

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

Industry name <sup>1</sup>	SIC	Value-added proportions				Source for series and beginning date
		1967	1977	1987	1997	
<b>Total index</b>		<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>1967</b>
Manufacturing		87.95	83.99	84.00	87.23	1948
Durable manufacturing		51.98	48.60	46.33	48.47	1967
Nondurable manufacturing		35.97	35.40	37.67	38.76	1967
Mining		6.36	9.75	8.00	5.96	1967
Utilities		5.69	6.25	8.00	6.80	1967
<b>Manufacturing</b>		<b>87.95</b>	<b>83.99</b>	<b>84.00</b>	<b>87.23</b>	<b>1948</b>
Primary processing <sup>2</sup>		33.69	35.43	31.03	33.97	1948
Advanced processing <sup>3</sup>		54.26	48.57	52.97	53.27	1948
<i>Foods</i>	20	8.75	8.04	8.76	8.73	Census survey; capital stock. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
<i>Tobacco products</i>	21	.67	.62	1.03	1.22	Census survey; capital stock. 1967
<i>Textile mill products</i>	22	2.68	2.31	1.85	1.51	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Fabrics*	221-4	1.05	.77	.52	.38	Census survey; capital stock. 1967
Yarn and thread*	228	.31	.32	.28	.20	Census survey; capital stock. 1967
Other textiles*	225-7,9	1.32	1.21	1.05	.94	Census survey; capital stock. 1967
<i>Apparel products</i>	23	3.31	2.81	2.34	1.85	Census survey; capital stock. 1967
<i>Lumber and products</i>	24	1.64	2.33	2.07	2.04	Aggregate, 1967-present
Logging and lumber*	241,2	.82	1.06	.85	.80	Census survey; capital stock. 1967
Lumber products*	243-5,9	.82	1.27	1.22	1.24	Census survey; capital stock. 1967
<i>Furniture and fixtures</i>	25	1.37	1.28	1.46	1.47	Census survey; capital stock. 1967
<i>Paper and products</i>	26	3.21	3.18	3.64	3.35	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Pulp and paper	261-3	1.38	1.35	1.67	1.28	Aggregate, 1967-present
Wood pulp*	261	.50	.13	.16	.07	Capacity and output, tons; American Forest and Paper Association. 1967
Paper*	262	.53	.78	1.01	.80	Capacity and output, tons; American Forest and Paper Association. 1967

1. Description of column:

**Industry name:** Series with asterisks are included in the published totals but are not shown separately in the monthly report. The following abbreviations are used: n.e.c. = not elsewhere classified; misc. = miscellaneous; pt = part; n.a. = not available. Series with n.a. marked as their "Value-added proportions" in one of the base years do not have industrial production or capacity series estimated for the period starting in that base year.

2. Primary processing industries include textile mill products, lumber and products, paper and products, industrial chemicals, petroleum products, rubber and plastics products, stone, clay, and glass products, primary metals, fabricated metal products, semiconductors and related electronic components, and motor vehicle parts.

3. Advanced processing industries include foods, tobacco products, printing and publishing, chemical products such as drugs and toiletries, leather and products, furniture and fixtures, machinery except semiconductors and related electronic components, transportation equipment except motor vehicle parts, instruments, and miscellaneous manufactures.

4. The McGraw-Hill/DRI survey was available from 1955-88. In those industries where the McGraw-Hill/DRI survey is used at an aggregate level and the Census survey 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. The Census Survey of Plant Capacity Utilization provides data beginning in 1974.

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Industry name <sup>1</sup>	SIC	Value-added proportions				Source for series and beginning date
		1967	1977	1987	1997	
Paperboard*	263	.34	.44	.50	.41	Capacity and output, tons; American Forest and Paper Association. 1967
Paper products	265,7	1.83	1.83	1.96	2.06	Census survey; capital stock. 1967
<b>Printing and publishing</b>	27	4.72	4.59	6.50	6.68	Census survey; capital stock. 1967
<b>Chemicals and products</b>	28	7.74	8.13	8.70	9.76	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Basic chemicals*	281	2.40	.93	.81	.81	Census survey; capital stock. 1972
Plastics materials	2821	.54	.59	.78	.80	Capacity and output, major thermosetting and thermoplastic resins, pounds; Society of the Plastics Industry, Inc. 1967-98; American Plastics Council 1999-present.
Synthetic rubber*	2822	.13	.08	.09	.13	Capacity, tons; International Institute of Synthetic Rubber Producers; Output, tons, Rubber Manufacturers Association. 1967
Synthetic fibers	2823,4	.58	.45	.40	.31	Capacity and output, pounds; Fiber Economics Bureau. 1967
Industrial organic chemicals	286	n.a.	1.85	1.52	1.62	Capacity and output in physical units from various trade reports. 1972
Chemical products*	283-5,9	3.62	3.69	4.63	5.51	Census survey; capital stock. 1967
Agricultural chemicals*	287	.47	.55	.46	.57	1967
Fertilizer materials*	2873,4,5	.14	.36	.18	.22	Census survey; capital stock. 1967
Agricultural chemicals n.e.c.*	2879	n.a.	.19	.28	.35	Census survey; capital stock. 1972
<b>Petroleum products</b>	29	1.78	2.35	1.33	1.71	Capacity and gross input to crude distillation units at petroleum refineries, millions of barrels per calendar day; Department of Energy. 1948
<b>Rubber and plastics products</b>	30	2.24	2.83	3.20	3.73	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Tires*	301	.60	.62	.40	.34	Census survey; capital stock. 1967
Other rubber products*	302,5,6	.66	.52	.56	.64	Census survey; capital stock. 1967
Plastic products, n.e.c.*	308	.98	1.69	2.24	2.75	Census survey; capital stock. 1967
<b>Leather and products</b>	31	.86	.53	.32	.23	Census survey; capital stock. 1967
<b>Stone, clay, and glass products</b>	32	2.74	2.73	2.41	2.25	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Glass aggregate	321-3	.76	.79	.69	.64	Census survey; capital stock. 1967
Cement*	324	.27	.24	.17	.18	Kiln capacity and output of cement clinker, tons; Department of the Interior. 1967
Stone, clay, and glass products	325-9	1.71	1.70	1.55	1.43	Census survey; capital stock. 1967
<b>Primary metals</b>	33	6.57	5.39	3.32	3.52	Aggregate, 1948-present
Iron and steel	331,2	4.21	3.52	1.92	1.95	Capacity and output of raw steel, tons; American Iron and Steel Institute. 1948
Raw steel		.72	.52	.10	.09	Capacity and output of raw steel, tons; American Iron and Steel Institute. 1967
Copper	3331	.09	.13	.03	.05	1967
Copper smelting*		.04	.05	.01	.02	Capacity and output, tons, contained copper; Department of the Interior. 1967
Copper refining*		.05	.08	.02	.03	Capacity and output, tons, contained copper; Department of the Interior. 1967

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		1967	1977	1987	1997	
Aluminum	3334	.27	.28	.14	.11	Capacity and output, metric tons of ingot; Aluminum Association, Department of the Interior. 1967
Other nonferrous metals*	334–9,339	2.01	1.45	1.23	1.41	Census survey; capital stock. 1967
<b><i>Fabricated metal products</i></b>	34	5.93	6.53	5.40	5.51	Census survey; capital stock. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
<b><i>Industrial machinery and equipment</i></b>	35	9.15	9.78	8.52	9.13	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Engine, farm, construction and allied equipment	351–3	2.55	3.20	1.73	1.94	Census survey; capital stock. 1967
Computer and office equipment*	357	1.10	1.47	2.33	2.11	Census survey; capital stock. 1967
Other nonelectrical machinery*	354–6,8,9	5.50	5.12	4.45	5.08	Census survey; capital stock. 1967
<b><i>Electrical machinery</i></b>	36	8.05	7.22	6.90	9.49	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Appliances and television sets*	363,5	1.33	1.20	.76	.64	Census survey; capital stock. 1967
Communication equipment*	366	2.30	2.03	1.44	2.16	Census survey; capital stock. 1967
Semiconductors and related electronic components	3672–9	1.13	1.20	2.11	4.29	
Semiconductors and related devices	3674	n.a.	n.a.	n.a.	2.92	Census survey; capital stock. 1967
Electronic components ex. tubes and semiconductors	3672,5–9	n.a.	n.a.	n.a.	1.37	Census survey; capital stock. 1967
Industrial electrical machinery, lighting and other*	361,2,4,9,3671	3.27	2.80	2.60	2.39	Census survey; capital stock. 1967
<b><i>Transportation equipment</i></b>	37	9.27	9.22	9.88	9.14	Aggregate, 1948-present
Motor vehicles and parts	371	4.49	5.31	4.78	5.73	Aggregate, 1977-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Autos and light trucks		n.a.	2.70	2.50	3.13	Aggregate, 1977-present.
Autos*		1.90	1.84	1.62	1.42	Capacity and output, line speeds and peaks in output for individual plants; Ward's Communications. 1977
Light trucks*		n.a.	.86	.88	1.71	Same as above. 1977
Medium and heavy trucks and trailers*		n.a.	.28	.33	.39	Same as above. Data only for medium and heavy trucks. 1977
Medium trucks		n.a.	n.a.	.12	.15	Same as above. 1987
Heavy trucks and truck trailers		n.a.	n.a.	.21	.24	Same as above. 1987
Motor vehicle parts*	3714	1.98	2.33	1.91	2.16	Census survey; capital stock. 1967
Motor homes	3716	n.a.	n.a.	.05	.05	Census survey; capital stock. 1987
Aerospace and misc. transportation equipment	372–6,9	4.77	3.91	5.10	3.41	Aggregate, 1967-present. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
Aircraft and parts*	372	3.72	2.11	2.94	2.08	Census survey; capital stock. 1967
Ships and boats*	373	.56	.67	.55	.39	Census survey; capital stock. 1967
Railroad and misc. transportation equipment	374–6,9	.49	1.13	1.60	.94	Census survey; capital stock. 1967
<b><i>Instruments</i></b>	38	2.11	2.63	5.11	4.63	Census survey; capital stock. Previously McGraw-Hill/DRI survey. 1948 <sup>4</sup>
<b><i>Miscellaneous manufactures</i></b>	39	1.51	1.49	1.26	1.29	Census survey; capital stock. 1967

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Industry name <sup>1</sup>	SIC	Value-added proportions				Source for series and beginning date
		1967	1977	1987	1997	
<b>Mining</b>		<b>6.36</b>	<b>9.75</b>	<b>8.00</b>	<b>5.96</b>	<b>1967</b>
<i>Metal mining</i>	10	.51	.50	.33	.35	1967
Iron ores*	101	.22	.15	.06	.04	Trade reports; Historical capacity estimates and output, tons; Department of the Interior. 1967
Copper ores*	102	.14	.15	.09	.12	Capacity estimates and output, tons; Department of the Interior. 1967
Lead and zinc ores*	103	.03	.05	.01	.02	Capacity estimates and output, tons; Department of the Interior. 1967
Gold and silver ores*	104	n.a.	.02	.13	.13	Aggregate, 1987-present. Previously trends through peaks in output. 1972
Gold ores*	1041	n.a.	n.a.	.12	.13	Trends through peaks in output. 1987
Silver ores*	1044	n.a.	n.a.	.01	.00	U.S. Geological Survey. 1987
Ferroalloy ores*	106	.02	.04	.00	.01	Capacity estimates and output, molybdenum ores, tons; Department of the Interior. 1967
Misc. metal ores*	108,9	n.a.	.09	.04	.03	Trends through peaks in output. 1972
<i>Coal mining</i>	12	.69	1.62	1.23	.73	Trends through peaks in output. 1967
<i>Oil and gas extraction</i>	13	4.40	6.97	5.77	4.32	1967 <sup>5</sup>
Texas crude oil*		1.07	1.31	.88	.48	1967 <sup>5</sup>
Alaska and California crude oil*		.30	.56	1.25	.67	1967 <sup>5</sup>
Louisiana and other crude oil*		1.56	1.51	.97	.65	1967 <sup>5</sup>
Natural gas*		.67	2.11	1.79	1.58	1967 <sup>5</sup>
Propane*		.04	.05	.02	.01	Trends through peaks in output. 1967
Liquefied petroleum*		.26	.42	.27	.22	Trends through peaks in output. 1967
Oil and gas well drilling	138	.50	1.00	.58	.70	Capacity based on available rigs; physical utilization is ratio of active to available rigs; Reed-Hycalog Tool Company. 1967
<i>Stone and earth minerals</i>	14	.75	.67	.67	.56	1967
Stone, sand and gravel	141,2,4	.00	.37	.42	.39	
Chemical and fertilizer materials*	147	n.a.	.21	.14	.10	Capacity estimates and output, soda ash, phosphate rock, salt, barite, and frash sulfur, tons; Department of the Interior. 1972
Misc. stone and earth minerals*	145,8,9	n.a.	.10	.10	.08	Trends through peaks in output. 1972
<b>Utilities</b>		<b>5.69</b>	<b>6.25</b>	<b>8.00</b>	<b>6.80</b>	<b>1967</b>
<i>Electric utilities</i>	491, 493pt	3.88	4.20	6.38	5.44	Capability, North American Electric Reliability Council; Output, Department of Energy; Historical, Edison Electric Institute. 1967
<i>Gas utilities</i>	492, 493pt	1.81	2.06	1.62	1.37	Estimates based on reports from Department of Energy and American Gas Association. 1967

5. The Federal Reserve estimates of crude oil and natural gas capacity are based on trends in regional production and on estimates of proven reserves, and on analyses by the Department of Energy, the American Petroleum Institute, and the American Gas Association.