

**Table 3. Industry structure of capacity and capacity utilization:  
classification, value-added proportions, and description of series**

Groups and series <sup>1</sup>	Classification <sup>1</sup>			Value-added proportion, 2006 <sup>1</sup>	Beginning date <sup>1,2</sup>	Source data
	NAICS	SOP	Type			
<b>Total index</b>				<b>100.00</b>	<b>1967</b>	
Manufacturing (SIC) <sup>3</sup>				79.28	1948	
Manufacturing (NAICS)	311-39			75.34	1972	
Durable manufacturing <sup>4</sup>				39.97	1967	
Nondurable manufacturing <sup>5</sup>				35.38	1967	
Other manufacturing	1133, 5111			3.94	1972	
Mining	211-13			11.01	1967	
Electric and gas utilities	2211-12			9.70	1967	
<b>Stage of process (SOP)</b>						
Crude processing		C		15.12	1967	
Primary & semifinished processing		P		48.07	1948	
Finished processing		F		36.81	1948	

1. 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: ex. = excluding; eq. = equipment; misc. = miscellaneous; pt. = part.

**Classification:**

**NAICS:** North American Industry Classification System, 2002 edition, published by the U.S. Office of Management and Budget.

**SOP:** Stage of process classification: Crude processing (C), Primary & semifinished processing (P), Finished processing (F)

**Type:** Basis for capacity estimates.

*Phys:* Capacity estimates are based on physical data.

*SPC:* Capacity estimates are based on measures of capital services from the Federal Reserve Board and on utilization rate data for the fourth quarter of each year from the *Survey of Plant Capacity* (1974 to 2006) and from the *Quarterly Survey of Plant Capacity* (after 2006), both conducted by the Census Bureau.

*TTP:* Capacity estimates are based on trends through peaks in output.

**Value-added proportion, 2006:** This proportion is compiled from information contained in the Census of Manufactures, Annual Survey of Manufacturers, 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.

**Beginning date:** Denotes beginning date for series. Underlying physical data for some series may start at different dates.

- Series beginning prior to 1972 are based, in part, on the McGraw-Hill/DRI survey that was available from 1955-88. In those industries where the McGraw-Hill/DRI survey is used at an aggregate level and the Census' Survey of Plant Capacity is used for more detailed components, the level of estimated capacity based on the Census survey has been adjusted to achieve consistency with the McGraw-Hill/DRI survey.
- Manufacturing (SIC) consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries—logging and newspaper, periodical, book, and directory publishing—that traditionally have been considered to be manufacturing and included in the industrial sector.
- 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.

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	NAICS	SOP	Type			
<b>Manufacturing (NAICS)</b>				<b>75.34</b>	<b>1972</b>	
<i>Food</i>	311	F	SPC	7.59	1972	
<i>Beverage and tobacco product</i>	312			2.58	1972	
Beverage*	3121	F	SPC	1.41	1972	
Tobacco*	3122	F	SPC	1.18	1967	
<i>Textile mills</i>	313			.56	1972	
Fiber, yarn, and thread mills*	3131	P	SPC	.11	1972	
Fabric mills*	3132	P	SPC	.32	1972	
Textile and fabric finishing and fabric coating mills*	3133	P	SPC	.13	1972	
<i>Textile product mills</i>	314	F	SPC	.49	1972	
<i>Apparel</i>	315	F	SPC	.52	1972	
<i>Leather and allied product</i>	316	F	SPC	.10	1967	
<i>Wood product</i>	321			1.44	1972	
Sawmills and wood preservation*	3211	P	SPC	.32	1972	
Plywood and misc. wood products*	3212,9	P	SPC	1.12	1972	
<i>Paper</i>	322			2.62	1948	
Pulp, paper, and paperboard mills*	3221			1.36	1972	
Pulp mills*	32211	C	Phys	.06	1972	Capacity and output, tons; American Forest and Paper Association.
Paper mills*	32212	C	Phys	.92	1972	Same as above.
Paperboard mills*	32213	C	Phys	.38	1972	Same as above.
Converted paper product*	3222	P	SPC	1.25	1972	
<i>Printing and related support activities</i>	323	P	SPC	1.96	1972	
<i>Petroleum and coal products</i>	324			4.35	1948	
Petroleum refineries*	32411	P	Phys	3.89	1972	Capacity and gross input to crude distillation units at petroleum refineries, millions of barrels per calendar day; Department of Energy.
Paving, roofing, and other petroleum and coal products*	32412,9	P	SPC	.46	1972	
<i>Chemical</i>	325			11.39	1948	
Basic chemical*	3251			2.73	1972	
Organic chemicals*	32511,9pt.	C	SPC	1.91	1972	
Basic inorganic chemicals*	32512-8	C	SPC	.79	1972	
Ethanol*	325193	C	Phys	.03	1997	Output, barrels, Energy Information Administration, Department of Energy. Capacity, gallons, Renewable Fuels Association.
Resin, synthetic rubber, and artificial and synthetic fibers and filaments*	3252			1.18	1972	
Resin and synthetic rubber*	32521			1.06	1972	

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	NAICS	SOP	Type			
Plastics material and resin	325211	P	Phys	.98	1972	Capacity and output, major thermosetting and thermoplastic resins, pounds; American Plastics Council. Society of the Plastics Industry, Inc., 1972-98.
Synthetic rubber	325212	P	SPC	.07	1972	Capacity, tons; International Institute of Synthetic Rubber Producers; Output, tons, Rubber Manufacturers Association, 1972-2001.
Artificial and synthetic fibers and filaments	32522	P	Phys	.12	1972	Capacity and output, pounds; Fiber Economics Bureau.
Pesticide, fertilizer, and other agricultural chemical*	3253			.46	1972	
Fertilizer*	32531	C	SPC	.17	1972	
Pesticide and other agricultural chemical*	32532	C	SPC	.29	1972	
Pharmaceutical and medicine*	3254	F	SPC	4.48	1972	
Paints, soaps and toiletries, and other chemical products*	3255-9			2.55	1972	
Paints and other chemical products*	3255,9	P	SPC	1.19	1972	
Soap, cleaning compound, and toilet preparation*	3256	F	SPC	1.36	1972	
<b>Plastics and rubber products</b>	326			3.23	1948	
Plastics product*	3261	P	SPC	2.69	1972	
Rubber product*	3262			.54	1972	
Tire*	32621	P	SPC	.22	1972	
Rubber products ex. tires*	32622,9	P	SPC	.32	1972	
<b>Nonmetallic mineral product</b>	327			2.34	1948	
Clay, lime, gypsum, and misc. nonmetallic mineral products*	3271,4,9			.77	1972	
Clay and misc. nonmetallic mineral products*	3271,9	P	SPC	.59	1972	
Lime and gypsum product*	3274	P	Phys	.18	1972	Capacity and output, billions of sq. ft. of 1/2 inch basis gypsum board; Gypsum Industry Association.
Glass and glass product*	3272	P	SPC	.42	1972	
Cement and concrete product*	3273			1.14	1972	
Cement*	32731	P	Phys	.23	1972	Kiln capacity and output of cement clinker, tons; U.S. Geological Survey.
Concrete and product*	32732-9	P	SPC	.91	1972	
<b>Primary metal</b>	331			2.71	1967	
Iron and steel products	3311,2	P	Phys	1.35	1972	Capacity and output of raw steel, tons; American Iron and Steel Institute.
Alumina and aluminum production and processing*	3313	P	Phys	.39	1972	Capacity and output, metric tons of ingot; Aluminum Association, U.S. Geological Survey.
Nonferrous metal (except aluminum) production and processing*	3314	P	Phys	.40	1972	Capacity and output, tons, copper refining, copper smelting, and zinc smelting; U.S. Geological Survey.
Foundries*	3315	P	SPC	.57	1972	

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	NAICS	SOP	Type			
<b><i>Fabricated metal product</i></b>	332	P	SPC	5.50	1948	
<b><i>Machinery</i></b>	333			5.01	1967	
Agriculture, construction, and mining machinery*	3331	F	SPC	1.05	1972	
Industrial machinery*	3332	F	SPC	.65	1972	
Commercial and service industry machinery and other general purpose machinery*	3333,9	F	SPC	1.65	1972	
HVAC, metalworking, and power transmission machinery*	3334-6	P	SPC	1.66	1972	
<b><i>Computer and electronic product</i></b>	334			7.64	1972	
Computer and peripheral equipment	3341	F	SPC	1.13	1972	
Communications equipment	3342	F	SPC	1.36	1972	
Audio and video equipment and media*	3343,6	F	SPC	.21	1972	
Semiconductor and other electronic component*	3344			2.47	1972	
Electron tube*	334411	P	SPC	.01	1972	
Semiconductors and related equipment	334412-9			2.45	1972	
Semiconductor and related device*	334413			1.75	1972	
MPUs*	334413pt.	P	SPC	.68	1991	
Semiconductors except MPUs*	334413pt.	P	SPC	1.07	1991	
Electronic components ex. chips and tubes*	334412,4-9	P	SPC	.70	1972	
Navigational, measuring, electromedical, and control instruments*	3345	F	SPC	2.46	1972	
<b><i>Electrical equipment, appliance, and component</i></b>	335			1.87	1972	
Household appliance*	3352	F	SPC	.33	1972	
Electrical equipment except appliances*	3351,3,9	P	SPC	1.54	1972	
<b><i>Transportation equipment</i></b>	336			8.80	1967	
Motor vehicles and parts	3361-3			5.54	1948	
Motor vehicle*	3361			2.49	1972	
Automobile and light duty motor vehicle	33611			2.33	1972	
Automobile*	336111	F	Phys	.82	1972	Capacity and output, line speeds and peaks in output for individual plants; Ward's Communications. Census Survey, 1972-1975.
Light truck and utility vehicle*	336112	F	Phys	1.51	1972	Same as above.
Heavy duty truck*	33612			.16	1972	
Heavy trucks*	33612pt.	F	Phys	.11	1972	Stark's Truck & Off-Highway Ledger. Census Survey, 1972-1976.
Medium trucks*	33612pt.	F	Phys	.05	1972	Same as above.
Motor vehicle body and trailer*	3362	F	SPC	.44	1972	
Motor vehicle parts*	3363	P	SPC	2.61	1972	
Aerospace and miscellaneous transportation eq.	3364-9			3.26	1948	
Aerospace product and parts*	3364	F	SPC	2.45	1972	
Railroad eq., ships and boats, and other transportation equipment*	3365-9	F	SPC	.81	1972	

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	NAICS	SOP	Type			
<b>Furniture and related product</b>	337	F	SPC	1.53	1967	
<b>Miscellaneous</b>	339			3.13	1972	
Medical equipment and supplies*	3391	F	SPC	1.81	1972	
Other miscellaneous*	3399	F	SPC	1.32	1967	
<b>Other manufacturing</b>				<b>3.94</b>	<b>1972</b>	
<b>Newspaper, periodical, book, and directory publishers*</b>	5111	P	SPC	3.76	1972	
<b>Logging*</b>	1133	C	TTP	.18	1972	Census Survey, 1974-1996.
<b>Mining</b>				<b>11.01</b>	<b>1967</b>	
<b>Oil and gas extraction</b>	211			6.97	1972	
Crude petroleum and natural gas extraction*	211111			6.44	1972	
Crude oil*	211111pt.			2.66	1972	
Texas crude oil*	211111pt.	C	TTP	.55	1972	
Alaska and California crude oil*	211111pt.	C	TTP	.70	1972	
Louisiana and other crude oil*	211111pt.	C	TTP	1.41	1972	
Natural gas*	211111pt.	C	Phys	3.77	1972	Energy Information Administration, Department of Energy.
Natural gas liquid extraction*	211112			.54	1972	
Propane*	211112pt.	C	TTP	.03	1972	
Liquefied petroleum*	211112pt.	C	TTP	.50	1972	
<b>Mining (except oil and gas)</b>	212			1.93	1972	
Coal mining	2121	C	Phys	.71	1967	Energy Information Administration, Department of Energy.
Metal ore mining	2122			.50	1967	
Iron ore mining*	21221	C	Phys	.04	1972	U.S. Geological Survey.
Gold ore and silver ore mining*	21222			.11	1972	
Gold ore mining*	212221	C	Phys	.11	1972	U.S. Geological Survey.
Silver ore mining*	212222	C	Phys	.00	1972	U.S. Geological Survey.
Copper, nickel, lead, and zinc mining*	21223			.22	1972	
Lead ore and zinc ore mining*	212231	C	Phys	.02	1972	Capacity estimates and output, tons; U.S. Geological Survey.
Copper ore and nickel ore mining*	212234	C	Phys	.19	1972	Capacity estimates and output, copper ores, tons; U.S. Geological Survey.
Other metal ore mining*	21229	C	Phys	.14	1972	Capacity estimates and output, molybdenum ores, tons; U.S. Geological Survey.
Nonmetallic mineral mining and quarrying	2123			.72	1967	
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying*	21231,2	P	TTP	.62	1972	
Other nonmetallic mineral mining and quarrying*	21239	C	Phys	.10	1972	Capacity estimates and output, soda ash, phosphate rock, salt, barite, and frash sulfur, tons; U.S. Geological Survey.

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	NAICS	SOP	Type			
<i>Support activities for mining</i>	213	C	Phys	2.11	1972	Capacity based on available rigs; physical utilization is ratio of active to available rigs; ReedHycalog <sup>TM</sup> Rig Census.
<b>Electric and gas utilities</b>				<b>9.70</b>	<b>1967</b>	
<i>Electric power generation, transmission and distribution</i>	2211	P	Phys	8.04	1967	Capacity and output, Department of Energy; Capacity projections, North American Electric Reliability Council.
<i>Natural gas distribution</i>	2212	P	TTP	1.66	1967	