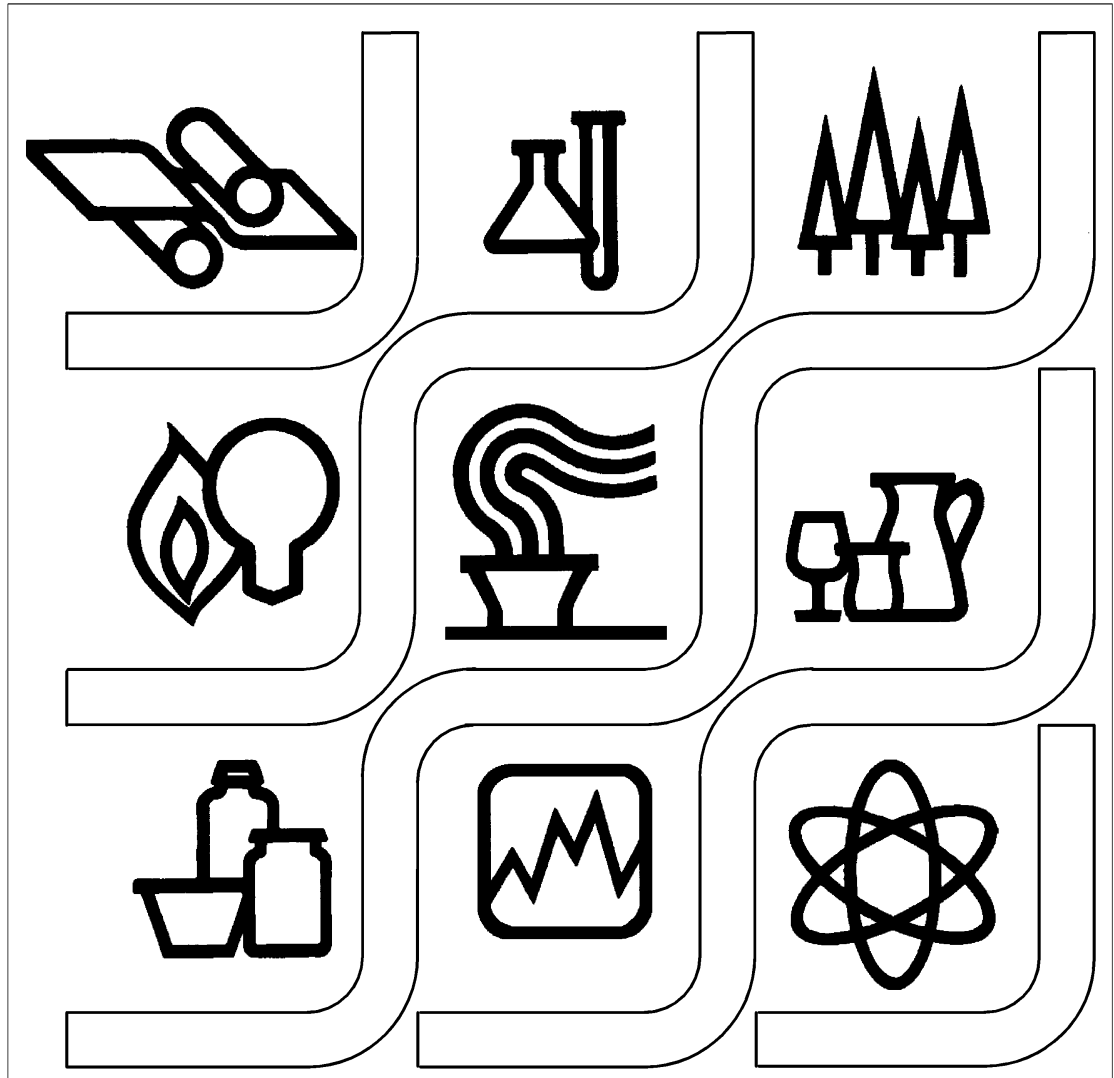


CURRENT INDUSTRIAL REPORTS

Survey of Plant Capacity: 1994

MQ-C1(94)



U.S. Department of Commerce
Economics and Statistics Administration
BUREAU OF THE CENSUS

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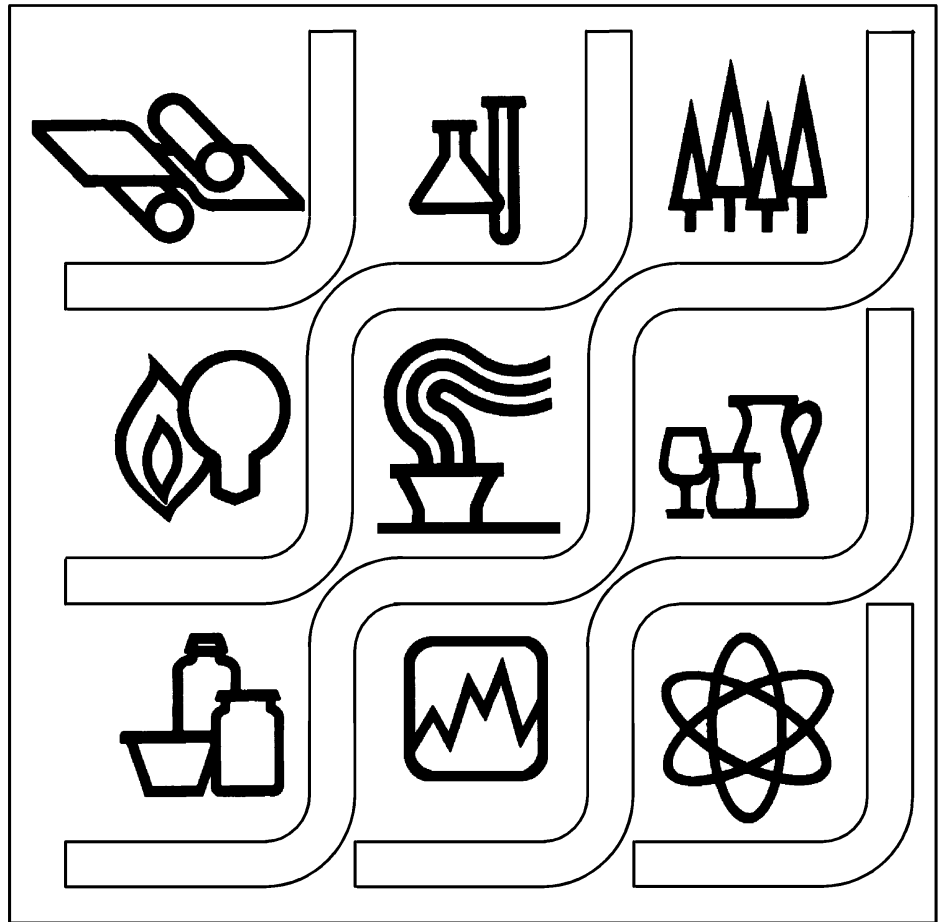
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Introduction

SUMMARY OF 1994 SURVEY RESULTS

U.S. domestic manufacturing plants used an estimated 80 percent (± 1 percentage point) of their full production capacity for the fourth quarter of 1994 and 78 percent (± 1 percentage point) for the fourth quarter of 1993. This estimated 2-percent increase from 1993 to 1994 is statistically significant at the 90-percent confidence level. Durable goods industries in the fourth quarter of 1994 operated at a 4-percent lower rate (± 1 percentage point) than nondurable goods industries with a full production utilization rate of 78 percent compared to 82 percent for nondurable goods industries. Advance processing industries for 1994 operated at a 6-percent lower rate (± 1 percentage point) than primary processing industries with a full production utilization rate of 78 percent compared with 84 percent for primary processing industries. Durable goods industries are manufacturing industries in which products have a normal life expectancy of 3 years or more. Standard Industrial Classification (SIC) major industries 24, 25, 32, 33, 34, 35, 36, 37, 38, and 39 are considered durable goods industries. Nondurable goods industries are manufacturing industries in which products generally have a life expectancy of less than 3 years. SIC major industries 20, 21, 22, 23, 26, 27, 28, 29, 30, and 31 are nondurable goods industries. Primary processing industries are industries in which products are generally the first processed output of raw materials in the manufacturing process. SIC major industries 22, 24, 26, 29, 30, 32, 33, and 34 are classified as the primary processing industries. Advance processing industries are industries in which products are considered finished manufactured items. SIC major industries 20, 21, 23, 25, 27, 31, 35, 36, 37, 38, and 39 are advance processing industries.

Among the major industries with the lowest utilization rates of their full production capacity in the fourth quarter of 1994 were instruments and related products (SIC 38) at 72 percent and transportation equipment (SIC 37) at 74 percent. Among the industries with the highest utilization rates for 1994 were petroleum and coal products (SIC 29) at 89 percent, and textile mill products (SIC 22), paper and allied products (SIC 26) and primary metal industries (SIC 33) all at 87 percent. Full production capacity is broadly defined as the maximum level of production an establishment could attain under normal operating conditions. In this report, the full production utilization rate is a ratio of the actual level of operations to the full production level.

The utilization rates based on the national emergency production level of operations generally follow the trends for full production rates. National emergency production is broadly defined as the greatest level of production an establishment can expect to sustain for 1 year or more under national emergency conditions. The national emergency production utilization rate is a ratio of the actual level of operations to the national emergency production level. Table 1a summarizes full production utilization rates and table 1b summarizes emergency production utilization rates, at two-, three-, and four-digit SIC industry levels, for fourth quarters 1989 through 1994. Tables 2a, 2b, and 2c show both full and emergency production utilization rates, at the two-, three-, and four-digit SIC industry levels, for fourth quarters 1994-1993, 1992-1991, and 1990-1989, respectively. Estimates are subject to sampling variability and nonsampling error. The range at which estimates are tested in this report is at the 90-percent confidence level. Appendix A contains reproductions of the survey form and instructions; appendix B describes the qualification of the data; and appendix C contains a description of the survey sample and estimating procedure.

REVISIONS TO THE SURVEY OF PLANT CAPACITY UTILIZATION

Beginning with the 1990 survey, data were collected at 2-year intervals. The 1994 survey is the third data collection period. During the review of 1993 and 1994 fourth quarter data, inconsistencies in the 1989-1990 and 1991-1992 reporting and estimation were noted. This report includes a comprehensive review of data for fourth quarters 1989 through 1994 to include corrections to erroneously reported data and incorrect sampling applications.

In addition, the reader should also note that the Bureau of the Census used new criteria for defining capacity levels beginning with 1990 Survey of Plant Capacity Utilization. In prior capacity utilization surveys, the Bureau of the Census used preferred level of operation and practical capacity. Preferred level of operation was defined as a level that a plant preferred not to exceed because of costs or other considerations. Implicit in the preferred level was the idea that there was a level of production at which profits for a plant are maximized. At preferred level of operation, a plant's marginal revenue for its operations would equal its marginal costs. Practical capacity was defined as the maximum level of production that a plant could reasonably

expect to attain using a realistic employee work schedule and the machinery and equipment in place during the time period covered by the survey.

In developing new definitions of capacity levels for the 1990 Survey of Plant Capacity Utilization, the Bureau of the Census sought to improve the consistency of reporting across industries for the survey, and also to make it less difficult for respondents to report estimates of capacity levels in the survey. Due to definitional differences in capacity, care should be taken when comparing the utilization rates from the 1990, 1992, and 1994 surveys with previous Bureau of the Census surveys of plant capacity utilization and other measures of capacity. Other measures of capacity employ different methodologies which may yield different utilization levels.

INDUSTRIAL CLASSIFICATION

Industrial classification definitions for 1990, 1992, and 1994 survey estimates will differ from prior years' survey estimates for certain industries. Estimates for the 1990,

1992, and 1994 surveys are classified by revised manufacturing industries definitions described in the 1987 edition of the Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols appear frequently in the tables:

–	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies.
(S)	Data suppressed because they did not meet publication standards. This includes data cells with strong evidence of bias or where the level of imputation exceeds 50 percent.
(X)	Not applicable.
n.e.c.	Not elsewhere classified.
SIC	Standard Industrial Classification.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
	All industries	80	78	77	77	77	78
	Durable goods industries	78	76	75	75	74	76
	Nondurable goods industries	82	81	80	80	81	81
	Advanced processing industries	78	77	76	76	76	77
	Primary processing industries	84	82	80	79	79	81
20	Food and kindred products	79	79	78	78	80	79
201	Meat products	86	85	85	84	84	81
2011	Meat packing plants	86	84	86	82	85	82
2013	Sausages and other prepared meats	80	84	80	80	78	72
2015	Poultry slaughtering and processing	89	87	88	89	89	88
202	Dairy products	82	82	78	78	82	80
2021	Creamery butter	75	80	63	64	89	89
2022	Cheese, natural and processed	85	88	83	86	87	85
2023	Dry, condensed, and evaporated dairy products	78	73	77	72	83	82
2024	Ice cream and frozen desserts	75	73	65	68	70	67
2026	Fluid milk	86	86	81	81	82	81
203	Preserved fruits and vegetables	77	79	75	76	77	76
2032	Canned specialties	76	78	87	87	86	87
2033	Canned fruits and vegetables	75	78	70	70	66	67
2034	Dehydrated fruits, vegetables, and soups	80	80	80	74	86	83
2035	Pickles, sauces, and salad dressings	71	72	64	66	72	70
2037	Frozen fruits and vegetables	92	91	70	78	87	84
2038	Frozen specialties, n.e.c.	75	80	87	89	86	81
204	Grain mill products	83	83	82	83	82	81
2041	Flour and other grain mill products	91	89	83	87	87	86
2043	Cereal breakfast foods	84	85	85	85	80	77
2044	Rice milling	95	94	93	94	92	93
2045	Prepared flour mixes and doughs	84	86	74	75	73	72
2046	Wet corn milling	96	96	96	96	94	91
2047	Dog and cat food	83	85	73	75	75	78
2048	Prepared feeds, n.e.c.	69	68	80	82	89	84
205	Bakery products	79	81	80	80	84	81
2051	Bread, cake, and related products	80	83	82	81	87	84
2052	Cookies and crackers	77	77	76	78	77	73
2053	Frozen bakery products, except bread	80	90	87	83	86	85
206	Sugar and confectionery products	77	78	75	74	82	82
2061	Raw cane sugar	94	95	91	95	96	98
2062	Cane sugar refining	78	(D)	(D)	(D)	86	83
2063	Beet sugar	100	100	82	94	96	98
2064	Candy and other confectionery products	75	78	69	66	83	82
2066	Chocolate and cocoa products	78	79	79	77	74	76
2067	Chewing gum ¹	(X)	(X)	(D)	(D)	77	74
2068	Salted and roasted nuts and seeds	70	(D)	73	75	73	81
207	Fats and oils	82	81	85	85	85	84
2074	Cottonseed oil mills	95	96	92	93	82	78
2075	Soybean oil mills	87	83	92	94	91	88
2076	Vegetable oil mills, n.e.c.	75	73	96	89	78	78
2077	Animal and marine fats and oils	80	78	86	82	85	88
2079	Edible fats and oils, n.e.c.	74	80	78	79	82	80
208	Beverages	76	73	75	75	78	77
2082	Malt beverages	79	75	84	86	90	89
2083	Malt	100	92	97	99	95	93
2084	Wines, brandy, and brandy spirits	57	56	83	83	68	71
2085	Distilled and blended liquors	76	81	78	77	80	77
2086	Bottled and canned soft drinks	74	72	63	65	74	74
2087	Flavoring extracts and syrups, n.e.c.	83	81	80	76	68	67
209	Miscellaneous food and kindred products	73	72	72	72	72	72
2091	Canned and cured fish and seafoods	70	72	80	78	80	94
2092	Fresh or frozen prepared fish	63	69	73	66	74	71
2095	Roasted coffee	64	60	84	85	67	68
2096	Potato chips and similar snacks	89	83	78	81	76	75
2097	Manufactured ice	(S)	(S)	(S)	(S)	(S)	(S)
2098	Macaroni and spaghetti	84	90	90	85	81	80
2099	Food preparations, n.e.c.	72	72	69	71	74	74
21	Tobacco products	86	83	86	78	91	87
211	Cigarettes	87	83	87	78	93	89
2111	Cigarettes	87	83	87	78	93	89
212	Cigars	73	64	83	82	96	96
2121	Cigars	73	64	83	82	96	96
213	Chewing and smoking tobacco	88	85	89	88	77	75
2131	Chewing and smoking tobacco	88	85	89	88	77	75
214	Tobacco stemming and redrying	75	71	77	69	74	73
2141	Tobacco stemming and redrying	75	71	77	69	74	73
22	Textile mill products	87	85	84	85	80	86
221	Broadwoven fabric mills, cotton	97	97	92	89	83	91
2211	Broadwoven fabric mills, cotton	97	97	92	89	83	91
222	Broadwoven fabric mills, manmade fiber and silk	89	86	92	90	89	89
2221	Broadwoven fabric mills, manmade fiber and silk	89	86	92	90	89	89
223	Broadwoven fabric mills, wool	86	85	80	85	79	84
2231	Broadwoven fabric mills, wool	86	85	80	85	79	84
224	Narrow fabric mills	78	81	93	89	94	93
2241	Narrow fabric mills	78	81	93	89	94	93

See footnotes at end of table.

2 SURVEY OF PLANT CAPACITY

CURRENT INDUSTRIAL REPORTS

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
22	Textile mill products—Con.						
225	Knitting mills	85	80	82	85	82	89
2251	Women's hosiery, except socks	(S)	(S)	82	85	87	87
2252	Hosiery, n.e.c.	85	85	84	94	83	90
2253	Knit outerwear mills	83	83	88	90	86	95
2254	Knit underwear mills	81	63	95	90	92	92
2257	Weft knit fabric mills	86	(S)	74	76	76	88
2258	Lace and warp knit fabric mills	84	81	75	81	80	81
2259	Knitting mills, n.e.c.	93	92	79	78	84	83
226	Textile finishing, except wool	88	87	74	76	78	81
2261	Finishing plants, cotton	91	92	66	68	77	73
2262	Finishing plants, manmade	87	85	79	82	80	88
2269	Finishing plants, n.e.c.	87	86	78	78	76	79
227	Carpets and rugs	84	85	82	79	76	82
2273	Carpets and rugs	84	85	82	79	76	82
228	Yarn and thread mills	90	90	86	87	75	84
2281	Yarn spinning mills	92	90	87	87	75	85
2282	Throwing and winding mills	(S)	(S)	87	86	73	82
2284	Thread mills	79	79	82	87	77	83
229	Miscellaneous textile goods	84	84	84	84	75	80
2295	Coated fabrics, not rubberized	83	82	76	81	69	71
2296	Tire cord and fabrics	92	91	93	91	91	89
2297	Nonwoven fabrics	84	83	87	86	75	87
2298	Cordage and twine	77	80	80	75	74	77
2299	Textile goods, n.e.c.	85	84	82	83	75	78
23	Apparel and other textile products	84	86	85	86	83	85
231	Men's and boys' suits and coats	76	75	85	88	82	84
2311	Men's and boys' suits and coats	76	75	85	88	82	84
232	Men's and boys' furnishings	90	87	90	88	86	88
2321	Men's and boys' shirts	89	88	92	92	(S)	(S)
2322	Men's and boys' underwear and nightwear	86	67	96	93	88	91
2323	Men's and boys' neckwear	65	73	86	87	90	90
2325	Men's and boys' trousers and slacks	98	93	90	86	87	88
2326	Men's and boys' work clothing	87	75	94	91	88	87
2329	Men's and boys' clothing, n.e.c.	84	85	86	85	89	91
233	Women's and misses' outerwear	82	89	85	90	86	89
2331	Women's, misses', and juniors' blouses and shirts	95	95	77	89	(S)	(S)
2335	Women's, misses', and juniors' dresses	71	87	82	87	(S)	(S)
2337	Women's, misses', and juniors' suits and coats	(S)	(S)	92	93	91	90
2339	Women's, misses', and juniors' outerwear, n.e.c.	91	92	92	90	86	88
234	Women's and children's undergarments	89	90	90	91	91	90
2341	Women's and children's underwear	90	92	90	92	(S)	(S)
2342	Brassieres, girdles, and allied garments	88	88	88	89	88	85
235	Hats, caps, and millinery	87	86	85	84	77	77
2353	Hats, caps, and millinery	87	86	85	84	77	77
236	Girls' and children's outerwear	86	89	83	82	83	86
2361	Girls' and children's dresses and blouses	78	84	89	94	79	78
2369	Girls' and children's outerwear, n.e.c.	91	93	77	73	87	92
237	Fur goods	(S)	(S)	95	94	43	70
2371	Fur goods	(S)	(S)	95	94	43	70
238	Miscellaneous apparel and accessories	72	78	80	81	75	84
2381	Fabric dress and work gloves	82	84	86	86	(S)	(S)
2384	Robes and dressing gowns	(S)	(S)	90	96	(S)	92
2385	Waterproof outerwear	92	92	93	92	93	92
2386	Leather and sheep-lined clothing	85	88	89	81	(S)	(S)
2387	Apparel belts	62	64	68	72	(S)	(S)
2389	Apparel and accessories, n.e.c.	85	91	82	79	97	98
239	Miscellaneous fabricated textile products	83	83	78	78	77	78
2391	Curtains and draperies	81	83	81	80	68	67
2392	Housefurnishings, n.e.c.	83	88	80	82	77	81
2393	Textile bags	73	75	73	76	81	88
2394	Canvas and related products	60	60	80	78	69	69
2395	Pleating and stitching	(S)	(S)	75	76	72	72
2396	Automotive and apparel trimmings	87	89	81	81	83	81
2397	Schiffli machine embroideries	85	90	81	82	82	76
2399	Fabricated textile products, n.e.c.	88	79	72	69	76	81
24	Lumber and wood products	80	81	80	78	77	79
241	Logging	(S)	(S)	91	91	82	83
2411	Logging	(S)	(S)	91	91	82	83
242	Sawmills and planing mills	79	82	85	83	74	76
2421	Sawmills and planing mills, general	78	81	87	84	73	75
2426	Hardwood dimension and flooring mills	85	87	78	77	79	83
2429	Special product sawmills, n.e.c.	77	59	59	57	(S)	(S)
243	Millwork, plywood, and structural members	78	79	75	73	78	80
2431	Millwork	71	71	68	68	74	79
2434	Wood kitchen cabinets	87	89	81	75	81	82
2435	Hardwood veneer and plywood	86	85	85	86	82	69
2436	Softwood veneer and plywood	95	92	87	89	92	96
2439	Structural wood members, n.e.c.	66	66	65	66	62	67
244	Wood containers	73	70	83	85	81	78
2441	Nailed wood boxes and shook	61	58	73	79	73	76
2448	Wood pallets and skids	74	71	87	86	82	76
2449	Wood containers, n.e.c.	86	79	80	85	88	97

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
24	Lumber and wood products—Con.						
245	Wood buildings and mobile homes	81	80	76	69	66	73
2451	Mobile homes	83	81	82	71	68	73
2452	Prefabricated wood buildings	79	77	68	66	65	73
249	Miscellaneous wood products	85	79	74	74	83	84
2491	Wood preserving	80	86	70	72	69	68
2493	Reconstituted wood products	92	92	87	82	90	93
2499	Wood products, n.e.c.	78	68	68	71	84	85
25	Furniture and fixtures	81	81	77	76	72	76
251	Household furniture	86	83	83	79	72	76
2511	Wood household furniture	87	84	85	79	70	76
2512	Upholstered household furniture	87	86	88	84	78	82
2514	Metal household furniture	87	82	72	71	63	61
2515	Mattresses and bedsprings	80	77	84	80	78	81
2517	Wood television and radio cabinets	66	63	64	73	61	74
2519	Household furniture, n.e.c.	82	82	86	87	69	77
252	Office furniture	72	74	71	70	74	72
2521	Wood office furniture	65	71	76	78	60	51
2522	Office furniture, except wood	75	74	70	68	80	83
253	Public building and related furniture	85	84	76	78	65	77
2531	Public building and related furniture	85	84	76	78	65	77
254	Partitions and fixtures	82	84	69	69	74	79
2541	Wood partitions and fixtures	79	83	70	70	72	81
2542	Partitions and fixtures, except wood	86	85	68	69	76	77
259	Miscellaneous furniture and fixtures	80	78	78	82	71	78
2591	Drapery hardware and blinds and shades	86	83	79	75	73	80
2599	Furniture and fixtures, n.e.c.	77	75	78	87	(S)	(S)
26	Paper and allied products	87	86	84	86	85	86
261	Pulp mills	97	92	91	94	92	89
2611	Pulp mills	97	92	91	94	92	89
262	Paper mills	98	98	93	95	93	93
2621	Paper mills	98	98	93	95	93	93
263	Paperboard mills	99	97	96	95	92	91
2631	Paperboard mills	99	97	96	95	92	91
265	Paperboard containers and boxes	79	76	84	85	79	80
2652	Setup paperboard boxes	77	78	86	73	91	95
2653	Corrugated and solid fiber boxes	78	73	88	87	81	82
2655	Fiber cans, drums, and similar products	77	77	85	84	57	51
2656	Sanitary food containers	80	81	75	78	82	77
2657	Folding paperboard boxes	82	81	81	86	83	85
267	Miscellaneous converted paper products	81	81	75	78	79	82
2671	Paper coated and laminated, packaging	79	79	78	80	71	72
2672	Paper coated and laminated, n.e.c.	79	75	79	80	69	78
2673	Bags plastics, laminated, and coated	70	68	78	78	81	83
2674	Bags uncoated paper and multiwall	90	87	77	79	85	86
2675	Die-cut paper and board	47	49	63	57	73	74
2676	Sanitary paper products	91	92	71	78	86	87
2677	Envelopes	88	90	89	88	87	87
2678	Stationery products	80	76	79	82	75	77
2679	Converted paper products, n.e.c.	92	91	82	84	78	81
27	Printing and publishing	83	83	82	82	82	83
271	Newspapers	78	83	84	84	76	81
2711	Newspapers	78	83	84	84	76	81
272	Periodicals	(S)	(S)	84	84	89	90
2721	Periodicals	(S)	(S)	84	84	89	90
273	Books	86	84	89	90	92	91
2731	Book publishing	(S)	(S)	91	92	(S)	(S)
2732	Book printing	87	87	80	80	84	85
274	Miscellaneous publishing	(S)	(S)	64	66	82	83
2741	Miscellaneous publishing	(S)	(S)	64	66	82	83
275	Commercial printing	83	83	84	83	80	79
2752	Commercial printing, lithographic	83	83	84	84	81	81
2754	Commercial printing, gravure	(S)	(S)	93	90	85	85
2759	Commercial printing, n.e.c.	84	82	82	81	78	74
276	Manifold business forms	79	78	79	78	80	80
2761	Manifold business forms	79	78	79	78	80	80
277	Greeting cards	80	73	79	83	92	93
2771	Greeting cards	80	73	79	83	92	93
278	Blankbooks and bookbinding	74	74	74	77	71	74
2782	Blankbooks and looseleaf binders	73	72	70	75	66	69
2789	Bookbinding and related work	77	77	87	82	87	88
279	Printing trade services	81	81	81	85	81	84
2791	Typesetting	(S)	75	81	85	82	85
2796	Platemaking services	82	84	82	85	81	83
28	Chemicals and allied products	78	78	78	79	79	79
281	Industrial inorganic chemicals	80	76	80	77	79	80
2812	Alkalies and chlorine	96	96	96	94	(S)	(S)
2813	Industrial gases	59	52	73	73	74	79
2816	Inorganic pigments	87	88	91	87	90	92
2819	Industrial inorganic chemicals, n.e.c.	85	80	79	74	77	77

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
28	Chemicals and allied products—Con.						
282	Plastics materials and synthetics	87	84	86	87	93	93
2821	Plastics materials and resins	86	84	88	88	96	96
2822	Synthetic rubber	91	84	82	79	82	79
2823	Cellulosic manmade fibers	67	68	80	85	95	96
2824	Organic fibers, noncellulosic	91	88	86	89	89	88
283	Drugs	70	72	76	78	76	75
2833	Medicinals and botanicals	80	89	86	84	86	88
2834	Pharmaceutical preparations	67	70	74	76	75	73
2835	Diagnostic substances	73	70	90	85	82	82
2836	Biological products, except diagnostic	94	97	95	88	85	86
284	Soaps, cleaners, and toilet goods	78	75	72	72	77	76
2841	Soap and other detergents	72	70	74	73	80	81
2842	Polishes and sanitation goods	76	75	68	69	84	80
2843	Surface active agents	82	71	85	79	70	73
2844	Toilet preparations	82	78	70	72	73	73
285	Paints and allied products	69	67	75	77	69	70
2851	Paints and allied products	69	67	75	77	69	70
286	Industrial organic chemicals	89	90	82	86	84	82
2861	Gum and wood chemicals	73	65	84	83	74	69
2865	Cyclic crudes and intermediates	88	86	89	85	80	80
2869	Industrial organic chemicals, n.e.c.	89	91	81	86	85	82
287	Agricultural chemicals	88	85	82	72	73	75
2873	Nitrogenous fertilizers	93	90	92	91	94	89
2874	Phosphatic fertilizers	87	84	94	89	94	86
2875	Fertilizers, mixing only	77	77	56	54	60	56
2879	Agricultural chemicals, n.e.c.	89	85	80	67	68	72
289	Miscellaneous chemical products	82	83	79	79	74	74
2891	Adhesives and sealants	82	78	75	76	73	72
2892	Explosives	78	81	72	72	66	65
2893	Printing ink	77	79	79	77	79	80
2895	Carbon black	99	98	88	85	92	91
2899	Chemical preparations, n.e.c.	82	86	83	83	74	74
29	Petroleum and coal products	89	87	87	84	82	84
291	Petroleum refining	95	93	93	91	87	90
2911	Petroleum refining	95	93	93	91	87	90
295	Asphalt paving and roofing materials	70	70	61	58	57	61
2951	Asphalt paving mixtures and blocks	62	64	50	50	50	51
2952	Asphalt felts and coatings	80	78	79	71	69	79
299	Miscellaneous petroleum and coal products	69	71	73	70	71	70
2992	Lubricating oils and greases	66	68	69	66	69	68
2999	Petroleum and coal products, n.e.c.	89	90	90	88	81	81
30	Rubber and miscellaneous plastics products	86	83	78	76	73	75
301	Tires and inner tubes	94	92	94	89	87	88
3011	Tires and inner tubes	94	92	94	89	87	88
302	Rubber and plastics footwear	73	84	79	83	83	76
3021	Rubber and plastics footwear	73	84	79	83	83	76
305	Hose and belting and gaskets and packing	80	83	80	80	74	74
3052	Rubber and plastics hose and belting	88	80	77	77	71	70
3053	Gaskets, packing, and sealing devices	76	84	82	83	78	77
306	Fabricated rubber products, n.e.c.	76	76	80	81	75	75
3061	Mechanical rubber goods	63	69	74	73	82	83
3069	Fabricated rubber products, n.e.c.	89	83	85	86	71	71
308	Miscellaneous plastics products, n.e.c.	87	83	76	73	71	74
3081	Unsupported plastics film and sheet	88	90	80	83	86	86
3082	Unsupported plastics profile shapes	92	87	79	82	82	82
3083	Laminated plastics plate, sheet, and profile shapes	89	85	82	77	82	85
3084	Plastics pipe	88	89	79	78	79	78
3085	Plastics bottles	89	88	85	83	72	76
3086	Plastics foam products	79	78	80	78	69	75
3087	Custom compounding of purchased plastics resins	85	80	72	74	78	77
3088	Plastics plumbing fixtures	69	63	66	70	64	68
3089	Plastics products, n.e.c.	88	83	73	68	67	70
31	Leather and leather products	78	77	81	80	78	82
311	Leather tanning and finishing	83	78	73	75	84	85
3111	Leather tanning and finishing	83	78	73	75	84	85
313	Footwear cut stock	69	77	88	89	90	96
3131	Footwear cut stock	69	77	88	89	90	96
314	Footwear, except rubber	80	79	81	80	79	85
3142	House slippers	81	76	72	71	66	85
3143	Men's footwear, except athletic	76	78	85	84	79	84
3144	Women's footwear, except athletic	86	83	87	78	81	86
3149	Footwear, except rubber, n.e.c.	89	82	(S)	77	90	82
315	Leather gloves and mittens	87	88	68	68	77	82
3151	Leather gloves and mittens	87	88	68	68	77	82
316	Luggage	64	61	80	77	60	67
3161	Luggage	64	61	80	77	60	67
317	Handbags and personal leather goods	88	90	89	89	81	81
3171	Women's handbags and purses	89	(S)	96	96	93	90
3172	Personal leather goods, n.e.c.	88	91	79	78	67	69

See footnotes at end of table.

Table 1a. **Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
31	Leather and leather products—Con.						
319	Leather goods, n.e.c.	77	77	85	83	83	86
3199	Leather goods, n.e.c.	77	77	85	83	83	86
32	Stone, clay, and glass products	81	78	77	76	75	78
321	Flat glass	99	98	94	93	81	85
3211	Flat glass	99	98	94	93	81	85
322	Glass and glassware, pressed or blown	93	90	90	84	83	85
3221	Glass containers	93	93	94	85	89	88
3229	Pressed and blown glass, n.e.c.	93	88	86	83	77	82
323	Products of purchased glass	84	81	77	75	77	75
3231	Products of purchased glass	84	81	77	75	77	75
324	Cement, hydraulic	97	91	83	80	87	90
3241	Cement, hydraulic	97	91	83	80	87	90
325	Structural clay products	87	83	78	76	78	88
3251	Brick and structural clay tile	89	83	79	70	73	86
3253	Ceramic wall and floor tile	95	95	87	89	80	90
3255	Clay refractories	80	75	70	74	84	89
3259	Structural clay products, n.e.c.	69	64	77	81	80	84
326	Pottery and related products	82	80	79	76	76	79
3261	Vitreous plumbing fixtures	97	92	82	80	(S)	(S)
3262	Vitreous china table and kitchenware	90	87	83	80	76	77
3263	Semivitreous table and kitchenware	86	83	83	82	(S)	(S)
3264	Porcelain electrical supplies	69	68	77	68	71	67
3269	Pottery products, n.e.c.	80	79	76	81	82	83
327	Concrete, gypsum, and plaster products	69	66	67	68	68	73
3271	Concrete block and brick	81	72	78	82	67	69
3272	Concrete products, n.e.c.	81	82	65	61	69	77
3273	Ready-mixed concrete	58	55	64	67	65	69
3274	Lime	89	81	83	86	80	81
3275	Gypsum products	95	91	83	82	80	86
328	Cut stone and stone products	80	79	76	79	86	86
3281	Cut stone and stone products	80	79	76	79	86	86
329	Miscellaneous nonmetallic mineral products	84	82	83	81	75	79
3291	Abrasive products	84	84	83	82	75	78
3292	Asbestos products	74	(D)	84	76	59	78
3295	Minerals, ground or treated	82	79	80	76	66	66
3296	Mineral wool	88	87	91	87	81	88
3297	Nonclay refractories	75	71	75	76	73	70
3299	Nonmetallic mineral products, n.e.c.	82	(D)	74	73	80	90
33	Primary metal industries	87	83	80	80	80	81
331	Blast furnace and basic steel products	91	87	83	84	84	84
3312	Blast furnaces and steel mills	93	88	84	85	85	84
3313	Electrometallurgical products	81	81	80	80	79	81
3315	Steel wire and related products	86	86	83	84	76	79
3316	Cold finishing of steel shapes	85	82	81	81	84	85
3317	Steel pipe and tubes	87	82	80	79	82	84
332	Iron and steel foundries	81	75	72	70	72	72
3321	Gray and ductile iron foundries	84	78	72	70	77	76
3322	Malleable iron foundries	88	83	76	73	69	75
3324	Steel investment foundries	72	66	72	73	80	76
3325	Steel foundries, n.e.c.	79	75	69	69	56	60
333	Primary nonferrous metals	88	84	93	93	88	85
3331	Primary copper	92	86	96	96	96	93
3334	Primary aluminum	85	84	99	99	99	90
3339	Primary nonferrous metals, n.e.c.	86	83	81	82	68	72
334	Secondary nonferrous metals	89	88	85	83	84	87
3341	Secondary nonferrous metals	89	88	85	83	84	87
335	Nonferrous rolling and drawing	85	83	81	80	77	82
3351	Copper rolling and drawing	91	86	84	86	81	85
3353	Aluminum sheet, plate, and foil	91	81	88	80	73	74
3354	Aluminum extruded products	85	77	76	71	74	82
3355	Aluminum rolling and drawing, n.e.c.	89	(D)	(D)	(D)	90	90
3356	Nonferrous rolling and drawing, n.e.c.	81	(D)	(D)	(D)	79	84
3357	Nonferrous wire drawing and insulating	82	89	80	81	79	85
336	Nonferrous foundries (castings)	82	80	72	73	72	78
3363	Aluminum die-castings	85	83	77	75	65	77
3364	Nonferrous die-castings, except aluminum	83	79	74	71	78	74
3365	Aluminum foundries	77	75	71	70	76	82
3366	Copper foundries	83	81	80	74	76	78
3369	Nonferrous foundries, n.e.c.	83	83	(S)	81	86	78
339	Miscellaneous primary metal products	83	82	66	68	75	75
3398	Metal heat treating	85	80	64	66	74	73
3399	Primary metal products, n.e.c.	81	86	69	71	76	79
34	Fabricated metal products	79	77	74	74	74	77
341	Metal cans and shipping containers	87	86	82	79	87	89
3411	Metal cans	89	88	82	81	89	89
3412	Metal barrels, drums, and pails	75	74	84	66	75	90
342	Cutlery, handtools, and hardware	85	83	82	80	78	81
3421	Cutlery	90	92	93	95	88	89
3423	Hand and edge tools, n.e.c.	81	76	77	77	84	85
3425	Saw blades and handsaws	86	84	82	84	72	83
3429	Hardware, n.e.c.	86	86	82	78	74	78

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
34	Fabricated metal products—Con.						
343	Plumbing and heating, except electric	81	79	68	70	66	70
3431	Metal sanitary ware	89	89	79	82	78	91
3432	Plumbing fixture fittings and trim	75	74	74	73	75	75
3433	Heating equipment, except electric	85	81	59	63	53	59
344	Fabricated structural metal products	75	75	71	71	73	76
3441	Fabricated structural metal	71	68	72	77	75	73
3442	Metal doors, sash, and trim	78	78	77	74	76	81
3443	Fabricated plate work (boiler shops)	77	82	73	78	79	82
3444	Sheet metal work	76	74	63	58	67	72
3446	Architectural metal work	72	73	76	76	66	70
3448	Prefabricated metal buildings	79	78	80	78	83	85
3449	Miscellaneous metal work	71	69	69	72	73	80
345	Screw machine products, bolts, etc.	82	80	77	80	75	80
3451	Screw machine products	80	79	77	77	70	82
3452	Bolts, nuts, rivets, and washers	84	81	77	81	78	80
346	Metal forgings and stampings	80	78	76	75	73	79
3462	Iron and steel forgings	73	73	60	59	76	79
3463	Nonferrous forgings	79	77	73	77	70	71
3465	Automotive stampings	87	88	87	84	69	77
3466	Crowns and closures	78	80	83	84	73	78
3469	Metal stampings, n.e.c.	73	69	71	72	77	81
347	Metal services, n.e.c.	76	73	72	73	82	81
3471	Plating and polishing	84	79	73	73	87	85
3479	Metal coating and allied services	67	67	72	71	77	76
348	Ordnance and accessories, n.e.c.	69	67	65	68	64	68
3482	Small arms ammunition	58	52	56	64	69	73
3483	Ammunition, except for small arms, n.e.c.	66	61	69	75	62	66
3484	Small arms	91	87	88	84	77	87
3489	Ordnance and accessories, n.e.c.	67	76	56	56	60	61
349	Miscellaneous fabricated metal products	78	78	76	75	75	75
3491	Industrial valves	77	82	72	76	80	84
3492	Fluid power valves and hose fittings	81	78	81	81	73	76
3493	Steel springs, except wire	72	68	64	56	78	78
3494	Valves and pipe fittings, n.e.c.	87	77	68	72	70	66
3495	Wire springs	84	84	81	76	69	71
3496	Miscellaneous fabricated wire products	83	82	77	77	76	72
3497	Metal foil and leaf	70	83	85	84	74	70
3498	Fabricated pipe and fittings	78	75	68	73	82	80
3499	Fabricated metal products, n.e.c.	76	71	80	74	72	72
35	Industrial machinery and equipment	79	77	74	74	71	72
351	Engines and turbines	85	79	83	76	66	68
3511	Turbines and turbine generator sets	85	84	90	91	87	84
3519	Internal combustion engines, n.e.c.	86	75	79	70	61	63
352	Farm and garden machinery	76	77	60	64	67	68
3523	Farm machinery and equipment	78	77	58	64	66	66
3524	Lawn and garden equipment	73	78	68	63	73	73
353	Construction and related machinery	80	75	68	64	74	78
3531	Construction machinery	81	74	68	58	72	83
3532	Mining machinery	63	62	60	64	81	72
3533	Oil and gas field machinery	82	81	72	77	72	68
3534	Elevators and moving stairways	73	72	68	69	90	92
3535	Conveyors and conveying equipment	84	78	68	65	75	74
3536	Hoists, cranes, and monorails	87	88	69	70	88	88
3537	Industrial trucks and tractors	75	73	72	72	70	73
354	Metalworking machinery	81	78	78	78	78	81
3541	Machine tools, metal cutting types	79	65	70	65	78	85
3542	Machine tools, metal forming types	76	77	74	63	75	73
3543	Industrial patterns	78	71	55	74	73	86
3544	Special dies, tools, jigs, and fixtures	82	85	81	83	86	85
3545	Machine tool accessories	82	78	76	76	74	79
3546	Power-driven handtools	76	69	83	75	72	80
3547	Rolling mill machinery	69	85	80	78	66	82
3548	Welding apparatus	86	86	84	88	77	71
3549	Metalworking machinery, n.e.c.	79	72	75	87	69	67
355	Special industry machinery	79	75	80	79	75	78
3552	Textile machinery	73	79	72	68	82	85
3553	Woodworking machinery	69	69	69	61	78	71
3554	Paper industries machinery	89	82	81	84	76	88
3555	Printing trades machinery	87	79	73	77	73	83
3556	Food products machinery	80	81	79	85	83	82
3559	Special industry machinery, n.e.c.	78	72	84	82	72	74
356	General industrial machinery	79	76	72	73	73	75
3561	Pumps and pumping equipment	77	77	65	65	82	83
3562	Ball and roller bearings	91	80	82	81	73	78
3563	Air and gas compressors	82	75	66	69	71	70
3564	Blowers and fans	73	75	66	68	72	76
3565	Packaging machinery	83	84	85	85	76	72
3566	Speed changers, drives, and gears	77	76	78	74	78	81
3567	Industrial furnaces and ovens	68	64	74	77	67	71
3568	Power transmission equipment, n.e.c.	81	78	67	69	64	69
3569	General industrial machinery, n.e.c.	73	72	72	74	71	75
357	Computer and office equipment	78	77	77	80	70	68
3571	Electronic computers	73	73	75	82	71	68
3572	Computer storage devices	95	95	88	86	73	72
3575	Computer terminals	(S)	78	75	80	40	31
3577	Computer peripheral equipment, n.e.c.	82	77	76	69	75	78
3578	Calculating and accounting equipment	78	74	73	70	57	60
3579	Office machines, n.e.c.	85	88	83	79	71	72

See footnotes at end of table.

Table 1a. **Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
35	Industrial machinery and equipment—Con.						
358	Refrigeration and service machinery	79	76	76	76	64	64
3581	Automatic vending machines	80	73	76	69	68	84
3582	Commercial laundry equipment	89	93	69	68	78	86
3585	Refrigeration and heating equipment	79	77	76	77	63	68
3586	Measuring and dispensing pumps	76	73	67	56	74	77
3589	Service industry machinery, n.e.c.	78	72	79	77	65	49
359	Industrial machinery, n.e.c.	77	77	72	72	69	73
3592	Carburetors, pistons, rings, and valves	93	82	81	75	81	86
3593	Fluid power cylinders and actuators	67	64	59	61	67	64
3594	Fluid power pumps and motors	84	79	50	49	70	73
3596	Scales and balances, except laboratory	85	83	85	81	79	79
3599	Industrial machinery, n.e.c.	76	77	75	76	69	74
36	Electronic and other electric equipment	81	79	76	76	74	77
361	Electric distribution equipment	72	70	75	72	73	74
3612	Transformers, except electronic	77	76	73	71	78	78
3613	Switchgear and switchboard apparatus	69	67	76	73	71	72
362	Electrical industrial apparatus	84	80	77	77	71	77
3621	Motors and generators	82	79	81	81	71	78
3624	Carbon and graphite products	82	86	82	80	80	81
3625	Relays and industrial controls	84	79	76	75	70	73
3629	Electrical industrial apparatus, n.e.c.	85	83	69	70	75	87
363	Household appliances	82	84	79	75	73	77
3631	Household cooking equipment	72	72	62	63	66	70
3632	Household refrigerators and freezers	80	82	78	77	67	73
3633	Household laundry equipment	89	(D)	(D)	(D)	78	84
3634	Electric housewares and fans	88	88	86	81	80	76
3635	Household vacuum cleaners	70	75	79	68	70	73
3639	Household appliances, n.e.c.	92	(D)	(D)	(D)	75	84
364	Electric lighting and wiring equipment	82	81	77	75	73	76
3641	Electric lamp bulbs and tubes	85	85	82	82	75	76
3643	Current-carrying wiring devices	86	86	76	75	73	75
3644	Noncurrent-carrying wiring devices	80	79	75	77	73	81
3645	Residential lighting fixtures	74	73	59	51	67	70
3646	Commercial lighting fixtures	80	76	74	76	73	74
3647	Vehicular lighting equipment	81	81	83	74	73	75
3648	Lighting equipment, n.e.c.	78	78	82	77	80	84
365	Household audio and video equipment	85	86	74	72	79	79
3651	Household audio and video equipment	85	86	68	67	78	79
3652	Prerecorded records and tapes	84	86	87	82	81	78
366	Communications equipment	75	74	75	74	73	74
3661	Telephone and telegraph apparatus	79	80	77	73	75	81
3663	Radio and television communications equipment	70	67	72	73	70	70
3669	Communications equipment, n.e.c.	84	81	86	83	76	70
367	Electronic components and accessories	84	81	75	79	77	78
3671	Electron tubes	69	69	80	77	81	90
3672	Printed circuit boards	83	78	86	79	80	83
3674	Semiconductors and related devices	90	87	73	82	77	78
3675	Electronic capacitors	88	85	75	78	79	77
3676	Electronic resistors	60	60	76	77	68	72
3677	Electronic coils and transformers	76	73	71	77	73	80
3678	Electronic connectors	68	62	75	78	73	74
3679	Electronic components, n.e.c.	79	77	74	73	76	76
369	Miscellaneous electrical equipment and supplies	81	76	81	80	73	79
3691	Storage batteries	80	77	86	83	75	77
3692	Primary batteries, dry and wet	86	83	88	83	72	78
3694	Engine electrical equipment	95	93	85	80	73	85
3695	Magnetic and optical recording media	91	89	87	87	82	84
3699	Electrical equipment and supplies, n.e.c.	61	54	72	74	80	73
37	Transportation equipment	74	72	72	72	73	73
371	Motor vehicles and equipment	82	79	73	68	70	76
3711	Motor vehicles and car bodies	82	80	71	64	72	77
3713	Truck and bus bodies	70	66	74	71	56	56
3714	Motor vehicle parts and accessories	84	80	76	79	70	79
3715	Truck trailers	87	83	63	55	67	80
3716	Motor homes	63	56	52	49	31	50
372	Aircraft and parts	60	63	75	79	81	71
3721	Aircraft	55	59	70	74	80	62
3724	Aircraft engines and engine parts	66	66	73	78	78	80
3728	Aircraft parts and equipment	67	70	88	88	86	81
373	Ship and boat building and repairing	67	69	71	83	70	74
3731	Ship building and repairing	67	71	73	88	82	78
3732	Boat building and repairing	66	64	63	69	53	65
374	Railroad equipment	82	82	67	61	67	65
3743	Railroad equipment	82	82	67	61	67	65
375	Motorcycles, bicycles, and parts	88	88	93	86	62	61
3751	Motorcycles, bicycles, and parts	88	88	93	86	62	61
376	Guided missiles, space vehicles, parts	74	67	65	70	70	69
3761	Guided missiles and space vehicles	83	85	72	75	71	70
3764	Space propulsion units and parts	51	45	45	50	74	71
3769	Space vehicle equipment, n.e.c.	65	67	53	65	54	60
379	Miscellaneous transportation equipment	76	69	72	67	66	70
3792	Travel trailers and campers	71	72	66	59	63	68
3795	Tanks and tank components	53	56	68	61	60	64
3799	Transportation equipment, n.e.c.	92	85	83	83	78	81

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production rate					
		1994	1993	1992	1991	1990	1989
38	Instruments and related products	72	70	73	76	75	76
381	Search and navigation equipment	56	56	66	71	70	68
3812	Search and navigation equipment	56	56	66	71	70	68
382	Measuring and controlling devices	76	73	71	73	77	77
3821	Laboratory apparatus and furniture	75	76	78	77	83	86
3822	Environmental controls	70	66	84	83	72	77
3823	Process control instruments	68	66	72	72	82	81
3824	Fluid meters and counting devices	92	86	90	78	80	87
3825	Instruments to measure electricity	74	73	70	73	76	71
3826	Analytical instruments	84	83	69	75	77	80
3827	Optical instruments and lenses	79	77	59	60	67	66
3829	Measuring and controlling devices, n.e.c.	76	70	68	73	74	76
384	Medical instruments and supplies	75	75	76	78	81	79
3841	Surgical and medical instruments	65	64	69	72	83	77
3842	Surgical appliances and supplies	87	85	86	85	83	83
3843	Dental equipment and supplies	78	78	82	80	82	83
3844	X-ray apparatus and tubes	81	80	76	81	69	71
3845	Electromedical equipment	78	79	69	75	77	76
385	Ophthalmic goods	84	83	81	82	82	94
3851	Ophthalmic goods	84	83	81	82	82	94
386	Photographic equipment and supplies	92	85	88	85	77	82
3861	Photographic equipment and supplies	92	85	88	85	77	82
387	Watches, clocks, watchcases, and parts	67	61	69	66	75	66
3873	Watches, clocks, watchcases, and parts	67	61	69	66	75	66
39	Miscellaneous manufacturing industries	75	74	71	68	75	77
391	Jewelry, silverware, and plated ware	83	81	71	69	69	69
3911	Jewelry, precious metal	89	86	68	66	65	65
3914	Silverware and plated ware	78	83	87	88	82	84
3915	Jewelers' materials and lapidary work	63	65	63	65	(S)	(S)
393	Musical instruments	86	78	76	79	66	61
3931	Musical instruments	86	78	76	79	66	61
394	Toys and sporting goods	72	72	67	60	76	77
3942	Dolls and stuffed toys	56	71	59	48	60	59
3944	Games, toys, and children's vehicles	70	73	77	79	72	70
3949	Sporting and athletic goods, n.e.c.	73	72	64	54	81	84
395	Pens, pencils, office, and art supplies	73	70	72	72	78	86
3951	Pens and mechanical pencils	60	57	74	75	67	85
3952	Lead pencils and art goods	92	90	92	91	97	97
3953	Marking devices	85	86	52	51	77	77
3955	Carbon paper and inked ribbons	64	63	72	71	82	85
396	Costume jewelry and notions	67	68	81	80	79	74
3961	Costume jewelry	61	64	81	78	79	70
3965	Fasteners, buttons, needles, and pins	83	76	81	83	79	82
399	Miscellaneous manufactures	76	75	73	72	76	80
3991	Brooms and brushes	61	59	75	76	80	80
3993	Signs and advertising specialties	77	75	64	58	74	79
3995	Burial caskets	92	91	80	82	70	69
3996	Hard surface floor coverings, n.e.c.	88	85	83	80	78	86
3999	Manufacturing industries, n.e.c.	73	76	77	81	78	81

¹SIC 2067, Chewing Gum is combined with SIC 2064 as of 1993.

Note: Some data are revised to include additional information. See introduction for a discussion of the revision.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
	All industries	63	61	62	62	70	71
	Durable goods industries	59	57	58	58	66	68
	Nondurable goods industries	67	67	66	66	74	75
	Advanced processing industries	60	59	60	60	68	69
	Primary processing industries	69	67	68	67	73	75
20	Food and kindred products	66	66	68	68	74	73
201	Meat products	74	74	67	68	78	75
2011	Meat packing plants	76	74	62	61	81	78
2013	Sausages and other prepared meats	71	74	70	71	72	66
2015	Poultry slaughtering and processing	76	75	69	72	81	81
202	Dairy products	74	74	64	64	76	73
2021	Creamery butter	63	68	62	63	82	82
2022	Cheese, natural and processed	80	81	58	59	81	78
2023	Dry, condensed, and evaporated dairy products	71	67	65	62	72	72
2024	Ice cream and frozen desserts	65	66	50	53	66	63
2026	Fluid milk	78	78	73	73	78	74
203	Preserved fruits and vegetables	63	65	68	70	70	69
2032	Canned specialties	57	64	85	84	83	83
2033	Canned fruits and vegetables	57	58	69	69	58	59
2034	Dehydrated fruits, vegetables, and soups	61	57	67	64	81	77
2035	Pickles, sauces, and salad dressings	61	60	51	52	67	65
2037	Frozen fruits and vegetables	86	86	66	75	83	81
2038	Frozen specialties, n.e.c.	68	73	76	79	74	69
204	Grain mill products	72	71	74	74	78	77
2041	Flour and other grain mill products	85	82	82	85	87	86
2043	Cereal breakfast foods	72	68	78	78	76	73
2044	Rice milling	93	93	91	88	88	89
2045	Prepared flour mixes and doughs	70	72	52	52	72	71
2046	Wet corn milling	96	96	96	96	93	91
2047	Dog and cat food	79	83	70	72	71	73
2048	Prepared feeds, n.e.c.	54	53	63	63	81	78
205	Bakery products	67	69	76	75	79	75
2051	Bread, cake, and related products	65	70	78	76	78	78
2052	Cookies and crackers	70	67	73	75	83	69
2053	Frozen bakery products, except bread	68	70	66	65	80	79
206	Sugar and confectionery products	64	65	68	67	76	76
2061	Raw cane sugar	94	95	80	82	96	97
2062	Cane sugar refining	71	(D)	(D)	(D)	81	78
2063	Beet sugar	96	95	78	88	88	90
2064	Candy and other confectionery products	59	59	64	62	74	74
2066	Chocolate and cocoa products	67	78	77	76	71	74
2067	Chewing gum ¹	(X)	(X)	(D)	(D)	68	68
2068	Salted and roasted nuts and seeds	60	(D)	55	56	75	78
207	Fats and oils	74	70	81	83	81	79
2074	Cottonseed oil mills	95	95	92	93	79	75
2075	Soybean oil mills	86	83	92	93	88	85
2076	Vegetable oil mills, n.e.c.	58	51	96	89	77	76
2077	Animal and marine fats and oils	65	72	80	79	79	77
2079	Edible fats and oils, n.e.c.	58	59	72	78	78	77
208	Beverages	59	58	64	64	74	72
2082	Malt beverages	74	72	83	85	90	88
2083	Malt	99	91	97	99	94	93
2084	Wines, brandy, and brandy spirits	44	45	74	75	67	70
2085	Distilled and blended liquors	38	39	50	50	65	63
2086	Bottled and canned soft drinks	62	60	55	57	70	69
2087	Flavoring extracts and syrups, n.e.c.	53	51	60	54	64	60
209	Miscellaneous food and kindred products	59	57	62	63	66	66
2091	Canned and cured fish and seafoods	61	68	63	67	80	93
2092	Fresh or frozen prepared fish	44	46	65	60	73	69
2095	Roasted coffee	61	58	73	75	66	66
2096	Potato chips and similar snacks	68	61	68	70	69	68
2097	Manufactured ice	(S)	(S)	(S)	(S)	(S)	(S)
2098	Macaroni and spaghetti	79	84	79	74	78	77
2099	Food preparations, n.e.c.	57	55	59	61	65	66
21	Tobacco products	78	75	76	71	85	82
211	Cigarettes	81	78	78	73	86	83
2111	Cigarettes	81	78	78	73	86	83
212	Cigars	47	40	42	41	96	96
2121	Cigars	47	40	42	41	96	96
213	Chewing and smoking tobacco	60	58	72	70	70	69
2131	Chewing and smoking tobacco	60	58	72	70	70	69
214	Tobacco stemming and redrying	57	54	58	51	73	72
2141	Tobacco stemming and redrying	57	54	58	51	73	72
22	Textile mill products	79	77	77	76	74	80
221	Broadwoven fabric mills, cotton	97	96	91	87	79	86
2211	Broadwoven fabric mills, cotton	97	96	91	87	79	86
222	Broadwoven fabric mills, manmade fiber and silk	86	85	91	88	77	78
2221	Broadwoven fabric mills, manmade fiber and silk	86	85	91	88	77	78
223	Broadwoven fabric mills, wool	77	76	69	73	76	81
2231	Broadwoven fabric mills, wool	77	76	69	73	76	81
224	Narrow fabric mills	71	75	63	60	71	71
2241	Narrow fabric mills	71	75	63	60	71	71

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
22	Textile mill products—Con.						
225	Knitting mills	77	71	71	70	78	84
2251	Women's hosiery, except socks	(S)	(S)	67	69	72	70
2252	Hosiery, n.e.c.	74	72	77	84	81	88
2253	Knit outerwear mills	79	75	67	64	85	94
2254	Knit underwear mills	63	46	77	67	89	89
2257	Weft knit fabric mills	82	(S)	72	71	74	87
2258	Lace and warp knit fabric mills	77	70	71	76	74	75
2259	Knitting mills, n.e.c.	90	89	56	56	80	79
226	Textile finishing, except wool	83	82	70	72	73	76
2261	Finishing plants, cotton	83	83	65	67	68	65
2262	Finishing plants, manmade	82	81	74	77	76	84
2269	Finishing plants, n.e.c.	86	85	69	70	73	75
227	Carpets and rugs	72	74	71	69	69	77
2273	Carpets and rugs	72	74	71	69	69	77
228	Yarn and thread mills	88	88	85	85	71	80
2281	Yarn spinning mills	91	89	85	85	74	84
2282	Throwing and winding mills	(S)	(S)	85	85	71	80
2284	Thread mills	79	79	81	86	52	56
229	Miscellaneous textile goods	70	68	77	76	70	76
2295	Coated fabrics, not rubberized	50	46	62	65	63	68
2296	Tire cord and fabrics	83	82	87	80	86	83
2297	Nonwoven fabrics	82	81	81	80	71	81
2298	Cordage and twine	65	65	77	72	73	76
2299	Textile goods, n.e.c.	76	75	79	80	70	73
23	Apparel and other textile products	52	55	59	58	75	77
231	Men's and boys' suits and coats	54	54	47	51	72	73
2311	Men's and boys' suits and coats	54	54	47	51	72	73
232	Men's and boys' furnishings	43	45	57	54	78	78
2321	Men's and boys' shirts	40	41	43	40	(S)	(S)
2322	Men's and boys' underwear and nightwear	35	61	50	38	56	51
2323	Men's and boys' neckwear	55	61	54	53	87	86
2325	Men's and boys' trousers and slacks	38	41	67	63	81	82
2326	Men's and boys' work clothing	49	43	69	69	84	85
2329	Men's and boys' clothing, n.e.c.	63	68	68	71	88	90
233	Women's and misses' outerwear	58	62	64	64	77	79
2331	Women's, misses', and juniors' blouses and shirts	94	95	52	47	(S)	(S)
2335	Women's, misses', and juniors' dresses	48	80	67	73	(S)	(S)
2337	Women's, misses', and juniors' suits and coats	(S)	(S)	60	62	64	62
2339	Women's, misses', and juniors' outerwear, n.e.c.	59	53	73	74	84	85
234	Women's and children's undergarments	74	74	70	72	85	84
2341	Women's and children's underwear	75	77	63	65	(S)	(S)
2342	Brassieres, girdles, and allied garments	72	71	85	87	82	79
235	Hats, caps, and millinery	58	48	55	53	76	75
2353	Hats, caps, and millinery	58	48	55	53	76	75
236	Girls' and children's outerwear	57	62	57	50	82	84
2361	Girls' and children's dresses and blouses	65	64	57	56	78	77
2369	Girls' and children's outerwear, n.e.c.	54	61	56	44	85	90
237	Fur goods	(S)	(S)	91	89	36	59
2371	Fur goods	(S)	(S)	91	89	36	59
238	Miscellaneous apparel and accessories	49	52	57	55	71	80
2381	Fabric dress and work gloves	38	38	75	82	(S)	(S)
2384	Robes and dressing gowns	(S)	(S)	44	37	(S)	92
2385	Waterproof outerwear	(S)	64	83	88	84	83
2386	Leather and sheep-lined clothing	68	76	37	32	(S)	(S)
2387	Apparel belts	48	55	55	57	(S)	(S)
2389	Apparel and accessories, n.e.c.	63	54	66	63	85	87
239	Miscellaneous fabricated textile products	52	53	56	56	70	72
2391	Curtains and draperies	55	58	56	56	45	51
2392	Housefurnishings, n.e.c.	51	54	66	66	73	76
2393	Textile bags	43	49	44	45	76	82
2394	Canvas and related products	46	44	52	54	67	67
2395	Pleating and stitching	(S)	(S)	52	50	68	68
2396	Automotive and apparel trimmings	57	58	64	62	79	77
2397	Schiffli machine embroideries	80	87	70	72	76	70
2399	Fabricated textile products, n.e.c.	49	46	42	43	70	77
24	Lumber and wood products	53	54	52	52	69	71
241	Logging	(S)	(S)	66	70	81	82
2411	Logging	(S)	(S)	66	70	81	82
242	Sawmills and planing mills	43	44	53	55	62	63
2421	Sawmills and planing mills, general	42	43	55	57	61	61
2426	Hardwood dimension and flooring mills	49	51	46	44	72	75
2429	Special product sawmills, n.e.c.	54	51	56	49	(S)	(S)
243	Millwork, plywood, and structural members	54	55	47	46	69	72
2431	Millwork	49	52	35	35	62	66
2434	Wood kitchen cabinets	45	42	51	48	69	71
2435	Hardwood veneer and plywood	62	57	78	80	81	69
2436	Softwood veneer and plywood	94	92	84	85	89	93
2439	Structural wood members, n.e.c.	57	56	53	51	58	63
244	Wood containers	56	53	53	54	73	71
2441	Nailed wood boxes and shooks	41	32	40	39	65	70
2448	Wood pallets and skids	61	61	72	72	74	68
2449	Wood containers, n.e.c.	46	41	30	32	78	88

See footnotes at end of table.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
24	Lumber and wood products—Con.						
245	Wood buildings and mobile homes	44	44	43	39	61	68
2451	Mobile homes	42	43	40	36	64	68
2452	Prefabricated wood buildings	47	47	49	47	58	67
249	Miscellaneous wood products	71	68	59	59	77	79
2491	Wood preserving	58	68	58	58	65	64
2493	Reconstituted wood products	86	85	79	75	87	89
2499	Wood products, n.e.c.	61	56	51	52	76	77
25	Furniture and fixtures	52	52	52	51	63	65
251	Household furniture	55	52	54	51	63	66
2511	Wood household furniture	60	57	55	49	65	70
2512	Upholstered household furniture	52	52	60	59	67	69
2514	Metal household furniture	49	49	48	49	48	45
2515	Mattresses and bedsprings	46	44	44	43	66	73
2517	Wood television and radio cabinets	39	38	46	53	59	72
2519	Household furniture, n.e.c.	71	70	79	80	60	68
252	Office furniture	42	45	50	48	65	61
2521	Wood office furniture	29	33	56	55	55	39
2522	Office furniture, except wood	49	51	48	46	72	75
253	Public building and related furniture	67	64	65	65	50	60
2531	Public building and related furniture	67	64	65	65	50	60
254	Partitions and fixtures	58	57	50	51	66	70
2541	Wood partitions and fixtures	50	52	48	48	69	77
2542	Partitions and fixtures, except wood	69	64	51	53	64	64
259	Miscellaneous furniture and fixtures	50	49	50	56	62	67
2591	Drapery hardware and blinds and shades	42	40	67	65	69	75
2599	Furniture and fixtures, n.e.c.	58	56	43	51	(S)	(S)
26	Paper and allied products	78	77	75	77	80	81
261	Pulp mills	96	92	91	94	91	89
2611	Pulp mills	96	92	91	94	91	89
262	Paper mills	93	95	92	94	89	89
2621	Paper mills	93	95	92	94	89	89
263	Paperboard mills	97	95	95	95	86	85
2631	Paperboard mills	97	95	95	95	86	85
265	Paperboard containers and boxes	66	64	63	63	72	73
2652	Setup paperboard boxes	42	43	53	42	73	89
2653	Corrugated and solid fiber boxes	68	64	65	65	74	75
2655	Fiber cans, drums, and similar products	44	45	42	42	48	48
2656	Sanitary food containers	65	64	66	68	72	67
2657	Folding paperboard boxes	72	72	67	70	79	80
267	Miscellaneous converted paper products	72	71	68	70	74	77
2671	Paper coated and laminated, packaging	74	74	75	76	69	70
2672	Paper coated and laminated, n.e.c.	65	62	73	73	61	68
2673	Bags plastics, laminated, and coated	65	63	66	68	80	82
2674	Bags uncoated paper and multiwall	78	76	71	74	77	78
2675	Die-cut paper and board	34	36	47	44	68	68
2676	Sanitary paper products	86	85	67	73	81	83
2677	Envelopes	78	79	78	76	85	85
2678	Stationery products	70	66	64	61	69	71
2679	Converted paper products, n.e.c.	79	77	72	73	71	73
27	Printing and publishing	66	68	59	59	72	75
271	Newspapers	62	64	59	59	67	73
2711	Newspapers	62	64	59	59	67	73
272	Periodicals	(S)	(S)	43	41	88	89
2721	Periodicals	(S)	(S)	43	41	88	89
273	Books	76	71	73	77	86	85
2731	Book publishing	(S)	(S)	75	79	(S)	(S)
2732	Book printing	81	81	67	67	80	80
274	Miscellaneous publishing	(S)	(S)	49	52	67	67
2741	Miscellaneous publishing	(S)	(S)	49	52	67	67
275	Commercial printing	64	64	67	67	70	72
2752	Commercial printing, lithographic	67	68	67	68	74	74
2754	Commercial printing, gravure	(S)	(S)	89	87	81	80
2759	Commercial printing, n.e.c.	52	49	61	59	58	64
276	Manifold business forms	65	66	70	70	70	70
2761	Manifold business forms	65	66	70	70	70	70
277	Greeting cards	62	56	59	61	56	55
2771	Greeting cards	62	56	59	61	56	55
278	Blankbooks and bookbinding	55	53	42	43	61	66
2782	Blankbooks and looseleaf binders	53	50	41	43	55	60
2789	Bookbinding and related work	60	59	46	41	84	84
279	Printing trade services	62	62	65	67	75	76
2791	Typesetting	(S)	50	70	70	77	80
2796	Platemaking services	68	70	62	64	72	74
28	Chemicals and allied products	66	65	66	65	73	73
281	Industrial inorganic chemicals	61	54	77	73	78	78
2812	Alkalies and chlorine	96	96	96	94	(S)	(S)
2813	Industrial gases	58	51	66	66	74	79
2816	Inorganic pigments	80	80	90	87	90	91
2819	Industrial inorganic chemicals, n.e.c.	57	49	75	70	75	75

See footnotes at end of table.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
28	Chemicals and allied products—Con.						
282	Plastics materials and synthetics	83	80	85	86	92	92
2821	Plastics materials and resins	81	77	86	86	95	96
2822	Synthetic rubber	91	82	79	77	81	79
2823	Cellulosic manmade fibers	66	67	79	85	95	96
2824	Organic fibers, noncellulosic	90	88	86	89	88	88
283	Drugs	58	63	59	57	68	67
2833	Medicinals and botanicals	80	88	84	81	83	85
2834	Pharmaceutical preparations	55	60	59	58	67	66
2835	Diagnostic substances	59	56	41	41	65	68
2836	Biological products, except diagnostic	90	91	91	83	85	86
284	Soaps, cleaners, and toilet goods	56	54	56	56	68	67
2841	Soap and other detergents	52	51	55	54	75	75
2842	Polishes and sanitation goods	43	42	50	49	70	63
2843	Surface active agents	54	42	83	78	69	73
2844	Toilet preparations	68	64	58	60	65	65
285	Paints and allied products	57	58	52	51	57	57
2851	Paints and allied products	57	58	52	51	57	57
286	Industrial organic chemicals	86	88	80	85	82	81
2861	Gum and wood chemicals	72	64	83	82	73	67
2865	Cyclic crudes and intermediates	86	84	88	83	77	77
2869	Industrial organic chemicals, n.e.c.	87	89	79	85	83	81
287	Agricultural chemicals	81	72	69	62	67	69
2873	Nitrogenous fertilizers	92	87	66	59	93	89
2874	Phosphatic fertilizers	98	83	94	89	94	85
2875	Fertilizers, mixing only	61	60	45	43	57	54
2879	Agricultural chemicals, n.e.c.	77	70	68	60	60	64
289	Miscellaneous chemical products	65	65	59	59	65	65
2891	Adhesives and sealants	65	60	51	52	64	64
2892	Explosives	70	75	63	64	63	61
2893	Printing ink	50	52	58	56	74	75
2895	Carbon black	96	94	80	78	91	91
2899	Chemical preparations, n.e.c.	67	69	62	62	63	64
29	Petroleum and coal products	77	76	77	75	76	79
291	Petroleum refining	92	90	93	90	86	89
2911	Petroleum refining	92	90	93	90	86	89
295	Asphalt paving and roofing materials	48	49	37	37	43	46
2951	Asphalt paving mixtures and blocks	37	39	25	27	33	35
2952	Asphalt felts and coatings	69	65	70	62	65	73
299	Miscellaneous petroleum and coal products	43	47	53	49	60	58
2992	Lubricating oils and greases	39	42	47	44	57	55
2999	Petroleum and coal products, n.e.c.	82	82	89	88	79	78
30	Rubber and miscellaneous plastics products	71	70	68	68	69	70
301	Tires and inner tubes	87	85	92	87	84	84
3011	Tires and inner tubes	87	85	92	87	84	84
302	Rubber and plastics footwear	60	66	69	66	81	74
3021	Rubber and plastics footwear	60	66	69	66	81	74
305	Hose and belting and gaskets and packing	69	72	66	66	67	65
3052	Rubber and plastics hose and belting	79	74	66	65	62	60
3053	Gaskets, packing, and sealing devices	63	71	65	66	70	69
306	Fabricated rubber products, n.e.c.	68	65	70	69	70	70
3061	Mechanical rubber goods	58	57	68	65	77	78
3069	Fabricated rubber products, n.e.c.	78	73	71	72	66	66
308	Miscellaneous plastics products, n.e.c.	70	68	65	66	66	68
3081	Unsupported plastics film and sheet	79	81	66	76	81	81
3082	Unsupported plastics profile shapes	86	76	66	66	79	80
3083	Laminated plastics plate, sheet, and profile shapes	78	74	65	65	76	79
3084	Plastics pipe	77	78	74	72	76	75
3085	Plastics bottles	69	69	82	81	70	73
3086	Plastics foam products	51	51	65	64	63	68
3087	Custom compounding of purchased plastics resins	74	68	63	64	71	71
3088	Plastics plumbing fixtures	38	40	55	58	59	64
3089	Plastics products, n.e.c.	74	71	64	63	62	65
31	Leather and leather products	57	55	57	59	72	77
311	Leather tanning and finishing	68	63	68	70	81	81
3111	Leather tanning and finishing	68	63	68	70	81	81
313	Footwear cut stock	31	34	77	84	90	96
3131	Footwear cut stock	31	34	77	84	90	96
314	Footwear, except rubber	55	54	55	55	72	77
3142	House slippers	54	54	48	50	56	73
3143	Men's footwear, except athletic	56	56	49	51	69	73
3144	Women's footwear, except athletic	53	54	73	62	80	85
3149	Footwear, except rubber, n.e.c.	55	44	(S)	71	88	81
315	Leather gloves and mittens	50	49	46	45	64	82
3151	Leather gloves and mittens	50	49	46	45	64	82
316	Luggage	51	47	51	60	60	67
3161	Luggage	51	47	51	60	60	67
317	Handbags and personal leather goods	77	74	56	54	77	77
3171	Women's handbags and purses	75	(S)	53	50	87	84
3172	Personal leather goods, n.e.c.	78	76	63	63	65	68

See footnotes at end of table.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
31	Leather and leather products—Con.						
319	Leather goods, n.e.c.	50	51	66	63	68	71
3199	Leather goods, n.e.c.	50	51	66	63	68	71
32	Stone, clay, and glass products	66	65	68	67	70	74
321	Flat glass	95	95	91	91	80	84
3211	Flat glass	95	95	91	91	80	84
322	Glass and glassware, pressed or blown	89	87	86	80	82	83
3221	Glass containers	88	90	90	82	89	88
3229	Pressed and blown glass, n.e.c.	90	84	82	78	76	79
323	Products of purchased glass	78	76	73	71	72	71
3231	Products of purchased glass	78	76	73	71	72	71
324	Cement, hydraulic	91	86	83	80	84	88
3241	Cement, hydraulic	91	86	83	80	84	88
325	Structural clay products	78	76	73	70	75	84
3251	Brick and structural clay tile	84	79	75	67	72	85
3253	Ceramic wall and floor tile	91	90	85	86	77	86
3255	Clay refractories	66	63	61	61	76	81
3259	Structural clay products, n.e.c.	48	44	68	72	77	81
326	Pottery and related products	67	66	73	69	72	71
3261	Vitreous plumbing fixtures	79	74	82	80	(S)	(S)
3262	Vitreous china table and kitchenware	61	59	77	74	70	72
3263	Semivitreous table and kitchenware	50	50	83	82	(S)	(S)
3264	Porcelain electrical supplies	65	64	72	62	70	57
3269	Pottery products, n.e.c.	62	64	62	65	80	81
327	Concrete, gypsum, and plaster products	51	51	57	57	62	66
3271	Concrete block and brick	65	57	65	67	60	61
3272	Concrete products, n.e.c.	65	68	52	47	65	73
3273	Ready-mixed concrete	39	40	55	59	57	61
3274	Lime	73	66	81	84	78	80
3275	Gypsum products	95	91	76	75	74	81
328	Cut stone and stone products	60	64	54	58	78	80
3281	Cut stone and stone products	60	64	54	58	78	80
329	Miscellaneous nonmetallic mineral products	66	62	71	70	72	75
3291	Abrasive products	71	70	71	71	73	76
3292	Asbestos products	74	(D)	84	76	59	78
3295	Minerals, ground or treated	68	65	71	67	65	65
3296	Mineral wool	67	61	87	83	80	87
3297	Nonclay refractories	53	48	61	62	70	67
3299	Nonmetallic mineral products, n.e.c.	59	(D)	44	45	54	59
33	Primary metal industries	78	75	72	72	77	78
331	Blast furnace and basic steel products	86	83	79	81	83	83
3312	Blast furnaces and steel mills	90	86	82	84	85	84
3313	Electrometallurgical products	69	72	81	80	76	78
3315	Steel wire and related products	80	76	76	77	72	75
3316	Cold finishing of steel shapes	80	80	75	74	82	83
3317	Steel pipe and tubes	68	67	63	64	76	78
332	Iron and steel foundries	70	66	63	61	69	70
3321	Gray and ductile iron foundries	69	72	63	61	74	73
3322	Malleable iron foundries	84	80	67	65	66	71
3324	Steel investment foundries	64	58	68	70	76	72
3325	Steel foundries, n.e.c.	65	60	57	54	55	59
333	Primary nonferrous metals	82	76	90	91	88	84
3331	Primary copper	89	83	95	95	96	93
3334	Primary aluminum	85	84	99	99	99	90
3339	Primary nonferrous metals, n.e.c.	65	62	75	77	68	71
334	Secondary nonferrous metals	83	81	82	81	80	83
3341	Secondary nonferrous metals	83	81	82	81	80	83
335	Nonferrous rolling and drawing	73	72	73	72	73	77
3351	Copper rolling and drawing	85	80	75	76	77	81
3353	Aluminum sheet, plate, and foil	86	74	82	77	71	73
3354	Aluminum extruded products	83	76	73	68	70	78
3355	Aluminum rolling and drawing, n.e.c.	82	(D)	(D)	(D)	80	80
3356	Nonferrous rolling and drawing, n.e.c.	73	(D)	(D)	(D)	70	74
3357	Nonferrous wire drawing and insulating	63	69	70	69	74	79
336	Nonferrous foundries (castings)	67	63	53	55	62	68
3363	Aluminum die-castings	77	73	72	71	56	68
3364	Nonferrous die-castings, except aluminum	56	53	58	59	71	68
3365	Aluminum foundries	63	59	42	39	68	78
3366	Copper foundries	60	58	61	60	51	52
3369	Nonferrous foundries, n.e.c.	66	65	(S)	54	80	73
339	Miscellaneous primary metal products	75	75	56	60	65	66
3398	Metal heat treating	78	73	57	60	60	60
3399	Primary metal products, n.e.c.	72	78	56	59	74	77
34	Fabricated metal products	61	59	58	57	66	69
341	Metal cans and shipping containers	77	76	78	74	85	88
3411	Metal cans	84	83	82	81	89	88
3412	Metal barrels, drums, and pails	48	49	54	43	63	87
342	Cutlery, handtools, and hardware	65	62	60	60	70	72
3421	Cutlery	85	87	66	71	85	86
3423	Hand and edge tools, n.e.c.	69	64	51	51	67	68
3425	Saw blades and handsaws	73	70	76	77	67	77
3429	Hardware, n.e.c.	58	57	65	61	69	72

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
34	Fabricated metal products—Con.						
343	Plumbing and heating, except electric	56	53	55	55	56	59
3431	Metal sanitary ware	84	85	67	73	75	87
3432	Plumbing fixture fittings and trim	55	52	64	64	59	59
3433	Heating equipment, except electric	49	47	44	43	47	52
344	Fabricated structural metal products	55	55	52	52	64	68
3441	Fabricated structural metal	50	49	55	57	68	66
3442	Metal doors, sash, and trim	62	62	50	48	66	70
3443	Fabricated plate work (boiler shops)	63	64	65	70	63	70
3444	Sheet metal work	52	53	41	41	59	65
3446	Architectural metal work	51	50	55	56	57	61
3448	Prefabricated metal buildings	53	54	65	63	69	68
3449	Miscellaneous metal work	57	54	51	52	70	77
345	Screw machine products, bolts, etc.	59	58	56	59	66	73
3451	Screw machine products	53	53	50	50	64	75
3452	Bolts, nuts, rivets, and washers	65	64	60	66	68	71
346	Metal forgings and stampings	69	66	62	61	67	71
3462	Iron and steel forgings	65	65	49	48	69	71
3463	Nonferrous forgings	68	67	67	67	69	70
3465	Automotive stampings	78	76	70	68	62	68
3466	Crowns and closures	71	75	76	74	73	78
3469	Metal stampings, n.e.c.	59	55	59	57	73	76
347	Metal services, n.e.c.	59	57	59	59	75	73
3471	Plating and polishing	57	57	57	57	80	77
3479	Metal coating and allied services	58	56	63	62	69	69
348	Ordnance and accessories, n.e.c.	51	51	47	46	56	59
3482	Small arms ammunition	41	37	34	39	61	65
3483	Ammunition, except for small arms, n.e.c.	54	53	54	49	51	55
3484	Small arms	71	66	53	51	70	79
3489	Ordnance and accessories, n.e.c.	42	47	43	44	54	55
349	Miscellaneous fabricated metal products	60	58	61	58	66	65
3491	Industrial valves	69	67	55	58	70	73
3492	Fluid power valves and hose fittings	52	49	71	71	70	73
3493	Steel springs, except wire	71	67	54	52	72	73
3494	Valves and pipe fittings, n.e.c.	73	62	53	56	51	45
3495	Wire springs	71	72	67	61	57	57
3496	Miscellaneous fabricated wire products	62	59	67	67	73	67
3497	Metal foil and leaf	64	66	78	77	70	66
3498	Fabricated pipe and fittings	59	58	58	63	68	74
3499	Fabricated metal products, n.e.c.	51	48	60	48	66	65
35	Industrial machinery and equipment	62	59	58	57	64	65
351	Engines and turbines	78	64	74	67	62	63
3511	Turbines and turbine generator sets	82	60	81	82	76	72
3519	Internal combustion engines, n.e.c.	75	67	70	61	58	60
352	Farm and garden machinery	68	69	51	55	64	64
3523	Farm machinery and equipment	72	72	52	59	63	64
3524	Lawn and garden equipment	60	63	50	47	66	67
353	Construction and related machinery	62	57	52	49	65	68
3531	Construction machinery	69	63	48	42	64	74
3532	Mining machinery	44	42	47	53	73	64
3533	Oil and gas field machinery	57	56	65	71	70	65
3534	Elevators and moving stairways	52	56	41	41	85	87
3535	Conveyors and conveying equipment	60	50	54	54	55	54
3536	Hoists, cranes, and monorails	74	76	60	60	82	81
3537	Industrial trucks and tractors	56	57	49	53	63	65
354	Metalworking machinery	62	61	62	62	69	71
3541	Machine tools, metal cutting types	64	54	58	53	66	73
3542	Machine tools, metal forming types	51	50	59	50	68	65
3543	Industrial patterns	63	52	49	58	68	81
3544	Special dies, tools, jigs, and fixtures	62	65	67	69	78	78
3545	Machine tool accessories	67	67	55	54	64	66
3546	Power-driven handtools	61	55	67	61	64	70
3547	Rolling mill machinery	49	56	66	63	51	63
3548	Welding apparatus	68	67	77	79	61	57
3549	Metalworking machinery, n.e.c.	59	57	46	56	67	65
355	Special industry machinery	56	52	54	55	67	69
3552	Textile machinery	49	49	56	51	74	78
3553	Woodworking machinery	42	44	47	43	65	59
3554	Paper industries machinery	76	75	68	75	71	83
3555	Printing trades machinery	51	45	50	60	63	68
3556	Food products machinery	58	55	51	53	75	74
3559	Special industry machinery, n.e.c.	56	52	55	54	65	66
356	General industrial machinery	60	57	56	56	63	66
3561	Pumps and pumping equipment	72	62	46	45	78	79
3562	Ball and roller bearings	86	78	74	73	70	75
3563	Air and gas compressors	65	59	50	54	58	57
3564	Blowers and fans	55	56	53	53	61	64
3565	Packaging machinery	51	53	67	70	56	59
3566	Speed changers, drives, and gears	65	64	72	69	72	75
3567	Industrial furnaces and ovens	41	38	62	63	60	65
3568	Power transmission equipment, n.e.c.	67	63	49	53	59	64
3569	General industrial machinery, n.e.c.	48	49	53	53	56	60
357	Computer and office equipment	60	59	60	57	67	66
3571	Electronic computers	57	56	61	57	70	67
3572	Computer storage devices	93	89	77	72	71	69
3575	Computer terminals	(S)	47	39	43	37	28
3577	Computer peripheral equipment, n.e.c.	59	51	60	56	71	74
3578	Calculating and accounting equipment	47	50	49	50	48	50
3579	Office machines, n.e.c.	53	62	46	50	59	69

See footnotes at end of table.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
35	Industrial machinery and equipment—Con.						
358	Refrigeration and service machinery	67	62	62	60	59	59
3581	Automatic vending machines	60	55	65	61	56	69
3582	Commercial laundry equipment	74	71	58	58	75	83
3585	Refrigeration and heating equipment	71	67	65	63	59	64
3586	Measuring and dispensing pumps	64	62	47	42	58	60
3589	Service industry machinery, n.e.c.	56	51	59	56	59	46
359	Industrial machinery, n.e.c.	62	62	56	56	60	62
3592	Carburetors, pistons, rings, and valves	89	78	68	65	74	78
3593	Fluid power cylinders and actuators	55	50	46	47	60	57
3594	Fluid power pumps and motors	80	76	39	36	64	67
3596	Scales and balances, except laboratory	53	54	54	55	65	64
3599	Industrial machinery, n.e.c.	60	61	58	60	58	60
36	Electronic and other electric equipment	63	60	60	61	65	68
361	Electric distribution equipment	56	55	58	53	70	71
3612	Transformers, except electronic	65	65	61	58	75	75
3613	Switchgear and switchboard apparatus	51	51	56	51	68	69
362	Electrical industrial apparatus	58	53	61	63	62	66
3621	Motors and generators	59	57	75	76	68	75
3624	Carbon and graphite products	81	80	77	76	64	65
3625	Relays and industrial controls	58	50	52	53	56	59
3629	Electrical industrial apparatus, n.e.c.	44	42	55	55	64	73
363	Household appliances	71	73	67	64	68	72
3631	Household cooking equipment	64	64	54	55	63	66
3632	Household refrigerators and freezers	58	61	60	59	63	72
3633	Household laundry equipment	84	(D)	(D)	(D)	77	83
3634	Electric housewares and fans	70	(D)	65	(D)	63	60
3635	Household vacuum cleaners	64	66	75	63	69	71
3639	Household appliances, n.e.c.	89	(D)	(D)	(D)	74	82
364	Electric lighting and wiring equipment	59	58	58	59	63	67
3641	Electric lamp bulbs and tubes	66	65	71	73	72	74
3643	Current-carrying wiring devices	67	65	54	54	69	71
3644	Noncurrent-carrying wiring devices	55	54	64	66	59	66
3645	Residential lighting fixtures	36	34	48	45	53	55
3646	Commercial lighting fixtures	56	61	46	49	55	64
3647	Vehicular lighting equipment	75	75	73	66	65	72
3648	Lighting equipment, n.e.c.	57	58	63	60	68	69
365	Household audio and video equipment	67	64	56	53	59	56
3651	Household audio and video equipment	61	58	47	45	48	46
3652	Prerecorded records and tapes	81	82	85	79	81	78
366	Communications equipment	54	52	58	56	59	59
3661	Telephone and telegraph apparatus	61	61	55	51	59	61
3663	Radio and television communications equipment	50	46	62	61	59	59
3669	Communications equipment, n.e.c.	41	41	56	55	58	53
367	Electronic components and accessories	71	67	60	68	72	74
3671	Electron tubes	64	62	61	57	79	87
3672	Printed circuit boards	68	65	72	63	73	75
3674	Semiconductors and related devices	84	80	58	78	75	77
3675	Electronic capacitors	76	72	60	61	72	71
3676	Electronic resistors	40	39	55	58	56	58
3677	Electronic coils and transformers	60	58	57	63	59	64
3678	Electronic connectors	57	58	64	70	69	72
3679	Electronic components, n.e.c.	58	52	59	56	68	69
369	Miscellaneous electrical equipment and supplies	56	56	59	56	64	68
3691	Storage batteries	78	77	71	69	72	74
3692	Primary batteries, dry and wet	66	66	69	59	61	67
3694	Engine electrical equipment	52	53	72	68	62	70
3695	Magnetic and optical recording media	71	84	83	83	81	82
3699	Electrical equipment and supplies, n.e.c.	41	38	41	39	59	61
37	Transportation equipment	54	54	57	56	66	66
371	Motor vehicles and equipment	61	59	55	50	64	70
3711	Motor vehicles and car bodies	62	59	50	44	65	70
3713	Truck and bus bodies	52	48	49	49	50	50
3714	Motor vehicle parts and accessories	61	62	68	67	64	73
3715	Truck trailers	78	75	58	52	61	72
3716	Motor homes	36	28	36	32	25	41
372	Aircraft and parts	44	46	66	68	71	61
3721	Aircraft	44	48	69	73	67	52
3724	Aircraft engines and engine parts	48	47	58	59	76	77
3728	Aircraft parts and equipment	41	42	71	71	74	69
373	Ship and boat building and repairing	51	50	51	72	66	70
3731	Ship building and repairing	50	50	52	80	78	74
3732	Boat building and repairing	53	53	49	52	49	61
374	Railroad equipment	48	50	62	56	63	62
3743	Railroad equipment	48	50	62	56	63	62
375	Motorcycles, bicycles, and parts	74	73	80	86	34	33
3751	Motorcycles, bicycles, and parts	74	73	80	86	34	33
376	Guided missiles, space vehicles, parts	64	57	48	52	67	67
3761	Guided missiles and space vehicles	73	78	49	52	69	69
3764	Space propulsion units and parts	48	37	44	49	72	69
3769	Space vehicle equipment, n.e.c.	41	45	46	55	44	48
379	Miscellaneous transportation equipment	34	36	41	45	49	52
3792	Travel trailers and campers	25	33	39	36	45	48
3795	Tanks and tank components	31	31	34	51	41	43
3799	Transportation equipment, n.e.c.	44	44	54	48	69	72

See footnotes at end of table.

Table 1b. **National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1989 Through 1994—Con.**

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	National emergency rate					
		1994	1993	1992	1991	1990	1989
38	Instruments and related products	52	50	54	55	64	65
381	Search and navigation equipment	42	42	49	52	60	59
3812	Search and navigation equipment	42	42	49	52	60	59
382	Measuring and controlling devices	50	49	45	46	59	64
3821	Laboratory apparatus and furniture	49	53	52	52	65	67
3822	Environmental controls	42	45	52	53	67	71
3823	Process control instruments	48	47	43	42	68	69
3824	Fluid meters and counting devices	62	62	72	61	75	80
3825	Instruments to measure electricity	50	50	38	38	46	59
3826	Analytical instruments	49	47	58	64	64	65
3827	Optical instruments and lenses	48	52	51	52	56	55
3829	Measuring and controlling devices, n.e.c.	52	46	40	43	63	64
384	Medical instruments and supplies	52	52	60	60	69	67
3841	Surgical and medical instruments	51	52	51	52	71	65
3842	Surgical appliances and supplies	50	49	70	65	68	69
3843	Dental equipment and supplies	50	52	64	60	73	74
3844	X-ray apparatus and tubes	55	59	70	77	61	64
3845	Electromedical equipment	59	59	56	58	67	66
385	Ophthalmic goods	64	65	72	68	81	92
3851	Ophthalmic goods	64	65	72	68	81	92
386	Photographic equipment and supplies	74	67	74	75	72	76
3861	Photographic equipment and supplies	74	67	74	75	72	76
387	Watches, clocks, watchcases, and parts	59	54	44	40	67	59
3873	Watches, clocks, watchcases, and parts	59	54	44	40	67	59
39	Miscellaneous manufacturing industries	53	54	52	53	67	68
391	Jewelry, silverware, and plated ware	53	52	49	49	66	66
3911	Jewelry, precious metal	55	57	53	53	64	64
3914	Silverware and plated ware	48	47	39	40	81	82
3915	Jewelers' materials and lapidary work	48	41	50	47	(S)	(S)
393	Musical instruments	42	44	32	31	58	54
3931	Musical instruments	42	44	32	31	58	54
394	Toys and sporting goods	56	57	58	54	68	68
3942	Dolls and stuffed toys	50	63	43	34	46	42
3944	Games, toys, and children's vehicles	51	56	66	68	69	66
3949	Sporting and athletic goods, n.e.c.	60	57	56	50	69	72
395	Pens, pencils, office, and art supplies	53	51	55	55	70	76
3951	Pens and mechanical pencils	32	30	61	61	62	75
3952	Lead pencils and art goods	89	87	86	84	94	94
3953	Marking devices	82	84	29	30	57	57
3955	Carbon paper and inked ribbons	56	59	63	64	77	79
396	Costume jewelry and notions	60	60	60	64	64	61
3961	Costume jewelry	54	56	53	58	61	56
3965	Fasteners, buttons, needles, and pins	77	69	76	77	72	73
399	Miscellaneous manufactures	51	54	49	55	68	70
3991	Brooms and brushes	47	44	49	49	68	69
3993	Signs and advertising specialties	49	51	55	52	69	74
3995	Burial caskets	79	77	43	43	63	62
3996	Hard surface floor coverings, n.e.c.	79	72	77	73	75	83
3999	Manufacturing industries, n.e.c.	46	52	43	59	67	66

¹SIC 2067, Chewing Gum is combined with SIC 2064 as of 1993.

Note: Some data are revised to include additional information. See introduction for a discussion of the revision.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1994	1993	1994	1993	Full production			National emergency production		
						Level		1993 to 1994 change	Level		1993 to 1994 change
						1994	1993		1994	1993	
	All industries	80	78	63	61	1	1	1	1	1	1
	Durable goods industries	78	76	59	57	1	1	1	1	1	1
	Nondurable goods industries	82	81	67	67	1	1	1	1	1	2
	Advanced processing industries	78	77	60	59	1	1	1	1	1	1
	Primary processing industries	84	82	69	67	1	1	1	1	1	2
20	Food and kindred products	79	79	66	66	2	2	2	2	2	2
201	Meat products	86	85	74	74	2	2	3	3	3	4
2011	Meat packing plants	86	84	76	74	3	3	4	5	5	7
2013	Sausages and other prepared meats	80	84	71	74	5	3	6	5	4	7
2015	Poultry slaughtering and processing	89	87	76	75	4	4	5	5	6	8
202	Dairy products	82	82	74	74	2	2	2	2	2	2
2021	Creamery butter	75	80	63	68	7	2	7	8	5	9
2022	Cheese, natural and processed	85	88	80	81	3	3	4	3	4	4
2023	Dry, condensed, and evaporated dairy products	78	73	71	67	4	4	5	3	3	4
2024	Ice cream and frozen desserts	75	73	65	66	4	4	5	4	5	6
2026	Fluid milk	86	86	78	78	3	3	3	2	2	3
203	Preserved fruits and vegetables	77	79	63	65	4	3	5	4	4	6
2032	Canned specialties	76	78	57	64	4	3	5	5	5	7
2033	Canned fruits and vegetables	75	78	57	58	7	8	10	7	7	10
2034	Dehydrated fruits, vegetables, and soups	80	80	61	57	4	3	5	11	11	15
2035	Pickles, sauces, and salad dressings	71	72	61	60	12	9	15	14	13	19
2037	Frozen fruits and vegetables	92	91	86	86	3	2	4	4	3	5
2038	Frozen specialties, n.e.c.	75	80	68	73	7	3	7	5	2	6
204	Grain mill products	83	83	72	71	2	2	3	5	4	6
2041	Flour and other grain mill products	91	89	85	82	5	4	6	5	4	7
2043	Cereal breakfast foods	84	85	72	68	2	2	3	10	8	13
2044	Rice milling	95	94	93	93	1	2	2	2	2	2
2045	Prepared flour mixes and doughs	84	86	70	72	3	3	4	9	9	13
2046	Wet corn milling	96	96	96	96	1	1	1	1	1	1
2047	Dog and cat food	83	85	79	83	7	6	9	6	6	9
2048	Prepared feeds, n.e.c.	69	68	54	53	5	5	7	9	8	12
205	Bakery products	79	81	67	69	6	5	7	6	5	7
2051	Bread, cake, and related products	80	83	65	70	9	7	11	8	7	11
2052	Cookies and crackers	77	77	70	67	6	6	8	6	6	9
2053	Frozen bakery products, except bread	80	90	68	70	2	3	4	6	9	10
206	Sugar and confectionery products	77	78	64	65	2	2	2	3	2	3
2061	Raw cane sugar	94	95	94	95	2	2	3	2	2	3
2062	Cane sugar refining	78	(D)	71	(D)	3	(X)	(X)	2	(X)	(X)
2063	Beet sugar	100	100	96	95	-	1	1	3	3	4
2064	Candy and other confectionery products	75	78	59	59	2	3	3	3	3	4
2066	Chocolate and cocoa products	78	79	67	78	4	1	4	8	1	8
2067	Chewing gum ²	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2068	Salted and roasted nuts and seeds	70	(D)	60	(D)	6	(X)	(X)	6	(X)	(X)
207	Fats and oils	82	81	74	70	4	3	5	5	5	7
2074	Cottonseed oil mills	95	96	95	95	2	2	3	2	3	3
2075	Soybean oil mills	87	83	86	83	6	4	8	6	4	7
2076	Vegetable oil mills, n.e.c.	75	73	58	51	2	7	7	6	9	11
2077	Animal and marine fats and oils	80	78	65	72	4	3	5	6	5	7
2079	Edible fats and oils, n.e.c.	74	80	58	59	8	6	10	11	10	15
208	Beverages	76	73	59	58	3	4	5	4	4	6
2082	Malt beverages	79	75	74	72	4	4	5	5	5	6
2083	Malt	100	92	99	91	1	1	1	1	2	2
2084	Vines, brandy, and brandy spirits	57	56	44	45	15	17	22	10	12	16
2085	Distilled and blended liquors	81	81	38	39	4	2	5	6	6	8
2086	Bottled and canned soft drinks	74	72	62	60	6	7	9	7	7	9
2087	Flavoring extracts and syrups, n.e.c.	83	81	53	51	4	5	6	12	12	17
209	Miscellaneous food and kindred products	73	72	59	57	4	5	6	4	4	5
2091	Canned and cured fish and seafoods	70	72	61	68	6	2	7	6	3	6
2092	Fresh or frozen prepared fish	63	69	44	46	10	9	13	8	9	12
2095	Roasted coffee	64	60	61	58	10	11	15	9	10	13
2096	Potato chips and similar snacks	89	83	68	61	6	4	8	9	8	12
2097	Manufactured ice	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2098	Macaroni and spaghetti	84	90	79	84	4	4	5	2	3	3
2099	Food preparations, n.e.c.	72	72	57	55	8	8	11	5	6	8
21	Tobacco products	86	83	78	75	1	1	2	1	1	2
211	Cigarettes	87	83	81	78	1	2	2	1	1	2
2111	Cigarettes	87	83	81	78	1	2	2	1	1	2
212	Cigars	73	64	47	40	6	5	8	4	3	5
2121	Cigars	73	64	47	40	6	5	8	4	3	5
213	Chewing and smoking tobacco	88	85	60	58	7	7	10	7	6	9
2131	Chewing and smoking tobacco	88	85	60	58	7	7	10	7	6	9
214	Tobacco stemming and redrying	75	71	57	54	3	2	3	5	4	7
2141	Tobacco stemming and redrying	75	71	57	54	3	2	3	5	4	7
22	Textile mill products	87	85	79	77	1	1	2	2	2	2
221	Broadwoven fabric mills, cotton	97	97	97	96	2	1	2	2	2	2
2211	Broadwoven fabric mills, cotton	97	97	97	96	2	1	2	2	2	2
222	Broadwoven fabric mills, manmade fiber and silk	89	86	86	85	3	3	4	4	3	5
2221	Broadwoven fabric mills, manmade fiber and silk	89	86	86	85	3	3	4	4	3	5
223	Broadwoven fabric mills, wool	86	85	77	76	4	4	5	6	6	8
2231	Broadwoven fabric mills, wool	86	85	77	76	4	4	5	6	6	8

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹							
		1994	1993	1994	1993	Full production			National emergency production				
						Level		1993 to 1994 change	Level		1993 to 1994 change		
						1994	1993		1994	1993			
22	Textile mill products—Con.												
224	Narrow fabric mills	78	81	71	75	3	2	3	3	2	4		
2241	Narrow fabric mills	78	81	71	75	3	2	3	3	2	4		
225	Knitting mills	85	80	77	71	2	3	3	2	3	4		
2251	Women's hosiery, except socks	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2252	Hosiery, n.e.c.	85	85	74	72	2	1	2	3	3	4	5	5
2253	Knit outerwear mills	83	83	79	75	5	3	6	4	3	5	5	5
2254	Knit underwear mills	81	83	63	46	2	2	3	8	6	10		
2257	Weft knit fabric mills	86	(S)	82	(S)	4	(X)	(X)	5	(X)	(X)	(X)	(X)
2258	Lace and warp knit fabric mills	84	81	77	70	4	6	7	6	9	10		
2259	Knitting mills, n.e.c.	93	92	90	89	2	2	3	2	3	3		
226	Textile finishing, except wool	88	87	83	82	1	2	2	1	1	2		
2261	Finishing plants, cotton	91	92	83	83	2	2	2	2	2	3		
2262	Finishing plants, manmade	87	85	82	81	2	2	3	2	2	2		
2269	Finishing plants, n.e.c.	87	86	86	85	3	4	5	3	4	5		
227	Carpets and rugs	84	85	72	74	4	4	5	6	5	8		
2273	Carpets and rugs	84	85	72	74	4	4	5	6	5	8		
228	Yarn and thread mills	90	90	88	88	2	2	3	3	3	4		
2281	Yarn spinning mills	92	90	91	89	3	3	4	3	3	4		
2282	Throwing and winding mills	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2284	Thread mills	79	79	79	79	2	3	3	2	3	3		
229	Miscellaneous textile goods	84	84	70	68	2	2	3	5	5	7		
2295	Coated fabrics, not rubberized	83	82	50	46	3	3	5	11	11	15		
2296	Tire cord and fabrics	92	91	83	82	3	3	4	5	5	7		
2297	Nonwoven fabrics	84	83	82	81	3	3	4	3	3	4		
2298	Cordage and twine	77	80	65	65	8	7	10	12	13	17		
2299	Textile goods, n.e.c.	85	84	76	75	3	3	4	4	5	6		
23	Apparel and other textile products	84	86	52	55	2	2	3	3	3	4		
231	Men's and boys' suits and coats	76	75	54	54	12	12	17	6	6	9		
2311	Men's and boys' suits and coats	76	75	54	54	12	12	17	6	6	9		
232	Men's and boys' furnishings	90	87	43	45	3	3	4	3	4	5		
2321	Men's and boys' shirts	89	88	40	41	3	2	4	7	8	11		
2322	Men's and boys' underwear and nightwear	86	67	35	61	4	7	8	5	5	7		
2323	Men's and boys' neckwear	65	73	55	61	9	9	13	8	8	11		
2325	Men's and boys' trousers and slacks	98	93	38	41	1	2	2	4	4	5		
2326	Men's and boys' work clothing	87	75	49	43	8	15	17	5	8	9		
2329	Men's and boys' clothing, n.e.c.	84	85	63	68	10	10	14	12	12	17		
233	Women's and misses' outerwear	82	89	58	62	6	3	6	9	7	11		
2331	Women's, misses', and juniors' blouses and shirts	95	95	94	95	4	4	6	5	4	6		
2335	Women's, misses', and juniors' dresses	71	87	48	80	13	4	13	19	4	19		
2337	Women's, misses', and juniors' suits and coats	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2339	Women's, misses', and juniors' outerwear, n.e.c.	91	92	59	53	5	5	7	11	11	15		
234	Women's and children's undergarments	89	90	74	74	2	2	3	5	5	7		
2341	Women's and children's underwear	90	92	75	77	4	3	5	6	6	9		
2342	Brassieres, girdles, and allied garments	88	88	72	71	1	1	2	7	8	10		
235	Hats, caps, and millinery	87	86	58	48	3	4	5	10	8	13		
2353	Hats, caps, and millinery	87	86	58	48	3	4	5	10	8	13		
236	Girls' and children's outerwear	86	89	57	62	3	4	5	5	7	9		
2361	Girls' and children's dresses and blouses	78	84	65	64	6	7	9	7	5	9		
2369	Girls' and children's outerwear, n.e.c.	91	93	54	61	2	5	5	6	12	13		
237	Fur goods	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2371	Fur goods	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
238	Miscellaneous apparel and accessories	72	78	49	52	4	4	6	4	4	6		
2381	Fabric dress and work gloves	82	84	38	38	4	5	6	4	3	5		
2384	Robes and dressing gowns	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2385	Waterproof outerwear	(S)	92	(S)	64	(X)	3	(X)	(X)	9	(X)	(X)	(X)
2386	Leather and sheep-lined clothing	85	88	68	76	4	5	6	6	3	7		
2387	Apparel belts	62	64	48	55	8	7	11	6	5	8		
2389	Apparel and accessories, n.e.c.	85	91	63	54	8	7	10	12	11	17		
239	Miscellaneous fabricated textile products	83	83	52	53	2	2	3	4	4	6		
2391	Curtains and draperies	81	83	55	58	2	2	3	8	8	11		
2392	Housefurnishings, n.e.c.	83	88	51	54	1	2	2	10	10	14		
2393	Textile bags	73	75	43	49	8	6	10	11	10	15		
2394	Canvas and related products	60	60	46	44	8	8	12	5	5	7		
2395	Pleating and stitching	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2396	Automotive and apparel trimmings	87	89	57	58	3	3	4	9	9	12		
2397	Schiffli machine embroideries	85	90	80	87	7	5	9	8	6	10		
2399	Fabricated textile products, n.e.c.	88	79	49	46	4	5	7	9	8	12		
24	Lumber and wood products	80	81	53	54	2	2	3	4	4	5		
241	Logging	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2411	Logging	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
242	Sawmills and planing mills	79	82	43	44	3	4	5	8	8	11		
2421	Sawmills and planing mills, general	78	81	42	43	4	5	6	8	9	12		
2426	Hardwood dimension and flooring mills	85	87	49	51	3	3	4	8	8	12		
2429	Special product sawmills, n.e.c.	77	59	54	51	7	4	8	4	5	7		
243	Millwork, plywood, and structural members	78	79	54	55	3	3	5	4	5	6		
2431	Millwork	71	71	49	52	6	6	8	6	6	8		
2434	Wood kitchen cabinets	87	89	45	42	3	3	4	8	9	12		
2435	Hardwood veneer and plywood	86	85	62	57	3	3	4	7	7	10		
2436	Softwood veneer and plywood	95	92	94	92	2	4	4	2	4	4		
2439	Structural wood members, n.e.c.	66	66	57	56	9	9	12	7	6	9		

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1994	1993	1994	1993	Full production		1993 to 1994 change	National emergency production		1993 to 1994 change
						Level			Level		
						1994	1993	1994	1993	1994	1993
24	Lumber and wood products—Con.										
244	Wood containers	73	70	56	53	4	4	6	4	3	5
2441	Nailed wood boxes and shooks	61	58	41	32	6	7	9	6	4	7
2448	Wood pallets and skids	74	71	61	61	5	5	7	5	5	7
2449	Wood containers, n.e.c.	86	79	46	41	4	5	6	7	6	9
245	Wood buildings and mobile homes	81	80	44	44	4	4	5	3	4	5
2451	Mobile homes	83	81	42	43	5	4	6	4	4	5
2452	Prefabricated wood buildings	79	77	47	47	6	5	8	7	8	10
249	Miscellaneous wood products	85	79	71	68	4	4	6	4	4	6
2491	Wood preserving	80	86	58	68	5	5	7	7	6	9
2493	Reconstituted wood products	92	92	86	85	3	4	5	5	6	8
2499	Wood products, n.e.c.	78	68	61	56	9	7	11	6	6	8
25	Furniture and fixtures	81	81	52	52	2	2	2	3	2	4
251	Household furniture	86	83	55	52	2	2	3	4	3	5
2511	Wood household furniture	87	84	60	57	3	3	5	6	6	9
2512	Upholstered household furniture	87	86	52	52	3	3	4	6	6	9
2514	Metal household furniture	87	82	56	49	4	5	6	8	6	10
2515	Mattresses and bedsprings	80	77	46	44	4	5	6	7	6	9
2517	Wood television and radio cabinets	66	63	39	38	10	8	13	11	10	15
2519	Household furniture, n.e.c.	82	82	71	70	5	5	7	7	7	10
252	Office furniture	72	74	42	45	4	4	6	6	5	7
2521	Wood office furniture	65	71	29	33	5	3	6	9	8	12
2522	Office furniture, except wood	75	74	49	51	5	5	7	5	5	7
253	Public building and related furniture	85	84	67	64	3	3	4	4	4	6
2531	Public building and related furniture	85	84	67	64	3	3	4	4	4	6
254	Partitions and fixtures	82	84	58	57	4	3	5	5	6	8
2541	Wood partitions and fixtures	79	83	50	52	6	5	8	6	7	9
2542	Partitions and fixtures, except wood	86	85	69	64	3	4	5	9	10	13
259	Miscellaneous furniture and fixtures	80	78	50	49	5	5	7	8	8	11
2591	Drapery hardware and blinds and shades	86	83	42	40	3	5	6	12	13	17
2599	Furniture and fixtures, n.e.c.	77	75	58	56	8	6	10	6	5	8
26	Paper and allied products	87	86	78	77	2	2	3	2	2	3
261	Pulp mills	97	92	96	92	2	4	4	2	4	4
2611	Pulp mills	97	92	96	92	2	4	4	2	4	4
262	Paper mills	98	98	93	95	1	1	2	4	3	5
2621	Paper mills	98	98	93	95	1	1	2	4	3	5
263	Paperboard mills	99	97	97	95	1	1	1	1	2	2
2631	Paperboard mills	99	97	97	95	1	1	1	1	2	2
265	Paperboard containers and boxes	79	76	66	64	4	4	6	6	3	6
2652	Setup paperboard boxes	77	78	42	43	4	5	6	5	5	7
2653	Corrugated and solid fiber boxes	78	73	68	64	5	6	8	5	5	6
2655	Fiber cans, drums, and similar products	77	77	44	45	5	5	7	5	5	7
2656	Sanitary food containers	80	81	65	64	4	4	5	6	6	8
2657	Folding paperboard boxes	82	81	72	72	5	5	7	7	7	9
267	Miscellaneous converted paper products	81	81	72	71	3	3	4	3	3	4
2671	Paper coated and laminated, packaging	79	79	74	74	3	3	4	3	3	4
2672	Paper coated and laminated, n.e.c.	79	75	65	62	6	7	9	8	7	11
2673	Bags plastics, laminated, and coated	70	68	65	63	6	6	9	6	6	9
2674	Bags uncoated paper and multiwall	90	87	78	76	4	3	5	6	5	8
2675	Die-cut paper and board	47	49	34	36	15	13	19	13	12	17
2676	Sanitary paper products	91	92	86	85	3	3	4	3	3	4
2677	Envelopes	88	90	78	79	5	5	6	3	3	4
2678	Stationery products	80	76	70	66	4	5	6	7	7	10
2679	Converted paper products, n.e.c.	92	91	79	77	3	3	4	2	3	3
27	Printing and publishing	83	83	66	68	2	2	3	3	3	4
271	Newspapers	78	83	62	64	6	3	7	8	7	11
2711	Newspapers	78	83	62	64	6	3	7	8	7	11
272	Periodicals	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2721	Periodicals	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
273	Books	86	84	76	71	7	6	9	10	8	13
2731	Book publishing	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2732	Book printing	87	87	81	81	4	4	5	3	3	4
274	Miscellaneous publishing	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2741	Miscellaneous publishing	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
275	Commercial printing	83	83	64	64	3	2	3	4	4	6
2752	Commercial printing, lithographic	83	83	67	68	3	3	4	4	4	5
2754	Commercial printing, gravure	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2759	Commercial printing, n.e.c.	84	82	52	49	3	5	5	9	10	13
276	Manifold business forms	79	78	65	66	6	6	8	7	7	9
2761	Manifold business forms	79	78	65	66	6	6	8	7	7	9
277	Greeting cards	80	73	62	56	2	2	3	3	2	3
2771	Greeting cards	80	73	62	56	2	2	3	3	2	3
278	Blankbooks and bookbinding	74	74	55	53	3	3	4	3	3	4
2782	Blankbooks and looseleaf binders	73	72	53	50	3	3	4	3	3	4
2789	Bookbinding and related work	77	77	60	59	7	6	9	7	7	10
279	Printing trade services	81	81	62	62	3	3	4	5	5	7
2791	Typesetting	(S)	75	(S)	50	(X)	6	(X)	(X)	8	(X)
2796	Platemaking services	82	84	68	70	3	2	4	6	6	9

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1994	1993	1994	1993	Full production			National emergency production		
						Level		1993 to 1994 change	Level		1993 to 1994 change
						1994	1993		1994	1993	
28	Chemicals and allied products	78	78	66	65	2	2	2	2	2	3
281	Industrial inorganic chemicals	80	76	61	54	3	4	5	10	9	13
2812	Alkalies and chlorine	96	96	96	96	2	2	3	2	2	3
2813	Industrial gases	59	52	58	51	7	6	9	7	6	8
2816	Inorganic pigments	87	88	80	80	3	2	4	4	5	6
2819	Industrial inorganic chemicals, n.e.c.	85	80	57	49	4	5	6	13	11	17
282	Plastics materials and synthetics	87	84	83	80	3	3	4	3	3	4
2821	Plastics materials and resins	86	84	81	77	4	4	6	4	5	6
2822	Synthetic rubber	91	84	91	82	4	3	5	4	3	5
2823	Cellulosic manmade fibers	67	68	66	67	1	1	1	1	1	1
2824	Organic fibers, noncellulosic	91	88	90	88	2	2	3	2	2	3
283	Drugs	70	72	58	63	4	3	5	5	3	6
2833	Medicinals and botanicals	80	89	80	88	4	3	5	4	3	5
2834	Pharmaceutical preparations	67	70	55	60	4	4	5	5	4	6
2835	Diagnostic substances	73	70	59	56	7	6	9	7	6	9
2836	Biological products, except diagnostic	94	97	90	91	2	2	3	5	6	8
284	Soaps, cleaners, and toilet goods	78	75	56	54	2	3	3	3	3	4
2841	Soap and other detergents	72	70	52	51	5	4	6	6	5	8
2842	Polishes and sanitation goods	76	75	43	42	7	7	10	7	7	9
2843	Surface active agents	82	71	54	42	6	7	9	13	8	15
2844	Toilet preparations	82	78	68	64	2	3	4	3	4	5
285	Paints and allied products	69	67	57	58	5	5	7	5	5	7
2851	Paints and allied products	69	67	57	58	5	5	7	5	5	7
286	Industrial organic chemicals	89	90	86	88	2	2	3	3	3	4
2861	Gum and wood chemicals	73	65	72	64	12	15	19	12	14	19
2865	Cyclic crudes and intermediates	88	86	86	84	2	2	3	2	2	3
2869	Industrial organic chemicals, n.e.c.	89	91	87	89	2	2	3	4	3	5
287	Agricultural chemicals	88	85	81	72	2	2	3	4	4	6
2873	Nitrogenous fertilizers	93	90	92	87	4	6	7	3	5	9
2874	Phosphatic fertilizers	87	84	98	83	9	9	12	1	9	16
2875	Fertilizers, mixing only	77	77	61	60	8	10	12	10	12	16
2879	Agricultural chemicals, n.e.c.	89	85	77	70	2	2	3	6	5	7
289	Miscellaneous chemical products	82	83	65	65	3	2	3	4	4	6
2891	Adhesives and sealants	82	78	65	60	4	3	5	7	6	9
2892	Explosives	78	81	70	75	3	2	3	3	4	5
2893	Printing ink	77	79	50	52	5	4	6	7	7	10
2895	Carbon black	99	98	96	94	1	1	1	2	2	2
2899	Chemical preparations, n.e.c.	82	86	67	69	4	3	5	7	7	9
29	Petroleum and coal products	89	87	77	76	1	2	2	3	3	4
291	Petroleum refining	95	93	92	90	1	2	2	1	2	3
2911	Petroleum refining	95	93	92	90	1	2	2	1	2	3
295	Asphalt paving and roofing materials	70	70	48	49	3	3	4	5	4	6
2951	Asphalt paving mixtures and blocks	62	64	37	39	5	5	6	6	5	8
2952	Asphalt felts and coatings	80	78	69	65	2	3	4	3	4	5
299	Miscellaneous petroleum and coal products	69	71	43	47	5	4	6	7	8	11
2992	Lubricating oils and greases	66	68	39	42	5	5	7	7	8	11
2999	Petroleum and coal products, n.e.c.	89	90	82	82	2	2	3	1	2	3
30	Rubber and miscellaneous plastics products	86	83	71	70	3	3	4	2	2	3
301	Tires and inner tubes	94	92	87	85	2	3	4	3	3	4
3011	Tires and inner tubes	94	92	87	85	2	3	4	3	3	4
302	Rubber and plastics footwear	73	84	60	66	4	4	5	2	2	3
3021	Rubber and plastics footwear	73	84	60	66	4	4	5	2	2	3
305	Hose and belting and gaskets and packing	80	83	69	72	3	2	3	4	4	5
3052	Rubber and plastics hose and belting	88	80	79	74	2	3	3	2	3	4
3053	Gaskets, packing, and sealing devices	76	84	63	71	4	3	5	5	6	7
306	Fabricated rubber products, n.e.c.	76	76	68	65	6	4	7	5	5	8
3061	Mechanical rubber goods	63	69	58	57	9	6	11	7	8	11
3069	Fabricated rubber products, n.e.c.	89	83	78	73	4	4	6	7	7	9
308	Miscellaneous plastics products, n.e.c.	87	83	70	68	4	4	5	3	3	4
3081	Unsupported plastics film and sheet	88	90	79	81	3	3	4	5	5	7
3082	Unsupported plastics profile shapes	92	87	86	76	4	4	6	7	7	10
3083	Laminated plastics plate, sheet, and profile shapes	89	85	78	74	3	4	5	6	6	8
3084	Plastics pipe	88	89	77	78	3	2	3	5	5	7
3085	Plastics bottles	89	88	69	69	3	4	5	9	8	12
3086	Plastics foam products	79	78	51	51	6	4	7	8	8	11
3087	Custom compounding of purchased plastics resins	85	80	74	68	2	2	3	4	4	5
3088	Plastics plumbing fixtures	69	63	38	40	3	4	5	6	6	8
3089	Plastics products, n.e.c.	88	83	74	71	7	6	9	4	4	6
31	Leather and leather products	78	77	57	55	2	2	3	3	3	4
311	Leather tanning and finishing	83	78	68	63	5	5	7	5	6	7
3111	Leather tanning and finishing	83	78	68	63	5	5	7	5	6	7
313	Footwear cut stock	69	77	31	34	5	5	7	7	7	10
3131	Footwear cut stock	69	77	31	34	5	5	7	7	7	10
314	Footwear, except rubber	80	79	55	54	3	3	4	5	5	7
3142	House slippers	81	76	54	54	5	9	10	9	11	14
3143	Men's footwear, except athletic	76	78	56	56	4	4	5	7	7	9
3144	Women's footwear, except athletic	86	83	53	54	2	7	7	11	12	17
3149	Footwear, except rubber, n.e.c.	89	82	55	44	1	2	2	6	6	8
315	Leather gloves and mittens	87	88	50	49	2	2	3	4	4	5
3151	Leather gloves and mittens	87	88	50	49	2	2	3	4	4	5

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1994	1993	1994	1993	Full production			National emergency production			
						Level		1993 to 1994 change	Level		1993 to 1994 change	
						1994	1993		1994	1993		
31	Leather and leather products—Con.											
316	Luggage	64	61	51	47	8	8	11	7	5	8	
3161	Luggage	64	61	51	47	8	8	11	7	5	8	
317	Handbags and personal leather goods	88	90	77	74	2	2	2	5	6	7	
3171	Women's handbags and purses	89	(S)	75	(S)	3	(X)	(X)	8	(X)	(X)	
3172	Personal leather goods, n.e.c.	88	91	78	76	2	2	3	5	6	7	
319	Leather goods, n.e.c.	77	77	50	51	5	4	6	4	4	5	
3199	Leather goods, n.e.c.	77	77	50	51	5	4	6	4	4	5	
32	Stone, clay, and glass products	81	78	66	65	3	3	4	4	3	5	
321	Flat glass	99	98	95	95	1	1	1	1	1	1	
3211	Flat glass	99	98	95	95	1	1	1	1	1	1	
322	Glass and glassware, pressed or blown	93	90	89	87	1	2	2	2	3	3	
3221	Glass containers	93	93	88	90	2	2	3	3	2	4	
3229	Pressed and blown glass, n.e.c.	93	88	90	84	2	3	3	3	4	5	
323	Products of purchased glass	84	81	78	76	2	3	3	3	3	4	
3231	Products of purchased glass	84	81	78	76	2	3	3	3	3	4	
324	Cement, hydraulic	97	91	91	86	1	2	3	4	4	6	
3241	Cement, hydraulic	97	91	91	86	1	2	3	4	4	6	
325	Structural clay products	87	83	78	76	2	2	3	3	2	3	
3251	Brick and structural clay tile	89	83	84	79	4	4	6	4	4	5	
3253	Ceramic wall and floor tile	95	95	91	90	2	2	3	4	4	6	
3255	Clay refractories	80	75	66	63	4	3	5	5	4	6	
3259	Structural clay products, n.e.c.	69	64	48	44	3	3	4	5	4	7	
326	Pottery and related products	82	80	67	66	5	5	7	5	5	7	
3261	Vitreous plumbing fixtures	97	92	79	74	2	3	4	8	8	11	
3262	Vitreous china table and kitchenware	90	87	61	59	1	2	2	8	8	11	
3263	Semivitreous table and kitchenware	86	83	50	50	1	1	1	1	1	1	
3264	Porcelain electrical supplies	69	68	65	64	11	12	16	9	11	14	
3269	Pottery products, n.e.c.	80	79	62	64	3	3	4	10	8	13	
327	Concrete, gypsum, and plaster products	69	66	51	51	7	7	9	6	5	8	
3271	Concrete block and brick	81	72	65	57	4	4	5	5	5	6	
3272	Concrete products, n.e.c.	81	82	65	68	4	5	6	6	5	7	
3273	Ready-mixed concrete	58	55	39	40	10	9	13	7	7	10	
3274	Lime	89	81	73	66	3	4	5	11	9	14	
3275	Gypsum products	95	91	95	91	1	2	2	1	2	2	
328	Cut stone and stone products	80	79	60	64	5	6	7	9	8	12	
3281	Cut stone and stone products	80	79	60	64	5	6	7	9	8	12	
329	Miscellaneous nonmetallic mineral products	84	82	66	62	2	2	3	4	5	6	
3291	Abrasive products	84	84	71	70	4	3	5	6	5	7	
3292	Asbestos products	74	(D)	74	(D)	1	(X)	(X)	1	(X)	(X)	
3295	Minerals, ground or treated	82	79	68	65	2	5	5	7	7	9	
3296	Mineral wool	88	87	67	61	4	3	5	11	12	17	
3297	Nonclay refractories	75	71	53	48	4	4	6	6	6	9	
3299	Nonmetallic mineral products, n.e.c.	82	(D)	59	(D)	5	(X)	(X)	8	(X)	(X)	
33	Primary metal industries	87	83	78	75	1	1	2	2	2	3	
331	Blast furnace and basic steel products	91	87	86	83	2	2	3	2	3	3	
3312	Blast furnaces and steel mills	93	88	90	86	2	3	4	2	3	4	
3313	Electrometallurgical products	78	81	69	72	3	3	4	3	3	4	
3315	Steel wire and related products	86	86	80	76	3	2	3	3	3	4	
3316	Cold finishing of steel shapes	85	82	80	80	2	2	2	2	2	3	
3317	Steel pipe and tubes	87	82	68	67	2	3	3	6	5	7	
332	Iron and steel foundries	81	75	70	66	3	3	4	4	4	5	
3321	Gray and ductile iron foundries	84	78	72	69	4	4	5	4	4	6	
3322	Malleable iron foundries	88	83	84	80	2	2	2	3	2	3	
3324	Steel investment foundries	72	66	64	58	8	8	12	9	9	13	
3325	Steel foundries, n.e.c.	79	75	65	60	6	7	9	9	10	14	
333	Primary nonferrous metals	88	84	82	76	1	2	2	2	3	3	
3331	Primary copper	92	86	89	83	2	2	2	3	2	3	
3334	Primary aluminum	85	84	85	84	2	3	4	2	3	4	
3339	Primary nonferrous metals, n.e.c.	86	83	65	62	2	3	3	5	5	7	
334	Secondary nonferrous metals	89	88	83	81	2	3	3	3	4	5	
3341	Secondary nonferrous metals	89	88	83	81	2	3	3	3	4	5	
335	Nonferrous rolling and drawing	85	83	73	72	4	2	4	5	5	7	
3351	Copper rolling and drawing	91	86	85	80	2	3	3	2	3	3	
3353	Aluminum sheet, plate, and foil	91	81	86	74	3	2	3	2	2	3	
3354	Aluminum extruded products	85	77	83	76	4	4	5	4	4	6	
3355	Aluminum rolling and drawing, n.e.c.	89	(D)	82	(D)	4	(X)	(X)	8	(X)	(X)	
3356	Nonferrous rolling and drawing, n.e.c.	81	(D)	73	(D)	3	(X)	(X)	4	(X)	(X)	
3357	Nonferrous wire drawing and insulating	82	89	63	69	8	3	8	9	9	13	
336	Nonferrous foundries (castings)	82	80	67	63	2	2	2	3	3	4	
3363	Aluminum die-castings	85	83	72	73	2	2	3	4	4	6	
3364	Nonferrous die-castings, except aluminum	83	79	56	53	2	2	3	7	7	10	
3365	Aluminum foundries	77	75	63	59	3	3	4	6	6	8	
3366	Copper foundries	83	81	60	58	2	3	4	4	3	5	
3369	Nonferrous foundries, n.e.c.	83	83	66	65	4	3	5	2	3	4	
339	Miscellaneous primary metal products	83	82	75	75	4	3	4	4	3	4	
3398	Metal heat treating	85	80	78	73	3	4	5	3	4	5	
3399	Primary metal products, n.e.c.	81	86	72	78	7	3	7	6	3	7	

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1994	1993	1994	1993	Full production			National emergency production		
						Level		1993 to 1994 change	Level		1993 to 1994 change
						1994	1993		1994	1993	
34	Fabricated metal products	79	77	61	59	1	1	2	2	2	2
341	Metal cans and shipping containers	87	86	77	76	3	2	3	4	3	5
3411	Metal cans	89	88	84	83	3	3	4	4	3	5
3412	Metal barrels, drums, and pails	75	74	48	49	5	5	7	6	6	8
342	Cutlery, handtools, and hardware	85	83	65	62	2	2	3	3	3	4
3421	Cutlery	90	92	85	87	2	2	2	3	3	4
3423	Hand and edge tools, n.e.c.	81	76	69	64	2	3	4	4	5	6
3425	Saw blades and handsaws	86	84	73	70	2	2	2	5	6	8
3429	Hardware, n.e.c.	86	86	58	57	4	4	5	4	5	6
343	Plumbing and heating, except electric	81	79	56	53	3	3	4	4	4	5
3431	Metal sanitary ware	89	89	84	85	3	3	4	4	4	5
3432	Plumbing fixture fittings and trim	75	74	55	52	5	5	7	7	6	9
3433	Heating equipment, except electric	85	81	49	47	3	3	4	4	4	6
344	Fabricated structural metal products	75	75	55	55	2	2	3	3	3	4
3441	Fabricated structural metal	71	68	50	49	5	5	7	5	5	7
3442	Metal doors, sash, and trim	78	78	62	62	5	3	6	6	5	8
3443	Fabricated plate work (boiler shops)	77	82	63	64	5	3	6	6	5	8
3444	Sheet metal work	76	74	52	53	3	3	4	8	7	11
3446	Architectural metal work	72	73	51	50	5	5	6	4	4	6
3448	Prefabricated metal buildings	79	78	53	54	3	3	4	10	11	15
3449	Miscellaneous metal work	71	69	57	54	4	4	5	5	4	6
345	Screw machine products, bolts, etc.	82	80	59	58	2	2	3	4	4	6
3451	Screw machine products	80	79	53	53	3	4	5	6	6	8
3452	Bolts, nuts, rivets, and washers	84	81	65	64	3	2	3	5	5	7
346	Metal forgings and stampings	80	78	69	66	2	3	3	2	2	3
3462	Iron and steel forgings	73	73	65	65	4	4	5	4	4	6
3463	Nonferrous forgings	79	77	68	67	4	5	6	4	4	5
3465	Automotive stampings	87	88	78	76	2	3	4	3	3	4
3466	Crowns and closures	78	80	71	75	3	4	5	5	5	7
3469	Metal stampings, n.e.c.	73	69	59	55	4	4	6	4	4	6
347	Metal services, n.e.c.	76	73	59	57	6	5	8	5	5	7
3471	Plating and polishing	84	79	60	57	3	3	4	6	5	8
3479	Metal coating and allied services	67	67	58	56	10	9	14	9	8	12
348	Ordnance and accessories, n.e.c.	69	67	51	51	3	2	4	3	2	3
3482	Small arms ammunition	58	52	41	37	1	2	2	2	2	3
3483	Ammunition, except for small arms, n.e.c.	66	61	54	53	8	2	8	9	2	9
3484	Small arms	91	87	71	66	2	2	3	1	2	2
3489	Ordnance and accessories, n.e.c.	67	76	42	47	4	3	5	1	4	4
349	Miscellaneous fabricated metal products	78	78	60	58	3	2	3	4	4	5
3491	Industrial valves	77	82	69	67	7	5	8	5	5	7
3492	Fluid power valves and hose fittings	81	78	52	49	3	3	5	9	8	12
3493	Steel springs, except wire	72	68	71	67	7	4	8	6	4	7
3494	Valves and pipe fittings, n.e.c.	87	77	73	62	2	7	8	3	6	7
3495	Wire springs	84	84	71	72	4	4	5	5	6	7
3496	Miscellaneous fabricated wire products	83	82	62	59	3	3	4	6	6	8
3497	Metal foil and leaf	70	83	64	66	10	6	11	7	5	9
3498	Fabricated pipe and fittings	78	75	59	58	4	5	7	6	7	9
3499	Fabricated metal products, n.e.c.	76	71	51	48	4	5	7	10	8	13
35	Industrial machinery and equipment	79	77	62	59	1	1	2	2	2	2
351	Engines and turbines	85	79	78	64	2	3	4	3	5	6
3511	Turbines and turbine generator sets	85	84	82	60	2	4	4	2	9	9
3519	Internal combustion engines, n.e.c.	86	75	75	67	3	5	6	4	5	6
352	Farm and garden machinery	76	77	68	69	2	2	3	2	2	3
3523	Farm machinery and equipment	78	77	72	72	2	3	3	2	2	3
3524	Lawn and garden equipment	73	78	60	63	2	2	3	4	4	5
353	Construction and related machinery	80	75	62	57	2	2	2	2	2	3
3531	Construction machinery	81	74	69	63	2	1	2	3	1	3
3532	Mining machinery	63	62	44	42	9	9	12	10	9	13
3533	Oil and gas field machinery	82	81	57	56	4	5	6	6	7	9
3534	Elevators and moving stairways	73	72	52	56	6	6	8	10	7	12
3535	Conveyors and conveying equipment	84	78	60	50	5	5	7	5	8	9
3536	Hoists, cranes, and monorails	87	88	74	76	5	6	8	9	9	13
3537	Industrial trucks and tractors	75	73	56	57	4	4	6	4	3	5
354	Metalworking machinery	81	78	62	61	2	2	3	3	3	4
3541	Machine tools, metal cutting types	79	65	64	54	3	4	5	4	5	7
3542	Machine tools, metal forming types	76	77	51	50	4	5	6	8	8	11
3543	Industrial patterns	78	71	63	52	5	5	7	5	6	8
3544	Special dies, tools, jigs, and fixtures	82	85	62	65	4	4	5	5	6	8
3545	Machine tool accessories	82	78	67	67	3	3	5	4	4	5
3546	Power-driven handtools	76	69	61	55	2	4	5	4	4	6
3547	Rolling mill machinery	69	85	49	56	4	3	4	3	5	6
3548	Welding apparatus	86	86	68	67	2	2	3	7	6	9
3549	Metalworking machinery, n.e.c.	79	72	59	57	7	5	8	5	4	7
355	Special industry machinery	79	75	56	52	3	3	4	4	3	5
3552	Textile machinery	73	79	49	49	7	5	9	8	7	10
3553	Woodworking machinery	69	69	42	44	11	6	12	12	8	14
3554	Paper industries machinery	89	82	76	75	2	2	3	4	4	5
3555	Printing trades machinery	87	79	51	45	3	5	5	7	7	10
3556	Food products machinery	80	81	58	55	3	5	5	5	6	8
3559	Special industry machinery, n.e.c.	78	72	56	52	4	5	6	5	5	7

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1994	1993	1994	1993	Full production			National emergency production			
						Level		1993 to 1994 change	Level		1993 to 1994 change	
						1994	1993		1994	1993		
35	Industrial machinery and equipment—Con.											
356	General industrial machinery	79	76	60	57	2	2	3	3	3	4	
3561	Pumps and pumping equipment	77	77	72	62	7	6	9	6	6	8	
3562	Ball and roller bearings	91	80	86	78	3	2	3	3	2	4	
3563	Air and gas compressors	82	75	65	59	3	2	3	7	5	9	
3564	Blowers and fans	73	75	55	56	8	9	12	6	7	9	
3565	Packaging machinery	83	84	51	53	3	3	4	7	8	10	
3566	Speed changers, drives, and gears	77	76	65	64	5	5	7	6	7	9	
3567	Industrial furnaces and ovens	68	64	41	38	10	6	11	13	11	17	
3568	Power transmission equipment, n.e.c.	81	78	67	63	4	2	4	4	4	5	
3569	General industrial machinery, n.e.c.	73	72	48	49	6	4	7	5	4	6	
357	Computer and office equipment	78	77	60	59	4	4	6	5	5	7	
3571	Electronic computers	73	73	57	56	7	6	8	7	8	10	
3572	Computer storage devices	95	95	93	89	1	1	1	3	2	3	
3575	Computer terminals	(S)	78	(S)	47	(X)	3	(X)	(X)	7	(X)	
3577	Computer peripheral equipment, n.e.c.	82	77	59	51	4	4	6	8	7	10	
3578	Calculating and accounting equipment	78	74	47	50	3	3	4	2	2	3	
3579	Office machines, n.e.c.	85	88	53	62	3	5	6	8	11	13	
358	Refrigeration and service machinery	79	76	67	62	2	3	4	3	3	4	
3581	Automatic vending machines	80	73	60	55	2	3	3	9	8	12	
3582	Commercial laundry equipment	89	93	74	71	3	2	3	6	5	7	
3585	Refrigeration and heating equipment	79	77	71	67	3	3	4	3	4	5	
3586	Measuring and dispensing pumps	76	73	64	62	1	1	2	2	2	2	
3589	Service industry machinery, n.e.c.	78	72	56	51	4	7	8	5	4	7	
359	Industrial machinery, n.e.c.	77	77	62	62	3	3	5	4	4	6	
3592	Carburetors, pistons, rings, and valves	93	82	89	78	2	3	3	3	2	4	
3593	Fluid power cylinders and actuators	67	64	55	50	4	3	5	4	4	5	
3594	Fluid power pumps and motors	84	79	80	76	2	2	3	2	2	2	
3596	Scales and balances, except laboratory	85	83	53	54	3	3	4	5	4	7	
3599	Industrial machinery, n.e.c.	76	77	60	61	4	4	6	5	5	7	
36	Electronic and other electric equipment	81	79	63	60	2	2	2	2	2	3	
361	Electric distribution equipment	72	70	56	55	3	3	5	4	4	5	
3612	Transformers, except electronic	77	76	65	65	4	4	6	4	4	6	
3613	Switchgear and switchboard apparatus	69	67	51	51	5	4	6	5	5	7	
362	Electrical industrial apparatus	84	80	58	53	3	2	3	3	4	5	
3621	Motors and generators	82	79	59	57	5	4	7	7	7	9	
3624	Carbon and graphite products	89	86	81	80	3	4	4	4	3	5	
3625	Relays and industrial controls	84	79	58	50	2	3	3	4	5	6	
3629	Electrical industrial apparatus, n.e.c.	85	83	44	42	5	6	8	6	4	7	
363	Household appliances	82	84	71	73	1	1	2	1	2	2	
3631	Household cooking equipment	72	72	64	64	2	2	3	3	3	4	
3632	Household refrigerators and freezers	80	82	58	61	2	2	3	2	3	3	
3633	Household laundry equipment	89	(D)	84	(D)	1	(X)	(X)	2	(X)	(X)	
3634	Electric housewares and fans	88	88	70	71	3	2	3	5	6	8	
3635	Household vacuum cleaners	70	75	64	66	4	5	6	3	3	4	
3639	Household appliances, n.e.c.	92	(D)	89	(D)	1	(X)	(X)	2	(X)	(X)	
364	Electric lighting and wiring equipment	82	81	59	58	2	2	2	3	3	4	
3641	Electric lamp bulbs and tubes	85	85	66	65	3	3	4	9	8	13	
3643	Current-carrying wiring devices	86	86	67	65	3	3	4	5	5	7	
3644	Noncurrent-carrying wiring devices	80	79	55	54	4	5	6	9	10	13	
3645	Residential lighting fixtures	74	73	36	34	6	7	9	3	3	4	
3646	Commercial lighting fixtures	80	76	56	61	3	3	4	5	3	6	
3647	Vehicular lighting equipment	81	81	75	75	5	5	7	3	3	4	
3648	Lighting equipment, n.e.c.	78	78	57	58	4	4	5	5	5	6	
365	Household audio and video equipment	85	86	67	64	2	2	3	3	3	4	
3651	Household audio and video equipment	85	86	61	58	3	3	4	4	4	5	
3652	Prerecorded records and tapes	84	86	81	82	2	2	2	3	3	4	
366	Communications equipment	75	74	54	52	4	4	6	6	6	9	
3661	Telephone and telegraph apparatus	79	80	61	61	3	3	4	6	6	8	
3663	Radio and television communications equipment	70	67	50	46	7	7	10	12	11	16	
3669	Communications equipment, n.e.c.	84	81	41	41	3	5	6	5	6	7	
367	Electronic components and accessories	84	81	71	67	3	3	4	4	3	5	
3671	Electron tubes	69	69	64	62	2	2	2	3	3	4	
3672	Printed circuit boards	83	78	68	65	4	5	6	7	7	10	
3674	Semiconductors and related devices	90	87	84	80	6	5	7	8	6	10	
3675	Electronic capacitors	88	85	76	72	3	3	4	5	5	7	
3676	Electronic resistors	60	60	40	39	6	6	8	4	4	6	
3677	Electronic coils and transformers	76	73	60	58	5	5	7	6	7	9	
3678	Electronic connectors	68	62	57	58	5	5	6	5	6	7	
3679	Electronic components, n.e.c.	79	77	58	52	4	4	5	5	5	7	
369	Miscellaneous electrical equipment and supplies	81	76	56	56	4	4	6	5	5	7	
3691	Storage batteries	80	77	78	77	5	5	7	3	3	5	
3692	Primary batteries, dry and wet	86	83	66	66	2	2	2	2	3	3	
3694	Engine electrical equipment	95	93	52	53	2	2	3	11	11	16	
3695	Magnetic and optical recording media	91	89	71	84	1	2	2	6	2	6	
3699	Electrical equipment and supplies, n.e.c.	61	54	41	38	10	9	13	6	6	8	
37	Transportation equipment	74	72	54	54	2	1	2	3	2	3	
371	Motor vehicles and equipment	82	79	61	59	2	2	3	5	4	6	
3711	Motor vehicles and car bodies	82	80	62	59	2	3	3	3	4	5	
3713	Truck and bus bodies	70	66	52	48	5	5	7	6	5	8	
3714	Motor vehicle parts and accessories	84	80	61	62	5	4	6	10	9	13	
3715	Truck trailers	87	83	78	75	2	3	4	3	5	6	
3716	Motor homes	63	56	36	28	5	3	5	5	2	6	

See footnotes at end of table.

Table 2a. Capacity Utilization Rates by Industry: Fourth Quarters 1994 and 1993—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1994	1993	1994	1993	Full production			National emergency production			
						Level		1993 to 1994 change	Level		1993 to 1994 change	
						1994	1993		1994	1993		
37	Transportation equipment—Con.											
372	Aircraft and parts	60	63	44	46	2	2	2	3	3	4	
3721	Aircraft	55	59	44	48	2	1	2	3	3	4	
3724	Aircraft engines and engine parts	66	66	48	47	5	5	6	4	4	6	
3728	Aircraft parts and equipment, n.e.c.	67	70	41	42	3	3	4	6	6	8	
373	Ship and boat building and repairing	67	69	51	50	4	4	6	4	4	5	
3731	Ship building and repairing	67	71	50	50	5	5	7	4	4	6	
3732	Boat building and repairing	66	64	53	53	6	6	9	6	7	9	
374	Railroad equipment	82	82	48	50	2	3	3	4	5	6	
3743	Railroad equipment	82	82	48	50	2	3	3	4	5	6	
375	Motorcycles, bicycles, and parts	88	88	74	73	3	4	4	4	4	6	
3751	Motorcycles, bicycles, and parts	88	88	74	73	3	4	4	4	4	6	
376	Guided missiles, space vehicles, parts	74	67	64	57	6	4	7	8	5	9	
3761	Guided missiles and space vehicles	83	85	73	78	9	5	10	13	7	14	
3764	Space propulsion units and parts	51	45	48	37	5	5	7	5	7	8	
3769	Space vehicle equipment, n.e.c.	65	67	41	45	2	2	3	3	2	4	
379	Miscellaneous transportation equipment	76	69	34	36	3	2	3	4	4	5	
3792	Travel trailers and campers	71	72	25	33	5	1	5	3	4	5	
3795	Tanks and tank components	53	56	31	31	3	2	3	1	1	2	
3799	Transportation equipment, n.e.c.	92	85	44	44	2	3	4	10	12	15	
38	Instruments and related products	72	70	52	50	2	2	2	2	2	2	
381	Search and navigation equipment	56	56	42	42	3	3	4	4	4	5	
3812	Search and navigation equipment	56	56	42	42	3	3	4	4	4	5	
382	Measuring and controlling devices	76	73	50	49	2	2	3	2	2	3	
3821	Laboratory apparatus and furniture	75	76	49	53	4	4	5	5	6	7	
3822	Environmental controls	70	66	42	45	8	9	12	8	7	11	
3823	Process control instruments	68	66	48	47	4	4	6	5	5	6	
3824	Fluid meters and counting devices	92	86	62	62	2	4	4	6	7	9	
3825	Instruments to measure electricity	74	73	50	50	5	6	8	5	4	6	
3826	Analytical instruments	84	83	49	47	3	3	4	5	5	7	
3827	Optical instruments and lenses	79	77	48	52	3	5	6	5	6	8	
3829	Measuring and controlling devices, n.e.c.	76	70	52	46	6	5	8	6	5	8	
384	Medical instruments and supplies	75	75	52	52	2	3	3	3	3	4	
3841	Surgical and medical instruments	65	64	51	52	4	4	6	5	5	7	
3842	Surgical appliances and supplies	87	85	50	49	2	3	3	5	5	7	
3843	Dental equipment and supplies	78	78	50	52	3	3	4	6	6	8	
3844	X-ray apparatus and tubes	81	80	55	59	2	2	3	10	11	14	
3845	Electromedical equipment	78	79	59	59	2	2	3	5	5	7	
385	Ophthalmic goods	84	83	64	65	4	2	4	8	7	10	
3851	Ophthalmic goods	84	83	64	65	4	2	4	8	7	10	
386	Photographic equipment and supplies	92	85	74	67	2	4	4	3	3	4	
3861	Photographic equipment and supplies	92	85	74	67	2	4	4	3	3	4	
387	Watches, clocks, watchcases, and parts	67	61	59	54	11	10	15	8	7	11	
3873	Watches, clocks, watchcases, and parts	67	61	59	54	11	10	15	8	7	11	
39	Miscellaneous manufacturing industries	75	74	53	54	3	3	3	3	3	4	
391	Jewelry, silverware, and plated ware	83	81	53	52	5	5	7	8	8	11	
3911	Jewelry, precious metal	89	86	55	57	4	5	6	12	13	17	
3914	Silverware and plated ware	78	83	48	47	3	2	3	12	11	17	
3915	Jewelers' materials and lapidary work	63	65	48	41	17	14	22	10	6	11	
393	Musical instruments	86	78	42	44	2	4	5	9	9	12	
3931	Musical instruments	86	78	42	44	2	4	5	9	9	12	
394	Toys and sporting goods	72	72	56	57	5	5	7	5	5	7	
3942	Dolls and stuffed toys	56	71	50	63	17	11	20	15	10	18	
3944	Games, toys, and children's vehicles	70	73	51	56	3	3	4	7	6	9	
3949	Sporting and athletic goods, n.e.c.	73	72	60	57	8	8	11	7	6	9	
395	Pens, pencils, office, and art supplies	73	70	53	51	3	3	4	7	7	10	
3951	Pens and mechanical pencils	60	57	32	30	4	4	6	8	8	11	
3952	Lead pencils and art goods	92	90	89	87	2	3	3	2	2	3	
3953	Marking devices	85	86	82	84	5	5	6	5	5	7	
3955	Carbon paper and inked ribbons	64	63	56	59	7	8	11	5	6	7	
396	Costume jewelry and notions	67	68	60	60	8	7	11	7	6	9	
3961	Costume jewelry	61	64	54	56	10	10	14	8	8	11	
3965	Fasteners, buttons, needles, and pins	83	76	77	69	3	6	6	5	5	7	
399	Miscellaneous manufactures	76	75	51	54	4	4	5	5	4	6	
3991	Brooms and brushes	61	59	47	44	10	10	14	8	8	11	
3993	Signs and advertising specialties	77	75	49	51	6	6	8	8	8	11	
3995	Burial caskets	92	91	79	77	2	2	2	6	7	9	
3996	Hard surface floor coverings, n.e.c.	88	85	79	72	3	3	4	2	3	3	
3999	Manufacturing industries, n.e.c.	73	76	46	52	6	6	8	7	5	9	

¹A description of the standard error is given in appendix B, "Qualifications of the Data" of the report.

²SIC 2067, Chewing Gum is combined with SIC 2064 as of 1993.

Note: Some data are revised to include additional information. See introduction for a discussion of the revision.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1992	1991	1992	1991	Full production			National emergency production		
						Level		1991 to 1992 change	Level		1991 to 1992 change
						1992	1991		1992	1991	
	All industries	77	77	62	62	1	1	1	1	1	1
	Durable goods industries	75	75	58	58	1	1	1	1	1	1
	Nondurable goods industries	80	80	66	66	1	1	1	2	2	2
	Advanced processing industries	76	76	60	60	1	1	1	1	1	2
	Primary processing industries	80	79	68	67	1	1	1	1	1	1
20	Food and kindred products	78	78	68	68	1	1	2	1	1	2
201	Meat products	85	84	67	68	2	2	3	3	4	5
2011	Meat packing plants	86	82	62	61	2	3	3	5	6	7
2013	Sausages and other prepared meats	80	80	70	71	3	4	5	5	5	6
2015	Poultry slaughtering and processing	88	89	69	72	4	4	5	6	7	9
202	Dairy products	78	78	64	64	3	2	3	5	4	6
2021	Creamery butter	63	64	62	63	10	10	14	10	9	13
2022	Cheese, natural and processed	83	86	58	59	7	5	8	14	13	18
2023	Dry, condensed, and evaporated dairy products	77	72	65	62	6	5	8	6	5	7
2024	Ice cream and frozen desserts	65	68	50	53	4	4	6	3	3	4
2026	Fluid milk	81	81	73	73	3	3	4	4	4	5
203	Preserved fruits and vegetables	75	76	68	70	3	3	4	3	3	4
2032	Canned specialties	87	87	85	84	2	2	3	2	2	3
2033	Canned fruits and vegetables	70	70	69	69	7	7	10	7	7	9
2034	Dehydrated fruits, vegetables, and soups	80	74	67	64	4	5	7	4	5	6
2035	Pickles, sauces, and salad dressings	64	66	51	52	5	5	7	5	5	7
2037	Frozen fruits and vegetables	70	78	66	75	5	4	6	5	3	6
2038	Frozen specialties, n.e.c.	87	89	76	79	2	2	3	3	2	4
204	Grain mill products	82	83	74	74	3	3	4	3	3	4
2041	Flour and other grain mill products	83	87	82	85	3	3	4	3	3	4
2043	Cereal breakfast foods	85	85	78	78	2	2	3	3	3	4
2044	Rice milling	93	94	91	88	1	1	1	-	1	1
2045	Prepared flour mixes and doughs	74	75	52	52	9	11	14	9	10	13
2046	Wet corn milling	96	96	96	96	1	1	1	1	1	1
2047	Dog and cat food	73	75	70	72	8	9	12	7	8	11
2048	Prepared feeds, n.e.c.	80	82	63	63	4	4	5	5	4	6
205	Bakery products	80	80	76	75	2	2	3	2	2	3
2051	Bread, cake, and related products	82	81	78	76	3	3	4	3	3	4
2052	Cookies and crackers	76	78	73	75	3	2	3	2	3	3
2053	Frozen bakery products, except bread	87	83	66	65	3	2	3	3	2	4
206	Sugar and confectionery products	75	74	68	67	5	4	6	5	4	6
2061	Raw cane sugar	91	95	80	82	3	3	3	7	7	9
2062	Cane sugar refining	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
2063	Beet sugar	82	94	78	88	10	3	10	9	4	10
2064	Candy and other confectionery products	69	66	64	62	7	6	9	8	6	10
2066	Chocolate and cocoa products	79	77	77	76	2	2	3	2	2	2
2067	Chewing gum	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
2068	Salted and roasted nuts and seeds	73	75	55	56	3	4	5	8	9	12
207	Fats and oils	85	85	81	83	2	1	2	2	1	2
2074	Cottonseed oil mills	92	93	93	93	2	3	3	2	3	3
2075	Soybean oil mills	92	94	92	93	2	2	2	2	2	2
2076	Vegetable oil mills, n.e.c.	96	89	96	89	2	1	2	2	1	2
2077	Animal and marine fats and oils	86	82	80	79	5	5	7	4	5	6
2079	Edible fats and oils, n.e.c.	78	79	72	78	3	1	3	3	1	3
208	Beverages	75	75	64	64	3	3	4	3	3	4
2082	Malt beverages	84	86	83	85	2	2	3	2	2	3
2083	Malt	97	99	91	99	1	1	1	1	1	1
2084	Vines, brandy, and brandy spirits	83	83	74	75	4	3	4	3	3	4
2085	Distilled and blended liquors	78	77	70	50	2	1	2	4	4	6
2086	Bottled and canned soft drinks	63	65	55	57	5	5	7	5	5	7
2087	Flavoring extracts and syrups, n.e.c.	80	76	60	54	5	5	7	9	7	11
209	Miscellaneous food and kindred products	72	72	62	63	3	3	4	3	3	5
2091	Canned and cured fish and seafoods	80	78	63	67	2	4	5	4	4	5
2092	Fresh or frozen prepared fish	73	66	65	60	8	10	13	7	9	11
2095	Roasted coffee	84	85	73	75	2	2	3	6	7	10
2096	Potato chips and similar snacks	78	81	68	70	5	5	7	6	5	7
2097	Manufactured ice	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2098	Macaroni and spaghetti	90	85	79	74	2	3	3	6	7	9
2099	Food preparations, n.e.c.	69	71	59	61	4	4	5	6	6	8
21	Tobacco products	86	78	76	71	6	5	8	5	4	6
211	Cigarettes	87	78	78	73	7	6	9	5	4	7
2111	Cigarettes	87	78	78	73	7	6	9	5	4	7
212	Cigars	83	82	42	41	3	2	3	4	4	6
2121	Cigars	83	82	42	41	3	2	3	4	4	6
213	Chewing and smoking tobacco	89	88	72	70	1	1	2	4	4	5
2131	Chewing and smoking tobacco	89	88	72	70	1	1	2	4	4	5
214	Tobacco stemming and redrying	77	69	58	51	5	4	6	8	7	11
2141	Tobacco stemming and redrying	77	69	58	51	5	4	6	8	7	11
22	Textile mill products	84	85	77	76	1	1	2	2	2	3
221	Broadwoven fabric mills, cotton	92	89	91	87	2	3	3	2	3	3
2211	Broadwoven fabric mills, cotton	92	89	91	87	2	3	3	2	3	3
222	Broadwoven fabric mills, manmade fiber and silk	92	90	91	88	3	3	4	3	3	4
2221	Broadwoven fabric mills, manmade fiber and silk	92	90	91	88	3	3	4	3	3	4
223	Broadwoven fabric mills, wool	80	85	69	73	5	4	6	6	6	8
2231	Broadwoven fabric mills, wool	80	85	69	73	5	4	6	6	6	8

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1992	1991	1992	1991	Full production			National emergency production			
						Level		1991 to 1992 change	Level		1991 to 1992 change	
						1992	1991		1992	1991		
22	Textile mill products—Con.											
224	Narrow fabric mills	93	89	63	60	2	2	3	15	15	21	
2241	Narrow fabric mills	93	89	63	60	2	2	3	15	15	21	
225	Knitting mills	82	85	71	70	2	2	3	4	5	6	
2251	Women's hosiery, except socks	82	85	67	69	1	2	3	4	4	5	
2252	Hosiery, n.e.c.	84	94	77	84	7	2	7	6	3	7	
2253	Knit outerwear mills	88	90	67	64	5	3	5	11	13	17	
2254	Knit underwear mills	95	90	77	67	2	1	2	2	11	11	
2257	Weft knit fabric mills	74	76	72	71	4	5	6	5	5	7	
2258	Lace and warp knit fabric mills	75	81	71	76	6	4	7	5	3	6	
2259	Knitting mills, n.e.c.	79	78	56	56	8	9	12	6	6	8	
226	Textile finishing, except wool	74	76	70	72	6	5	7	5	4	7	
2261	Finishing plants, cotton	66	68	65	67	12	10	16	12	10	15	
2262	Finishing plants, manmade	79	82	74	77	3	3	4	4	4	5	
2269	Finishing plants, n.e.c.	78	78	69	70	6	6	8	7	8	10	
227	Carpets and rugs	82	79	71	69	5	4	6	5	4	6	
2273	Carpets and rugs	82	79	71	69	5	4	6	5	4	6	
228	Yarn and thread mills	86	87	85	85	2	2	3	2	2	3	
2281	Yarn spinning mills	87	87	85	85	3	3	4	3	3	4	
2282	Throwing and winding mills	87	86	85	85	4	4	5	4	4	5	
2284	Thread mills	82	87	81	86	3	3	4	3	3	4	
229	Miscellaneous textile goods	84	84	77	76	2	2	3	3	2	3	
2295	Coated fabrics, not rubberized	76	81	62	65	5	5	7	5	5	7	
2296	Tire cord and fabrics	93	91	87	80	3	2	3	3	3	4	
2297	Nonwoven fabrics	87	86	81	80	2	3	3	3	4	5	
2298	Cordage and twine	80	75	77	72	5	4	6	6	5	8	
2299	Textile goods, n.e.c.	82	83	79	80	5	4	7	6	5	8	
23	Apparel and other textile products	85	86	59	58	2	1	2	3	3	3	
231	Men's and boys' suits and coats	85	88	47	51	4	2	4	7	8	11	
2311	Men's and boys' suits and coats	85	88	47	51	4	2	4	7	8	11	
232	Men's and boys' furnishings	90	88	57	54	2	2	3	5	6	7	
2321	Men's and boys' shirts	92	92	43	40	3	2	3	10	10	14	
2322	Men's and boys' underwear and nightwear	96	93	50	38	1	2	2	8	6	10	
2323	Men's and boys' neckwear	86	87	54	53	4	3	5	7	7	9	
2325	Men's and boys' trousers and slacks	90	86	67	63	3	4	5	5	5	7	
2326	Men's and boys' work clothing	94	91	69	69	2	2	3	7	7	10	
2329	Men's and boys' clothing, n.e.c.	86	85	68	71	4	6	6	6	6	8	
233	Women's and misses' outerwear	85	90	64	64	5	3	5	6	6	8	
2331	Women's, misses', and juniors' blouses and shirts	77	89	52	47	12	5	13	12	11	16	
2335	Women's, misses', and juniors' dresses	82	87	67	73	9	8	12	17	15	22	
2337	Women's, misses', and juniors' suits and coats	92	93	60	62	3	3	4	6	8	10	
2339	Women's, misses', and juniors' outerwear, n.e.c.	92	90	73	74	2	2	3	6	6	8	
234	Women's and children's undergarments	90	91	70	72	2	2	3	5	5	7	
2341	Women's and children's underwear	90	92	63	65	1	1	2	6	6	8	
2342	Brassieres, girdles, and allied garments	88	89	85	87	6	5	7	7	6	9	
235	Hats, caps, and millinery	85	84	55	53	3	3	4	8	8	11	
2353	Hats, caps, and millinery	85	84	55	53	3	3	4	8	8	11	
236	Girls' and children's outerwear	83	82	57	50	4	5	6	7	6	9	
2361	Girls' and children's dresses and blouses	89	94	57	56	3	2	4	11	11	16	
2369	Girls' and children's outerwear, n.e.c.	77	73	56	44	6	7	9	8	7	10	
237	Fur goods	95	94	91	89	5	6	7	7	8	11	
2371	Fur goods	95	94	91	89	5	6	7	7	8	11	
238	Miscellaneous apparel and accessories	80	81	57	55	4	4	6	5	4	6	
2381	Fabric dress and work gloves	86	86	75	82	4	4	5	7	4	8	
2384	Robes and dressing gowns	90	96	44	37	5	4	6	7	4	8	
2385	Waterproof outerwear	93	92	83	88	2	2	3	1	2	2	
2386	Leather and sheep-lined clothing	89	81	37	32	3	5	5	7	4	8	
2387	Apparel belts	68	72	55	57	9	8	12	10	8	12	
2389	Apparel and accessories, n.e.c.	82	79	66	63	6	6	8	9	9	13	
239	Miscellaneous fabricated textile products	78	78	56	56	2	2	3	2	3	3	
2391	Curtains and draperies	81	80	56	56	5	7	8	6	6	8	
2392	Housefurnishings, n.e.c.	80	82	66	66	4	4	6	6	6	8	
2393	Textile bags	73	76	44	45	7	7	10	10	12	15	
2394	Canvas and related products	80	78	52	54	7	6	9	8	8	11	
2395	Pleating and stitching	75	76	52	50	4	4	5	7	8	10	
2396	Automotive and apparel trimmings	81	81	64	62	3	3	4	5	5	7	
2397	Schiffli machine embroideries	81	82	70	72	3	3	5	4	4	5	
2399	Fabricated textile products, n.e.c.	72	69	42	43	4	5	6	4	4	5	
24	Lumber and wood products	80	78	52	52	2	2	3	3	3	4	
241	Logging	91	91	66	70	4	4	6	7	7	9	
2411	Logging	91	91	66	70	4	4	6	7	7	9	
242	Sawmills and planing mills	85	83	53	55	4	4	5	6	6	8	
2421	Sawmills and planing mills, general	87	84	55	57	4	5	6	7	7	10	
2426	Hardwood dimension and flooring mills	78	77	46	44	3	4	5	6	6	8	
2429	Special product sawmills, n.e.c.	59	57	56	49	4	3	5	3	2	3	
243	Millwork, plywood, and structural members	75	73	47	46	3	3	4	5	5	7	
2431	Millwork	68	68	35	35	5	5	7	6	7	9	
2434	Wood kitchen cabinets	81	75	51	48	4	4	6	8	8	11	
2435	Hardwood veneer and plywood	85	86	78	80	2	2	3	2	3	3	
2436	Softwood veneer and plywood	87	89	84	85	4	3	5	4	3	5	
2439	Structural wood members, n.e.c.	65	66	53	51	7	6	9	5	5	7	

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1992	1991	1992	1991	Full production			National emergency production			
						Level		1991 to 1992 change	Level		1991 to 1992 change	
						1992	1991		1992	1991		
24	Lumber and wood products—Con.											
244	Wood containers	83	85	53	54	3	2	3	4	4	5	5
2441	Nailed wood boxes and shooks	73	79	40	39	8	4	9	7	6	9	6
2448	Wood pallets and skids	87	86	72	72	2	3	3	4	4	6	7
2449	Wood containers, n.e.c.	80	85	30	32	5	6	8	5	5	7	7
245	Wood buildings and mobile homes	76	69	43	39	4	4	6	5	5	6	6
2451	Mobile homes	82	71	40	36	4	5	6	6	6	8	8
2452	Prefabricated wood buildings	68	66	49	47	8	7	10	6	6	8	8
249	Miscellaneous wood products	74	74	59	59	5	5	7	5	5	7	7
2491	Wood preserving	70	72	58	58	4	3	5	4	4	6	6
2493	Reconstituted wood products	87	82	79	75	5	5	7	9	9	12	12
2499	Wood products, n.e.c.	68	71	51	52	9	8	11	7	8	10	10
25	Furniture and fixtures	77	76	52	51	2	2	2	2	2	3	3
251	Household furniture	83	79	54	51	2	3	3	4	3	5	5
2511	Wood household furniture	85	79	55	49	3	5	5	7	6	9	9
2512	Upholstered household furniture	88	84	60	59	4	4	5	6	6	8	8
2514	Metal household furniture	72	71	48	49	6	5	8	5	4	6	6
2515	Mattresses and bedspreads	84	80	44	43	3	4	5	5	5	6	6
2517	Wood television and radio cabinets	64	73	46	46	6	8	9	4	5	7	7
2519	Household furniture, n.e.c.	86	87	79	80	4	4	5	3	3	4	4
252	Office furniture	71	70	50	48	4	3	5	4	4	5	5
2521	Wood office furniture	76	78	56	55	3	3	4	5	5	7	7
2522	Office furniture, except wood	70	68	48	46	5	4	6	5	4	6	6
253	Public building and related furniture	76	78	65	65	4	4	5	5	5	7	7
2531	Public building and related furniture	76	78	65	65	4	4	5	5	5	7	7
254	Partitions and fixtures	69	69	50	51	4	4	6	4	5	6	6
2541	Wood partitions and fixtures	70	70	48	48	7	7	9	7	7	10	10
2542	Partitions and fixtures, except wood	68	69	51	53	5	5	7	4	5	6	6
259	Miscellaneous furniture and fixtures	78	82	50	56	4	3	5	6	6	9	9
2591	Draper hardware and blinds and shades	79	75	67	65	4	5	6	3	4	5	5
2599	Furniture and fixtures, n.e.c.	78	87	43	51	6	3	6	8	8	11	11
26	Paper and allied products	84	86	75	77	2	2	3	2	2	3	3
261	Pulp mills	91	94	91	94	3	2	3	3	2	3	3
2611	Pulp mills	91	94	91	94	3	2	3	3	2	3	3
262	Paper mills	93	95	92	94	2	2	3	2	2	3	3
2621	Paper mills	93	95	92	94	2	2	3	2	2	3	3
263	Paperboard mills	96	95	95	95	2	2	3	2	2	3	3
2631	Paperboard mills	96	95	95	95	2	2	3	2	2	3	3
265	Paperboard containers and boxes	84	85	63	63	2	2	3	3	3	5	5
2652	Setup paperboard boxes	86	73	53	42	6	6	8	9	6	10	10
2653	Corrugated and solid fiber boxes	88	87	65	65	3	3	4	6	6	8	8
2655	Fiber cans, drums, and similar products	85	84	42	42	4	3	4	5	5	6	6
2656	Sanitary food containers	75	86	66	68	2	2	3	3	3	4	4
2657	Folding paperboard boxes	81	86	67	70	4	3	5	5	5	7	7
267	Miscellaneous converted paper products	75	78	68	70	5	3	6	4	3	5	5
2671	Paper coated and laminated, packaging	78	80	75	76	3	3	4	3	3	4	4
2672	Paper coated and laminated, n.e.c.	79	80	73	73	4	4	5	4	5	7	7
2673	Bags plastics, laminated, and coated	78	78	66	68	5	6	7	6	6	8	8
2674	Bags uncoated paper and multiwall	77	79	71	74	4	4	5	4	4	6	6
2675	Die-cut paper and board	63	57	47	44	8	9	12	6	7	9	9
2676	Sanitary paper products	71	78	67	73	10	7	12	8	6	10	10
2677	Envelopes	89	88	78	76	3	3	4	3	3	4	4
2678	Stationery products	79	82	64	61	3	2	4	6	6	8	8
2679	Converted paper products, n.e.c.	82	84	72	73	3	2	4	4	3	5	5
27	Printing and publishing	82	82	59	59	2	2	3	4	4	6	6
271	Newspapers	84	84	59	59	3	3	4	13	12	17	17
2711	Newspapers	84	84	59	59	3	3	4	13	12	17	17
272	Periodicals	84	84	43	41	8	8	11	9	8	11	11
2721	Periodicals	84	84	43	41	8	8	11	9	8	11	11
273	Books	89	90	73	77	3	3	4	8	8	11	11
2731	Book publishing	91	92	75	79	4	3	5	10	10	14	14
2732	Book printing	80	80	67	67	5	5	7	7	7	9	9
274	Miscellaneous publishing	64	66	49	52	8	8	11	8	8	11	11
2741	Miscellaneous publishing	64	66	49	52	8	8	11	8	8	11	11
275	Commercial printing	84	83	67	67	3	3	4	4	4	6	6
2752	Commercial printing, lithographic	84	84	67	68	3	3	5	5	5	7	7
2754	Commercial printing, gravure	93	90	89	87	2	2	3	2	2	3	3
2759	Commercial printing, n.e.c.	82	81	61	59	3	4	5	7	7	10	10
276	Manifold business forms	79	78	70	70	3	3	4	2	3	4	4
2761	Manifold business forms	79	78	70	70	3	3	4	2	3	4	4
277	Greeting cards	79	83	59	61	3	3	4	4	4	5	5
2771	Greeting cards	79	83	59	61	3	3	4	4	4	5	5
278	Blankbooks and bookbinding	74	77	42	43	6	5	8	5	5	7	7
2782	Blankbooks and looseleaf binders	70	75	41	43	8	7	10	7	5	8	8
2789	Bookbinding and related work	87	82	46	41	4	4	5	9	9	13	13
279	Printing trade services	81	85	65	67	2	2	3	4	4	5	5
2791	Typesetting	81	85	70	70	4	4	5	6	7	9	9
2796	Platemaking services	82	85	62	64	3	3	4	5	5	7	7

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1992	1991	1992	1991	Full production			National emergency production		
						Level		1991 to 1992 change	Level		1991 to 1992 change
						1992	1991		1992	1991	
28	Chemicals and allied products	78	79	66	65	2	2	2	3	4	5
281	Industrial inorganic chemicals	80	77	77	73	4	5	6	4	6	7
2812	Alkalies and chlorine	96	94	96	94	1	1	2	1	1	2
2813	Industrial gases	73	73	66	66	5	6	8	6	6	8
2816	Inorganic pigments	91	87	70	87	2	3	4	2	3	4
2819	Industrial inorganic chemicals, n.e.c.	79	74	75	70	5	7	9	6	8	10
282	Plastics materials and synthetics	86	87	85	86	2	2	2	2	2	3
2821	Plastics materials and resins	88	88	86	86	3	3	4	3	3	4
2822	Synthetic rubber	82	79	79	77	3	4	4	4	4	5
2823	Cellulosic manmade fibers	80	85	79	85	5	3	6	5	3	6
2824	Organic fibers, noncellulosic	86	89	86	89	2	2	3	2	2	3
283	Drugs	76	78	59	57	4	4	5	8	10	13
2833	Medicinals and botanicals	86	84	84	81	3	3	4	3	2	3
2834	Pharmaceutical preparations	74	76	59	58	4	4	6	10	12	16
2835	Diagnostic substances	90	85	41	41	4	6	7	13	12	17
2836	Biological products, except diagnostic	95	88	91	83	1	4	5	3	5	5
284	Soaps, cleaners, and toilet goods	72	72	56	56	2	2	3	3	3	5
2841	Soap and other detergents	74	73	55	54	4	4	6	8	8	11
2842	Polishes and sanitation goods	68	69	50	49	4	4	5	4	4	6
2843	Surface active agents	85	79	83	78	3	3	4	2	3	4
2844	Toilet preparations	70	72	58	60	3	3	4	4	3	5
285	Paints and allied products	75	77	52	51	4	5	6	7	7	10
2851	Paints and allied products	75	77	52	51	4	5	6	7	7	10
286	Industrial organic chemicals	82	86	80	85	3	2	3	3	2	3
2861	Gum and wood chemicals	84	83	83	82	2	2	2	2	2	2
2865	Cyclic crudes and intermediates	89	85	88	83	1	2	2	1	2	2
2869	Industrial organic chemicals, n.e.c.	81	86	79	85	3	2	4	3	3	4
287	Agricultural chemicals	82	72	69	62	4	7	8	4	6	7
2873	Nitrogenous fertilizers	92	91	66	59	4	3	5	16	16	22
2874	Phosphatic fertilizers	94	89	94	89	1	2	2	1	2	2
2875	Fertilizers, mixing only	56	54	45	43	7	8	11	7	8	10
2879	Agricultural chemicals, n.e.c.	80	67	68	60	7	10	11	5	7	9
289	Miscellaneous chemical products	79	79	59	59	2	2	3	4	4	5
2891	Adhesives and sealants	75	76	51	52	4	4	5	8	8	11
2892	Explosives	72	72	63	64	5	4	6	5	4	7
2893	Printing ink	79	77	58	56	3	3	4	6	6	9
2895	Carbon black	88	85	80	78	3	3	4	3	3	4
2899	Chemical preparations, n.e.c.	83	83	62	62	3	3	4	5	5	7
29	Petroleum and coal products	87	84	77	75	2	2	3	3	3	4
291	Petroleum refining	93	91	93	90	2	3	3	2	3	3
2911	Petroleum refining	93	91	93	90	2	3	3	2	3	3
295	Asphalt paving and roofing materials	61	58	37	37	5	6	7	5	6	8
2951	Asphalt paving mixtures and blocks	50	50	25	27	6	7	9	5	6	7
2952	Asphalt felts and coatings	79	71	70	62	5	5	7	7	6	9
299	Miscellaneous petroleum and coal products	73	70	53	49	4	5	6	5	5	7
2992	Lubricating oils and greases	69	66	47	44	5	5	7	5	5	7
2999	Petroleum and coal products, n.e.c.	90	88	89	88	2	3	4	3	3	4
30	Rubber and miscellaneous plastics products	78	76	68	68	2	2	3	3	2	3
301	Tires and inner tubes	94	89	92	87	2	2	3	2	2	3
3011	Tires and inner tubes	94	89	92	87	2	2	3	2	2	3
302	Rubber and plastics footwear	79	83	69	66	3	2	4	2	4	4
3021	Rubber and plastics footwear	79	83	69	66	3	2	4	2	4	4
305	Hose and belting and gaskets and packing	80	80	66	66	2	2	3	3	3	5
3052	Rubber and plastics hose and belting	77	77	66	65	3	3	5	4	4	6
3053	Gaskets, packing, and sealing devices	82	83	65	66	2	2	3	5	5	7
306	Fabricated rubber products, n.e.c.	80	81	70	69	4	3	4	4	4	5
3061	Mechanical rubber goods	74	73	68	65	5	5	7	4	4	6
3069	Fabricated rubber products, n.e.c.	85	86	71	72	5	2	5	6	6	8
308	Miscellaneous plastics products, n.e.c.	76	73	65	66	3	3	4	3	3	4
3081	Unsupported plastics film and sheet	80	83	66	76	3	3	4	8	7	10
3082	Unsupported plastics profile shapes	79	82	66	66	3	3	4	4	4	5
3083	Laminated plastics plate, sheet, and profile shapes	82	77	65	65	3	3	4	8	8	11
3084	Plastics pipe	79	78	74	72	4	4	6	4	4	6
3085	Plastics bottles	85	83	82	81	3	3	4	3	3	4
3086	Plastics foam products	80	78	65	64	3	3	4	5	5	7
3087	Custom compounding of purchased plastics resins	72	74	63	64	3	3	4	3	3	4
3088	Plastics plumbing fixtures	66	70	55	58	3	4	5	3	3	4
3089	Plastics products, n.e.c.	73	68	64	63	5	4	6	5	4	6
31	Leather and leather products	81	80	57	59	2	1	2	3	3	4
311	Leather tanning and finishing	73	75	68	70	5	1	5	5	1	5
3111	Leather tanning and finishing	73	75	68	70	5	1	5	5	1	5
313	Footwear cut stock	88	89	77	84	4	4	6	5	5	7
3131	Footwear cut stock	88	89	77	84	4	4	6	5	5	7
314	Footwear, except rubber	81	80	55	55	2	2	3	4	4	6
3142	House slippers	72	71	48	50	5	5	7	4	4	5
3143	Men's footwear, except athletic	85	84	49	51	2	2	2	6	6	8
3144	Women's footwear, except athletic	87	78	73	62	2	4	4	9	8	12
3149	Footwear, except rubber, n.e.c.	(S)	77	(S)	71	(X)	1	(X)	(X)	1	(X)
315	Leather gloves and mittens	68	68	46	45	10	9	13	12	12	16
3151	Leather gloves and mittens	68	68	46	45	10	9	13	12	12	16

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1992	1991	1992	1991	Full production			National emergency production			
						Level		1991 to 1992 change	Level		1991 to 1992 change	
						1992	1991		1992	1991		
31	Leather and leather products—Con.											
316	Luggage	80	77	51	60	2	5	5	10	9	13	
3161	Luggage	80	77	51	60	2	5	5	10	9	13	
317	Handbags and personal leather goods	89	89	56	54	2	2	2	4	4	5	
3171	Women's handbags and purses	96	96	53	50	2	1	2	5	5	7	
3172	Personal leather goods, n.e.c.	79	78	63	63	2	3	3	3	1	3	
319	Leather goods, n.e.c.	85	83	66	63	5	5	6	8	8	11	
3199	Leather goods, n.e.c.	85	83	66	63	5	5	6	8	8	11	
32	Stone, clay, and glass products	77	76	68	67	2	2	3	2	3	3	
321	Flat glass	94	93	91	91	1	1	2	1	1	2	
3211	Flat glass	94	93	91	91	1	1	2	1	1	2	
322	Glass and glassware, pressed or blown	90	84	86	80	2	3	3	3	3	4	
3221	Glass containers	94	85	90	82	2	3	4	3	4	5	
3229	Pressed and blown glass, n.e.c.	86	83	82	78	3	4	5	4	5	6	
323	Products of purchased glass	77	75	73	71	3	4	5	4	4	5	
3231	Products of purchased glass	77	75	73	71	3	4	5	4	4	5	
324	Cement, hydraulic	83	80	83	80	4	6	7	4	6	7	
3241	Cement, hydraulic	83	80	83	80	4	6	7	4	6	7	
325	Structural clay products	78	76	73	70	2	2	3	2	3	3	
3251	Brick and structural clay tile	79	70	75	67	4	4	6	4	4	6	
3253	Ceramic wall and floor tile	87	89	85	86	2	2	3	2	2	3	
3255	Clay refractories	70	74	61	61	3	2	3	4	4	5	
3259	Structural clay products, n.e.c.	77	81	68	72	5	4	7	8	7	10	
326	Pottery and related products	79	76	73	69	2	3	3	3	3	4	
3261	Vitreous plumbing fixtures	82	80	82	80	5	6	8	5	6	8	
3262	Vitreous china table and kitchenware	83	80	77	74	3	2	3	3	1	3	
3263	Semivitreous table and kitchenware	83	82	83	82	7	7	10	7	7	10	
3264	Porcelain electrical supplies	77	68	72	62	2	4	4	3	4	5	
3269	Pottery products, n.e.c.	76	81	62	65	4	4	6	6	6	8	
327	Concrete, gypsum, and plaster products	67	68	57	57	4	5	6	4	5	6	
3271	Concrete block and brick	78	82	65	67	4	4	6	7	8	11	
3272	Concrete products, n.e.c.	65	61	52	47	8	9	12	7	8	11	
3273	Ready-mixed concrete	64	67	55	59	6	8	9	5	7	8	
3274	Lime	83	86	81	84	2	3	4	3	4	5	
3275	Gypsum products	83	82	76	75	3	3	5	5	6	8	
328	Cut stone and stone products	76	79	54	58	3	2	4	6	7	9	
3281	Cut stone and stone products	76	79	54	58	3	2	4	6	7	9	
329	Miscellaneous nonmetallic mineral products	83	81	71	70	2	2	2	3	3	4	
3291	Abrasive products	83	82	71	71	3	3	4	5	6	7	
3292	Asbestos products	84	76	84	76	7	8	10	6	8	10	
3295	Minerals, ground or treated	80	76	71	67	5	6	7	5	6	8	
3296	Mineral wool	91	87	87	83	2	3	3	3	3	4	
3297	Nonclay refractories	75	76	61	62	2	2	3	6	6	9	
3299	Nonmetallic mineral products, n.e.c.	74	73	44	45	3	3	5	11	11	15	
33	Primary metal industries	80	80	72	72	2	1	2	2	2	3	
331	Blast furnace and basic steel products	83	84	79	81	3	3	4	3	2	4	
3312	Blast furnaces and steel mills	84	85	82	84	5	3	5	4	3	5	
3313	Electrometallurgical products	82	80	81	80	5	6	8	5	6	8	
3315	Steel wire and related products	83	84	76	77	3	3	4	4	4	5	
3316	Cold finishing of steel shapes	81	81	75	74	2	2	3	4	3	5	
3317	Steel pipe and tubes	80	79	63	64	3	3	4	4	4	6	
332	Iron and steel foundries	72	70	63	61	3	3	4	3	3	4	
3321	Gray and ductile iron foundries	72	70	63	61	4	5	6	3	4	5	
3322	Malleable iron foundries	76	73	67	65	3	3	4	2	3	3	
3324	Steel investment foundries	72	73	68	70	3	3	4	4	4	6	
3325	Steel foundries, n.e.c.	69	69	57	54	4	5	6	5	6	8	
333	Primary nonferrous metals	93	93	90	91	2	2	2	2	2	3	
3331	Primary copper	96	96	95	95	2	1	2	2	1	2	
3334	Primary aluminum	99	99	99	99	1	1	1	1	1	1	
3339	Primary nonferrous metals, n.e.c.	81	82	75	77	4	4	6	5	6	7	
334	Secondary nonferrous metals	85	83	82	81	3	4	5	3	4	5	
3341	Secondary nonferrous metals	85	83	82	81	3	4	5	3	4	5	
335	Nonferrous rolling and drawing	81	80	73	72	2	2	3	3	4	5	
3351	Copper rolling and drawing	84	86	75	76	3	3	4	5	5	8	
3353	Aluminum sheet, plate, and foil	88	80	82	77	2	3	4	2	3	4	
3354	Aluminum extruded products	76	71	73	68	4	4	5	4	4	5	
3355	Aluminum rolling and drawing, n.e.c.	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)	
3356	Nonferrous rolling and drawing, n.e.c.	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)	
3357	Nonferrous wire drawing and insulating	80	81	70	69	4	3	5	6	8	10	
336	Nonferrous foundries (castings)	72	73	53	55	2	3	4	7	8	11	
3363	Aluminum die-castings	77	75	72	71	3	3	4	3	4	5	
3364	Nonferrous die-castings, except aluminum	74	71	58	59	4	4	6	4	4	5	
3365	Aluminum foundries	71	70	42	39	6	6	8	14	15	20	
3366	Copper foundries	80	74	61	60	9	14	16	13	12	17	
3369	Nonferrous foundries, n.e.c.	(S)	81	(S)	54	(X)	2	(X)	(X)	13	(X)	
339	Miscellaneous primary metal products	66	68	56	60	5	5	7	5	5	7	
3398	Metal heat treating	64	66	57	60	7	6	9	5	5	7	
3399	Primary metal products, n.e.c.	69	71	56	59	8	7	10	10	9	13	

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1992	1991	1992	1991	Full production			National emergency production		
						Level		1991 to 1992 change	Level		1991 to 1992 change
						1992	1991		1992	1991	
34	Fabricated metal products	74	74	58	57	1	1	2	2	2	2
341	Metal cans and shipping containers	82	79	78	74	3	4	5	4	3	5
3411	Metal cans	82	81	82	81	4	4	5	4	4	5
3412	Metal barrels, drums, and pails	84	66	54	43	7	8	10	9	5	10
342	Cutlery, handtools, and hardware	82	80	60	60	2	2	2	5	5	6
3421	Cutlery	93	95	66	71	2	2	3	15	14	21
3423	Hand and edge tools, n.e.c.	77	77	51	51	3	3	4	7	8	11
3425	Saw blades and handsaws	82	84	76	77	2	3	3	3	3	4
3429	Hardware, n.e.c.	82	78	65	61	2	2	3	6	6	8
343	Plumbing and heating, except electric	68	70	55	55	4	3	5	3	3	4
3431	Metal sanitary ware	79	82	67	73	5	5	7	7	6	9
3432	Plumbing fixture fittings and trim	74	73	64	64	5	4	6	5	5	7
3433	Heating equipment, except electric	59	63	44	43	6	5	8	4	4	5
344	Fabricated structural metal products	71	71	52	52	2	2	3	3	3	3
3441	Fabricated structural metal	72	77	55	57	4	5	6	5	5	7
3442	Metal doors, sash, and trim	77	74	50	48	4	5	6	6	6	8
3443	Fabricated plate work (boiler shops)	73	78	65	70	4	3	5	4	3	5
3444	Sheet metal work	63	58	41	41	4	5	6	4	5	6
3446	Architectural metal work	76	76	55	56	5	5	7	5	5	7
3448	Prefabricated metal buildings	80	78	65	63	3	4	5	5	5	7
3449	Miscellaneous metal work	69	72	51	52	4	4	6	5	5	7
345	Screw machine products, bolts, etc.	77	80	56	59	2	2	3	4	4	5
3451	Screw machine products	77	77	50	50	3	3	4	6	6	8
3452	Bolts, nuts, rivets, and washers	77	81	60	66	3	2	3	5	4	6
346	Metal forgings and stampings	76	75	62	61	3	3	4	5	5	6
3462	Iron and steel forgings	60	59	49	48	6	5	8	6	5	8
3463	Nonferrous forgings	73	77	67	67	3	2	3	3	3	4
3465	Automotive stampings	87	84	70	68	2	2	2	8	8	11
3466	Crowns and closures	83	84	76	74	3	3	4	3	4	5
3469	Metal stampings, n.e.c.	71	72	59	57	6	5	7	8	8	11
347	Metal services, n.e.c.	72	73	59	59	4	4	5	4	4	6
3471	Plating and polishing	73	73	57	57	5	6	8	6	6	8
3479	Metal coating and allied services	72	71	63	62	4	4	6	6	6	8
348	Ordnance and accessories, n.e.c.	65	68	47	46	2	2	3	3	4	5
3482	Small arms ammunition	56	64	34	39	4	5	6	4	5	6
3483	Ammunition, except for small arms, n.e.c.	69	75	54	49	4	3	5	7	7	10
3484	Small arms	88	84	53	51	4	2	4	6	7	9
3489	Ordnance and accessories, n.e.c.	56	56	43	44	4	4	5	4	4	6
349	Miscellaneous fabricated metal products	76	75	61	58	2	2	3	2	4	4
3491	Industrial valves	72	76	55	58	3	4	5	5	6	8
3492	Fluid power valves and hose fittings	81	81	71	71	3	3	4	5	6	8
3493	Steel springs, except wire	64	56	54	52	9	10	13	9	8	12
3494	Valves and pipe fittings, n.e.c.	68	72	53	56	4	5	6	5	6	8
3495	Wire springs	81	76	67	61	2	3	4	4	4	6
3496	Miscellaneous fabricated wire products	77	77	67	67	3	3	4	4	4	6
3497	Metal foil and leaf	85	84	78	77	3	3	4	3	2	3
3498	Fabricated pipe and fittings	68	73	58	63	4	4	6	4	4	5
3499	Fabricated metal products, n.e.c.	80	74	60	48	4	6	7	5	10	11
35	Industrial machinery and equipment	74	74	58	57	1	1	2	2	2	2
351	Engines and turbines	83	76	74	67	2	3	4	3	3	4
3511	Turbines and turbine generator sets	90	91	81	82	1	1	1	1	1	1
3519	Internal combustion engines, n.e.c.	79	70	70	61	3	4	5	4	4	5
352	Farm and garden machinery	60	64	51	55	7	7	9	5	5	7
3523	Farm machinery and equipment	58	64	52	59	8	9	12	6	7	9
3524	Lawn and garden equipment	68	63	50	47	6	7	9	7	7	9
353	Construction and related machinery	68	64	52	49	2	2	3	3	3	4
3531	Construction machinery	68	58	48	42	3	3	4	5	4	6
3532	Mining machinery	60	64	47	53	4	4	6	6	7	9
3533	Oil and gas field machinery	72	77	65	71	3	4	5	4	5	6
3534	Elevators and moving stairways	68	69	41	41	6	6	8	4	4	6
3535	Conveyors and conveying equipment	68	65	54	54	7	11	13	5	8	9
3536	Hoists, cranes, and monorails	69	70	60	60	6	5	8	5	5	7
3537	Industrial trucks and tractors	72	72	49	53	4	4	6	6	6	8
354	Metalworking machinery	78	78	62	62	2	2	3	2	2	3
3541	Machine tools, metal cutting types	70	65	58	53	6	6	8	7	7	10
3542	Machine tools, metal forming types	74	63	59	50	5	5	7	6	5	8
3543	Industrial patterns	55	74	49	58	16	7	17	12	6	13
3544	Special dies, tools, jigs, and fixtures	81	83	67	69	4	3	5	4	4	5
3545	Machine tool accessories	76	76	55	54	3	2	3	5	4	6
3546	Power-driven handtools	83	75	67	61	2	3	3	3	3	4
3547	Rolling mill machinery	80	78	66	63	2	3	4	8	9	12
3548	Welding apparatus	84	88	77	79	1	2	2	2	3	3
3549	Metalworking machinery, n.e.c.	75	87	46	56	5	3	5	9	11	14
355	Special industry machinery	80	79	54	55	2	2	3	4	4	5
3552	Textile machinery	72	68	56	51	4	3	5	6	5	7
3553	Woodworking machinery	69	61	47	43	3	3	4	7	6	9
3554	Paper industries machinery	81	84	68	75	5	4	6	6	5	8
3555	Printing trades machinery	73	77	50	60	5	7	8	6	8	9
3556	Food products machinery	79	85	51	53	4	3	5	6	6	8
3559	Special industry machinery, n.e.c.	84	82	55	54	3	3	4	6	6	8

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1992	1991	1992	1991	Full production		National emergency production			
						Level		1991 to 1992 change	Level		1991 to 1992 change
						1992	1991		1992	1991	
35	Industrial machinery and equipment—Con.										
356	General industrial machinery	72	73	56	56	2	2	3	2	2	3
3561	Pumps and pumping equipment	65	65	46	45	6	6	8	5	5	7
3562	Ball and roller bearings	82	81	74	73	2	3	3	3	3	4
3563	Air and gas compressors	66	69	50	54	5	4	6	5	4	6
3564	Blowers and fans	66	68	53	53	5	4	6	6	6	8
3565	Packaging machinery	85	85	67	70	3	3	4	4	4	5
3566	Speed changers, drives, and gears	78	74	72	69	3	2	3	3	2	4
3567	Industrial furnaces and ovens	74	77	62	63	4	4	5	5	5	6
3568	Power transmission equipment, n.e.c.	67	69	49	53	7	6	9	8	6	9
3569	General industrial machinery, n.e.c.	72	74	53	53	4	4	5	6	6	9
357	Computer and office equipment	77	80	60	57	3	2	4	5	4	6
3571	Electronic computers	75	82	61	57	5	3	6	7	6	9
3572	Computer storage devices	88	86	77	72	5	4	6	8	6	10
3575	Computer terminals	75	80	39	43	5	3	5	6	6	8
3577	Computer peripheral equipment, n.e.c.	76	69	60	56	4	4	5	8	8	12
3578	Calculating and accounting equipment	73	70	49	50	4	4	6	5	5	7
3579	Office machines, n.e.c.	83	79	46	50	4	3	5	10	10	14
358	Refrigeration and service machinery	76	76	62	60	3	4	5	4	4	5
3581	Automatic vending machines	76	69	63	61	6	4	7	3	3	4
3582	Commercial laundry equipment	69	68	58	58	3	2	3	1	1	1
3585	Refrigeration and heating equipment	76	77	65	63	5	5	7	5	5	6
3586	Measuring and dispensing pumps	67	56	47	42	4	4	6	5	4	6
3589	Service industry machinery, n.e.c.	79	77	59	56	3	4	5	7	7	9
359	Industrial machinery, n.e.c.	72	72	56	56	2	3	3	4	4	5
3592	Carburetors, pistons, rings, and valves	81	75	68	65	2	3	4	8	7	10
3593	Fluid power cylinders and actuators	59	61	46	47	8	9	12	5	6	8
3594	Fluid power pumps and motors	50	49	39	36	5	5	7	4	3	5
3596	Scales and balances, except laboratory	85	81	54	55	5	6	7	3	3	4
3599	Industrial machinery, n.e.c.	75	76	58	60	3	3	4	5	5	7
36	Electronic and other electric equipment	76	76	60	61	1	2	2	2	2	3
361	Electric distribution equipment	75	72	58	53	3	3	4	5	5	7
3612	Transformers, except electronic	73	71	61	58	4	4	6	4	4	5
3613	Switchgear and switchboard apparatus	76	73	56	51	4	3	4	6	7	10
362	Electrical industrial apparatus	77	77	61	63	3	3	4	5	5	7
3621	Motors and generators	81	81	75	76	3	3	4	4	4	5
3624	Carbon and graphite products	82	80	77	76	7	5	9	7	5	9
3625	Relays and industrial controls	76	75	52	53	6	5	8	8	8	11
3629	Electrical industrial apparatus, n.e.c.	69	70	55	55	5	4	6	7	7	10
363	Household appliances	79	75	67	64	3	2	3	3	3	4
3631	Household cooking equipment	62	63	54	55	8	7	11	8	6	9
3632	Household refrigerators and freezers	78	77	60	59	3	4	5	6	6	8
3633	Household laundry equipment	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
3634	Electric housewares and fans	86	81	65	63	3	3	3	5	5	7
3635	Household vacuum cleaners	79	68	75	66	5	5	7	4	4	6
3639	Household appliances, n.e.c.	(D)	(D)	(D)	(D)	(X)	(X)	(X)	(X)	(X)	(X)
364	Electric lighting and wiring equipment	77	75	58	59	2	2	3	3	3	4
3641	Electric lamp bulbs and tubes	82	82	71	73	3	3	4	3	2	4
3643	Current-carrying wiring devices	76	75	54	54	3	3	4	8	8	11
3644	Noncurrent-carrying wiring devices	75	77	64	66	3	2	4	3	3	4
3645	Residential lighting fixtures	59	51	48	45	10	11	15	7	8	10
3646	Commercial lighting fixtures	74	76	46	49	3	3	4	7	7	9
3647	Vehicular lighting equipment	83	74	73	66	1	1	1	3	3	4
3648	Lighting equipment, n.e.c.	82	77	63	60	3	3	4	6	6	8
365	Household audio and video equipment	74	72	56	53	7	6	9	7	6	9
3651	Household audio and video equipment	68	67	47	45	9	8	12	7	6	9
3652	Prerecorded records and tapes	87	82	85	79	2	2	3	2	2	2
366	Communications equipment	75	74	58	56	3	4	5	6	6	8
3661	Telephone and telegraph apparatus	77	73	55	51	6	6	8	12	10	15
3663	Radio and television communications equipment	72	73	62	61	3	4	5	5	6	7
3669	Communications equipment, n.e.c.	86	83	56	55	3	3	4	5	6	8
367	Electronic components and accessories	75	79	60	68	2	3	3	4	4	5
3671	Electron tubes	80	77	61	57	4	5	6	7	8	10
3672	Printed circuit boards	86	79	72	63	4	3	5	10	10	14
3674	Semiconductors and related devices	73	82	58	78	3	3	4	6	4	8
3675	Electronic capacitors	75	78	60	61	5	3	6	8	7	10
3676	Electronic resistors	76	77	55	58	3	3	5	5	4	7
3677	Electronic coils and transformers	71	77	57	63	4	4	5	7	6	9
3678	Electronic connectors	75	78	64	70	4	4	6	8	5	9
3679	Electronic components, n.e.c.	74	73	59	56	6	7	9	8	8	11
369	Miscellaneous electrical equipment and supplies	81	80	59	56	2	2	3	4	4	6
3691	Storage batteries	86	83	71	69	3	3	4	2	2	3
3692	Primary batteries, dry and wet	88	83	69	59	2	3	4	5	5	6
3694	Engine electrical equipment	85	80	72	68	3	3	4	5	4	6
3695	Magnetic and optical recording media	87	87	83	83	3	3	4	3	3	4
3699	Electrical equipment and supplies, n.e.c.	72	74	41	39	4	3	5	6	6	8
37	Transportation equipment	72	72	57	56	2	2	3	3	2	3
371	Motor vehicles and equipment	73	68	55	50	4	4	5	4	3	5
3711	Motor vehicles and car bodies	71	64	50	44	6	5	8	5	4	6
3713	Truck and bus bodies	74	71	49	49	4	4	5	8	8	11
3714	Motor vehicle parts and accessories	76	79	68	67	4	3	5	4	4	5
3715	Truck trailers	63	55	58	52	5	5	7	4	5	6
3716	Motor homes	52	49	36	32	3	2	3	1	2	3

See footnotes at end of table.

Table 2b. Capacity Utilization Rates by Industry: Fourth Quarters 1992 and 1991—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1992	1991	1992	1991	Full production			National emergency production			
						Level		1991 to 1992 change	Level		1991 to 1992 change	
						1992	1991		1992	1991		
37	Transportation equipment—Con.											
372	Aircraft and parts	75	79	66	68	2	2	3	2	2	3	
3721	Aircraft	70	74	69	73	3	3	4	3	2	4	
3724	Aircraft engines and engine parts	73	78	58	59	2	4	4	3	3	4	
3728	Aircraft parts and equipment, n.e.c.	88	88	71	71	3	2	3	3	4	5	
373	Ship and boat building and repairing	71	83	51	72	6	2	6	9	2	9	
3731	Ship building and repairing	73	88	52	80	7	3	8	11	2	11	
3732	Boat building and repairing	63	69	49	52	4	3	5	4	5	6	
374	Railroad equipment	67	61	62	56	3	2	4	3	4	4	
3743	Railroad equipment	67	61	62	56	3	2	4	3	4	4	
375	Motorcycles, bicycles, and parts	93	86	80	86	3	5	6	6	5	8	
3751	Motorcycles, bicycles, and parts	93	86	80	86	3	5	6	6	5	8	
376	Guided missiles, space vehicles, parts	65	70	48	52	3	3	4	6	6	8	
3761	Guided missiles and space vehicles	72	75	49	52	5	4	6	8	8	11	
3764	Space propulsion units and parts	45	50	44	49	3	3	4	3	3	4	
3769	Space vehicle equipment, n.e.c.	53	65	46	55	4	3	5	3	3	4	
379	Miscellaneous transportation equipment	72	67	41	45	2	3	4	2	3	4	
3792	Travel trailers and campers	66	59	39	36	6	6	8	6	5	7	
3795	Tanks and tank components	68	61	34	51	3	3	4	1	3	4	
3799	Transportation equipment, n.e.c.	83	83	54	48	1	3	3	4	5	6	
38	Instruments and related products	73	76	54	55	2	2	3	2	3	3	
381	Search and navigation equipment	66	71	49	52	3	5	6	5	6	8	
3812	Search and navigation equipment	66	71	49	52	3	5	6	5	6	8	
382	Measuring and controlling devices	71	73	45	46	2	3	3	3	3	4	
3821	Laboratory apparatus and furniture	78	77	52	52	4	3	5	5	5	7	
3822	Environmental controls	84	83	52	53	3	2	4	5	5	6	
3823	Process control instruments	72	72	43	42	7	7	10	8	8	11	
3824	Fluid meters and counting devices	90	78	72	61	1	3	3	2	3	4	
3825	Instruments to measure electricity	70	73	38	38	5	6	8	4	4	5	
3826	Analytical instruments	69	75	58	64	4	5	6	5	5	7	
3827	Optical instruments and lenses	59	60	51	52	3	3	5	3	3	4	
3829	Measuring and controlling devices, n.e.c.	68	73	40	43	5	5	7	6	6	8	
384	Medical instruments and supplies	76	78	60	60	3	3	4	5	5	7	
3841	Surgical and medical instruments	69	72	51	52	5	5	7	9	9	12	
3842	Surgical appliances and supplies	86	85	70	65	3	4	5	4	7	8	
3843	Dental equipment and supplies	82	80	64	60	4	5	6	5	6	7	
3844	X-ray apparatus and tubes	76	81	70	77	2	2	2	2	1	2	
3845	Electromedical equipment	69	75	56	58	6	5	8	6	6	8	
385	Ophthalmic goods	81	82	72	68	4	4	5	6	6	8	
3851	Ophthalmic goods	81	82	72	68	4	4	5	6	6	8	
386	Photographic equipment and supplies	88	85	74	75	1	1	2	2	2	3	
3861	Photographic equipment and supplies	88	85	74	75	1	1	2	2	2	3	
387	Watches, clocks, watchcases, and parts	69	66	44	40	6	6	9	8	6	10	
3873	Watches, clocks, watchcases, and parts	69	66	44	40	6	6	9	8	6	10	
39	Miscellaneous manufacturing industries	71	68	52	53	3	5	6	3	3	4	
391	Jewelry, silverware, and plated ware	71	69	49	49	6	5	8	4	4	6	
3911	Jewelry, precious metal	68	66	53	53	7	7	10	6	6	8	
3914	Silverware and plated ware	87	88	39	40	2	2	3	8	8	11	
3915	Jewelers' materials and lapidary work	63	65	50	47	4	4	5	4	4	6	
393	Musical instruments	76	79	32	31	5	5	7	4	3	5	
3931	Musical instruments	76	79	32	31	5	5	7	4	3	5	
394	Toys and sporting goods	67	60	58	54	8	11	13	7	9	11	
3942	Dolls and stuffed toys	59	48	43	34	8	11	14	5	3	5	
3944	Games, toys, and children's vehicles	77	79	66	68	3	3	4	5	4	7	
3949	Sporting and athletic goods, n.e.c.	64	54	56	50	11	14	18	9	12	15	
395	Pens, pencils, office, and art supplies	72	72	55	55	5	5	7	5	6	7	
3951	Pens and mechanical pencils	74	75	61	61	4	4	5	4	4	5	
3952	Lead pencils and art goods	92	91	86	84	1	1	1	1	1	1	
3953	Marking devices	52	51	29	30	13	13	18	8	9	12	
3955	Carbon paper and inked ribbons	72	71	63	64	5	5	6	5	4	6	
396	Costume jewelry and notions	81	80	60	64	3	3	4	4	4	6	
3961	Costume jewelry	81	78	53	58	3	4	5	5	5	7	
3965	Fasteners, buttons, needles, and pins	81	83	76	77	4	3	5	5	4	6	
399	Miscellaneous manufactures	73	72	49	55	4	5	6	4	4	5	
3991	Brooms and brushes	75	76	49	49	3	3	4	2	2	3	
3993	Signs and advertising specialties	64	58	55	52	10	9	13	7	7	10	
3995	Burial caskets	80	82	43	43	3	3	4	4	3	5	
3996	Hard surface floor coverings, n.e.c.	83	80	77	73	1	1	2	2	2	2	
3999	Manufacturing industries, n.e.c.	77	81	43	59	4	4	5	6	7	9	

¹A description of the standard error is given in appendix B, "Qualifications of the Data" of the report.

Note: Some data are revised to include additional information. See introduction for a discussion of the revision.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1990	1989	1990	1989	Full production			National emergency production		
						Level		1989 to 1990 change	Level		1989 to 1990 change
						1990	1989		1990	1989	
	All industries	77	78	70	71	1	1	1	1	1	1
	Durable goods industries	74	76	66	68	1	1	1	1	1	1
	Nondurable goods industries	81	81	74	75	1	1	1	1	1	1
	Advanced processing industries	76	77	68	69	1	1	1	1	1	1
	Primary processing industries	79	81	73	75	1	1	1	1	1	1
20	Food and kindred products	80	79	74	73	1	1	1	1	1	1
201	Meat products	84	81	78	75	1	2	2	2	2	3
2011	Meat packing plants	85	82	81	78	2	2	2	3	2	4
2013	Sausages and other prepared meats	78	72	72	66	3	3	4	3	3	4
2015	Poultry slaughtering and processing	89	88	81	81	2	3	3	3	3	4
202	Dairy products	82	80	76	73	2	2	3	2	3	3
2021	Creamery butter	89	89	82	82	3	2	3	2	1	2
2022	Cheese, natural and processed	87	85	81	78	3	2	3	4	4	5
2023	Dry, condensed, and evaporated dairy products	83	82	72	72	5	5	7	5	4	6
2024	Ice cream and frozen desserts	70	67	66	63	4	5	6	5	5	7
2026	Fluid milk	82	81	78	74	3	3	4	3	5	6
203	Preserved fruits and vegetables	77	76	70	69	3	3	4	3	3	4
2032	Canned specialties	86	87	83	83	1	2	2	1	2	2
2033	Canned fruits and vegetables	66	67	58	59	6	6	8	5	5	8
2034	Dehydrated fruits, vegetables, and soups	86	83	81	77	3	4	5	4	4	6
2035	Pickles, sauces, and salad dressings	72	70	67	65	4	4	6	6	6	8
2037	Frozen fruits and vegetables	87	84	83	81	2	3	4	3	3	4
2038	Frozen specialties, n.e.c.	86	81	74	69	3	2	4	5	4	6
204	Grain mill products	82	81	78	77	2	2	2	2	2	2
2041	Flour and other grain mill products	87	86	87	86	2	2	3	2	2	3
2043	Cereal breakfast foods	80	77	76	73	2	3	4	2	3	4
2044	Rice milling	92	93	88	89	1	1	1	2	1	2
2045	Prepared flour mixes and doughs	73	72	72	71	7	8	10	7	7	10
2046	Wet corn milling	94	91	93	91	1	2	2	1	2	2
2047	Dog and cat food	75	78	71	73	3	3	4	3	3	4
2048	Prepared feeds, n.e.c.	89	84	81	78	3	4	4	4	4	6
205	Bakery products	84	81	79	75	2	2	3	2	2	3
2051	Bread, cake, and related products	87	84	81	78	3	3	4	3	3	4
2052	Cookies and crackers	77	73	73	69	2	2	3	2	3	3
2053	Frozen bakery products, except bread	86	85	80	79	2	4	5	3	4	5
206	Sugar and confectionery products	82	82	76	76	2	1	2	2	1	2
2061	Raw cane sugar	96	98	96	97	2	2	3	2	2	3
2062	Cane sugar refining	86	83	81	78	3	2	3	2	2	3
2063	Beet sugar	96	98	88	90	2	2	3	3	3	4
2064	Candy and other confectionery products	83	82	74	74	3	2	4	3	2	3
2066	Chocolate and cocoa products	74	76	71	74	1	1	2	2	1	2
2067	Chewing gum	73	74	68	68	1	-	1	1	1	1
2068	Salted and roasted nuts and seeds	77	81	75	78	3	2	3	2	2	3
207	Fats and oils	85	84	81	79	2	2	3	2	2	2
2074	Cottonseed oil mills	82	78	79	75	5	6	8	4	4	6
2075	Soybean oil mills	91	88	88	85	2	2	3	2	2	3
2076	Vegetable oil mills, n.e.c.	78	78	77	76	4	3	4	3	3	4
2077	Animal and marine fats and oils	85	88	79	77	5	8	9	3	4	5
2079	Edible fats and oils, n.e.c.	82	80	78	77	3	3	4	3	3	4
208	Beverages	78	77	74	72	2	2	3	2	3	3
2082	Malt beverages	90	89	90	88	3	3	4	3	3	4
2083	Malt	95	93	94	93	4	4	5	4	4	5
2084	Wines, brandy, and brandy spirits	68	71	67	70	6	6	8	5	6	8
2085	Distilled and blended liquors	80	77	65	63	5	6	7	6	7	9
2086	Bottled and canned soft drinks	74	74	70	69	4	5	6	4	5	6
2087	Flavoring extracts and syrups, n.e.c.	68	67	64	60	5	5	7	4	5	6
209	Miscellaneous food and kindred products	72	72	66	66	3	3	4	3	3	4
2091	Canned and cured fish and seafoods	80	94	80	93	10	3	10	10	4	11
2092	Fresh or frozen prepared fish	74	71	73	69	6	5	8	6	5	8
2095	Roasted coffee	67	68	66	66	9	9	12	9	8	12
2096	Potato chips and similar snacks	76	75	69	68	3	3	4	3	3	4
2097	Manufactured ice	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2098	Macaroni and spaghetti	81	80	78	77	6	8	10	7	9	11
2099	Food preparations, n.e.c.	74	74	65	66	5	5	6	5	5	7
21	Tobacco products	91	87	85	82	1	1	2	3	3	4
211	Cigarettes	93	89	86	83	1	1	1	3	3	4
2111	Cigarettes	93	89	86	83	1	1	1	3	3	4
212	Cigars	96	96	96	96	1	1	2	1	1	2
2121	Cigars	96	96	96	96	1	1	2	1	1	2
213	Chewing and smoking tobacco	77	75	70	69	10	11	15	8	9	12
2131	Chewing and smoking tobacco	77	75	70	69	10	11	15	8	9	12
214	Tobacco stemming and redrying	74	73	73	72	3	3	4	3	3	3
2141	Tobacco stemming and redrying	74	73	73	72	3	3	4	3	3	3
22	Textile mill products	80	86	74	80	1	1	2	1	1	2
221	Broadwoven fabric mills, cotton	83	91	79	86	2	1	3	3	3	4
2211	Broadwoven fabric mills, cotton	83	91	79	86	2	1	3	3	3	4
222	Broadwoven fabric mills, manmade fiber and silk	89	89	77	78	2	2	2	3	3	4
2221	Broadwoven fabric mills, manmade fiber and silk	89	89	77	78	2	2	2	3	3	4
223	Broadwoven fabric mills, wool	79	84	76	81	3	3	4	3	3	4
2231	Broadwoven fabric mills, wool	79	84	76	81	3	3	4	3	3	4

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1990	1989	1990	1989	Full production			National emergency production			
						Level		1989 to 1990 change	Level		1989 to 1990 change	
						1990	1989		1990	1989		
22	Textile mill products—Con.											
224	Narrow fabric mills	94	93	71	71	4	5	6	3	3	4	4
2241	Narrow fabric mills	94	93	71	71	4	5	6	3	3	4	4
225	Knitting mills	82	89	78	84	2	2	3	2	2	3	3
2251	Women's hosiery, except socks	87	87	72	70	7	7	10	5	4	6	6
2252	Hosiery, n.e.c.	83	90	81	88	6	3	6	6	4	7	7
2253	Knit outerwear mills	86	95	85	94	3	2	4	4	3	4	4
2254	Knit underwear mills	92	92	89	89	2	3	3	2	3	3	3
2257	Weft knit fabric mills	76	88	74	87	5	4	7	5	4	7	7
2258	Lace and warp knit fabric mills	80	81	74	75	2	4	4	2	4	4	4
2259	Knitting mills, n.e.c.	84	83	80	79	6	4	7	8	7	10	10
226	Textile finishing, except wool	78	81	73	76	4	3	5	5	3	6	6
2261	Finishing plants, cotton	77	73	68	65	4	3	5	4	5	6	6
2262	Finishing plants, manmade	80	88	76	84	8	5	9	9	6	11	11
2269	Finishing plants, n.e.c.	76	79	73	75	2	3	4	3	4	5	5
227	Carpets and rugs	76	82	69	77	3	3	4	3	3	4	4
2273	Carpets and rugs	76	82	69	77	3	3	4	3	3	4	4
228	Yarn and thread mills	75	84	71	80	3	3	4	3	4	5	5
2281	Yarn spinning mills	75	85	74	84	3	3	5	3	4	5	5
2282	Throwing and winding mills	73	82	71	80	7	4	8	7	4	8	8
2284	Thread mills	77	83	52	56	2	3	4	9	12	15	15
229	Miscellaneous textile goods	75	80	70	76	3	2	4	3	3	4	4
2295	Coated fabrics, not rubberized	69	71	63	68	7	6	9	6	6	8	8
2296	Tire cord and fabrics	91	89	86	83	1	1	1	2	2	2	2
2297	Nonwoven fabrics	75	87	71	81	6	3	6	5	3	6	6
2298	Cordage and twine	74	77	73	76	1	3	3	1	3	3	3
2299	Textile goods, n.e.c.	75	78	70	73	4	4	6	5	6	8	8
23	Apparel and other textile products	83	85	75	77	1	1	2	2	2	2	2
231	Men's and boys' suits and coats	82	84	72	73	4	4	5	5	6	7	7
2311	Men's and boys' suits and coats	82	84	72	73	4	4	5	5	6	7	7
232	Men's and boys' furnishings	86	88	78	78	2	1	2	3	3	4	4
2321	Men's and boys' shirts	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2322	Men's and boys' underwear and nightwear	88	91	56	51	4	2	4	11	13	16	16
2323	Men's and boys' neckwear	90	90	87	86	5	2	5	5	4	6	6
2325	Men's and boys' trousers and slacks	87	88	81	82	3	2	3	4	3	5	5
2326	Men's and boys' work clothing	88	87	84	85	3	4	5	3	4	5	5
2329	Men's and boys' clothing, n.e.c.	89	91	88	90	2	1	2	3	2	3	3
233	Women's and misses' outerwear	86	89	77	79	3	3	4	3	3	4	4
2331	Women's, misses', and juniors' blouses and shirts	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2335	Women's, misses', and juniors' dresses	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2337	Women's, misses', and juniors' suits and coats	91	90	64	62	6	7	8	6	5	8	8
2339	Women's, misses', and juniors' outerwear, n.e.c.	86	88	84	85	5	4	6	5	4	6	6
234	Women's and children's undergarments	91	90	85	84	3	4	5	3	4	5	5
2341	Women's and children's underwear	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2342	Brassieres, girdles, and allied garments	88	85	82	79	5	6	7	6	7	9	9
235	Hats, caps, and millinery	77	77	76	75	4	5	6	4	4	6	6
2353	Hats, caps, and millinery	77	77	76	75	4	5	6	4	4	6	6
236	Girls' and children's outerwear	83	86	82	84	5	5	7	5	5	7	7
2361	Girls' and children's dresses and blouses	79	78	78	77	8	10	12	8	9	12	12
2369	Girls' and children's outerwear, n.e.c.	87	92	85	90	4	4	6	4	4	6	6
237	Fur goods	43	70	36	59	14	7	15	12	7	14	14
2371	Fur goods	43	70	36	59	14	7	15	12	7	14	14
238	Miscellaneous apparel and accessories	75	84	71	80	4	2	4	4	3	5	5
2381	Fabric dress and work gloves	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2384	Robes and dressing gowns	(S)	(S)	(S)	(S)	(X)	1	(X)	(X)	1	(X)	(X)
2385	Waterproof outerwear	93	92	84	83	2	1	2	5	5	7	7
2386	Leather and sheep-lined clothing	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2387	Apparel belts	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2389	Apparel and accessories, n.e.c.	97	98	85	87	2	1	2	3	3	4	4
239	Miscellaneous fabricated textile products	77	78	70	72	3	2	3	3	2	4	4
2391	Curtains and draperies	68	67	45	51	6	5	7	7	4	8	8
2392	Housefurnishings, n.e.c.	77	81	73	76	5	5	7	4	5	6	6
2393	Textile bags	81	88	76	82	3	2	3	4	1	4	4
2394	Canvas and related products	69	69	67	67	8	8	11	9	8	12	12
2395	Pleating and stitching	72	72	68	68	7	8	10	8	8	11	11
2396	Automotive and apparel trimmings	83	81	79	77	6	5	8	6	5	8	8
2397	Schiffli machine embroideries	82	76	76	70	8	9	11	7	8	11	11
2399	Fabricated textile products, n.e.c.	76	81	70	77	3	3	4	4	3	5	5
24	Lumber and wood products	77	79	69	71	2	2	3	3	3	4	4
241	Logging	82	83	81	82	7	5	9	7	5	9	9
2411	Logging	82	83	81	82	7	5	9	7	5	9	9
242	Sawmills and planing mills	74	76	62	63	6	6	8	7	8	11	11
2421	Sawmills and planing mills, general	73	75	61	61	6	7	9	8	9	12	12
2426	Hardwood dimension and flooring mills	79	83	72	75	4	4	6	5	4	6	6
2429	Special product sawmills, n.e.c.	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
243	Millwork, plywood, and structural members	78	80	69	72	2	2	2	2	2	3	3
2431	Millwork	74	79	62	66	2	2	3	3	3	4	4
2434	Wood kitchen cabinets	81	82	69	71	4	4	5	6	5	8	8
2435	Hardwood veneer and plywood	82	69	81	69	9	4	10	9	4	10	10
2436	Softwood veneer and plywood	92	96	89	93	2	1	2	3	1	3	3
2439	Structural wood members, n.e.c.	62	67	58	63	6	5	8	5	5	7	7

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1990	1989	1990	1989	Full production			National emergency production			
						Level		1989 to 1990 change	Level		1989 to 1990 change	
						1990	1989		1990	1989		
24	Lumber and wood products—Con.											
244	Wood containers	81	78	73	71	3	5	6	3	5	6	6
2441	Nailed wood boxes and shooks	73	76	65	70	5	3	6	5	3	7	7
2448	Wood pallets and skids	82	76	74	68	4	6	7	5	6	7	7
2449	Wood containers, n.e.c.	88	97	78	88	2	2	2	4	2	4	4
245	Wood buildings and mobile homes	66	73	61	68	6	4	7	5	3	6	6
2451	Mobile homes	68	73	64	68	8	4	9	7	4	8	8
2452	Prefabricated wood buildings	65	73	58	67	7	7	10	6	6	8	8
249	Miscellaneous wood products	83	84	77	79	2	2	3	3	3	4	4
2491	Wood preserving	69	68	65	64	6	6	8	6	6	9	9
2493	Reconstituted wood products	90	93	87	89	3	2	3	4	3	5	5
2499	Wood products, n.e.c.	84	85	76	77	3	3	4	5	4	6	6
25	Furniture and fixtures	72	76	63	65	3	3	3	2	3	3	3
251	Household furniture	72	76	63	66	4	4	6	4	4	5	5
2511	Wood household furniture	70	76	65	70	9	8	12	7	7	10	10
2512	Upholstered household furniture	78	82	67	69	4	4	6	7	7	10	10
2514	Metal household furniture	63	61	48	45	5	7	8	4	4	6	6
2515	Mattresses and bedsprings	78	81	66	73	6	6	8	6	6	9	9
2517	Wood television and radio cabinets	61	74	59	72	4	4	6	4	4	5	5
2519	Household furniture, n.e.c.	69	77	60	68	2	4	5	2	5	5	5
252	Office furniture	74	72	65	61	5	5	7	6	6	8	8
2521	Wood office furniture	60	51	49	39	10	9	13	11	8	13	13
2522	Office furniture, except wood	80	83	72	75	3	3	5	5	5	7	7
253	Public building and related furniture	65	77	50	60	5	5	7	6	10	12	12
2531	Public building and related furniture	65	77	50	60	5	5	7	6	10	12	12
254	Partitions and fixtures	74	79	66	70	3	3	4	3	3	4	4
2541	Wood partitions and fixtures	72	81	69	77	4	4	5	4	4	5	5
2542	Partitions and fixtures, except wood	76	77	64	64	4	4	5	4	4	5	5
259	Miscellaneous furniture and fixtures	71	78	62	67	4	4	6	5	4	6	6
2591	Draper hardware and blinds and shades	73	80	69	75	5	4	6	5	2	6	6
2599	Furniture and fixtures, n.e.c.	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
26	Paper and allied products	85	86	80	81	1	1	2	2	2	2	2
261	Pulp mills	92	89	91	89	4	4	5	4	4	5	5
2611	Pulp mills	92	89	91	89	4	4	5	4	4	5	5
262	Paper mills	93	93	89	89	2	2	3	3	4	5	5
2621	Paper mills	93	93	89	89	2	2	3	3	4	5	5
263	Paperboard mills	92	91	86	85	5	5	7	6	6	8	8
2631	Paperboard mills	92	91	86	85	5	5	7	6	6	8	8
265	Paperboard containers and boxes	79	80	72	73	2	2	3	2	2	3	3
2652	Setup paperboard boxes	91	95	73	89	4	5	6	10	2	10	10
2653	Corrugated and solid fiber boxes	81	82	74	75	4	4	5	4	4	5	5
2655	Fiber cans, drums, and similar products	57	51	48	48	7	3	7	2	2	3	3
2656	Sanitary food containers	82	77	72	67	3	4	5	4	4	5	5
2657	Folding paperboard boxes	83	85	79	80	3	3	4	3	3	4	4
267	Miscellaneous converted paper products	79	82	74	77	2	2	2	3	3	4	4
2671	Paper coated and laminated, packaging	71	72	69	70	7	8	11	7	8	10	10
2672	Paper coated and laminated, n.e.c.	69	78	61	68	5	5	7	7	9	12	12
2673	Bags plastics, laminated, and coated	81	83	80	82	4	3	5	4	3	5	5
2674	Bags uncoated paper and multiwall	85	86	77	78	3	3	5	4	4	5	5
2675	Die-cut paper and board	73	74	68	68	5	6	8	5	6	7	7
2676	Sanitary paper products	86	87	81	83	3	2	3	4	4	5	5
2677	Envelopes	87	87	85	85	2	2	2	2	2	3	3
2678	Stationery products	75	77	69	71	2	1	2	2	2	3	3
2679	Converted paper products, n.e.c.	78	81	71	73	4	3	5	4	4	6	6
27	Printing and publishing	82	83	72	75	2	2	3	2	2	3	3
271	Newspapers	76	81	67	73	4	5	6	4	4	6	6
2711	Newspapers	76	81	67	73	4	5	6	4	4	6	6
272	Periodicals	89	90	88	89	2	2	3	2	2	3	3
2721	Periodicals	89	90	88	89	2	2	3	2	2	3	3
273	Books	92	91	86	85	2	1	2	4	4	6	6
2731	Book publishing	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2732	Book printing	84	85	80	80	2	2	3	3	2	3	3
274	Miscellaneous publishing	82	83	67	67	2	2	3	3	3	4	4
2741	Miscellaneous publishing	82	83	67	67	2	2	3	3	3	4	4
275	Commercial printing	80	79	70	72	3	3	4	4	4	5	5
2752	Commercial printing, lithographic	81	81	74	74	4	4	6	5	5	7	7
2754	Commercial printing, gravure	85	85	81	80	5	4	6	4	3	5	5
2759	Commercial printing, n.e.c.	78	74	58	64	5	4	6	5	4	7	7
276	Manifold business forms	80	80	70	70	3	3	4	3	3	4	4
2761	Manifold business forms	80	80	70	70	3	3	4	3	3	4	4
277	Greeting cards	92	93	56	55	4	1	4	1	2	2	2
2771	Greeting cards	92	93	56	55	4	1	4	1	2	2	2
278	Blankbooks and bookbinding	71	74	61	66	4	3	5	7	5	9	9
2782	Blankbooks and looseleaf binders	66	69	55	60	5	4	6	9	6	10	10
2789	Bookbinding and related work	87	88	84	84	4	3	5	5	4	6	6
279	Printing trade services	81	84	75	76	4	4	5	4	5	6	6
2791	Typesetting	82	85	77	80	7	8	11	8	9	12	12
2796	Platemaking services	81	83	72	74	4	4	5	5	5	6	6

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1990	1989	1990	1989	Full production			National emergency production		
						Level		1989 to 1990 change	Level		1989 to 1990 change
						1990	1989		1990	1989	
28	Chemicals and allied products	79	79	73	73	1	1	2	1	1	2
281	Industrial inorganic chemicals	79	80	78	78	3	4	5	3	3	4
2812	Alkalies and chlorine	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)
2813	Industrial gases	74	79	74	79	6	7	9	6	7	9
2816	Inorganic pigments	90	92	90	91	2	2	3	2	2	3
2819	Industrial inorganic chemicals, n.e.c.	77	77	75	75	4	5	6	4	4	6
282	Plastics materials and synthetics	93	93	92	92	2	2	3	3	3	3
2821	Plastics materials and resins	96	96	95	96	4	4	5	4	4	6
2822	Synthetic rubber	82	79	81	79	4	4	5	4	4	5
2823	Cellulosic manmade fibers	95	96	95	96	1	1	1	1	1	1
2824	Organic fibers, noncellulosic	89	88	88	88	1	1	2	2	2	2
283	Drugs	76	75	68	67	2	2	3	3	2	4
2833	Medicinals and botanicals	86	88	83	85	2	1	2	2	2	2
2834	Pharmaceutical preparations	75	73	67	66	2	2	3	3	3	4
2835	Diagnostic substances	82	82	65	68	2	3	4	7	6	9
2836	Biological products, except diagnostic	85	86	85	86	3	3	4	3	3	4
284	Soaps, cleaners, and toilet goods	77	76	68	67	2	2	3	2	3	3
2841	Soap and other detergents	80	81	75	75	5	4	6	4	3	5
2842	Polishes and sanitation goods	84	80	70	63	2	4	5	7	9	11
2843	Surface active agents	70	73	69	73	5	3	5	5	3	5
2844	Toilet preparations	73	73	65	65	3	3	4	3	3	4
285	Paints and allied products	69	70	57	57	4	4	5	4	4	5
2851	Paints and allied products	69	70	57	57	4	4	5	4	4	5
286	Industrial organic chemicals	84	82	82	81	2	2	3	2	2	3
2861	Gum and wood chemicals	74	69	73	67	2	5	5	2	5	5
2865	Cyclic crudes and intermediates	80	80	77	77	2	2	3	3	3	4
2869	Industrial organic chemicals, n.e.c.	85	82	83	81	3	2	4	3	2	4
287	Agricultural chemicals	73	75	67	69	2	2	3	3	3	4
2873	Nitrogenous fertilizers	94	89	93	89	2	2	3	2	2	2
2874	Phosphatic fertilizers	94	86	94	85	1	1	2	1	1	2
2875	Fertilizers, mixing only	60	56	54	54	5	4	7	4	4	5
2879	Agricultural chemicals, n.e.c.	68	72	60	64	3	3	4	3	4	5
289	Miscellaneous chemical products	74	74	65	65	3	3	5	4	4	5
2891	Adhesives and sealants	73	72	64	64	4	4	5	4	4	5
2892	Explosives	66	65	63	61	2	3	3	3	4	5
2893	Printing ink	79	80	74	75	3	3	4	3	3	4
2895	Carbon black	92	91	91	91	3	2	3	3	2	3
2899	Chemical preparations, n.e.c.	74	74	63	64	6	6	8	6	6	8
29	Petroleum and coal products	82	84	76	79	2	2	2	2	2	3
291	Petroleum refining	87	90	86	89	2	2	3	2	2	3
2911	Petroleum refining	87	90	86	89	2	2	3	2	2	3
295	Asphalt paving and roofing materials	57	61	43	46	4	4	5	4	5	6
2951	Asphalt paving mixtures and blocks	50	51	33	35	5	5	7	4	5	7
2952	Asphalt felts and coatings	69	79	65	73	3	4	5	3	4	5
299	Miscellaneous petroleum and coal products	71	70	60	58	3	3	4	3	3	4
2992	Lubricating oils and greases	69	68	57	55	3	3	4	3	3	5
2999	Petroleum and coal products, n.e.c.	81	81	79	78	4	4	6	4	4	5
30	Rubber and miscellaneous plastics products	73	75	69	70	2	3	3	2	2	3
301	Tires and inner tubes	87	88	84	84	3	3	4	3	3	4
3011	Tires and inner tubes	87	88	84	84	3	3	4	3	3	4
302	Rubber and plastics footwear	83	76	81	74	3	2	3	3	1	3
3021	Rubber and plastics footwear	83	76	81	74	3	2	3	3	1	3
305	Hose and belting and gaskets and packing	74	74	67	65	3	3	4	3	3	4
3052	Rubber and plastics hose and belting	71	70	62	60	5	6	8	5	6	8
3053	Gaskets, packing, and sealing devices	78	77	70	69	1	1	2	2	2	3
306	Fabricated rubber products, n.e.c.	75	75	70	70	6	6	8	6	7	9
3061	Mechanical rubber goods	82	83	70	78	4	3	5	5	4	6
3069	Fabricated rubber products, n.e.c.	71	71	66	66	8	9	12	9	10	13
308	Miscellaneous plastics products, n.e.c.	71	74	66	68	3	3	4	3	3	4
3081	Unsupported plastics film and sheet	86	86	81	81	2	2	2	3	4	5
3082	Unsupported plastics profile shapes	82	82	79	80	4	3	5	4	4	5
3083	Laminated plastics plate, sheet, and profile shapes	82	85	76	79	2	3	3	2	2	3
3084	Plastics pipe	79	78	76	75	4	3	5	4	3	5
3085	Plastics bottles	72	76	70	73	7	7	10	7	6	9
3086	Plastics foam products	69	75	63	68	4	3	5	5	4	6
3087	Custom compounding of purchased plastics resins	78	77	71	71	6	5	7	7	6	9
3088	Plastics plumbing fixtures	64	68	59	64	5	6	7	4	5	6
3089	Plastics products, n.e.c.	67	70	62	65	4	5	6	4	4	6
31	Leather and leather products	78	82	72	77	2	2	2	2	2	3
311	Leather tanning and finishing	84	85	81	81	5	2	5	3	3	5
3111	Leather tanning and finishing	84	85	81	81	5	2	5	3	3	5
313	Footwear cut stock	90	96	90	96	6	3	6	6	3	6
3131	Footwear cut stock	90	96	90	96	6	3	6	6	3	6
314	Footwear, except rubber	79	85	72	77	2	2	3	3	3	4
3142	House slippers	66	85	56	73	3	3	4	5	8	9
3143	Men's footwear, except athletic	79	84	69	73	3	2	3	4	4	6
3144	Women's footwear, except athletic	81	86	80	85	3	4	5	3	4	5
3149	Footwear, except rubber, n.e.c.	90	82	88	81	5	5	6	5	5	7
315	Leather gloves and mittens	77	82	64	82	7	5	8	14	5	15
3151	Leather gloves and mittens	77	82	64	82	7	5	8	14	5	15

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1990	1989	1990	1989	Full production			National emergency production		1989 to 1990 change	
						Level		1989 to 1990 change	Level			
						1990	1989		1990	1989		
31	Leather and leather products—Con.											
316	Luggage	60	67	60	67	3	6	7	3	6	7	
3161	Luggage	60	67	60	67	3	6	7	3	6	7	
317	Handbags and personal leather goods	81	81	77	77	4	5	6	3	4	5	
3171	Women's handbags and purses	93	90	87	84	3	4	5	2	5	5	
3172	Personal leather goods, n.e.c.	67	69	65	68	5	8	9	5	7	9	
319	Leather goods, n.e.c.	83	86	68	71	7	7	10	9	6	11	
3199	Leather goods, n.e.c.	83	86	68	71	7	7	10	9	6	11	
32	Stone, clay, and glass products	75	78	70	74	2	2	3	2	2	3	
321	Flat glass	81	85	80	84	2	2	3	2	2	3	
3211	Flat glass	81	85	80	84	2	2	3	2	2	3	
322	Glass and glassware, pressed or blown	83	85	82	83	2	3	3	3	3	4	
3221	Glass containers	89	88	89	88	2	2	3	2	2	3	
3229	Pressed and blown glass, n.e.c.	77	82	76	79	4	4	5	4	4	6	
323	Products of purchased glass	77	75	72	71	2	2	3	3	2	3	
3231	Products of purchased glass	77	75	72	71	2	2	3	3	2	3	
324	Cement, hydraulic	87	90	84	88	2	3	3	3	4	5	
3241	Cement, hydraulic	87	90	84	88	2	3	3	3	4	5	
325	Structural clay products	78	88	75	84	3	2	4	3	2	3	
3251	Brick and structural clay tile	73	86	72	85	5	4	7	5	5	7	
3253	Ceramic wall and floor tile	80	90	77	86	4	3	4	4	3	5	
3255	Clay refractories	84	89	76	81	3	2	4	2	2	3	
3259	Structural clay products, n.e.c.	80	84	77	81	7	3	7	7	2	7	
326	Pottery and related products	76	79	72	71	2	3	3	1	5	5	
3261	Vitreous plumbing fixtures	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	
3262	Vitreous china table and kitchenware	76	77	70	72	1	2	2	1	2	2	
3263	Semivitreous table and kitchenware	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	
3264	Porcelain electrical supplies	71	67	70	57	2	6	6	2	9	9	
3269	Pottery products, n.e.c.	82	83	80	81	4	4	6	5	5	6	
327	Concrete, gypsum, and plaster products	68	73	62	66	4	4	5	5	5	6	
3271	Concrete block and brick	67	69	60	61	7	8	11	8	8	11	
3272	Concrete products, n.e.c.	69	77	65	73	4	4	6	4	3	5	
3273	Ready-mixed concrete	65	69	57	61	6	7	9	7	8	11	
3274	Lime	80	81	78	80	3	3	4	3	4	5	
3275	Gypsum products	80	86	74	81	2	3	3	3	4	5	
328	Cut stone and stone products	86	86	78	80	4	4	5	6	6	8	
3281	Cut stone and stone products	86	86	78	80	4	4	5	6	6	8	
329	Miscellaneous nonmetallic mineral products	75	79	72	75	2	2	3	2	2	3	
3291	Abrasive products	75	78	73	76	1	2	2	1	1	1	
3292	Asbestos products	59	78	59	78	1	1	1	1	1	1	
3295	Minerals, ground or treated	66	66	65	65	11	9	13	10	8	13	
3296	Mineral wool	81	88	80	87	3	3	4	3	3	4	
3297	Nonclay refractories	73	70	70	67	6	6	8	6	5	8	
3299	Nonmetallic mineral products, n.e.c.	80	90	54	59	2	1	2	7	8	10	
33	Primary metal industries	80	81	77	78	1	2	2	1	2	2	
331	Blast furnace and basic steel products	84	84	83	83	2	3	4	2	3	4	
3312	Blast furnaces and steel mills	85	84	85	84	3	4	5	3	4	5	
3313	Electrometallurgical products	79	81	76	78	1	1	1	1	1	1	
3315	Steel wire and related products	76	79	72	75	2	2	3	3	3	4	
3316	Cold finishing of steel shapes	84	85	82	83	7	6	9	8	7	10	
3317	Steel pipe and tubes	82	84	76	78	4	3	5	4	4	5	
332	Iron and steel foundries	72	72	69	70	4	3	5	4	3	5	
3321	Gray and ductile iron foundries	77	76	74	73	2	2	3	2	2	3	
3322	Malleable iron foundries	69	75	66	71	2	2	3	2	2	3	
3324	Steel investment foundries	80	76	76	72	2	3	3	2	3	4	
3325	Steel foundries, n.e.c.	56	60	55	59	12	9	15	11	9	14	
333	Primary nonferrous metals	88	85	88	84	1	2	2	1	2	2	
3331	Primary copper	96	93	96	93	1	1	1	1	1	1	
3334	Primary aluminum	99	90	99	90	1	4	4	1	4	4	
3339	Primary nonferrous metals, n.e.c.	68	72	68	71	2	1	2	2	1	2	
334	Secondary nonferrous metals	84	87	80	83	3	3	4	4	3	4	
3341	Secondary nonferrous metals	84	87	80	83	3	3	4	4	3	4	
335	Nonferrous rolling and drawing	77	82	73	77	2	2	3	2	2	3	
3351	Copper rolling and drawing	81	85	77	81	3	4	5	4	4	6	
3353	Aluminum sheet, plate, and foil	73	74	71	73	5	6	8	4	6	7	
3354	Aluminum extruded products	74	82	70	78	3	3	5	3	3	4	
3355	Aluminum rolling and drawing, n.e.c.	90	90	80	80	1	1	1	3	3	4	
3356	Nonferrous rolling and drawing, n.e.c.	79	84	70	74	2	3	3	5	6	8	
3357	Nonferrous wire drawing and insulating	79	85	74	79	3	3	4	3	3	4	
336	Nonferrous foundries (castings)	72	78	62	68	2	2	3	3	2	3	
3363	Aluminum die-castings	65	77	56	68	3	3	4	3	3	4	
3364	Nonferrous die-castings, except aluminum	78	74	71	68	2	3	4	3	5	5	
3365	Aluminum foundries	76	82	68	78	3	2	4	4	3	5	
3366	Copper foundries	76	78	51	52	9	8	12	10	9	14	
3369	Nonferrous foundries, n.e.c.	86	78	80	73	1	2	2	2	2	3	
339	Miscellaneous primary metal products	75	75	65	66	2	2	3	3	3	4	
3398	Metal heat treating	74	73	60	60	3	3	4	4	4	6	
3399	Primary metal products, n.e.c.	76	79	74	77	2	2	2	2	2	2	

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1990	1989	1990	1989	Full production			National emergency production		
						Level		1989 to 1990 change	Level		1989 to 1990 change
						1990	1989		1990	1989	
34	Fabricated metal products	74	77	66	69	1	1	2	1	1	2
341	Metal cans and shipping containers	87	89	85	88	4	4	6	4	4	6
3411	Metal cans	89	89	89	88	5	5	6	5	5	6
3412	Metal barrels, drums, and pails	75	90	63	87	7	5	9	4	5	7
342	Cutlery, handtools, and hardware	78	81	70	72	3	3	4	3	3	5
3421	Cutlery	88	89	85	86	1	1	2	2	2	2
3423	Hand and edge tools, n.e.c.	84	85	67	68	2	2	3	7	7	9
3425	Saw blades and handsaws	72	83	67	77	2	3	4	2	4	4
3429	Hardware, n.e.c.	74	78	69	72	4	5	7	4	5	6
343	Plumbing and heating, except electric	66	70	56	59	8	9	12	7	7	10
3431	Metal sanitary ware	78	91	75	87	4	3	5	3	4	5
3432	Plumbing fixture fittings and trim	75	75	59	59	3	3	4	8	8	11
3433	Heating equipment, except electric	53	59	47	52	14	16	22	11	12	16
344	Fabricated structural metal products	73	76	64	68	2	2	3	3	2	3
3441	Fabricated structural metal	75	73	68	66	5	6	8	6	6	9
3442	Metal doors, sash, and trim	76	81	66	70	4	3	5	6	6	8
3443	Fabricated plate work (boiler shops)	79	82	63	70	3	3	4	6	5	8
3444	Sheet metal work	67	72	59	65	5	4	6	4	2	5
3446	Architectural metal work	66	70	57	61	8	9	12	8	9	12
3448	Prefabricated metal buildings	83	85	69	68	4	3	5	9	10	13
3449	Miscellaneous metal work	73	80	70	77	4	3	5	4	3	5
345	Screw machine products, bolts, etc.	75	80	66	73	3	3	3	3	3	4
3451	Screw machine products	70	82	64	75	4	5	6	5	6	7
3452	Bolts, nuts, rivets, and washers	78	80	68	71	3	3	4	4	4	5
346	Metal forgings and stampings	73	79	67	71	3	3	5	3	3	4
3462	Iron and steel forgings	76	79	69	71	4	3	5	5	5	7
3463	Nonferrous forgings	70	71	69	70	2	2	3	2	2	3
3465	Automotive stampings	69	77	62	68	5	6	8	5	4	6
3466	Crowns and closures	73	78	73	78	3	2	3	3	2	3
3469	Metal stampings, n.e.c.	77	81	73	76	3	2	4	3	3	5
347	Metal services, n.e.c.	82	81	75	73	3	3	4	3	3	5
3471	Plating and polishing	87	85	80	77	4	3	4	5	4	6
3479	Metal coating and allied services	77	76	69	69	4	5	6	5	5	7
348	Ordnance and accessories, n.e.c.	64	68	56	59	3	2	3	2	2	3
3482	Small arms ammunition	69	73	61	65	3	1	3	4	2	4
3483	Ammunition, except for small arms, n.e.c.	62	66	51	55	6	4	7	4	3	5
3484	Small arms	77	87	70	79	2	1	2	1	1	1
3489	Ordnance and accessories, n.e.c.	60	61	54	55	-	-	-	1	1	1
349	Miscellaneous fabricated metal products	75	75	66	65	2	2	2	2	3	4
3491	Industrial valves	80	84	70	73	3	2	3	4	3	5
3492	Fluid power valves and hose fittings	73	76	70	73	5	5	7	4	5	6
3493	Steel springs, except wire	78	78	72	73	4	6	7	5	6	8
3494	Valves and pipe fittings, n.e.c.	70	66	51	45	6	7	9	10	11	14
3495	Wire springs	69	71	57	57	4	6	7	5	6	8
3496	Miscellaneous fabricated wire products	76	72	73	67	4	2	4	3	2	4
3497	Metal foil and leaf	74	70	70	66	4	4	6	3	4	5
3498	Fabricated pipe and fittings	82	80	68	74	3	3	4	6	2	6
3499	Fabricated metal products, n.e.c.	72	72	66	65	3	4	5	5	5	7
35	Industrial machinery and equipment	71	72	64	65	2	2	2	1	2	2
351	Engines and turbines	66	68	62	63	6	7	9	6	6	8
3511	Turbines and turbine generator sets	87	84	76	72	1	1	1	2	2	2
3519	Internal combustion engines, n.e.c.	61	63	58	60	7	8	11	7	7	10
352	Farm and garden machinery	67	68	64	64	8	8	11	7	7	9
3523	Farm machinery and equipment	66	66	63	64	10	10	14	9	9	12
3524	Lawn and garden equipment	73	73	66	67	2	2	3	3	3	3
353	Construction and related machinery	74	78	65	68	2	2	3	3	3	4
3531	Construction machinery	72	83	64	74	3	1	3	3	2	3
3532	Mining machinery	81	72	73	64	2	2	3	3	4	5
3533	Oil and gas field machinery	72	68	70	65	3	6	7	3	7	7
3534	Elevators and moving stairways	90	92	85	87	3	2	4	3	2	4
3535	Conveyors and conveying equipment	75	74	55	54	6	5	7	9	10	13
3536	Hoists, cranes, and monorails	88	88	82	81	2	2	3	3	2	3
3537	Industrial trucks and tractors	70	73	63	65	5	6	8	5	6	7
354	Metalworking machinery	78	81	69	71	2	2	2	2	2	2
3541	Machine tools, metal cutting types	78	85	66	73	2	3	3	4	5	7
3542	Machine tools, metal forming types	75	73	68	65	5	8	9	6	7	9
3543	Industrial patterns	73	86	68	81	5	6	8	7	7	10
3544	Special dies, tools, jigs, and fixtures	86	85	78	78	2	3	4	3	4	5
3545	Machine tool accessories	74	79	64	66	4	4	6	4	4	5
3546	Power-driven handtools	72	80	64	70	2	3	3	2	2	3
3547	Rolling mill machinery	66	82	51	63	4	3	4	3	3	4
3548	Welding apparatus	77	71	61	57	3	3	4	2	3	3
3549	Metalworking machinery, n.e.c.	69	67	67	65	4	6	8	4	5	6
355	Special industry machinery	75	78	67	69	3	3	4	4	5	6
3552	Textile machinery	82	85	74	78	5	4	6	6	5	7
3553	Woodworking machinery	78	71	65	59	6	9	10	6	9	11
3554	Paper industries machinery	76	88	71	83	3	4	5	2	5	5
3555	Printing trades machinery	73	83	63	68	6	2	7	9	10	13
3556	Food products machinery	83	82	75	74	5	5	7	5	5	7
3559	Special industry machinery, n.e.c.	72	74	65	66	5	6	7	7	8	11

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹					
		1990	1989	1990	1989	Full production		National emergency production			
						Level		1989 to 1990 change	Level		1989 to 1990 change
						1990	1989		1990	1989	
35	Industrial machinery and equipment—Con.										
356	General industrial machinery	73	75	63	66	2	2	2	2	2	3
3561	Pumps and pumping equipment	82	83	78	79	3	3	4	3	2	3
3562	Ball and roller bearings	73	78	70	75	3	3	3	3	2	3
3563	Air and gas compressors	71	70	58	57	4	3	5	5	6	7
3564	Blowers and fans	72	76	64	64	4	4	6	4	5	7
3565	Packaging machinery	76	72	56	59	4	3	5	8	5	9
3566	Speed changers, drives, and gears	78	81	72	75	3	3	4	5	5	6
3567	Industrial furnaces and ovens	67	71	60	65	5	10	11	5	8	9
3568	Power transmission equipment, n.e.c.	64	69	59	64	6	5	7	6	6	9
3569	General industrial machinery, n.e.c.	71	75	56	60	5	4	6	6	6	8
357	Computer and office equipment	70	68	67	66	4	5	6	3	5	5
3571	Electronic computers	71	68	70	67	5	8	9	5	7	8
3572	Computer storage devices	73	72	71	69	9	10	14	9	10	13
3575	Computer terminals	40	31	37	28	2	2	3	2	2	3
3577	Computer peripheral equipment, n.e.c.	75	78	71	74	5	4	6	5	4	6
3578	Calculating and accounting equipment	57	60	48	50	5	4	6	5	4	6
3579	Office machines, n.e.c.	71	72	59	69	2	2	3	4	2	4
358	Refrigeration and service machinery	64	64	59	59	4	5	6	3	4	5
3581	Automatic vending machines	68	84	56	69	—	—	—	1	1	1
3582	Commercial laundry equipment	78	86	75	83	3	5	5	3	5	6
3585	Refrigeration and heating equipment	63	68	59	64	5	3	6	4	3	5
3586	Measuring and dispensing pumps	74	77	58	60	2	3	4	11	9	14
3589	Service industry machinery, n.e.c.	65	49	59	46	5	13	14	4	11	12
359	Industrial machinery, n.e.c.	69	73	60	62	3	3	5	4	6	7
3592	Carburetors, pistons, rings, and valves	81	86	74	75	2	2	3	4	5	6
3593	Fluid power cylinders and actuators	67	64	60	57	5	6	8	6	6	8
3594	Fluid power pumps and motors	70	73	64	67	2	2	3	2	2	3
3596	Scales and balances, except laboratory	79	79	65	64	4	4	5	9	9	12
3599	Industrial machinery, n.e.c.	69	74	58	60	4	4	6	5	8	9
36	Electronic and other electric equipment	74	77	65	68	1	1	1	1	1	2
361	Electric distribution equipment	73	74	70	71	3	3	4	3	3	4
3612	Transformers, except electronic	78	78	75	75	2	3	3	2	2	3
3613	Switchgear and switchboard apparatus	71	72	68	69	4	4	6	4	4	6
362	Electrical industrial apparatus	71	77	62	66	3	3	4	3	3	4
3621	Motors and generators	71	78	68	75	3	3	4	3	3	4
3624	Carbon and graphite products	80	81	64	65	3	6	6	7	6	9
3625	Relays and industrial controls	70	73	56	59	5	5	7	4	5	6
3629	Electrical industrial apparatus, n.e.c.	75	87	64	73	4	4	6	6	5	8
363	Household appliances	73	77	68	72	2	2	2	2	2	3
3631	Household cooking equipment	66	70	63	66	4	5	6	4	5	6
3632	Household refrigerators and freezers	67	73	63	72	3	2	3	4	2	5
3633	Household laundry equipment	78	84	77	83	1	1	1	1	1	1
3634	Electric housewares and fans	80	76	63	60	4	5	6	6	6	8
3635	Household vacuum cleaners	70	73	69	71	1	1	1	1	1	1
3639	Household appliances, n.e.c.	75	84	74	82	7	1	7	7	2	7
364	Electric lighting and wiring equipment	73	76	63	67	2	2	2	2	2	3
3641	Electric lamp bulbs and tubes	75	76	72	74	5	4	7	5	4	6
3643	Current-carrying wiring devices	73	75	69	71	2	3	3	2	2	3
3644	Noncurrent-carrying wiring devices	73	81	59	66	2	3	3	6	6	8
3645	Residential lighting fixtures	67	70	53	55	4	3	5	3	4	5
3646	Commercial lighting fixtures	73	74	55	64	3	4	5	8	3	8
3647	Vehicular lighting equipment	73	75	65	72	5	7	9	3	6	7
3648	Lighting equipment, n.e.c.	80	84	68	69	2	3	4	4	4	6
365	Household audio and video equipment	79	79	59	56	3	2	3	5	7	8
3651	Household audio and video equipment	78	79	48	46	5	2	5	6	8	10
3652	Prerecorded records and tapes	81	78	81	78	1	2	3	1	2	3
366	Communications equipment	73	74	59	59	3	3	4	2	3	3
3661	Telephone and telegraph apparatus	75	81	59	61	3	3	4	2	4	4
3663	Radio and television communications equipment	70	70	59	59	4	5	6	3	4	5
3669	Communications equipment, n.e.c.	76	70	58	53	3	4	4	6	5	7
367	Electronic components and accessories	77	78	72	74	2	2	2	2	2	2
3671	Electron tubes	81	90	79	87	3	2	4	3	2	3
3672	Printed circuit boards	80	83	73	75	5	3	5	5	5	7
3674	Semiconductors and related devices	77	78	75	77	2	2	3	3	2	3
3675	Electronic capacitors	79	77	72	71	4	3	5	4	3	5
3676	Electronic resistors	68	72	56	58	4	5	6	5	5	7
3677	Electronic coils and transformers	73	80	59	64	6	5	8	9	8	12
3678	Electronic connectors	73	74	69	72	3	3	4	2	2	3
3679	Electronic components, n.e.c.	76	76	68	69	3	3	4	3	2	3
369	Miscellaneous electrical equipment and supplies	73	79	64	68	3	2	3	3	3	3
3691	Storage batteries	75	77	72	74	5	5	7	5	5	6
3692	Primary batteries, dry and wet	72	78	61	67	5	6	8	8	8	11
3694	Engine electrical equipment	73	85	62	70	5	2	5	3	2	4
3695	Magnetic and optical recording media	82	84	81	82	4	3	5	3	3	5
3699	Electrical equipment and supplies, n.e.c.	70	73	59	61	5	6	7	5	6	7
37	Transportation equipment	73	73	66	66	2	1	2	2	1	2
371	Motor vehicles and equipment	70	76	64	70	3	2	3	3	2	3
3711	Motor vehicles and car bodies	72	77	65	70	4	3	5	4	3	4
3713	Truck and bus bodies	56	56	49	50	8	10	12	7	8	11
3714	Motor vehicle parts and accessories	70	79	64	73	3	2	4	3	2	4
3715	Truck trailers	67	80	61	72	7	7	10	7	8	10
3716	Motor homes	31	50	25	41	5	3	6	3	2	4

See footnotes at end of table.

Table 2c. Capacity Utilization Rates by Industry: Fourth Quarters 1990 and 1989—Con.

[For meaning of abbreviations and symbols, see introductory text]

SIC code	Industry	Full production		National emergency production		Standard errors ¹						
		1990	1989	1990	1989	Full production			National emergency production			
						Level		1989 to 1990 change	Level		1989 to 1990 change	
						1990	1989		1990	1989		
37	Transportation equipment—Con.											
372	Aircraft and parts	81	71	71	61	1	2	2	3	2	4	
3721	Aircraft	80	62	67	52	2	2	3	4	3	5	
3724	Aircraft engines and engine parts	78	80	76	77	2	2	3	2	2	3	
3728	Aircraft parts and equipment, n.e.c.	86	81	74	69	2	2	2	5	5	7	
373	Ship and boat building and repairing	70	74	66	70	2	3	3	2	3	3	
3731	Ship building and repairing	82	78	78	74	2	3	4	2	3	3	
3732	Boat building and repairing	53	65	49	61	4	4	5	4	4	6	
374	Railroad equipment	67	65	63	62	2	2	3	3	3	4	
3743	Railroad equipment	67	65	63	62	2	2	3	3	3	4	
375	Motorcycles, bicycles, and parts	62	61	34	33	11	12	16	1	1	1	
3751	Motorcycles, bicycles, and parts	62	61	34	33	11	12	16	1	1	1	
376	Guided missiles, space vehicles, parts	70	69	67	67	3	3	4	3	3	4	
3761	Guided missiles and space vehicles	71	70	69	69	3	4	5	4	4	5	
3764	Space propulsion units and parts	74	71	72	69	2	1	2	2	2	2	
3769	Space vehicle equipment, n.e.c.	54	60	44	48	4	5	6	3	4	5	
379	Miscellaneous transportation equipment	66	70	49	52	2	1	2	3	3	4	
3792	Travel trailers and campers	63	68	45	48	5	3	6	9	9	12	
3795	Tanks and tank components	60	64	41	43	1	1	1	1	1	1	
3799	Transportation equipment, n.e.c.	78	81	69	72	1	2	2	1	1	2	
38	Instruments and related products	75	76	64	65	2	3	4	2	3	3	
381	Search and navigation equipment	70	68	60	59	6	7	9	5	5	7	
3812	Search and navigation equipment	70	68	60	59	6	7	9	5	5	7	
382	Measuring and controlling devices	77	77	59	64	2	3	4	4	3	5	
3821	Laboratory apparatus and furniture	83	86	65	67	2	2	2	3	3	4	
3822	Environmental controls	72	77	67	71	3	4	5	2	3	4	
3823	Process control instruments	82	81	68	69	4	4	6	6	6	8	
3824	Fluid meters and counting devices	80	87	75	80	2	4	4	3	5	6	
3825	Instruments to measure electricity	76	71	46	59	4	9	9	8	8	11	
3826	Analytical instruments	77	80	64	65	3	3	4	6	6	8	
3827	Optical instruments and lenses	67	66	56	55	5	5	7	6	6	8	
3829	Measuring and controlling devices, n.e.c.	74	76	63	64	4	8	9	3	6	7	
384	Medical instruments and supplies	81	79	69	67	2	2	3	4	4	5	
3841	Surgical and medical instruments	83	77	71	65	4	5	6	5	5	7	
3842	Surgical appliances and supplies	83	83	68	69	4	4	6	8	7	11	
3843	Dental equipment and supplies	82	83	73	74	4	3	5	3	2	3	
3844	X-ray apparatus and tubes	69	71	61	64	2	2	3	5	4	7	
3845	Electromedical equipment	77	76	67	66	3	2	4	3	4	5	
385	Ophthalmic goods	82	94	81	92	4	3	5	5	3	5	
3851	Ophthalmic goods	82	94	81	92	4	3	5	5	3	5	
386	Photographic equipment and supplies	77	82	72	76	2	3	3	2	2	3	
3861	Photographic equipment and supplies	77	82	72	76	2	3	3	2	2	3	
387	Watches, clocks, watchcases, and parts	75	66	67	59	4	4	6	4	3	5	
3873	Watches, clocks, watchcases, and parts	75	66	67	59	4	4	6	4	3	5	
39	Miscellaneous manufacturing industries	75	77	67	68	2	2	3	2	3	3	
391	Jewelry, silverware, and plated ware	69	69	66	66	8	8	11	8	7	10	
3911	Jewelry, precious metal	65	65	64	64	10	10	14	10	9	13	
3914	Silverware and plated ware	82	84	81	82	5	2	5	5	2	6	
3915	Jewelers' materials and lapidary work	(S)	(S)	(S)	(S)	(X)	(X)	(X)	(X)	(X)	(X)	
393	Musical instruments	66	61	58	54	5	4	6	6	5	8	
3931	Musical instruments	66	61	58	54	5	4	6	6	5	8	
394	Toys and sporting goods	76	77	68	68	3	4	5	4	4	5	
3942	Dolls and stuffed toys	60	59	46	42	12	14	18	7	9	11	
3944	Games, toys, and children's vehicles	72	70	69	66	6	8	10	6	7	9	
3949	Sporting and athletic goods, n.e.c.	81	84	69	72	3	3	4	5	5	7	
395	Pens, pencils, office, and art supplies	78	86	70	76	3	3	4	4	5	6	
3951	Pens and mechanical pencils	67	85	62	75	3	5	6	4	6	7	
3952	Lead pencils and art goods	97	97	94	94	1	1	2	1	2	2	
3953	Marking devices	77	77	57	57	7	7	10	14	14	20	
3955	Carbon paper and inked ribbons	82	85	77	79	9	4	10	8	4	9	
396	Costume jewelry and notions	79	74	64	61	3	1	3	5	3	6	
3961	Costume jewelry	79	70	61	56	4	1	4	6	3	7	
3965	Fasteners, buttons, needles, and pins	79	82	72	73	3	2	3	4	5	6	
399	Miscellaneous manufactures	76	80	68	70	2	3	4	4	5	6	
3991	Brooms and brushes	80	80	68	69	1	2	2	6	5	8	
3993	Signs and advertising specialties	74	79	69	74	4	4	6	4	4	6	
3995	Burial caskets	70	69	63	62	1	2	2	1	2	2	
3996	Hard surface floor coverings, n.e.c.	78	86	75	83	1	1	1	1	1	1	
3999	Manufacturing industries, n.e.c.	78	81	67	66	3	6	7	8	10	12	

¹A description of the standard error is given in appendix B, "Qualifications of the Data" of the report.

Note: Some data are revised to include additional information. See introduction for a discussion of the revision.

Appendix A.
MQ-C1 Report Form and Instructions

The MQ-C1 form and instructions are shown on the following pages.

DUE DATE:

OMB No. 0607-0175: Approval Expires 12/31/95

FORM **MQ-C1**
(11-30-94)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

SURVEY OF PLANT CAPACITY UTILIZATION
FOURTH QUARTER 1994 (October–December)

NOTICE – Response to this inquiry **is required by law (title 13, United States Code)**. By section 9 of the same law, your report to the Census Bureau is **confidential**. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report refer to the CENSUS FILE NUMBER (CFN) (11 digits)

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

Item 1a OPERATIONAL STATUS

Mark (X) ONE box which best describes this establishment at the end of 1994. See instructions for reporting.

101 In operation – Complete items 1 through 6.

102 Temporarily idle

103 Sold or leased to another company –Report new owner or operator in item 1b } *Give date*

104 Permanently ceased operations }

Month	Year

Item 1b NEW OWNER OR OPERATOR

106 Name Employer Identification Number

Number and street	City	State	ZIP Code

IMPORTANT PLEASE READ INSTRUCTIONS AND DEFINITIONS BEFORE COMPLETING FORM

Item 2 FOURTH QUARTER OPERATIONS

Report actual operations for the following items:

a. Number of days per week in operation

b. Number of plant hours per day in operation

c. Market value of production

Key code	ACTUAL OPERATIONS								
	1994			1993			1992		
20									
21									
22	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.

Item 3 FULL PRODUCTION CAPABILITY

a. At full production capability, what is the percent increase from actual production (item 2c) in the fourth quarter of 1994 at which this plant could operate for a sustained period? Assume:

- only machinery and equipment in place and ready to operate.
- normal downtime.
- the same product mix as in the fourth quarter.
- the number of shifts and hours of plant operations under normal conditions **ARE NOT** higher than that attained by your plant at any time during the past 5 years.
- overtime pay, availability of labor, materials, utilities, etc. **ARE NOT** limiting factors.

b. Convert percent increase (item 3a) to decimal form. **Examples:** 0% = .00 10% = .10 150% = 1.50

Key code	PERCENT INCREASE								
	1994			1993			1992		
30			%			%			%
31									

c. Calculate increase in value of production (Multiply item 2c by 3b)

d. Calculate value of production at full production (Add items 2c and 3c)

Key code	VALUE OF PRODUCTION								
	1994			1993			1992		
	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.
32									
33									

Item 3 FULL PRODUCTION CAPABILITY 1994 - Continued

e. If your estimate of fourth quarter value of production at full production capability has changed compared to 1993, check the primary reasons.

- 341 Building capital expenditures
- 342 Machinery capital expenditures - *Include new, replaced, or enhanced machinery*
- 343 Building retirements
- 344 Machinery retirements
- 345 Price changed but product mix is the same
- 346 Revised estimation assumption with no change in plant or operations
- 347 Change in method of operation
- 348 Change in product mix or product specifications
- 349 Change in material input
- 350 Other - *Specify* ↴
- 351 _____

Item 4 FOURTH QUARTER ACTUAL OPERATIONS VS FULL PRODUCTION CAPABILITY FOR 1994

Compare your estimates of actual value of production and value of production at full production capability.

a. If during the fourth quarter this plant's actual operations are less than full production capability, check primary reasons your actual operation fell short of full production.

- 401 Not most profitable to operate at full production capability
- 402 Insufficient supply of materials
- 403 Insufficient orders
- 404 Insufficient supply of local labor force/skills
- 405 Lack of sufficient fuel or electric energy
- 406 Equipment limitations
- 407 Storage limitations
- 408 Logistics/transportation constraints
- 409 Sufficient inventory of finished goods on hand
- 410 Strike or work stoppage
- 411 Seasonal operations
- 412 Environmental restrictions
- 413 Other - *Specify* ↴
- 414 _____

b. If operations in the fourth quarter are less than full production capability, how quickly would it be possible to increase to that level? Assume sufficient demand for your product.

CHECK THE SHORTEST AMOUNT OF TIME YOU WOULD REQUIRE.

- 415 Less than 3 months
- 416 3 to 6 months
- 417 7 to 12 months
- 418 More than one year

Item 5 NATIONAL EMERGENCY PRODUCTION

a. In the event of a **national emergency**, what is the percentage increase from the actual operations at which this plant could operate for a sustained period of **one year or more? Assume:**

- **full** use of **all** your machinery and equipment, including that requiring reconditioning.
- **plant production as close to 168 hours per week as possible**, assuming extra shifts.
- **minimal** downtime.
- funding, labor, materials, components, utilities, etc., **are fully available to you and your suppliers.**
- your product mix **is** permitted to change.
- you can sell **all** your output
- the percentage should be equal to or greater than item 3a.

PERCENT INCREASE	
1994	1993
50 _____ %	_____ %

b. If operations in the fourth quarter are **less** than national emergency production, how quickly could you increase to the national emergency production level if given emergency priority by the government?

CHECK THE SHORTEST AMOUNT OF TIME YOU WOULD REQUIRE.

- 505 Less than 3 months
- 506 3 to 6 months
- 507 7 to 12 months
- 508 More than one year

60 Remarks

Item 6 PERSON TO BE CONTACTED REGARDING THIS REPORT - Print name and telephone number.

601 Name		602 Area code	Number
Telephone →	()		

INSTRUCTIONS AND DEFINITIONS

1994 SURVEY OF PLANT CAPACITY UTILIZATION

AUTHORITY AND CONFIDENTIALITY – Response to this inquiry is required by law (title 13, U.S. Code). By section 9, of title 13, U.S. Code, your report to the Census Bureau is confidential. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. The data cannot be used for regulation of enforcement. Copies of your report retained in your files are immune from legal process.

PLEASE READ CAREFULLY BEFORE COMPLETING FORM

Public reporting burden for this collection of information is estimated to vary from 30 minutes to 8 hours per response (with an average of 2 hours), including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or other aspect of this collection of information including suggestions for reducing this burden to the Associate Director for Administration, Room 2069, FB-3, Bureau of the Census, Washington, DC 20233-0001; and to the Office of Management and Budget, Washington, DC 20503.

WHO SHOULD REPORT?

This report covers the manufacturing establishment named in the address box of the form. If your company operates more than one location, **REPORT ONLY FOR THOSE ESTABLISHMENTS SELECTED FOR THIS SAMPLE SURVEY.**

THE PLANT MANAGER OR ENGINEER SHOULD COMPLETE THIS REPORT BECAUSE OF THE NATURE OF QUESTIONS ASKED.

WHAT PERIOD SHOULD EACH REPORT COVER?

The report form covers the fourth quarter of calendar year 1994.

Please report comparable data for 1993 for survey items 2a through 3d and 5a. Data for 1992 are printed on the form if the plant was selected to participate in the 1992 survey.

HOW TO REPORT

Report market value of production in thousands of dollars. For example, if value of production is 1,125,628 dollars the preferred entry is:

Mil.	Thou.	Dols.
1	126	000

Although, you may report as follows:

Mil.	Thou.	Dols.
1	125	628

For information concerning the possible use of reporting formats other than the form provided, such as computer tape, diskette, or printouts, contact Mr. Ron Taylor at (301) 457-4659.

NAME AND ADDRESS

Review the name and address of this plant printed in the top right corner of the report form. Line out any errors and make any necessary corrections or additions in the address box.

Item 1a – OPERATIONAL STATUS

Report the status of operations at this plant at the end of 1994.

In Operation – Complete items 1 through 6.

Idle Plants – Complete items 1 through 6.

a. If this plant was temporarily idle during the entire period covered by the survey, report actual operations for the various items as zero where appropriate.

b. If this plant was temporarily idle during only part of the period covered by the survey, report the actual operations for the time the plant was in operation.

For both cases, report full production capability based on the plant's peak quarterly production during the year 1994.

Sold or Leased Plant – If this plant was sold or leased to another company to operate, indicate the month and year this action took place and report the new owner or operator in item 1b. If you still maintain records for this plant, complete items 2 through 6. If you are no longer responsible for information about this plant, complete item 6 and return the form.

Permanently Ceased Operations – If this plant was in operation at any time during the fourth quarter, complete items 1 through 6. Report full production capability on the plant's normal fourth quarter production.

SPECIAL NOTE:

Seasonal Operations – (A) If this plant's operations are usually temporarily idle during the fourth quarter due to seasonal factors, report as instructed for idle plants. **(B)** If this plant was not temporarily idle during the fourth quarter but its operations vary substantially due to seasonal factors, complete items 1 through 6, and report full production capability based on the plant's peak quarterly production during the year 1994. For both types of seasonal operations, be sure to check "Seasonal operations" in item 4a if this is the primary reason actual operations are less than full production capability.

Item 1b – NEW OWNER OR OPERATOR

If there was a change in operator during the year or the establishment operated part of the year only, report in item 1b any change and give name and address of the new operator.

Item 2 – ACTUAL OPERATIONS

Report the actual operations of this plant in the fourth quarter 1994.

Days Per Week in Operation – In reporting days per week in operation, use the most typical pattern during the period.

Plant Hours Per Day – Report the typical number of hours the plant was in production during a single day, and not number of person hours worked.

CONTINUE ON REVERSE

If your plant has departments or assembly lines which operate at varied periods of time, report days per week and plant hours per day for the production department operating the greatest number.

Market Value of Production – Report the value of production based on estimated sales price(s) of what was produced during the fourth quarter, not fourth quarter sales. If production at this plant consists of only interplant transfers, use method (2) below to calculate market value of production.

Three methods to estimate market value of production are:

- (1) Estimate the sales price(s) of item(s) produced, then multiply the sales price(s) by the total number of items produced during the fourth quarter.
- (2) Use book figures of actual production costs plus an estimate of markup to cover overhead and profit.
- (3) Use fourth quarter value of shipments f.o.b. (freight on board) from the plant (including that value of interplant transfers within a company, in addition to direct costs of production but excluding resales and miscellaneous receipts) plus any additions to the finished stock of inventories during the fourth quarter, minus any shipments from inventories present before the fourth quarter (excluding materials and supplies).

Items 3, 4, and 5

Refer to the specific instructions provided with each item on the report form.

Item 3 and 4 refer to full production capability. Item 5 refers to national emergency production.

Note: For item 3a – percent increase from actual production to full production capability, if actual operations are at full production capability, report 0%. Report item 5a – percent increase from actual production to emergency production as instructed for item 3a.

DEFINITIONS AND ASSUMPTIONS

Full Production Capability – The maximum level of production that this establishment could reasonably expect to attain under normal operating conditions.

In estimating full production capability, consider the following:

- Assume only the machinery and equipment in place and ready to operate will be utilized. **Do not** consider facilities or equipment that would require extensive reconditioning before they can be made operable.
- Assume normal downtime, maintenance, repair, and cleanup.
- Assume number of shifts and hours of plant operations under normal conditions are not higher than that attained by your plant any time during the past 5 years.
- Assume overtime pay, availability of labor, materials, utilities, etc., are not limiting factors.

- Assume a product mix that was typical or representative of your production during the fourth quarter. If your plant is subject to considerable short-run variation assume the product mix of the current period.
- Do not assume increased use of productive facilities outside the plant for services (such as contracting out subassembly work) in excess of the proportion that would be normal during the fourth quarter.

National Emergency Production – The maximum level of production that this establishment could expect to attain and sustain for one year or more under national emergency conditions of multiple work shifts.

National emergency conditions are situations such as a military mobilization or natural disaster which are likely to create widespread excess demand requiring additional work shifts.

In estimating national emergency production consider the following:

- Assume all machinery and equipment in place (include the machinery and equipment that would require extensive reconditioning before they could be made operable) will be utilized.
- Assume minimal downtime and multi-work shift operations.
- Assume the maximum number of shifts and maximum hours of plant operation that can be attained by your plant under emergency condition (e.g., 168 hours of operations per week less plant maintenance downtime.)
- Assume overtime pay, availability of labor, materials, utilities, etc., are not limiting factors.
- Assume a 7-day work week.
- Assume a 24-hour work day.
- Assume your product mix can change.
- Assume increased use of productive facilities outside the plant for services (such as contracting out subassembly work) in excess of the proportion that would be normal during the fourth quarter.

(The emergency production percentage increase should be equal to or greater than item 3a. In many cases, it should be significantly greater.)

For plants in which there is no difference between the level of production at full production capability and at national emergency production, report the same value for items 3a and 5a. In the remarks section of the report indicate why the levels of full production and emergency production are the same (e.g., plant already produces at 168 hours per week.)

If you have any questions concerning the definitions or instructions, please contact the Environment, Technology, and Innovation Branch of the Manufacturing and Construction Division on (301) 457-4659.

Appendix B.

Qualifications of the Data

DEFINITIONS AND CONCEPTS

Although survey respondents were provided detailed instructions for estimating full production capacity and national emergency production capacity (see appendix A), it is extremely difficult to translate the concept of plant capacity into a working definition which is applicable to all industries and situations. A host of problems are inherent in any attempt to measure capacity. Following are some of the more significant:

1. Telephone conversations with respondents have revealed that there are a variety of methods by which plants can measure their capacity. For example, it is customary for petroleum refineries to use an engineering concept of capacity based on maximum throughput during around-the-clock operations, with allowance made for maintenance or other necessary downtime. Other industries use different methods. They might base capacity on the maximum number of work hours of their labor force, on a past peak performance period, or on any number of other methods.

In order to improve the consistency of reporting across industries, the Bureau of the Census made an attempt to prescribe a standardized method for calculating levels of capacity and capacity utilization. Respondents across industries were asked to report production by the plant for actual, full production, and national emergency levels of production, in terms of market value of production, and given specific assumptions to follow in estimating each level of production (see appendix A). The capacity utilization rates estimates produced in this report are calculated as a ratio of actual value of production to full production and national emergency values of production.

2. Full production limitations. Respondents were instructed as follows when estimating full production capacity: "Do not consider overtime pay, availability of labor, materials, utilities, etc., to be limiting factors." However, some respondents appear to be unrealistic in reporting their full production operations. For example, some establishments defined full production capacity as continuous operations (7 days a week, 24 hours a day) even though they were currently operating a single shift and admitted they could not expect realistically to operate continuously with their present plant and equipment or within their industry or locality. Census staff members have discussed the most questionable estimates with respondents and adjusted the

reports were appropriate; however, there is a distinct element of subjectivity, and it is apparent that not all plants have defined full production capacity in realistic terms.

3. National emergency production limitations. Some individual plants do not differentiate between their full production capacity and national emergency capacity, while some do. Therefore, for some individual plants, the levels of capacity and capacity utilization rates calculated for full production and national emergency are the same. For these plants, no measurable difference between full production and national emergency capacity levels or capacity utilization can be obtained.

Census staff members have discussed the most questionable estimates with respondents and adjusted the reports where appropriate; however, there is a distinct element of subjectivity, and it is apparent that not all plants have defined national emergency capacity in realistic terms.

4. Year-to-year variations in reported data. There is considerable year-to-year change in reported capacity and capacity utilization for individual plants. Some of this reflects real change in capacity due to additions or retirements of plant and equipment, change in product mix, or change in productivity. Other changes; however, are the result of response variations which are part of the nonsampling errors described in the following section on sampling and nonsampling errors. These variations, which often result from different personnel completing the form, include different judgmental decisions about work patterns and what plant and equipment to include in estimating capacity. At the summary levels, the individual establishment changes (either up or down) have a tendency to cancel each other.

SAMPLING AND NONSAMPLING ERRORS

The survey estimates are subject to both sampling and nonsampling errors. Nonsampling errors include various response and operational errors; errors of collection, reporting, transcription, and bias due to nonresponse, etc. These errors would also occur if a complete canvass were conducted under the same conditions as this survey. Most of the important operational errors were detected and corrected in the course of the review of the data for reasonableness and consistency.

However, because of the definitional and conceptual problems associated with this survey, it is likely that the response errors are greater in magnitude than for other manufacturing surveys in which respondents are asked to report data that are generally kept as a matter of record. Explicit measures of the nonsampling errors are not available. As derived, the estimated standard errors, which are discussed below, include part of the effect of these nonsampling errors. The total error, though, will exceed the standard errors shown and, for particular estimates, may exceed the standard errors by a considerable amount.

The panel selected for this survey was sampled using probabilities proportionate to size whereby each sampling unit was given an independent chance of selection. The particular sample selected was but one of many similar probability samples that could have resulted using this sampling methodology. Probabilities were assigned so that an expected sample size of approximately 10,000 would result, but the independent feature of the sample design does not preclude samples being drawn of a size other than 10,000. Each of the possible samples would yield somewhat different sets of results. The sampling errors—the differences between the estimates obtained from the sample actually selected and the results theoretically obtainable from a comparable complete canvass of the same target universe—are unknown. However, the estimated standard error of the level of the utilization rate and the estimated standard error for the year-to-year change are guides to the potential size of the sampling error.

The estimated standard error of a utilization rate, or of a year-to-year change in a utilization rate, may be used to define a confidence interval about that rate or change such that the complete coverage result will be included within that interval with known probability. As examples:

1. The interval defined by one standard error below the estimate of level or change to one standard error above contains the complete coverage results with approximately 67-percent confidence.
2. The interval defined by two standard errors below and above the estimate of level or change contains the complete coverage result with approximately 95-percent confidence.
3. The interval defined by three standard errors below and above the estimate of level or change contains the complete coverage result with approximately 99-percent confidence.

Thus, an inference that the complete coverage result lies within the indicated intervals would, with the prescribed confidences, be correct. For example, if an estimated utilization rate is shown as 80 percent, with an associated standard error of 3 percent, there is approximately 67-percent confidence that the interval 77 percent to 83 percent includes the complete coverage rate, about 95-percent confidence that the interval 74 percent to 86 percent would include the complete coverage rate, and approximately 99-percent confidence that the interval 71 percent to 89 percent would include the complete coverage rate.

Note that the estimates of the standard errors are derived from the sample and are also subject to sampling error.

Appendix C.

Description of Survey Sample and Estimating Procedure

SURVEY SAMPLE

The estimates presented in this report are derived from a probability sample which initially contained approximately 10,000 manufacturing establishments. The sample was selected from the 1992 Census of Manufactures augmented with birth establishments that were formed subsequent to 1992. The use of the census as the basic frame represented a departure from previous sample selection operations which used the most recently selected Annual Survey of Manufactures (ASM) as the sampling frame. The annual survey was itself sampled from the census of manufactures.

The 1992 Census of Manufactures universe contained about 370,000 establishments. Approximately 237,000 records were mailed a census form while the remainder were imputed based on administrative data obtained from Internal Revenue Service and/or Social Security Administration records. These small administrative record cases were not part of the sampling frame for the Survey of Plant Capacity Utilization. This is consistent with past sampling operations in which the ASM mail sample—selected from the mailed census universe—served as the prime survey frame. All major manufacturing industry groups are represented in the survey. After updating operations, about 9,800 of the approximately 10,000 sample cases were mailed. About 8,800 plants, or 88 percent, responded with usable data.

For the sampling operation, probabilities of selection were assigned proportionate to census of manufactures' total value of shipments. Actual probabilities were based upon predetermined reliability constraints established by industry. Each industry was classified in 1 of 4 priority categories. One category consisted of industries identified by the Department of Defense as important while the other categories were based upon analysis performed by the Bureau of the Census and resulted in high, medium, and low priorities being established. The constraints assigned these categories were subject to the overall limitation of the sample size to about 10,000 establishments. When selected, an establishment's sample weight is the inverse of its probability of selection. Probabilities were adjusted prior to sampling if its inverse exceeded 180.

ESTIMATING PROCEDURE

The estimated full production rates shown in this report for the four-digit SIC industries in table 1 were computed in the following manner:

$$R_j = \frac{\sum_i WT_{ij} VPA_{ij}}{\sum_i WT_{ij} VPF_{ij}}$$

where R_j is the utilization rate for the j th four-digit SIC industry, WT_{ij} is the sampling weight for establishment i in four-digit industry j ; VPA_{ij} is the actual value of production for establishment i in four-digit industry j ; VPF_{ij} is the value of production at the full production level; and the summations are for those establishments reporting value of production at both actual and full production level. (National emergency production rates are computed similarly, by substituting national emergency production (VPE) for VPF in the above formula.) This method does not require the estimation of data for individual nonrespondents. The process assumes that utilization rates for nonrespondents are the same as the average rates for respondents.

The estimated rates for the level of utilization shown in this report for the three- and two-digit SIC industries were computed in the following manner:

$$R_{(K)} = \frac{\sum_j VA_j}{\sum_j \left(\frac{VA_j}{R_j} \right)}$$

where $R_{(K)}$ is the utilization for the K th industry group (K can be three- or two-digit SIC or U.S. total); VA_j is the value added for the j th four-digit industry as published in the most recent ASM or census of manufactures; and VA_j/R_j is the value added for the j th four-digit industry adjusted to full production or national emergency production levels of operation.

Value added is defined as the difference between sales values and the cost of merchandise sold without further manufacture, processing, or assembly.

Value added is used when aggregating three- and two-digit SIC industry measures to avoid duplication in figures of production that result when products of some establishments are also input materials for other establishments.

Most users of industrial data consider value added to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas. Therefore, using value added in the methodology to derive utilization rate measures should provide better estimates.

Estimates of the variances of the estimates for utilization rates of four-digit SIC industries were computed as:

$$\sigma^2(R_j) = \sigma^2(A_j/B_j) = \frac{1}{B_j^2} [\sigma^2(A_j) + R_j^2 \sigma^2(B_j) - 2R_j \sigma(A_j B_j)]$$

where $A_j = \sum_i (WT_{ij}) (VPA_{ij})$

$$B_j = \sum_i (WT_{ij}) (VPF_{ij})$$

$$\sigma^2(A_j) = \text{Variance of } A_j = \sum_i (WT_{ij}) (WT_{ij}-1) (VPA_{ij})^2$$

$$\sigma^2(B_j) = \text{Variance of } B_j = \sum_i (WT_{ij}) (WT_{ij}-1) (VPF_{ij})^2$$

$$\sigma(A_j B_j) = \text{Covariance of } A_j \text{ and } B_j = \sum_i (WT_{ij}) (WT_{ij}-1) (VPA_{ij})(VPF_{ij})$$

Estimates of variances of higher level aggregates $R_{(K)}$ were computed as follows:

$$\sigma^2(R_{(K)}) = \frac{1}{\left[\sum_j \left(\frac{VA_j}{R_j} \right)^2 \right]} \left[\sum_j \sigma^2(VA_j) + R_{(K)}^2 \left[\sum_j \left(\frac{VA_j^2}{R_j^4} \right) (\sigma^2(R_j)) \right] - 2R_{(K)} \sum_j \left(\frac{1}{R_j} \sigma^2(VA_j) \right) \right]$$

where $\sigma^2(VA_j)$ is the ASM estimate of variance for value added in industry j , and where the summations range over the set of four-digit industries comprising the higher level industry group K . When census year value added data are utilized, then the variance terms $\sigma^2(VA_j)$ reduce to zero.

Estimates of the year-to-year change in the utilization rates at all SIC levels is the difference between the 2 yearly rates. We have not directly calculated estimates of the variances of the year-to-year change. For this publication, we assumed no correlation between the yearly rates. This assumption almost certainly results in an overstatement of the actual variances of change. Estimates of the variances of the year-to year change between 1994 and 1993 were computed as:

$$\sigma_{94-93} = \sqrt{\sigma^2_{94} + \sigma^2_{93}}$$