

# Industrial Production Source and Description Tables

**Table 3. Industry Structure of Capacity and Capacity Utilization:  
Classification, Value-Added Proportions, And Descriptions Of Series**

Groups and series <sup>1</sup>	Classification <sup>1</sup>			Value added proportion 2016 <sup>1</sup>	Beginning date <sup>1,2</sup>	Source data
	NAICS	SOP	Type			
<b>Total index</b>	. . .	. . .	. . .	100.00	1967	. . .
<b>Manufacturing (SIC)<sup>3</sup></b>	. . .	. . .	. . .	77.76	1948	. . .
Manufacturing (NAICS)	31–33	. . .	. . .	75.37	1972	. . .
Durable manufacturing	321, 327, 331–339	. . .	. . .	39.38	1967	. . .
Nondurable manufacturing	311–316, 322–326	. . .	. . .	35.99	1967	. . .
Other manufacturing	1133, 5111	. . .	. . .	2.38	1972	. . .
<b>Mining</b>	21	. . .	. . .	11.38	1967	. . .
<b>Utilities</b>	2211, 2	. . .	. . .	10.86	1967	. . .
<b>Stage of process groups</b>						
<b>Crude</b>	. . .	C	. . .	15.65	1967	. . .
<b>Semifinished</b>	. . .	P	. . .	45.09	1948	. . .
<b>Finished</b>	. . .	F	. . .	39.26	1948	. . .

. . . Not applicable.

## 1. Description of columns:

**Groups and Series:** Series marked with either “\*” or “†” are included in the published totals but are not published separately. Series marked with a “\*” are available upon request. The following abbreviations are used: ex. = excluding; eq. = equipment; misc. = miscellaneous; pt. = part.

## Classification:

**NAICS:** *North American Industry Classification System*, 2012 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, 2016:** This proportion is 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.

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

2. 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’s 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.

3. 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.

**Table 3. Industry Structure of Capacity and Capacity Utilization:  
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Groups and series <sup>1</sup>	Classification <sup>1</sup>			Value added proportion 2016 <sup>1</sup>	Beginning date <sup>1,2</sup>	Source data
	NAICS	SOP	Type			
<b>Industry groups</b>						
<b>Manufacturing (SIC)</b>	...	...	...	77.76	1948	...
<b>Manufacturing (NAICS)</b>	31–33	...	...	75.37	1972	...
<b>Durable manufacturing</b>	321, 327, 331–339	...	...	39.38	1967	...
<b>Wood product</b>	321	...	...	1.38	1972	...
Sawmills and wood preservation*	3211	P	SPC	.36	1972	...
Plywood and misc. wood products*	3212,9	P	...	1.01	1972	...
Veneer, plywood, and engineered wood product†	3212	P	Phys	.30	1986	Capacity and output, thousand sq. ft. of 3/4-inch basis particleboard and fiberboard; Composite Panel Association. Million sq. ft. of 3/8-inch basis plywood and oriented strand board; APA: The Engineered Wood Association.
Other wood product*	3219	P	SPC	.71	1986	...
<b>Nonmetallic mineral product</b>	327	...	...	2.22	1948	...
Clay, lime, gypsum, and misc. nonmetallic mineral products*	3271,4,9	...	...	.75	1972	...
Clay and misc. nonmetallic mineral products*	3271,9	P	SPC	.63	1972	...
Lime and gypsum product†	3274	P	Phys	.13	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	.49	1972	...
Cement and concrete product*	3273	...	...	.97	1972	...
Cement*	32731	P	Phys	.16	1972	Kiln capacity and output of cement clinker, tons; U.S. Geological Survey.
Concrete and product*	32732–9	P	SPC	.82	1972	...
<b>Primary metal</b>	331	...	...	2.48	1967	...
Iron and steel products	3311,2	P	Phys	1.12	1972	Capacity and output of raw steel, tons; American Iron and Steel Institute.
Alumina and aluminum production and processing*	3313	P	Phys	.36	1972	Capacity and output, metric tons of ingot; Aluminum Association, U.S. Geological Survey.
Nonferrous metal (except aluminum) production and processing*	3314	P	Phys	.48	1972	Capacity and output, tons, copper refining, copper smelting, and zinc smelting; U.S. Geological Survey.
Foundries*	3315	P	SPC	.52	1972	...
<b>Fabricated metal product</b>	332	P	SPC	5.69	1948	...
<b>Machinery</b>	333	...	...	5.34	1967	...
Agriculture, construction, and mining machinery*	3331	F	SPC	.96	1972	...
Industrial machinery*	3332	F	SPC	.53	1972	...

... Not applicable.

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Groups and series <sup>1</sup>	Classification <sup>1</sup>			Value added proportion 2016 <sup>1</sup>	Beginning date <sup>1,2</sup>	Source data
	NAICS	SOP	Type			
Commercial and service industry machinery and other general purpose machinery*	3333,9	F	SPC	2.00	1972	...
HVAC, metalworking, and power transmission machinery*	3334–6	P	SPC	1.85	1972	...
<b>Computer and electronic product</b>	334	...	...	5.31	1972	...
Computer and peripheral equipment	3341	F	SPC	.35	1972	...
Communications equipment	3342	F	SPC	.62	1972	...
Audio and video equipment and media*	3343,6	F	SPC	.10	1972	...
Semiconductor and other electronic component	3344	...	...	1.44	1972	...
Semiconductor and related device*	334413	P	...	.84	1972	...
MPUs†	334413pt.	P	SPC	.36	1992	...
Semiconductors except MPUs†	334413pt.	P	SPC	.48	1992	...
Electronic components ex. chips*	...	P	...	.60	1972	...
Navigational, measuring, electromedical, and control instruments*	3345	F	SPC	2.80	1972	...
<b>Electrical equipment, appliance, and component</b>	335	...	...	1.91	1972	...
Household appliance*	3352	F	SPC	.33	1972	...
Electrical equipment except appliances*	3351,3,9	P	SPC	1.58	1972	...
<b>Transportation equipment</b>	336	...	...	10.73	1967	...
Motor vehicles and parts	3361–3	...	...	6.09	1948	...
Motor vehicle*	3361	...	...	3.01	1972	...
Automobile and light duty motor vehicle	33611	...	...	2.79	1972	...
Automobile*	336111	F	Phys	.84	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	1.96	1972	Same as above.
Heavy duty truck*	33612	...	...	.22	1972	...
Heavy trucks*	33612pt.	F	Phys	.10	1972	Daily production rate at capacity by plant; Stark's Truck & Off-Highway Ledger. Census Survey, 1972–1976.
Medium trucks*	33612pt.	F	Phys	.11	1972	Same as above.
Motor vehicle body and trailer*	3362	F	SPC	.46	1972	...
Motor vehicle parts*	3363	P	SPC	2.62	1972	...

... Not applicable.

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	NAICS	SOP	Type			
Aerospace and miscellaneous transportation eq.	3364-9	. . .	. . .	4.65	1948	. . .
Aerospace product and parts*	3364	F	SPC	3.65	1972	. . .
Railroad eq., ships and boats, and other transportation equipment*	3365-9	F	SPC	1.00	1972	. . .
<b>Furniture and related product</b>	337	F	SPC	1.28	1967	. . .
<b>Miscellaneous</b>	339	. . .	. . .	3.05	1972	. . .
Medical equipment and supplies*	3391	F	SPC	1.88	1972	. . .
Other miscellaneous*	3399	F	SPC	1.16	1967	. . .
<b>Nondurable manufacturing</b>	311-316, 322-326	. . .	. . .	35.99	1967	. . .
<b>Food</b>	311	F	SPC	9.11	1972	. . .
<b>Beverage and tobacco product</b>	312	. . .	. . .	2.99	1972	. . .
Beverage*	3121	F	SPC	1.92	1972	. . .
Tobacco*	3122	F	SPC	1.07	1967	. . .
<b>Textile mills</b>	313	. . .	. . .	.35	1972	. . .
Fiber, yarn, and thread mills*	3131	P	SPC	.07	1972	. . .
Fabric mills*	3132	P	SPC	.18	1972	. . .
Textile and fabric finishing and fabric coating mills*	3133	P	SPC	.10	1972	. . .
<b>Textile product mills</b>	314	F	SPC	.35	1972	. . .
<b>Apparel</b>	315	F	SPC	.18	1972	. . .
<b>Leather and allied product</b>	316	F	SPC	.06	1967	. . .
<b>Paper</b>	322	. . .	. . .	2.63	1948	. . .
Pulp, paper, and paperboard mills*	3221	. . .	. . .	1.29	1972	. . .
Pulp mills†	32211	C	Phys	.09	1972	Capacity and output, tons; American Forest and Paper Association.
Paper mills†	32212	C	Phys	.68	1972	Same as above.
Paperboard mills†	32213	C	Phys	.53	1972	Same as above.
Converted paper product*	3222	P	SPC	1.34	1972	. . .
<b>Printing and related support activities</b>	323	P	SPC	1.53	1972	. . .
<b>Petroleum and coal products</b>	324	. . .	. . .	2.67	1948	. . .
Petroleum and coal products*	. . .	. . .	. . .	2.67	1972	. . .
Petroleum refineries*	32411	P	Phys	2.14	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	.54	1972	. . .
<b>Chemical</b>	325	. . .	. . .	12.45	1948	. . .
Basic chemical*	3251	. . .	. . .	3.06	1972	. . .

. . . Not applicable.

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	NAICS	SOP	Type			
Organic chemicals*	32511,9	C	. . .	2.28	1972	. . .
Ethyl alcohol†	325193	C	Phys	.23	1997	Output, barrels; Energy Information Administration, Department of Energy. Capacity, gallons; Renewable Fuels Association.
Organic chemicals ex. ethanol*	32511,9 ex 325193	C	SPC	2.05	1996	. . .
Basic inorganic chemicals*	32512–8	C	. . .	.78	1972	. . .
Alkalies and chlorine‡	32518pt.	C	Phys	.15	1972	Capacity and output, tons of chlorine; Chlorine Institute.
Basic inorganic chemicals ex. alkalies and chlorine*	32512–3, 32518pt.	C	SPC	.64	1972	. . .
Resin, synthetic rubber, and artificial and synthetic fibers and filaments*	3252	. . .	. . .	1.11	1972	. . .
Resin and synthetic rubber*	32521	. . .	. . .	1.03	1972	. . .
Plastics material and resin	325211	P	Phys	.94	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	.09	1972	Census Survey. Capacity, tons; International Institute of Synthetic Rubber Producers. Output, tons; Rubber Manufacturers Association, 1972–2001.
Artificial and synthetic fibers and filaments	32522	P	SPC	.08	1972	Census Survey. Capacity and output, pounds; Fiber Economics Bureau, 1972–2016.
Pesticide, fertilizer, and other agricultural chemical*	3253	. . .	. . .	.51	1972	. . .
Fertilizer*	32531	C	Phys	.29	1972	Capacity and Output, thousands of short tons; The Fertilizer Institute. Census Survey, 1972–1996.
Pesticide and other agricultural chemical*	32532	C	SPC	.22	1972	. . .
Pharmaceutical and medicine*	3254	F	SPC	4.82	1972	. . .
Paints, soaps and toiletries, and other chemical products*	3255–9	. . .	. . .	2.94	1972	. . .
Paints and other chemical products*	3255,9	P	SPC	1.31	1972	. . .
Soap, cleaning compound, and toilet preparation*	3256	F	SPC	1.64	1972	. . .
<b>Plastics and rubber products</b>	326	. . .	. . .	3.68	1948	. . .
Plastics product*	3261	P	SPC	3.04	1972	. . .
Rubber product*	3262	. . .	. . .	.64	1972	. . .
Tire*	32621	P	SPC	.27	1972	. . .
Rubber products ex. tires*	32622,9	P	SPC	.37	1972	. . .
<b>Other manufacturing</b>	1133, 5111	. . .	. . .	2.38	1972	. . .

. . . Not applicable.

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	NAICS	SOP	Type			
Newspaper, periodical, book, and directory publishers*	5111	P	SPC	2.20	1972	...
Logging*	1133	C	TTP	.18	1972	Census Survey, 1974–1996.
<b>Mining</b>	21	...	...	11.38	1967	...
<b>Oil and gas extraction</b>	211	...	...	7.89	1972	...
Crude petroleum and natural gas extraction*	211111	...	...	7.51	1972	...
Crude oil*	211111pt.	...	...	4.42	1972	...
Texas crude oil†	211111pt.	C	TTP	1.60	1972	...
Alaska and California crude oil†	211111pt.	C	TTP	.50	1972	...
Louisiana and other crude oil†	211111pt.	C	TTP	2.33	1972	...
Natural gas*	211111pt.	C	TTP	3.08	1972	Capacity, billion cubic feet per day; Energy Information Administration, Department of Energy, 1984–2003.
Natural gas liquid extraction*	211112	...	...	.38	1972	...
Propane†	211112pt.	C	TTP	.03	1972	...
Liquefied petroleum†	211112pt.	C	TTP	.36	1972	...
<b>Mining (except oil and gas)</b>	212	...	...	2.21	1972	...
Coal mining	2121	C	Phys	.74	1967	Capacity estimates and output, coal, thousand short tons per year; Energy Information Administration, Department of Energy.
Metal ore mining	2122	...	...	.56	1967	...
Iron ore mining*	21221	C	Phys	.04	1972	Capacity estimates and output, taconite pellets, million metric tons per year; U.S. Geological Survey.
Gold ore and silver ore mining*	21222	...	...	.21	1972	...
Gold ore mining*	212221	C	Phys	.20	1972	Capacity estimates and output, gold ore, thousand troy ounces per year; U.S. Geological Survey.
Silver ore mining*	212222	C	Phys	.01	1972	Capacity estimates and output, silver ore, thousand metric tons per year; U.S. Geological Survey.
Copper, nickel, lead, and zinc mining*	21223	...	...	.27	1972	...
Lead ore and zinc ore mining*	212231	C	Phys	.05	1972	Capacity estimates and output, tons; U.S. Geological Survey.
Copper ore and nickel ore mining*	212234	C	Phys	.22	1972	Capacity estimates and output, copper ores, tons; U.S. Geological Survey.
Other metal ore mining*	21229	C	Phys	.04	1972	Capacity estimates and output, molybdenum ores, tons; U.S. Geological Survey.
Nonmetallic mineral mining and quarrying	2123	...	...	.91	1967	...
Stone, sand, gravel, clay, and ceramic and refractory minerals mining and quarrying†	21231,2	P	TTP	.77	1972	...

... Not applicable.

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	NAICS	SOP	Type			
Other nonmetallic mineral mining and quarrying†	21239	C	Phys	.14	1972	Capacity estimates and output, soda ash and phosphate rock, tons; U.S. Geological Survey.
<b>Support activities for mining</b>	213	C	Phys	1.27	1972	Capacity based on available rigs; physical utilization is ratio of active to available rigs; NOV Downhole.
<b>Utilities</b>	2211, 2	. . .	. . .	10.86	1967	. . .
<b>Electric power generation, transmission, and distribution</b>	2211	P	Phys	9.58	1967	Capacity and output, Department of Energy. Capacity projections, North American Electric Reliability Council.
<b>Natural gas distribution</b>	2212	P	TTP	1.29	1967	. . .

. . . Not applicable.