

Table 29. Annual Indexes of output per hour for selected 3-digit SIC Industries, 1993-99

(Index, 1987=100)

Industry	SIC code ¹	1993	1994	1995	1996	1997	1998	1999	Average annual percent change 1990-99 ²
Mining									
Copper ores	102	118.1	126.0	117.2	116.5	118.9	118.3	105.5	0.3
Gold and silver ores	104	159.8	160.8	144.2	138.3	158.5	187.6	200.0	5.6
Bituminous coal and lignite mining	122	141.2	148.1	155.9	168.0	176.6	188.0	192.2	5.5
Crude petroleum and natural gas	131	105.9	112.4	119.4	123.9	125.2	127.4	132.3	3.5
Crushed and broken stone	142	103.6	108.7	105.4	107.2	112.6	110.2	104.8	0.3
Manufacturing									
Meat products	201	104.3	101.2	102.3	97.4	102.5	102.3	102.2	0.6
Dairy products	202	109.6	111.8	116.4	116.0	119.3	119.3	114.1	0.7
Preserved fruits and vegetables	203	106.8	107.6	109.1	109.2	110.7	117.8	120.0	2.6
Grain mill products	204	109.2	108.4	115.4	108.0	118.2	126.2	130.4	2.4
Bakery products	205	94.4	96.4	97.3	95.6	99.1	100.8	107.5	1.7
Sugar and confectionery products	206	104.5	106.2	108.3	113.8	116.7	123.0	130.0	2.6
Fats and oils	207	112.6	111.8	120.3	110.1	120.2	137.3	156.1	3.1
Beverages	208	126.4	130.1	133.5	135.0	135.5	136.4	132.4	1.4
Miscellaneous food and kindred products	209	105.2	100.9	102.9	109.1	104.1	112.7	116.3	1.8
Cigarettes	211	106.5	126.6	142.9	147.2	147.2	152.2	135.8	2.0
Broadwoven fabric mills, cotton	221	117.8	122.1	134.0	137.3	131.2	136.2	138.7	3.4
Broadwoven fabric mills, manmade	222	131.7	142.5	145.3	147.6	162.2	168.6	171.9	5.0
Narrow fabric mills	224	111.4	120.1	118.9	126.3	110.8	117.7	122.4	2.7
Knitting mills	225	127.9	134.1	138.3	150.3	138.0	135.9	144.8	3.4
Textile finishing, except wool ..	226	79.3	81.2	78.5	79.2	94.3	99.1	101.0	2.1
Carpets and rugs	227	97.1	93.3	95.8	100.2	100.3	102.3	97.8	0.5
Yarn and thread mills	228	126.6	130.7	137.4	147.4	150.4	153.0	169.5	4.9
Miscellaneous textile goods	229	110.4	118.5	123.7	123.1	118.7	120.1	127.0	1.7
Men's and boys' furnishings	232	108.4	111.7	123.4	134.7	162.1	174.7	187.0	7.0
Women's and misses' outerwear	233	121.8	127.4	135.5	141.6	149.9	151.9	174.5	5.9
Women's and children's undergarments	234	124.5	138.0	161.3	174.5	208.9	216.4	293.0	12.4
Hats, caps, and millinery	235	87.2	77.7	84.3	82.2	87.1	99.5	108.7	2.2
Miscellaneous apparel and accessories	238	94.0	105.5	116.8	120.1	101.4	107.7	105.8	1.7
Miscellaneous fabricated textile products	239	108.5	107.8	109.2	105.6	119.2	117.2	129.2	2.9
Sawmills and planing mills	242	101.9	103.3	110.2	115.6	116.9	118.7	125.4	2.6
Millwork, plywood, and structural members	243	97.0	94.5	92.7	92.4	89.1	91.3	90.7	-0.9
Wood containers	244	100.1	100.9	106.1	106.7	106.2	106.6	105.0	-0.6
Wood buildings and mobile homes	245	103.8	98.3	97.0	96.7	100.3	99.2	96.8	-0.7
Miscellaneous wood products	249	115.3	111.8	115.4	114.4	123.4	131.2	141.3	3.1
Household furniture	251	110.6	112.5	116.9	121.6	121.3	125.8	128.7	2.3
Office furniture	252	103.2	100.5	101.1	106.4	118.3	113.1	109.8	1.6
Public building and related furniture	253	161.0	157.4	173.3	181.5	214.9	207.6	210.9	6.5
Partitions and fixtures	254	107.4	98.9	101.2	97.5	121.1	125.6	127.0	3.2
Miscellaneous furniture and fixtures	259	103.6	104.7	110.0	113.2	110.7	121.9	122.7	1.9
Pulp mills	261	122.5	128.9	131.9	132.6	82.3	86.6	88.4	-3.0
Paper mills	262	102.4	110.2	118.6	111.6	112.0	114.9	122.7	2.0
Paperboard mills	263	108.4	114.9	119.5	118.0	126.7	127.8	131.0	3.0
Paperboard containers and boxes	265	107.9	108.4	105.1	106.3	109.7	113.5	113.5	1.3
Miscellaneous converted paper products	267	107.9	110.6	113.3	113.6	119.5	122.9	127.3	2.6
Newspapers	271	79.4	79.9	79.0	77.4	79.0	83.6	86.3	-0.5

See notes at end of table.

Table 29. Annual Indexes of output per hour for selected 3-digit SIC Industries, 1993-99—Continued

(Index, 1987=100)

Industry	SIC code ¹	1993	1994	1995	1996	1997	1998	1999	Average annual percent change 1990-99 ²
Manufacturing—Continued									
Periodicals	272	89.5	81.9	87.8	89.1	100.1	115.0	115.1	2.3
Books	273	103.5	103.0	101.6	99.3	102.6	101.0	105.4	1.0
Miscellaneous publishing	274	104.5	97.5	94.8	93.6	114.5	119.5	128.3	3.7
Commercial printing	275	106.9	106.5	107.2	108.3	108.8	109.9	115.2	1.3
Manifold business forms	276	91.1	82.0	76.9	75.2	77.9	76.7	73.6	-2.6
Greeting cards	277	91.4	89.0	92.5	90.8	92.2	104.2	103.9	0.4
Blankbooks and bookbinding ..	278	98.7	105.4	108.7	114.5	114.2	116.4	123.3	2.4
Printing trade services	279	115.3	111.0	116.7	126.2	123.3	126.7	120.5	2.2
Industrial inorganic chemicals	281	105.6	102.3	109.3	110.1	116.8	145.8	170.7	5.3
Plastics materials and synthetics	282	112.0	125.3	128.3	125.3	135.4	142.2	145.7	4.2
Drugs	283	99.7	104.6	108.7	112.5	112.4	104.3	104.8	0.1
Soaps, cleaners, and toilet goods	284	108.7	111.2	118.6	120.9	126.4	122.7	116.8	1.3
Paints and allied products	285	108.8	116.7	118.0	125.6	126.4	126.8	125.6	1.9
Industrial organic chemicals ...	286	92.2	99.9	98.6	99.0	111.2	105.7	111.3	1.0
Agricultural chemicals	287	103.8	105.0	108.5	110.0	119.8	117.5	106.9	0.2
Miscellaneous chemical products	289	107.1	105.7	107.8	110.1	120.3	120.6	128.1	3.1
Petroleum refining	291	120.1	123.8	132.3	142.0	149.2	155.7	169.5	5.0
Asphalt paving and roofing materials	295	108.0	104.9	111.2	113.1	123.1	124.7	115.7	1.9
Miscellaneous petroleum and coal products	299	104.2	96.3	87.4	87.1	96.5	98.5	90.7	-0.5
Tires and inner tubes	301	116.5	124.1	131.1	138.8	149.1	144.2	145.5	3.9
Hose and belting and gaskets and packing	305	99.7	102.7	104.6	107.4	113.5	112.7	114.0	1.9
Fabricated rubber products, n.e.c	306	123.1	119.1	121.5	121.0	125.3	132.3	140.8	2.9
Miscellaneous plastics products, n.e.c	308	116.7	120.8	121.0	124.7	129.9	133.8	141.2	3.3
Footwear, except rubber	314	105.2	113.0	117.1	126.1	121.4	110.9	131.6	3.0
Flat glass	321	97.7	97.6	99.6	101.5	107.6	114.0	127.7	4.7
Glass and glassware, pressed or blown	322	108.7	112.9	115.7	121.4	128.3	135.2	143.6	3.6
Products of purchased glass	323	106.2	105.9	106.1	122.0	125.1	122.0	134.0	4.2
Cement, hydraulic	324	119.9	125.6	124.3	128.7	133.1	134.1	139.6	2.4
Structural clay products	325	106.8	114.0	112.6	119.6	111.9	114.8	124.0	1.4
Pottery and related products ...	326	100.3	108.4	109.3	119.3	123.2	127.1	120.8	2.3
Concrete, gypsum, and plaster products	327	104.6	101.5	104.5	107.3	107.6	112.8	114.4	1.3
Miscellaneous nonmetallic mineral products	329	104.5	106.3	107.8	110.4	114.6	114.7	114.6	2.1
Blast furnace and basic steel products	331	133.6	142.4	142.6	147.5	155.0	151.0	148.9	3.5
Iron and steel foundries	332	112.1	113.0	112.7	116.2	120.8	121.1	126.2	1.9
Primary nonferrous metals	333	107.9	105.3	111.0	110.8	112.0	125.8	131.2	2.8
Nonferrous rolling and drawing	335	98.3	101.2	99.2	104.0	111.3	115.2	122.7	3.2
Nonferrous foundries (castings)	336	108.5	112.1	117.8	122.3	127.0	131.5	130.8	2.6
Miscellaneous primary metal products	339	111.3	134.5	152.2	149.6	136.2	140.0	150.4	3.2
Metal cans and shipping containers	341	132.3	140.9	144.2	155.2	160.3	163.8	160.3	3.5
Cutlery, handtools, and hardware	342	104.0	109.2	111.3	118.2	114.6	115.7	123.9	2.7
Plumbing and heating, except electric	343	102.0	109.1	109.2	118.6	127.3	130.3	126.9	2.4
Fabricated structural metal products	344	104.8	107.7	105.8	106.5	111.9	112.7	112.7	1.5
Metal forgings and stampings ..	346	108.7	108.5	109.3	113.6	120.2	125.9	130.3	3.5
Metal services, n.e.c	347	120.6	123.0	127.7	128.4	124.4	127.3	127.9	2.3
Ordnance and accessories, n.e.c	348	84.6	83.6	87.6	87.5	93.7	96.6	92.2	1.3

See notes at end of table.

Table 29. Annual Indexes of output per hour for selected 3-digit SIC Industries, 1993-99—Continued

(Index, 1987=100)

Industry	SIC code ¹	1993	1994	1995	1996	1997	1998	1999	Average annual percent change 1990-99 ²
Manufacturing—Continued									
Miscellaneous fabricated metal products	349	102.0	103.2	106.6	108.3	107.7	111.5	110.3	1.4
Engines and turbines	351	109.2	122.3	122.7	136.6	136.9	145.9	151.2	4.0
Farm and garden machinery ...	352	118.6	125.0	134.7	137.2	141.2	148.5	125.5	0.8
Construction and related machinery	353	108.2	117.7	122.1	123.3	132.5	137.5	137.2	2.8
Metalworking machinery	354	107.4	109.9	114.8	114.9	119.2	119.8	123.5	2.3
Special industry machinery	355	113.6	121.2	132.3	134.0	131.7	125.1	139.3	2.9
General industrial machinery	356	104.8	106.7	109.0	109.4	110.0	111.2	111.4	1.0
Computer and office equipment	357	258.6	328.6	469.4	681.3	960.2	1350.6	1840.2	33.3
Refrigeration and service machinery	358	108.6	110.7	112.7	114.7	115.0	121.4	123.2	1.9
Industrial machinery, n.e.c.	359	118.5	127.4	138.8	141.4	129.3	127.5	134.3	2.5
Electric distribution equipment	361	122.2	131.8	143.0	143.9	142.8	147.5	146.6	3.6
Electrical industrial apparatus	362	132.9	134.9	150.8	154.3	164.2	162.3	162.9	4.7
Household appliances	363	123.4	131.4	127.3	127.4	142.9	150.3	150.2	4.0
Electric lighting and wiring equipment	364	107.8	113.4	113.7	116.9	121.8	129.2	132.4	3.2
Communications equipment ...	366	163.0	186.4	200.6	229.5	275.3	276.0	327.1	11.4
Electronic components and accessories	367	217.9	274.1	401.5	514.9	613.4	768.0	1070.0	26.0
Miscellaneous electrical equipment & supplies	369	108.2	110.5	114.1	123.1	128.3	135.3	140.7	5.0
Motor vehicles and equipment	371	106.2	108.8	106.7	107.2	116.3	125.2	136.5	3.2
Aircraft and parts	372	115.2	109.6	107.9	113.0	114.7	140.1	139.6	3.9
Ship and boat building and repairing	373	106.2	103.8	98.0	99.2	105.3	102.0	112.6	0.9
Railroad equipment	374	151.0	152.5	150.0	148.3	184.2	189.1	205.1	4.2
Motorcycles, bicycles, and parts	375	130.9	125.1	120.3	125.5	120.4	127.7	121.4	2.9
Guided missiles, space vehicles, parts	376	122.1	118.9	121.0	129.4	136.5	142.4	158.2	3.5
Search and navigation equipment	381	129.1	132.1	149.5	142.2	149.5	149.1	139.7	2.4
Measuring and controlling devices	382	124.0	133.8	146.4	150.5	142.4	143.5	152.9	4.1
Medical instruments and supplies	384	127.3	126.7	131.5	139.8	147.4	158.6	160.2	3.6
Ophthalmic goods	385	157.8	160.6	167.2	188.2	196.3	199.1	229.5	7.4
Photographic equipment & supplies	386	126.9	132.7	129.5	128.7	121.5	124.8	147.2	3.5
Jewelry, silverware, and plated ware	391	96.7	99.5	100.2	102.6	114.2	113.1	133.9	3.4
Musical instruments	393	95.6	88.7	86.9	78.8	82.9	81.4	86.4	-1.3
Toys and sporting goods	394	114.2	109.7	113.6	119.9	125.7	131.6	124.0	1.5
Pens, pencils, office, and art supplies	395	111.6	129.9	135.2	144.1	127.5	132.5	129.3	1.0
Costume jewelry and notions	396	115.8	129.0	143.7	142.2	118.0	131.2	150.2	4.0
Miscellaneous manufactures ..	399	107.7	106.1	108.1	112.8	109.4	108.5	111.2	0.5
Transportation									
Railroad transportation	4011	145.4	150.3	156.2	167.0	169.8	173.3	182.3	4.9
Trucking, except local ³	4213	126.6	129.5	125.4	130.9	132.4	129.9	131.6	1.9
U.S. postal service ⁴	431	107.1	106.6	106.5	104.7	108.3	109.7	110.3	0.7
Air transportation ³	4512,13,22 (pts.)	100.2	105.7	108.6	111.1	111.6	110.7	108.3	1.7

See notes at end of table.

Table 29. Annual Indexes of output per hour for selected 3-digit SIC Industries, 1993-99—Continued

(Index, 1987=100)

Industry	SIC code ¹	1993	1994	1995	1996	1997	1998	1999	Average annual percent change 1990-99 ²
Utilities									
Telephone communications	481	135.5	142.2	148.1	159.5	160.9	170.3	189.1	5.9
Radio and television broadcasting	483	106.7	110.1	109.6	105.8	101.1	100.7	101.8	-0.3
Cable and other pay TV services	484	85.3	83.4	84.5	81.9	84.7	83.5	81.5	-1.4
Electric utilities	491,3 (pt.)	120.6	126.8	135.0	146.5	150.5	160.1	162.7	4.4
Gas utilities	492,3 (pt.)	121.8	125.6	137.1	145.9	158.6	144.4	145.0	3.6
Trade									
Lumber and other building materials dealers	521	111.4	118.9	117.8	121.6	121.8	134.2	142.3	3.5
Paint, glass, and wallpaper stores	523	114.2	127.8	130.9	133.5	134.8	163.5	163.2	4.8
Hardware stores	525	113.9	121.2	115.5	119.5	119.0	137.8	149.3	2.9
Retail nurseries, lawn and garden supply stores	526	107.1	117.0	117.4	136.4	127.5	133.7	151.2	6.7
Department stores	531	110.4	113.4	115.9	123.5	128.8	135.5	147.4	4.8
Variety stores	533	191.5	197.4	211.3	238.4	257.7	268.7	319.5	8.4
Miscellaneous general merchandise stores	539	164.2	164.8	167.3	167.6	170.3	185.7	195.2	5.7
Grocery stores	541	96.0	95.4	93.9	92.1	91.7	92.2	95.4	-0.1
Meat and fish (seafood) markets	542	97.7	95.7	94.4	86.4	90.8	95.7	99.3	0.0
Retail bakeries	546	86.5	85.3	83.0	75.9	67.6	68.1	83.8	-0.9
New and used car dealers	551	108.6	109.7	108.1	109.1	108.8	108.7	111.9	0.5
Auto and home supply stores	553	100.8	105.3	109.1	108.2	108.1	113.0	116.0	1.3
Gasoline service stations	554	115.9	121.1	127.2	126.1	126.1	133.9	140.6	3.5
Men's and boy's wear stores	561	119.5	121.8	121.4	129.8	136.3	145.2	154.6	3.3
Women's clothing stores	562	130.0	130.4	139.9	154.2	157.3	176.1	190.5	6.7
Family clothing stores	565	121.5	127.7	141.8	146.9	150.2	153.1	156.5	4.2
Shoe stores	566	117.3	130.7	139.2	151.9	148.4	145.0	151.1	3.8
Furniture and home furnishings stores	571	113.3	114.7	117.4	123.6	124.2	127.2	134.1	2.8
Household appliance stores	572	118.0	121.5	138.4	140.7	153.5	181.4	183.9	6.5
Radio, television, computer, and music stores	573	154.5	179.1	199.3	208.1	218.4	260.3	314.6	11.2
Eating and drinking places	581	103.8	102.1	102.0	100.6	101.6	102.0	104.3	0.0
Drug and proprietary stores	591	109.5	109.9	111.1	113.9	119.7	125.6	129.8	2.2
Liquor stores	592	101.8	100.1	104.7	113.8	109.9	116.5	114.6	0.9
Used merchandise stores	593	116.8	119.5	120.6	132.7	140.3	163.6	181.9	6.5
Miscellaneous shopping goods stores	594	111.5	117.1	123.1	125.3	129.1	138.8	145.2	3.4
Nonstore retailers	596	132.2	149.0	152.4	173.3	186.5	208.0	222.2	8.0
Fuel dealers	598	91.8	99.0	111.4	112.4	109.0	105.8	115.1	3.5
Retail stores, n.e.c.	599	118.1	125.8	127.0	140.2	147.8	157.3	161.0	3.9
Finance and Services									
Commercial banks	602	118.5	121.7	126.4	129.7	133.0	132.6	135.2	2.6
Hotels and motels	701	106.5	109.9	110.5	110.0	108.2	111.6	113.5	1.8
Laundry, cleaning, and garment services	721	99.9	105.0	106.6	109.8	109.0	116.2	121.8	2.0
Photographic studios, portrait	722	101.8	108.3	116.2	110.7	114.1	121.6	105.1	0.8
Beauty shops	723	97.0	101.1	104.8	107.6	108.5	110.5	113.3	1.7
Barber shops	724	121.9	118.8	115.7	128.8	150.4	157.4	138.0	3.6
Funeral services and crematories	726	98.7	104.3	100.2	97.6	101.9	104.2	99.7	1.0
Automotive repair shops	753	105.7	114.3	121.6	116.1	117.2	124.9	127.6	1.9
Motion picture theaters	783	113.8	110.4	105.0	104.1	103.4	106.1	110.5	-0.7

¹ 1987 Standard Industrial Classification.

² Average annual percent change based on compound rate formula.

³ Refers to output per employee.

⁴ Refers to output per full-time equivalent employee year on fiscal basis.

n.e.c. = not elsewhere classified