611–3		22,213	.94		
Beef	311611–3pt.	Cnn, Mnn	12,995	.55	Prod	Pounds; USDA.
Pork	311611–3pt.	Cnn, Mnn	8,875	.38	Prod	Pounds; USDA.
Miscellaneous meats	311611–3pt.	Cnn, Mnn	343	.01	Prod	Pounds, weighted combination of veal and lamb; USDA.
Poultry processing	311615	Cnn, Mnn	15,838	.67	Prod	Pounds; USDA.
Seafood product preparation and packaging*	3117	Cnn	3,380	.14	Hrs	
Bakeries and tortilla	3118	Cnn	31,885	1.35	Hrs	
Other food	3119		29,926	1.27		
Snack food*	31191	Cnn	9,251	.39	Hrs	
Coffee and tea	31192	Cnn	2,565	.11	Prod	Bags (60 kilo) green coffee roasted; George Gordon Patton and Company.
Other food*	31193–9	Cnn, Mnn	18,110	.77	Kwh	
<b>Beverage and tobacco product</b>	312		77,735	3.29		
Beverage	3121		31,643	1.34		
Soft drink and ice	31211	Cnn	14,514	.61	Kwh	
Breweries	31212	Cnn	10,273	.43	Prod	Barrels (31 gallons); Bureau of Alcohol, Tobacco, and Firearms (ATF).
Wineries*	31213	Cnn	4,544	.19	Prod	Wine gallons, taxable withdrawals of still wines, effervescent wines, and brandy; ATF.

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Distilleries*	31214		2,312	.10		
Liquor bottling*	31214pt.	Cnn	438	.02	Prod	Gallons, bottled-in-bond; ATF.
Liquor distilling*	31214pt.	Mnn	1,874	.08	Prod	Gallons; ATF.
Tobacco	3122		46,092	1.95		
Tobacco stemming and redrying*	31221	Mnn	513	.02	Hrs	
Tobacco product*	31222		45,579	1.93		
Cigarette*	312221	Cnn	43,044	1.82	Prod	Units; ATF.
Other tobacco product*	312229		2,534	.11		
Cigars*	312229pt.	Cnn	891	.04	Prod	Units; ATF.
Snuff and chewing tobacco*	312229pt.	Cnn	1,643	.07	Prod	Pounds; ATF. Production worker hours for 1972-86.
<b>Textile mills</b>	313		18,842	.80		
Fiber, yarn, and thread mills	3131	Mnn	2,940	.12	Prod	Bales, consumption of cotton and synthetic fibers, and thousand pounds, consumption of wool fibers; Census Bureau.
Fabric mills	3132		9,997	.42		
Broadwoven fabric mills*	31321		5,761	.24		
Cotton and synthetic fabrics*	31321pt.	Cnn, Mnn	5,511	.23	Qprod	Square yards, cotton and synthetic fabrics; Census Bureau. Long yards for 1972-79.
Wool fabrics*	31321pt.	Cnn, Mnn	250	.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	4,236	.18	Hrs	
Textile and fabric finishing and fabric coating mills	3133		5,905	.25		
Textile and fabric finishing mills*	31331	Cnn, Mnn	5,067	.21	Hrs	
Fabric coating mills*	31332	Mnn	838	.04	Hrs	
<b>Textile product mills</b>	314		12,852	.54		
Textile furnishings mills	3141		8,072	.34		
Carpet and rug mills	31411	Cdo, Ebn, Sc, Mnd	4,079	.17	Prod	Square yards, tufted and woven carpeting; Carpet and Rug Institute.
Curtain and linen mills*	31412	Cdo, Sb	3,994	.17	Hrs	
Other textile product mills	3149		4,779	.20		

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Tire cord and tire fabric mills*	314992	Mnd	282	.01	Qprod	Millions of pounds; Census Bureau.
Other textile products except tire cord and fabrics*	31491,314991,9	Cnn, Sc, Sb, Mnn	4,497	.19	Hrs	
<b>Apparel</b>	315		24,809	1.05		
Apparel knitting mills*	3151		3,184	.13		
Hosiery and sock mills*	31511	Cnn	1,927	.08	Qprod	Pairs, weighted combination of total hosiery and pantyhose; The Hosiery Association. Monthly data for 1972–91.
Other apparel knitting mills*	31519	Cnn, Mnn	1,257	.05	Hrs	
Cut and sew apparel*	3152		19,500	.82		
Cut and sew apparel contractors*	31521	Cnn, Mnn	2,252	.10	Hrs	
Men's and boys' cut and sew apparel*	31522	Cnn	7,170	.30	Hrs	
Women's and girls' cut and sew apparel*	31523	Cnn	9,079	.38	Hrs	
Other cut and sew apparel*	31529	Cnn	1,000	.04	Hrs	
Apparel accessories and other apparel*	3159	Cnn, Mnn	2,126	.09	Hrs	
<b>Leather and allied product</b>	316		4,178	.18		
Leather and hide tanning and finishing*	3161	Mnn	1,020	.04	Kwh	
Footwear*	3162	Cnn	1,672	.07	Hrs	
Other leather and allied product*	3169	Cnn, Sb, Mnd	1,487	.06	Hrs	
<b>Paper</b>	322		73,036	3.09		
Pulp, paper, and paperboard mills	3221		37,279	1.58		
Pulp mills	32211	Mnn	1,413	.06	Prod	Tons; American Forest and Paper Association (AFPA); Census Bureau, 1972–81.
Paper mills	32212		24,837	1.05		
Paper (except newsprint) mills	322121	Mnn	22,677	.96	Prod	Tons; AFPA. Shipments plus inventory change for selected components, 1972–86. Census Bureau, 1972–81.
Newsprint mills*	322122	Mnn	2,160	.09	Prod	Metric tons; Pulp and Paper Products Council.
Paperboard mills	32213	Mnn	11,029	.47	Prod	Tons; AFPA. Census Bureau, 1972–81.
Converted paper product	3222		35,757	1.51		
Paperboard container	32221	Sb, Mnn	17,534	.74	Prod	Square feet, shipments, corrugated and solid fiber products; Fibre Box Association.

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Paper bag and coated and treated paper	32222		8,443	.36		
Coated and laminated paper and plastics film*	322221,2	Cnn, Sc, Sb, Mnn	6,359	.27	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	2,084	.09	Hrs	
Stationery product*	32223	Cnn, Sb, Mnn	3,485	.15	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	6,295	.27	Prod	Tons, tissue paper; AFPA. Census Bureau, 1972-86
<b>Printing and related support activities</b>	323		60,483	2.56		
Printing*	32311	Sb, Mnn	55,741	2.36	Kwh	
Support activities for printing*	32312	Sb, Mnn	4,742	.20	Hrs	
<b>Petroleum and coal products</b>	324		47,346	2.00		
Petroleum refineries	32411		40,335	1.71		
Aviation fuel and kerosene	32411pt.	Sb	4,124	.17	Prod	Barrels, aviation gasoline, jet fuel, and kerosene; Department of Energy (DOE).
Distillate fuel oil	32411pt.	Cne	8,171	.35	Prod	Barrels, distillate fuel oil; DOE.
Automotive gasoline	32411pt.	Cne	20,118	.85	Prod	Barrels, automotive gasoline; DOE.
Refinery nonfuel materials*	32411pt.	Mnn	3,208	.14	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	1,105	.05	Prod	Barrels, residual fuel oil; DOE.
Refinery fuel n.e.c.*	32411pt.	Mec	1,353	.06	Prod	Barrels, liquefied refinery gases, ethane/ethylene, still gas, and petroleum coke; DOE.
Refinery products n.e.c.*	32411pt.	Sb	2,257	.10	Prod	Barrels, asphalt, road oil, and lubricants; DOE.
Paving, roofing, and other petroleum and coal products	32412,9	Cnn, Sc, Sb, Mnn	7,011	.30	Kwh	
<b>Chemical</b>	325		226,615	9.58		
Basic chemical	3251		37,576	1.59		
Organic chemicals	32511,9	Sb, Mnn	20,954	.89	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		16,622	.70		
Industrial gas	32512	Sb, Mnn	3,097	.13	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	2,691	.11	Prod	Tons, titanium dioxide; Census Bureau.
Other basic inorganic chemical	32518		10,833	.46		

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Alkalies and chlorine	325181	Sb, Mnn	1,064	.04	Prod	Tons, sodium hydroxide liquid and chlorine gas; The Chlorine Institute. Census Bureau, 1972–86.
Carbon black*	325182	Sb, Mnn	545	.02	Hrs	
All other basic inorganic chemical	325188		9,224	.39		
Acids, phosphates, and sulfates	325188pt.	Sb, Mnn	1,052	.04	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	2,391	.10	Prod	Kilowatt sales to facilities producing nondefense nuclear materials; Department of Energy, individual facilities.
Other inorganic chemicals	325188pt.	Sb, Mnn	5,781	.24	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		22,070	.93		
Resin and synthetic rubber	32521		17,591	.74		
Plastics material and resin	325211	Mnn	15,153	.64	Prod	Pounds, thermosetting and thermoplastic resins; Society of the Plastics Industry, Inc.
Synthetic rubber	325212	Mnn	2,438	.10	Prod	Tons; Rubber Manufacturers Association.
Artificial and synthetic fibers and filaments	32522	Mnn	4,479	.19	Prod	Pounds, noncellulosic, rayon, and acetate fibers; Fiber Economics Bureau.
Pesticide, fertilizer, and other agricultural chemical	3253		8,497	.36		
Fertilizer*	32531	Sb, Mnn	3,128	.13	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	5,369	.23	Kwh	
Pharmaceutical and medicine	3254		91,697	3.88		
Medicinal, botanical, biological product*	325411,3,4	Cnn, Mnn	20,038	.85	Hrs	
Pharmaceutical preparation*	325412	Cnn, Mnn	71,659	3.03	Prod	Fisher quantity index; IMS-Health. Production worker hours for 1972–93.
Paints, soaps and toiletries, and other chemical products	3255–9		66,775	2.82		
Paints and other chemical products	3255,9		31,961	1.35		
Paint, coating, and adhesive	3255		13,606	.58		
Paint and coating	32551		9,747	.41		
Construction paints*	32551pt.	Sc	4,948	.21	Qprod	Gallons, architectural and special-purpose coatings; Census Bureau. Monthly data for 1972–90.
Industrial paints*	32551pt.	Mnd	4,799	.20	Qprod	Gallons, product coatings and special-purpose coatings; Census Bureau. Monthly data for 1972–90.
Adhesive*	32552	Cnn, Sc, Sb, Mnn	3,859	.16	Hrs	
Other chemical product and preparation*	3259	Cnn, Sb, Mnn	18,355	.78	Kwh	

Groups and series	Classification		Value added in 2001		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	34,814	1.47	Kwh	
<b>Plastics and rubber products</b>	326		86,558	3.66		
Plastics product	3261		69,475	2.94		
Plastics bottle*	32616	Sb, Mnn	3,973	.17	Hrs	
Plastics product*	32611-5,9	Cdo, Sc, Sb, Mnd	65,502	2.77	Hrs	
Rubber product	3262		17,083	.72		
Tire	32621		7,456	.32		
Original equipment tires, business*	32621pt.	Mnd	531	.02	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial, and utility; Rubber Manufacturers Association (RMA).
Original equipment tires, consumer*	32621pt.	Mnd	884	.04	Prod	Units, passenger car tires (radial and other); RMA.
Replacement tires, business*	32621pt.	Sb	2,694	.11	Prod	Units, truck and bus tires (radial and other), tractor implement, industrial and utility; RMA.
Replacement tires, consumer*	32621pt.	Cda	3,348	.14	Prod	Units, passenger car tires (radial and other); RMA.
Rubber products ex. tires	32622,9		9,626	.41		
Rubber and plastics hoses and belting*	32622	Cdo, Sb, Mnd	1,948	.08	Kwh	
Other rubber product*	32629	Cdo, Sb, Mnd	7,679	.32	Kwh	
<b>Other manufacturing</b>			116,302	4.92		
Newspaper, periodical, book, and directory publishers	5111		111,133	4.70		
Newspaper publishers	51111		38,200	1.62		Tons, newsprint consumption; Pulp and Paper Products Council. American Newspaper Publishers Association, 1972-86.
Newspaper advertising*	51111pt.	Sb, Mnn	29,736	1.26	Prod	Index derived by deducting circulation from newsprint consumption.
Newspaper circulation*	51111pt.	Cnn	8,464	.36	Est	Federal Reserve estimates based on Editor & Publisher annual circulation data.
Periodical, book, and other publishers	51112-9	Cnn, Sb, Mnn	72,934	3.08	Hrs	
Logging	1133	Mnd	5,169	.22	Hrs	
<b>Mining</b>			162,569	6.87		
<b>Oil and gas extraction</b>	211		110,322	4.67		
Crude petroleum and natural gas extraction	211111		102,749	4.34		
Crude oil	211111pt.		46,255	1.96		

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

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
Texas crude oil*	21111pt.	Mep	9,535	.40	Prod	Barrels; Department of Energy (DOE).
Alaska and California crude oil*	21111pt.	Mep	13,269	.56	Prod	Barrels; DOE.
Louisiana and other crude oil*	21111pt.	Mep	23,451	.99	Prod	Barrels; DOE.
Natural gas	21111pt.	Mep	56,494	2.39	Prod	Billion cubic feet, marketed production; Department of Energy.
Natural gas liquid extraction	211112		7,572	.32		
Propane*	211112pt.	Cne	446	.02	Prod	Barrels, at gas-processing plants; Department of Energy.
Liquefied petroleum*	211112pt.	Mec	7,126	.30	Prod	Barrels, natural gas liquids minus propane at gas-processing plants; Department of Energy.
<b>Mining (except oil and gas)</b>	212		35,014	1.48		
Coal mining	2121	Mep	15,497	.66	Prod	Tons, anthracite and bituminous, including lignite; Btu weighted; DOE.
Metal ore mining	2122		4,971	.21		
Iron ore mining	21221	Mnd	719	.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		2,141	.09		
Gold ore mining*	212221	Mnd	2,080	.09	Prod	Kilograms, gold ores; U.S. Geological Survey.
Silver ore mining*	212222	Mnd	61	.00	Prod	Metric tons, silver ores; U.S. Geological Survey.
Copper, nickel, lead, and zinc mining	21223		1,822	.08		
Lead ore and zinc ore mining*	212231	Mnd	475	.02	Prod	Metric tons, recoverable lead and zinc; U.S. Geological Survey.
Copper ore and nickel ore mining*	212234	Mnd	1,346	.06	Prod	Metric tons, recoverable copper; U.S. Geological Survey.
Other metal ore mining*	21229	Mnd	289	.01	Prod	Metric tons, molybdenum concentrate; U.S. Geological Survey
Nonmetallic mineral mining and quarrying	2123		14,547	.62		
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21231,2		12,175	.51		
Stone mining and quarrying*	21231	Sc, Mnd	7,163	.30	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		5,013	.21		
Sand and gravel mining*	212321,2	Sc, Mnd	4,000	.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	1,013	.04	Hrs	
Other nonmetallic mineral mining and quarrying*	21239	Mnn	2,371	.10	Prod	Metric tons, phosphate rock, soda ash, sulfur frasche. U.S. Geological Survey

Groups and series	Classification		Value added in 2001		Type of series	Units, source for monthly series, and notes
	NAICS	Market	Millions of dollars	Proportion		
<b>Support activities for mining</b>	213		17,233	.73		
Drilling oil and gas wells	213111	Es	8,550	.36	Prod	Number of rotary rigs running; Hughes Christensen.
Support activities for oil and gas operations*	213112	Mep	8,050	.34	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	634	.03	Prod	Average of indexed underlying data for series in NAICS 212; U.S. Geological Survey, Bureau of Labor Statistics.
<b>Utilities</b>			224,970	9.51		
<b>Electric power generation, transmission and distribution</b>	2211		187,738	7.94		
Electric power generation	22111		78,848	3.33		
Hydroelectric power generation	221111	Mep	4,413	.19	Prod	Kilowatt hours, includes pumped storage; Department of Energy (DOE).
Fossil fuel and other electric power generation	221112,9	Mec	39,881	1.69	Prod	Kilowatt hours, conventional steam and internal combustion; DOE.
Nuclear electric power generation	221113	Mep	34,553	1.46	Prod	
Electric power transmission, control, and distribution	22112		108,890	4.60		
Commercial and other electricity sales	22112pt.	Sb	40,999	1.73	Prod	Kilowatt hours to commercial and other; DOE.
Industrial electricity sales	22112pt.	Mec	20,067	.85	Prod	Kilowatt hours to industrial users; DOE.
Residential electricity sales	22112pt.	Cne	47,824	2.02	Prod	Kilowatt hours; DOE.
<b>Natural gas distribution</b>	2212		37,232	1.57		
Commercial and other gas sales	2212pt.	Sb	6,953	.29	Prod	Cubic feet, sales to commercial establishments; DOE. American Gas Association, 1972-77.
Industrial gas sales	2212pt.	Mec	3,374	.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	19,654	.83	Prod	Cubic feet, sales to residences; DOE. American Gas Association, 1972-77.
Gas transmission	2212pt.	Mec	7,251	.31	Prod	Cubic feet, natural gas sold; DOE. American Gas Association, 1972-77.

