

Survey of Plant Capacity: 2003

Issued December 2004

MQ-C1(03)

**Current Industrial
Reports**



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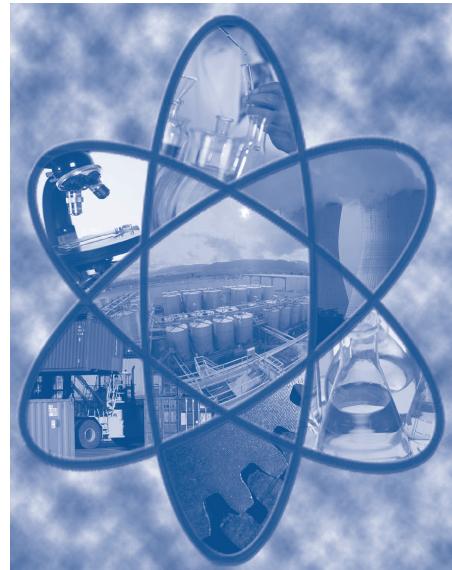
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Introduction

SUMMARY OF 2003 SURVEY RESULTS

U.S. domestic manufacturing plants used an estimated 64 percent (± 1 percentage point) of their full production capacity for the fourth quarter of 2003 and 63 percent (± 1 percentage point) for the fourth quarter of 2002. The durable goods industries fourth quarter 2003 rate of 61 percent (± 1 percentage point) was significantly lower than the rate of 69 percent (± 1 percentage point) estimated for nondurable goods industries. Durable goods industries are manufacturing industries in which products have a normal life expectancy of 3 years or more. North American Industry Classification System (NAICS) subsectors 321, 327, 331, 332, 333, 334, 335, 336, 337, and 339 include durable goods industries. Nondurable goods industries are manufacturing industries in which products generally have a life expectancy of less than 3 years. NAICS subsectors 311, 312, 313, 314, 315, 316, 322, 323, 324, 325, and 326 include nondurables goods industries.

The advanced processing industries fourth quarter rate of 62 percent (± 1 percentage point) was significantly lower than the rate of 70 percent (± 1 percentage point) estimated for primary processing industries. Primary processing industries are industries in which products are generally the first processed output of raw materials in the manufacturing process. NAICS subsectors 313, 314, 321, 322, 323, 324, 326, 327, and 331 include the primary processing industries. Advanced processing industries are industries in which products are considered finished manufactured items. NAICS subsectors 311, 312, 315, 316, 323, 333, 334, 335, 336, 337, and 339 include advance processing industries.

Among the manufacturing subsectors with the lowest utilization rates of their full production capacity in the fourth quarter of 2003 were computer and electronic product manufacturing (NAICS 334) at 53 percent and leather and allied product manufacturing (NAICS 316) at 58 percent. Among the manufacturing subsectors with the highest utilization rates for 2003 were paper manufacturing (NAICS 322) at 81 percent and petroleum and coal products manufacturing (NAICS 324) at 80 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.

Manufacturing subsectors with the lowest utilization rates of their national emergency production capacity in the

fourth quarter of 2003 were apparel manufacturing (NAICS 315) at 32 percent and leather and allied product manufacturing (NAICS 316) at 33 percent. Among the manufacturing subsectors with the highest utilization rates of 2003 were paper manufacturing (NAICS 322) at 73 percent and petroleum and coal products manufacturing (NAICS 324) at 70 percent. 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 three-, four-, five-, and six-digit NAICS industry levels, for fourth quarters 1999 through 2003. Table 2 shows both full and emergency production utilization rates, standard errors, and the standard error of the change in utilization rates from 2002 to 2003 at the three-, four-, five-, and six-digit NAICS industry levels, for fourth quarters 2002 and 2003. 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.

INDUSTRIAL CLASSIFICATION

The industrial classification definitions are based on the 1997 edition of the North American Industry Classification System (NAICS) Manual published by the Office of Management and Budget.

SURVEY DESCRIPTION

Data are obtained from manufacturing establishments by means of a mailed questionnaire. Respondents are asked to report their actual production, full production, and national emergency production levels of operation for the fourth quarter of the year in terms of value of production. From these reported dollar values, utilization rates for full production and national emergency production are derived. Year-to-year changes in these rates are affected by changes in the estimated capacity of industrial plants

due to factors such as capital expenditures, capital retirements, changes in the workforce, changes in prices, changes in product mix, and changes in respondents' estimates of productivity.

Final estimates are based on information collected from a sample of approximately 17,000 manufacturing and publishing establishments. Estimates in this release are based on response from approximately 80 percent of the survey panel.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols appear frequently in the tables:

| | |
|-------|---|
| - | Represents zero. |
| (D) | Withheld to avoid disclosing data for individual companies. |
| (NA) | Not available. |
| NAICS | North American Industry Classification System. |

^a

Data cells with a level of imputation exceeding 50 percent.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003

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

| NAICS code | Industry | Full production rate | | | | |
|------------|--|----------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 31-33 | Manufacturing¹ | 64 | 63 | 64 | 71 | 74 |
| | Durable goods industries¹ | 61 | 59 | 61 | 70 | 72 |
| | Nondurable goods industries¹ | 69 | 69 | 70 | 73 | 76 |
| | Advanced processing industries¹ | 62 | 61 | 63 | 70 | 72 |
| | Primary processing industries¹ | 70 | 68 | 68 | 73 | 77 |
| 311 | Food mfg | 74 | 73 | 72 | 73 | 74 |
| 3111 | Animal food mfg | 71 | 73 | 69 | 76 | 79 |
| 31111 | Animal food mfg | 71 | 73 | 69 | 76 | 79 |
| 311111 | Dog & cat food mfg | 81 | 80 | 75 | 76 | 77 |
| 311119 | Other animal food mfg | 63 | 68 | 63 | 76 | 80 |
| 3112 | Grain & oilseed milling | 84 | 79 | 79 | 76 | 76 |
| 31121 | Flour milling & malt mfg | 79 | 78 | 77 | 77 | 78 |
| 311211 | Flour milling | 79 | 79 | 75 | 72 | 75 |
| 311212 | Rice milling | 78 | 74 | 89 | 95 | 92 |
| 311213 | Malt mfg | 82 | 75 | 75 | 82 | 74 |
| 31122 | Starch & vegetable fats & oils mfg | 90 | 91 | 89 | 87 | 84 |
| 311221 | Wet corn milling | 95 | 93 | 94 | 91 | 91 |
| 311222 | Soybean processing | 94 | 96 | 92 | 96 | 85 |
| 311223 | Other oilseed processing | 76 | 70 | 80 | 69 | 80 |
| 311225 | Fats & oils refining & blending | 80 | 84 | 81 | 75 | 72 |
| 31123 | Breakfast cereal mfg | 81 | ^a 72 | 73 | 69 | 70 |
| 311230 | Breakfast cereal mfg | 81 | ^a 72 | 73 | 69 | 70 |
| 3113 | Sugar & confectionery product mfg | 70 | 69 | 71 | 74 | 72 |
| 31131 | Sugar mfg | 93 | 93 | 90 | 91 | 92 |
| 311311 | Sugarcane mills | 98 | 93 | 98 | 97 | 98 |
| 311312 | Cane sugar refining | ^a 71 | ^a 79 | ^a 76 | 80 | 85 |
| 311313 | Beet sugar mfg | 99 | 97 | 97 | 95 | 92 |
| 31132 | Chocolate & confectionery mfg from cacao beans | 83 | 81 | 76 | 78 | 75 |
| 311320 | Chocolate & confectionery mfg from cacao beans | 83 | 81 | 76 | 78 | 75 |
| 31133 | Confectionery mfg from purchased chocolate | 64 | 63 | 65 | 66 | 64 |
| 311330 | Confectionery mfg from purchased chocolate | 64 | 63 | 65 | 66 | 64 |
| 31134 | Nonchocolate confectionery mfg | 66 | 63 | 70 | 77 | 74 |
| 311340 | Nonchocolate confectionery mfg | 66 | 63 | 70 | 77 | 74 |
| 3114 | Fruit & vegetable preserving & specialty food mfg | 62 | 64 | 63 | 65 | 69 |
| 31141 | Frozen food mfg | 77 | 77 | 77 | 82 | 82 |
| 311411 | Frozen fruit, juice, & vegetable mfg | 85 | 79 | 81 | 79 | 82 |
| 311412 | Frozen specialty food mfg | 72 | 76 | 74 | 84 | 82 |
| 31142 | Fruit & vegetable canning, pickling, & drying | 54 | 57 | 55 | 57 | 61 |
| 311421 | Fruit & vegetable canning | 49 | 51 | 52 | 54 | 59 |
| 311422 | Specialty canning | 64 | 66 | 63 | ^a 60 | 61 |
| 311423 | Dried & dehydrated food mfg | 67 | 68 | 50 | 60 | 74 |
| 3115 | Dairy product mfg | 79 | 77 | 78 | 77 | 78 |
| 31151 | Dairy product (except frozen) mfg | 81 | 78 | 78 | 78 | 79 |
| 311511 | Fluid milk mfg | 85 | 82 | 82 | 81 | 82 |
| 311512 | Creamery butter mfg | 74 | 72 | 71 | 79 | 81 |
| 311513 | Cheese mfg | 79 | 81 | 80 | 77 | 78 |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 75 | 69 | 71 | 74 | 75 |
| 31152 | Ice cream & frozen dessert mfg | ^a 73 | 69 | 79 | 72 | 69 |
| 311520 | Ice cream & frozen dessert mfg | ^a 73 | 69 | 79 | 72 | 69 |
| 3116 | Meat product mfg | 82 | 83 | 83 | 85 | 85 |
| 31161 | Animal slaughtering & processing | 82 | 83 | 83 | 85 | 85 |
| 311611 | Animal (except poultry) slaughtering | 84 | 88 | 88 | 87 | 88 |
| 311612 | Meat processed from carcasses | 75 | 77 | 77 | 76 | 78 |
| 311613 | Rendering & meat byproduct processing | 78 | 76 | 75 | ^a 77 | ^a 82 |
| 311615 | Poultry processing | 87 | 86 | 86 | 91 | 90 |
| 3117 | Seafood product preparation & packaging | 61 | 56 | 60 | 61 | 62 |
| 31171 | Seafood product preparation & packaging | 61 | 56 | 60 | 61 | 62 |
| 311711 | Seafood canning | 69 | 64 | 64 | 79 | 66 |
| 311712 | Fresh & frozen seafood processing | 60 | 55 | 60 | 58 | 61 |
| 3118 | Bakeries & tortilla mfg | 72 | 73 | 69 | 71 | 73 |
| 31181 | Bread & bakery product mfg | 76 | 76 | 68 | 71 | 76 |
| 311811 | Retail bakeries | ^a 58 | ^a 65 | 66 | 64 | 74 |
| 311812 | Commercial bakeries | 78 | 76 | 68 | 72 | 76 |
| 311813 | Frozen cakes, pies, & other pastries mfg | 80 | 78 | 79 | 73 | 76 |
| 31182 | Cookie, cracker, & pasta mfg | 64 | 68 | 69 | 69 | 67 |
| 311821 | Cookie & cracker mfg | 62 | 66 | 69 | 67 | 63 |
| 311822 | Flour mixes & dough mfg from purchased flour | 69 | 72 | 72 | 76 | 80 |
| 311823 | Dry pasta mfg | 63 | 77 | 68 | 67 | 70 |
| 31183 | Tortilla mfg | 81 | 79 | 76 | 77 | 78 |
| 311830 | Tortilla mfg | 81 | 79 | 76 | 77 | 78 |
| 3119 | Other food mfg | 74 | 73 | 71 | 68 | 68 |
| 31191 | Snack food mfg | 85 | 80 | 77 | 78 | ^a 76 |
| 311911 | Roasted nuts & peanut butter mfg | 72 | 76 | 71 | 70 | 82 |
| 311919 | Other snack food mfg | 89 | 81 | 78 | 80 | ^a 74 |
| 31192 | Coffee & tea mfg | ^a 71 | 71 | 71 | 77 | 77 |
| 311920 | Coffee & tea mfg | ^a 71 | 71 | 71 | 77 | 77 |
| 31193 | Flavoring syrup & concentrate mfg | 72 | 70 | 69 | 63 | 61 |
| 311930 | Flavoring syrup & concentrate mfg | 72 | 70 | 69 | 63 | 61 |
| 31194 | Seasoning & dressing mfg | 67 | 67 | 64 | 58 | 61 |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 74 | 74 | 69 | 61 | 58 |
| 311942 | Spice & extract mfg | 61 | 62 | 59 | 56 | 65 |
| 31199 | All other food mfg | 70 | 71 | 71 | 68 | 68 |
| 311991 | Perishable prepared food mfg | 68 | 67 | 66 | 67 | 67 |
| 311999 | All other miscellaneous food mfg | 70 | 72 | 73 | 69 | 68 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|---|----------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 312 | Beverage & tobacco product mfg | 64 | 65 | 68 | 71 | 75 |
| 3121 | Beverage mfg | 68 | 65 | 66 | 68 | 70 |
| 31211 | Soft drink & ice mfg | 63 | 57 | 56 | 61 | 63 |
| 312111 | Soft drink mfg | 70 | 60 | 58 | 62 | 64 |
| 312112 | Bottled water mfg | 32 | 50 | 51 | 49 | 56 |
| 312113 | Ice mfg | 28 | 23 | 27 | 40 | ^a 40 |
| 31212 | Breweries | 78 | 81 | 82 | 82 | 85 |
| 312120 | Breweries | 78 | 81 | 82 | 82 | 85 |
| 31213 | Wineries | 63 | 66 | 69 | 65 | 71 |
| 312130 | Wineries | 63 | 66 | 69 | 65 | 71 |
| 31214 | Distilleries | 69 | 66 | 68 | 65 | 55 |
| 312140 | Distilleries | 69 | 66 | 68 | 65 | 55 |
| 3122 | Tobacco mfg | 61 | 65 | 69 | 73 | 81 |
| 31221 | Tobacco stemming & redrying | 77 | 59 | 75 | 81 | 77 |
| 312210 | Tobacco stemming & redrying | 77 | 59 | 75 | 81 | 77 |
| 31222 | Tobacco product mfg | 61 | 65 | 69 | 73 | 81 |
| 312221 | Cigarette mfg | 61 | 65 | 70 | 73 | 82 |
| 312229 | Other tobacco product mfg | 69 | 66 | 60 | 66 | 73 |
| 313 | Textile mills | 64 | 66 | 68 | 77 | 80 |
| 3131 | Fiber, yarn, & thread mills | 77 | 74 | 69 | 80 | 82 |
| 31311 | Fiber, yarn, & thread mills | 77 | 74 | 69 | 80 | 82 |
| 313111 | Yarn spinning mills | 82 | 78 | 70 | 82 | 83 |
| 313112 | Yarn texturing, throwing, & twisting mills | 68 | 69 | 68 | 74 | 79 |
| 313113 | Thread mills | ^a 72 | 66 | 69 | 82 | 85 |
| 3132 | Fabric mills | 66 | 65 | 70 | 78 | 81 |
| 31321 | Broadwoven fabric mills | 69 | 66 | 72 | 84 | 85 |
| 313210 | Broadwoven fabric mills | 69 | 66 | 72 | 84 | 85 |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 64 | 68 | 63 | 70 | 75 |
| 313221 | Narrow fabric mills | 68 | 69 | 63 | 70 | 77 |
| 313222 | Schiffli machine embroidery | 53 | 66 | 62 | 71 | 69 |
| 31323 | Nonwoven fabric mills | 60 | 62 | 74 | 74 | 83 |
| 313230 | Nonwoven fabric mills | 60 | 62 | 74 | 74 | 83 |
| 31324 | Knit fabric mills | 62 | 63 | 61 | 68 | 71 |
| 313241 | Weft knit fabric mills | 71 | 71 | 60 | 69 | 73 |
| 313249 | Other knit fabric & lace mills | 58 | 59 | 63 | 67 | 69 |
| 3133 | Textile & fabric finishing & fabric coating mills | 58 | 64 | 64 | 72 | 76 |
| 31331 | Textile & fabric finishing mills | 58 | 65 | 65 | 74 | 77 |
| 313311 | Broadwoven fabric finishing mills | 55 | 71 | 67 | 74 | 79 |
| 313312 | Textile & fabric finishing mills | 63 | 55 | ^a 59 | 74 | 74 |
| 31332 | Fabric coating mills | 61 | 59 | 58 | 62 | 67 |
| 313320 | Fabric coating mills | 61 | 59 | 58 | 62 | 67 |
| 314 | Textile product mills | 73 | 66 | 70 | 71 | 76 |
| 3141 | Textile furnishings mills | 76 | 73 | 78 | 79 | 83 |
| 31411 | Carpet & rug mills | 78 | 75 | 77 | 79 | 83 |
| 314110 | Carpet & rug mills | 78 | 75 | 77 | 79 | 83 |
| 31412 | Curtain & linen mills | 73 | 72 | 79 | 79 | 82 |
| 314121 | Curtain & drapery mills | ^a 72 | 77 | 76 | 74 | 74 |
| 314129 | Other household textile product mills | 73 | 70 | 80 | 81 | 87 |
| 3149 | Other textile product mills | 69 | 57 | 61 | 62 | 66 |
| 31491 | Textile bag & canvas mills | 59 | 61 | 61 | 60 | 60 |
| 314911 | Textile bag mills | ^a 49 | 67 | 60 | 54 | 53 |
| 314912 | Canvas & related product mills | 66 | 59 | 61 | 65 | 65 |
| 31499 | All other textile product mills | 73 | 55 | 61 | 62 | 69 |
| 314991 | Rope, cordage, & twine mills | 61 | 61 | ^a 56 | 66 | 61 |
| 314992 | Tire cord & tire fabric mills | 89 | 83 | 80 | 83 | 89 |
| 314999 | All other miscellaneous textile product mills | 73 | 53 | 60 | 60 | 68 |
| 315 | Apparel mfg | 66 | 72 | 69 | 75 | 77 |
| 3151 | Apparel knitting mills | 65 | 78 | 78 | 78 | 84 |
| 31511 | Hosiery & sock mills | 75 | 78 | 77 | 78 | 81 |
| 315111 | Sheer hosiery mills | 80 | 77 | 67 | 69 | 78 |
| 315119 | Other hosiery & sock mills | 73 | 78 | 81 | 83 | 83 |
| 3151591 | Other apparel knitting mills | ^a 54 | ^a 77 | 80 | 77 | 86 |
| 3151592 | Outerwear knitting mills | ^a 52 | ^a 75 | 78 | 76 | 90 |
| 3151592 | Underwear & nightwear knitting mills | 68 | ^a 91 | ^a 88 | 82 | 72 |
| 3152 | Cut & sew apparel mfg | 66 | ^a 72 | ^a 68 | ^a 75 | ^a 76 |
| 31521 | Cut & sew apparel contractors | 68 | 69 | 71 | 66 | 78 |
| 315211 | Men's & boys' cut & sew apparel contractors | 79 | 75 | ^a 77 | 76 | 75 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 63 | 66 | 68 | 63 | ^a 79 |
| 31522 | Men's & boys' cut & sew apparel mfg | ^a 67 | 75 | 71 | 80 | ^a 81 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | ^a 71 | ^a 60 | ^a 54 | ^a 70 | ^a 69 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | ^a 50 | ^a 60 | 71 | 76 | 83 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | ^a 70 | ^a 73 | 65 | ^a 72 | 69 |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 69 | 80 | 76 | 91 | ^a 91 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 90 | 88 | 89 | 88 | 86 |
| 315228 | Men's & boys' cut & sew other outerwear mfg | ^a 57 | 77 | ^a 75 | 76 | 79 |
| 31523 | Women's & girls' cut & sew apparel mfg | ^a 65 | ^a 70 | ^a 65 | 73 | ^a 73 |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 45 | ^a 63 | 53 | 73 | 73 |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 82 | 83 | ^a 78 | 82 | ^a 97 |
| 315233 | Women's & girls' cut & sew dress mfg | ^a 51 | ^a 58 | ^a 49 | 64 | ^a 68 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | ^a 60 | ^a 61 | ^a 75 | 73 | ^a 40 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | ^a 87 | ^a 78 | ^a 76 | 76 | ^a 98 |
| 31529 | Other cut & sew apparel mfg | 69 | ^a 78 | 74 | 75 | 68 |
| 315291 | Infants' cut & sew apparel mfg | 92 | (NA) | ^a 91 | 85 | 79 |
| 315292 | Fur & leather apparel mfg | ^a 78 | ^a 61 | ^a 68 | 68 | ^a 71 |
| 315299 | All other cut & sew apparel mfg | 61 | ^a 60 | 68 | 69 | 61 |
| 3159 | Apparel accessories & other apparel mfg | 61 | 64 | ^a 62 | 70 | 72 |
| 31599 | Apparel accessories & other apparel mfg | 61 | 64 | ^a 62 | 70 | 72 |
| 315991 | Hat, cap, & millinery mfg | 59 | 59 | ^a 59 | 72 | 71 |
| 315992 | Glove & mitten mfg | 37 | ^a 51 | 56 | 77 | 73 |
| 315993 | Men's & boys' neckwear mfg | 71 | 76 | 70 | 69 | 77 |
| 315999 | Other apparel accessories & other apparel mfg | 66 | 68 | 64 | 68 | 71 |

See footnotes at end of table.

2 Survey of Plant Capacity

Current Industrial Reports

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Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|--|----------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 316 | Leather & allied product mfg | 58 | 54 | 56 | 65 | 72 |
| 3161 | Leather & hide tanning & finishing | 70 | 63 | 57 | 70 | 74 |
| 31611 | Leather & hide tanning & finishing | 70 | 63 | 57 | 70 | 74 |
| 316110 | Leather & hide tanning & finishing | 70 | 63 | 57 | 70 | 74 |
| 3162 | Footwear mfg | 52 | a48 | a56 | 64 | 67 |
| 31621 | Footwear mfg | 52 | a48 | a56 | 64 | 67 |
| 316211 | Rubber & plastics footwear mfg | 54 | a41 | a55 | 65 | 72 |
| 316212 | House slipper mfg | 69 | 57 | 62 | 69 | 64 |
| 316213 | Men's footwear (except athletic) mfg | 59 | 61 | 61 | 59 | 67 |
| 316214 | Women's footwear (except athletic) mfg | a27 | a26 | a37 | a70 | 54 |
| 316219 | Other footwear mfg | a69 | a79 | a69 | a74 | 83 |
| 3169 | Other leather & allied product mfg | 57 | 56 | 54 | 63 | a76 |
| 31699 | Other leather & allied product mfg | 57 | 56 | 54 | 63 | a76 |
| 316991 | Luggage mfg | 47 | 48 | 45 | 53 | a71 |
| 316992 | Women's handbag & purse mfg | 69 | 62 | a77 | 80 | a80 |
| 316993 | Personal leather good (except women's handbag & purse) mfg | a74 | a55 | a53 | 86 | 79 |
| 316999 | All other leather good mfg | a73 | 78 | 79 | 81 | 84 |
| 321 | Wood product mfg | 70 | 67 | 66 | 69 | 75 |
| 3211 | Sawmills & wood preservation | 73 | 75 | 69 | 74 | 81 |
| 32111 | Sawmills & wood preservation | 73 | 75 | 69 | 74 | 81 |
| 321113 | Sawmills | 74 | 75 | 70 | 75 | 81 |
| 321114 | Wood preservation | 66 | 71 | 64 | 64 | 73 |
| 3212 | Veneer, plywood, & engineered wood product mfg | 76 | 66 | 66 | 75 | 81 |
| 32121 | Veneer, plywood, & engineered wood product mfg | 76 | 66 | 66 | 75 | 81 |
| 321211 | Hardwood veneer & plywood mfg | 69 | 67 | 62 | 75 | 83 |
| 321212 | Softwood veneer & plywood mfg | 88 | 86 | 84 | 81 | 83 |
| 321213 | Engineered wood member (except truss) mfg | 73 | 64 | 63 | 73 | 73 |
| 321214 | Truss mfg | 68 | 54 | 55 | 71 | 84 |
| 321219 | Reconstituted wood product mfg | 83 | 72 | 69 | 76 | 79 |
| 3219 | Other wood product mfg | 67 | 65 | 65 | 64 | 70 |
| 32191 | Millwork | 75 | 73 | 73 | 70 | 73 |
| 321911 | Wood window & door mfg | 73 | 72 | 74 | 76 | 78 |
| 321912 | Cut stock, resawing lumber, & planing | 79 | 77 | 77 | 70 | 70 |
| 321918 | Other millwork (including flooring) | 77 | 73 | 68 | 60 | 67 |
| 32192 | Wood container & pallet mfg | 65 | 59 | 57 | 67 | 69 |
| 321920 | Wood container & pallet mfg | 65 | 59 | 57 | 67 | 69 |
| 32199 | All other wood product mfg | 58 | 58 | 59 | 59 | 68 |
| 321991 | Manufactured home (mobile home) mfg | 55 | 54 | 58 | 54 | 69 |
| 321992 | Prefabricated wood building mfg | 69 | 65 | 56 | 61 | 59 |
| 321999 | All other miscellaneous wood product mfg | 56 | 59 | 64 | 70 | 72 |
| 322 | Paper mfg | 81 | 81 | 76 | 79 | 83 |
| 3221 | Pulp, paper, & paperboard mills | 89 | 90 | 83 | 87 | 91 |
| 32211 | Pulp mills | 89 | 87 | 90 | 88 | 91 |
| 322110 | Pulp mills | 89 | 87 | 90 | 88 | 91 |
| 32212 | Paper mills | 87 | 89 | 81 | 87 | 90 |
| 322121 | Paper (except newsprint) mills | 86 | 90 | 80 | 86 | 89 |
| 322122 | Newsprint mills | 95 | 86 | 88 | 96 | 97 |
| 322123 | Paperboard mills | 94 | 93 | 87 | 87 | 93 |
| 322130 | Paperboard mills | 94 | 93 | 87 | 87 | 93 |
| 3222 | Converted paper product mfg | 74 | 73 | 70 | 73 | 76 |
| 32221 | Paperboard container mfg | 76 | 74 | 69 | 73 | 75 |
| 322211 | Corrugated & solid fiber box mfg | 83 | 78 | 70 | 75 | 77 |
| 322212 | Folding paperboard box mfg | 86 | 79 | 73 | 70 | 72 |
| 322213 | Setup paperboard box mfg | 64 | 68 | 69 | 74 | 72 |
| 322214 | Fiber can, tube, drum, & similar products mfg | a35 | a44 | 51 | 63 | 71 |
| 322215 | Nonfolded sanitary food container mfg | 70 | 69 | 71 | 78 | 77 |
| 32222 | Paper bag & coated & treated paper mfg | 69 | 71 | 73 | 74 | 76 |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 69 | 65 | 63 | 64 | 68 |
| 322222 | Coated & laminated paper mfg | 67 | 69 | 72 | 73 | 78 |
| 322223 | Plastics, foil, & coated paper bag mfg | 73 | 73 | 71 | 69 | 56 |
| 322224 | Uncoated paper & multiwall bag mfg | 72 | 79 | 79 | 82 | 77 |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 72 | 81 | 82 | 81 | 82 |
| 322226 | Surface-coated paperboard mfg | 78 | 84 | 82 | 75 | 74 |
| 32223 | Stationery product mfg | 69 | 65 | 66 | 65 | 68 |
| 322231 | Die-cut paper & paperboard office supplies mfg | 76 | 79 | 76 | 75 | 77 |
| 322232 | Envelope mfg | 73 | 75 | 69 | 76 | 79 |
| 322233 | Stationery, tablet, & related product mfg | 58 | 44 | 55 | a47 | 49 |
| 32229 | Other converted paper product mfg | 77 | 76 | 70 | 77 | 83 |
| 322291 | Sanitary paper product mfg | 80 | 79 | 76 | 85 | 88 |
| 322299 | All other converted paper product mfg | 72 | 73 | 63 | 65 | 72 |
| 323 | Printing & related support activities | 68 | 69 | 71 | 75 | 76 |
| 3231 | Printing & related support activities | 68 | 69 | 71 | 75 | 76 |
| 32311 | Printing | 68 | 69 | 71 | 75 | 76 |
| 323110 | Commercial lithographic printing | 72 | 72 | 76 | 81 | 80 |
| 323111 | Commercial gravure printing | 88 | 84 | 78 | 83 | 82 |
| 323112 | Commercial flexographic printing | 75 | 74 | 70 | 75 | 79 |
| 323113 | Commercial screen printing | 66 | a57 | 63 | 63 | 69 |
| 323114 | Quick printing | 67 | 69 | 66 | 68 | 73 |
| 323115 | Digital printing | 82 | a71 | 70 | 63 | 65 |
| 323116 | Manifold business form printing | 52 | 64 | 68 | 68 | 67 |
| 323117 | Book printing | 59 | 64 | 58 | 69 | 72 |
| 323118 | Blankbook, looseleaf binder, & device mfg | 51 | 58 | 52 | 56 | 75 |
| 323119 | Other commercial printing | 68 | 70 | 71 | 68 | 77 |
| 32312 | Support activities for printing | 72 | 69 | 68 | 72 | 76 |
| 323121 | Tradebinding & related work | 66 | 66 | 65 | 72 | 74 |
| 323122 | Prepress services | 75 | 71 | 69 | 72 | 77 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|--|----------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 324 | Petroleum & coal products mfg | 80 | 80 | 80 | 83 | 81 |
| 32411 | Petroleum & coal products mfg | 80 | 80 | 80 | 83 | 81 |
| 324110 | Petroleum refineries | 90 | 91 | 91 | 94 | 93 |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 44 | 43 | 44 | 48 | 55 |
| 324121 | Asphalt paving mixture & block mfg | 33 | 32 | 31 | 36 | 44 |
| 324122 | Asphalt shingle & coating materials mfg | 67 | 66 | 72 | a69 | a73 |
| 32419 | Other petroleum & coal products mfg | 56 | 59 | 57 | 67 | 67 |
| 324191 | Petroleum lubricating oil & grease mfg | 55 | 59 | 57 | 63 | 64 |
| 324199 | All other petroleum & coal products mfg | 63 | 60 | 58 | 85 | 86 |
| 325 | Chemical mfg | 63 | 63 | 68 | 71 | 76 |
| 32511 | Basic chemical mfg | 75 | 72 | 69 | 76 | 82 |
| 325110 | Petrochemical mfg | 80 | 75 | 77 | 92 | 92 |
| 32512 | Industrial gas mfg | 80 | 75 | 77 | 92 | 92 |
| 325120 | Industrial gas mfg | 72 | 75 | 67 | a79 | 79 |
| 32513 | Dye & pigment mfg | 76 | 81 | 71 | 78 | 81 |
| 325131 | Inorganic dye & pigment mfg | 83 | 86 | 78 | 87 | 90 |
| 325132 | Synthetic organic dye & pigment mfg | 68 | 76 | 64 | 69 | 70 |
| 32518 | Other basic inorganic chemical mfg | 65 | 64 | 66 | 68 | 74 |
| 325181 | Alkalies & chlorine mfg | 75 | 76 | 70 | 78 | 85 |
| 325182 | Carbon black mfg | 83 | a78 | 74 | 84 | 92 |
| 325188 | All other basic inorganic chemical mfg | 63 | 62 | 65 | 67 | 72 |
| 32519 | Other basic organic chemical mfg | 83 | 76 | 69 | 81 | 87 |
| 325191 | Gum & wood chemical mfg | 72 | 80 | 78 | 81 | 74 |
| 325192 | Cyclic crude & intermediate mfg | 73 | a83 | a72 | 77 | 77 |
| 325193 | Ethyl alcohol mfg | 97 | 86 | 90 | 85 | 85 |
| 325199 | All other basic organic chemical mfg | 84 | 75 | 67 | 81 | 88 |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 78 | 75 | 72 | 79 | 87 |
| 32521 | Resin & synthetic rubber mfg | 77 | 75 | 72 | 79 | 87 |
| 325211 | Plastics material & resin mfg | 80 | 79 | 77 | 82 | 89 |
| 325212 | Synthetic rubber mfg | 60 | 54 | 51 | 65 | 72 |
| 32522 | Artificial & synthetic fibers & filaments mfg | 85 | 77 | 72 | 81 | 88 |
| 325221 | Cellulosic organic fiber mfg | 90 | 84 | 78 | a80 | a70 |
| 325222 | Noncellulosic organic fiber mfg | 84 | 76 | 72 | 81 | 90 |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 61 | 60 | 69 | 76 | 72 |
| 32531 | Fertilizer mfg | 63 | 66 | 74 | 77 | 85 |
| 325311 | Nitrogenous fertilizer mfg | 83 | 86 | 89 | 81 | 93 |
| 325312 | Phosphatic fertilizer mfg | 85 | 83 | 94 | 89 | 89 |
| 325314 | Fertilizer (mixing only) mfg | 41 | 45 | 51 | a62 | a70 |
| 32532 | Pesticide & other agricultural chemical mfg | 59 | 57 | 66 | 76 | 65 |
| 325320 | Pesticide & other agricultural chemical mfg | 59 | 57 | 66 | 76 | 65 |
| 3254 | Pharmaceutical & medicine mfg | 56 | 58 | 70 | 69 | 77 |
| 32541 | Pharmaceutical & medicine mfg | 56 | 58 | 70 | 69 | 77 |
| 325411 | Medicinal & botanical mfg | 73 | 80 | 88 | a85 | a85 |
| 325412 | Pharmaceutical preparation mfg | 52 | 54 | 66 | 66 | 75 |
| 325413 | In-vitro diagnostic substance mfg | 79 | a84 | a85 | a81 | a89 |
| 325414 | Biological product (except diagnostic) mfg | 69 | 72 | 86 | 76 | 77 |
| 3255 | Paint, coating, & adhesive mfg | 67 | 58 | 56 | 63 | 66 |
| 32551 | Paint & coating mfg | 69 | 61 | 55 | 64 | 69 |
| 325510 | Paint & coating mfg | 69 | 61 | 55 | 64 | 69 |
| 32552 | Adhesive mfg | 63 | 53 | 57 | 61 | 59 |
| 325520 | Adhesive mfg | 63 | 53 | 57 | 61 | 59 |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 62 | 67 | 64 | 62 | 68 |
| 32561 | Soap & cleaning compound mfg | 64 | 66 | 67 | 64 | 71 |
| 325611 | Soap & other detergent mfg | 59 | 68 | 66 | 68 | 69 |
| 325612 | Polish & other sanitation good mfg | 70 | 61 | 66 | 53 | 66 |
| 325613 | Surface active agent mfg | 73 | 76 | 75 | 76 | 84 |
| 32562 | Toilet preparation mfg | 60 | 68 | 62 | 61 | 64 |
| 325620 | Toilet preparation mfg | 60 | 68 | 62 | 61 | 64 |
| 3259 | Other chemical product mfg | 68 | 66 | 64 | 71 | 75 |
| 32591 | Printing ink mfg | 76 | 60 | 60 | a59 | 64 |
| 325910 | Printing ink mfg | 76 | 60 | 60 | a59 | 64 |
| 32592 | Explosives mfg | 70 | 69 | 71 | 68 | 63 |
| 325920 | Explosives mfg | 70 | 69 | 71 | 68 | 63 |
| 32599 | All other chemical product & preparation mfg | 67 | 67 | 65 | 72 | 77 |
| 325991 | Custom compounding of purchased resin | 71 | 69 | 66 | 73 | 80 |
| 325992 | Photographic film, paper, plate, & chemical mfg | 72 | 69 | 65 | 80 | 85 |
| 325998 | All other miscellaneous chemical product & preparation mfg | 61 | 63 | 64 | 66 | 70 |
| 326 | Plastics & rubber products mfg | 73 | 68 | 66 | 71 | 76 |
| 3261 | Plastics product mfg | 72 | 66 | 65 | 69 | 74 |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 72 | 70 | 67 | 74 | 78 |
| 326111 | Unsupported plastics bag mfg | 73 | 65 | 69 | a70 | 78 |
| 326112 | Unsupported plastics packaging film & sheet mfg | 67 | 70 | 70 | 73 | 78 |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 73 | 73 | 66 | 77 | 79 |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 72 | 69 | 66 | 74 | 81 |
| 326121 | Unsupported plastics profile shape mfg | 70 | 69 | 69 | 75 | 76 |
| 326122 | Plastics pipe, pipe fitting mfg | 74 | 69 | 64 | 72 | 88 |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 70 | 62 | 64 | 59 | 63 |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 70 | 62 | 64 | 59 | 63 |
| 32614 | Polystyrene foam product mfg | 77 | 78 | 76 | 80 | 79 |
| 326140 | Polystyrene foam product mfg | 77 | 78 | 76 | 80 | 79 |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 69 | 71 | 66 | 67 | 68 |
| 326150 | Urethane & other foam product (except polystyrene) mfg | 69 | 71 | 66 | 67 | 68 |
| 32616 | Plastics bottle mfg | 77 | 79 | 67 | 75 | 77 |
| 326160 | Plastics bottle mfg | 77 | 79 | 67 | 75 | 77 |
| 32619 | Other plastics product mfg | 72 | 63 | 63 | 66 | 73 |
| 326191 | Plastics plumbing fixture mfg | 56 | 54 | 57 | 61 | 63 |
| 326192 | Resilient floor covering mfg | 67 | 62 | 69 | 71 | 73 |
| 326199 | All other plastics product mfg | 73 | 63 | 64 | 66 | 73 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|---|----------------------|-----------------|-----------------|-----------------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 326 | Plastics & rubber products mfg—Con. | | | | | |
| 3262 | Rubber product mfg | 77 | 74 | 72 | 79 | 84 |
| 32621 | Tire mfg | 85 | 85 | 81 | 87 | 93 |
| 326211 | Tire mfg (except retreading) | 85 | 87 | 82 | 88 | 95 |
| 326212 | Tire retreading | 89 | 81 | 67 | 67 | 68 |
| 32622 | Rubber & plastics hoses & belting mfg | 66 | 61 | 66 | 72 | 75 |
| 326220 | Rubber & plastics hoses & belting mfg | 66 | 61 | 66 | 72 | 75 |
| 32629 | Other rubber product mfg | 73 | 70 | 67 | 75 | 79 |
| 326291 | Rubber product mfg for mechanical use | 75 | 74 | 68 | 77 | 81 |
| 326299 | All other rubber product mfg | 71 | 66 | 67 | 73 | 78 |
| 327 | Nonmetallic mineral product mfg | 61 | 66 | 66 | 70 | 76 |
| 3271 | Clay product & refractory mfg | 69 | 70 | 69 | 74 | 75 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 64 | 66 | 68 | 78 | 76 |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | ^a 89 | 92 | 82 | 89 | 90 |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 52 | 58 | 64 | 74 | 71 |
| 327113 | Porcelain electrical supply mfg | 61 | 59 | 60 | 73 | 71 |
| 32712 | Clay building material & refractories mfg | 74 | 74 | 70 | 71 | 73 |
| 327121 | Brick & structural clay tile mfg | 91 | 88 | 88 | 89 | 89 |
| 327122 | Ceramic wall & floor tile mfg | 72 | 65 | 62 | 63 | 70 |
| 327123 | Other structural clay product mfg | 72 | 85 | 77 | 79 | 70 |
| 327124 | Clay refractory mfg | 57 | 64 | 52 | 53 | 66 |
| 327125 | Nonclay refractory mfg | 65 | ^a 67 | 69 | 70 | 66 |
| 3272 | Glass & glass product mfg | 74 | 73 | 65 | 80 | 85 |
| 32721 | Glass & glass product mfg | 74 | 73 | 65 | 80 | 85 |
| 327211 | Flat glass mfg | 83 | 79 | 76 | 82 | 89 |
| 327212 | Other pressed & blown glass & glassware mfg | 67 | 68 | 57 | 78 | 82 |
| 327213 | Glass container mfg | 94 | 95 | 94 | 92 | 91 |
| 327215 | Glass product mfg made of purchased glass | 70 | 68 | 59 | 76 | 84 |
| 3273 | Cement & concrete product mfg | 50 | 59 | 63 | 62 | 70 |
| 32731 | Cement mfg | 88 | 84 | 83 | 84 | 87 |
| 327310 | Cement mfg | 88 | 84 | 83 | 84 | 87 |
| 32732 | Ready-mix concrete mfg | 35 | 47 | 52 | 50 | 62 |
| 327320 | Ready-mix concrete mfg | 35 | 47 | 52 | 50 | 62 |
| 32733 | Concrete pipe, brick, & block mfg | 74 | 77 | 71 | 72 | 71 |
| 327331 | Concrete block & brick mfg | 76 | 79 | 73 | 75 | 75 |
| 327332 | Concrete pipe mfg | 72 | 75 | 70 | 68 | 66 |
| 32739 | Other concrete product mfg | 64 | 63 | 71 | 73 | 75 |
| 327390 | Other concrete product mfg | 64 | 63 | 71 | 73 | 75 |
| 3274 | Lime & gypsum product mfg | 84 | 76 | 76 | 83 | 87 |
| 32741 | Lime mfg | 82 | 75 | 71 | 72 | 74 |
| 327410 | Lime mfg | 82 | 75 | 71 | 72 | 74 |
| 32742 | Gypsum product mfg | 84 | 77 | 77 | 86 | 92 |
| 327420 | Gypsum product mfg | 84 | 77 | 77 | 86 | 92 |
| 3279 | Other nonmetallic mineral product mfg | 74 | 71 | 71 | 71 | 76 |
| 32791 | Abrasive product mfg | 65 | 67 | 66 | 62 | 67 |
| 327910 | Abrasive product mfg | 65 | 67 | 66 | 62 | 67 |
| 32799 | All other nonmetallic mineral product mfg | 78 | 73 | 74 | 77 | 82 |
| 327991 | Cut stone & stone product mfg | 70 | 69 | 76 | 60 | 67 |
| 327992 | Ground or treated mineral & earth mfg | 77 | 70 | 59 | 82 | 88 |
| 327993 | Mineral wool mfg | 85 | 85 | 86 | 83 | 88 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 75 | 59 | 70 | 73 | 73 |
| 331 | Primary metal mfg | 72 | 71 | 70 | 74 | 81 |
| 3311 | Iron & steel mills & ferroalloy mfg | 86 | 88 | 79 | 74 | 89 |
| 33111 | Iron & steel mills & ferroalloy mfg | 86 | 88 | 79 | 74 | 89 |
| 331111 | Iron & steel mills | 87 | 89 | 79 | 74 | 90 |
| 331112 | Electrometallurgical ferroalloy product mfg | 70 | 77 | 68 | 71 | 85 |
| 3312 | Steel product mfg from purchased steel | 67 | 65 | 61 | 70 | 78 |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 64 | 65 | 63 | 69 | 76 |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 64 | 65 | 63 | 69 | 76 |
| 33122 | Rolling & drawing of purchased steel | 70 | 66 | 59 | 72 | 79 |
| 331221 | Cold-rolled steel shape mfg | 71 | 66 | 53 | 68 | 76 |
| 331222 | Steel wire drawing | 69 | 66 | 66 | 75 | 82 |
| 3313 | Alumina & aluminum production & processing | 76 | 74 | ^a 70 | 79 | 85 |
| 33131 | Alumina & aluminum production & processing | 76 | 74 | ^a 70 | 79 | 85 |
| 331311 | Alumina refining | 76 | ^a 79 | ^a 84 | ^a 72 | 71 |
| 331312 | Primary aluminum production | 72 | ^a 70 | ^a 64 | 79 | 86 |
| 331314 | Secondary smelting & alloying of aluminum | 75 | 75 | 74 | 74 | 85 |
| 331315 | Aluminum sheet, plate, & foil mfg | 86 | ^a 87 | ^a 75 | 83 | 89 |
| 331316 | Aluminum extruded product mfg | 71 | 66 | 67 | 76 | 81 |
| 331319 | Other aluminum rolling & drawing | ^a 70 | 65 | 59 | 74 | 80 |
| 3314 | Nonferrous metal (except aluminum) production & processing | 70 | 67 | 71 | 79 | 77 |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 66 | 73 | 73 | 81 | 78 |
| 331411 | Primary smelting & refining of copper | 56 | 68 | 73 | 77 | 81 |
| 331419 | Other nonferrous metal primary smelting & refining | 78 | 78 | 73 | 83 | 76 |
| 33142 | Copper rolling, drawing, extruding, & alloying | 75 | 76 | 74 | 86 | 89 |
| 331421 | Copper rolling, drawing, & extruding | 75 | 78 | 73 | 86 | 91 |
| 331422 | Copper wire (except mechanical) drawing | 80 | 80 | 82 | 89 | 93 |
| 331423 | Secondary smelting, refining, & alloying of copper | 68 | ^a 60 | 67 | 79 | 72 |
| 331429 | Other nonferrous metal rolling, drawing, extruding, & alloying | 69 | 60 | 69 | 73 | 70 |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 64 | 61 | 71 | 74 | 70 |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 83 | ^a 56 | 64 | 71 | 69 |
| 3315 | Foundries | 63 | 63 | 64 | 72 | 74 |
| 33151 | Ferrous metal foundries | 63 | 62 | 65 | 72 | 72 |
| 331511 | Iron foundries | 63 | 65 | 68 | 75 | 76 |
| 331512 | Steel investment foundries | 65 | 54 | 64 | 68 | 66 |
| 331513 | Steel foundries (except investment) | 64 | 58 | 55 | 66 | 66 |
| 33152 | Nonferrous metal foundries | 63 | 65 | 62 | 71 | 76 |
| 331521 | Aluminum die-casting foundries | 66 | 67 | 65 | 74 | 81 |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 64 | 61 | 59 | 69 | 73 |
| 331524 | Aluminum foundries (except die-casting) | 60 | 64 | 62 | 70 | 75 |
| 331525 | Copper foundries (except die-casting) | 56 | 58 | 56 | 64 | 69 |
| 331528 | Other nonferrous foundries (except die-casting) | 76 | 75 | ^a 75 | 78 | 79 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|--|----------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 332 | Fabricated metal product mfg | 61 | 59 | 60 | 68 | 70 |
| 3321 | Forging & stamping | 58 | 56 | 57 | 65 | 68 |
| 33211 | Forging & stamping | 58 | 56 | 57 | 65 | 68 |
| 332111 | Iron & steel forging | 56 | 57 | 57 | 66 | 67 |
| 332112 | Nonferrous forging | 67 | 60 | 65 | 65 | 72 |
| 332114 | Custom roll forming | 60 | 53 | 54 | 60 | 64 |
| 332115 | Crown & closure mfg | 62 | 53 | 57 | 67 | 69 |
| 332116 | Metal stamping | 56 | 55 | 57 | 64 | 67 |
| 332117 | Powder metallurgy part mfg | 73 | 68 | 66 | 77 | 81 |
| 3322 | Cutlery & handtool mfg | 61 | 62 | 63 | 71 | 73 |
| 33221 | Cutlery & handtool mfg | 61 | 62 | 63 | 71 | 73 |
| 332211 | Cutlery & flatware (except precious) mfg | 54 | 65 | 57 | 72 | 74 |
| 332212 | Hand & edge tool mfg | 61 | 58 | 63 | 71 | 72 |
| 332213 | Saw blade & handsaw mfg | 73 | 72 | 69 | 75 | 75 |
| 332214 | Kitchen utensil, pot, & pan mfg | ^a 71 | 67 | 63 | 64 | 71 |
| 3323 | Architectural & structural metals mfg | 58 | 57 | 60 | 65 | 67 |
| 33231 | Plate work & fabricated structural product mfg | 59 | 58 | 65 | 68 | 73 |
| 332311 | Prefabricated metal building & component mfg | 59 | 60 | 64 | 69 | 71 |
| 332312 | Fabricated structural metal mfg | 60 | 58 | 67 | 69 | 76 |
| 332313 | Plate work mfg | 56 | 53 | 58 | 64 | 63 |
| 33232 | Ornamental & architectural metal products mfg | 58 | 56 | 58 | 63 | 64 |
| 332321 | Metal window & door mfg | 61 | 60 | 58 | 60 | 63 |
| 332322 | Sheet metal work mfg | 54 | 53 | 56 | 65 | 64 |
| 332323 | Ornamental & architectural metal work mfg | 66 | 59 | 61 | 66 | 65 |
| 3324 | Boiler, tank, & shipping container mfg | 67 | 64 | 66 | 70 | 71 |
| 33241 | Power boiler & heat exchanger mfg | 62 | 54 | 60 | 60 | 63 |
| 332410 | Power boiler & heat exchanger mfg | 62 | 54 | 60 | 60 | 63 |
| 33242 | Metal tank (heavy gauge) mfg | 56 | 58 | 57 | 63 | 66 |
| 332420 | Metal tank (heavy gauge) mfg | 56 | 58 | 57 | 63 | 66 |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 76 | 75 | 74 | 79 | 79 |
| 332431 | Metal can mfg | 79 | 77 | 76 | 84 | 84 |
| 332439 | Other metal container mfg | 68 | 66 | 68 | 65 | 66 |
| 3325 | Hardware mfg | 62 | 67 | 69 | 73 | 74 |
| 33251 | Hardware mfg | 62 | 67 | 69 | 73 | 74 |
| 332510 | Hardware mfg | 62 | 67 | 69 | 73 | 74 |
| 3326 | Spring & wire product mfg | 64 | 65 | 62 | 69 | 73 |
| 33261 | Spring & wire product mfg | 64 | 65 | 62 | 69 | 73 |
| 332611 | Spring (heavy gauge) mfg | 64 | 71 | 66 | 67 | 70 |
| 332612 | Spring (light gauge) mfg | 65 | 64 | 61 | 67 | 72 |
| 332618 | Other fabricated wire product mfg | 64 | 65 | 62 | 70 | 74 |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 58 | 53 | 53 | 66 | 70 |
| 33271 | Machine shops | 57 | 50 | 51 | 66 | 71 |
| 332710 | Machine shops | 57 | 50 | 51 | 66 | 71 |
| 33272 | Turned product & screw, nut, & bolt mfg | 61 | 59 | 59 | 67 | 70 |
| 332721 | Precision turned product mfg | 58 | 54 | 55 | 64 | 67 |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 65 | 65 | 65 | 70 | 73 |
| 3328 | Coating, engraving, heat treating, & allied activities | 63 | 61 | 63 | 71 | 74 |
| 33281 | Coating, engraving, heat treating, & allied activities | 63 | 61 | 63 | 71 | 74 |
| 332811 | Metal heat treating | 71 | 65 | 65 | 87 | 80 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 70 | 71 | 71 | 69 | 73 |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 55 | 52 | 55 | 66 | 71 |
| 3329 | Other fabricated metal product mfg | 65 | 64 | 65 | 70 | 71 |
| 33291 | Metal valve mfg | 65 | 64 | 64 | 68 | 68 |
| 332911 | Industrial valve mfg | 63 | 63 | 63 | 65 | 67 |
| 332912 | Fluid power valve & hose fitting mfg | 67 | 64 | 65 | 71 | 68 |
| 332913 | Plumbing fixture fitting & trim mfg | 67 | 66 | 67 | 69 | 69 |
| 332919 | Other metal valve & pipe fitting mfg | 65 | 62 | 62 | 70 | 74 |
| 33299 | All other fabricated metal product mfg | 66 | 64 | 66 | 71 | 74 |
| 332991 | Ball & roller bearing mfg | 71 | 68 | 69 | 73 | 80 |
| 332992 | Small arms ammunition mfg | 63 | 69 | 66 | 64 | 69 |
| 332993 | Ammunition (except small arms) mfg | 52 | 52 | 65 | 55 | 59 |
| 332994 | Small arms mfg | 71 | 72 | 66 | 76 | 77 |
| 332995 | Other ordnance & accessories mfg | 63 | 67 | 69 | 66 | 66 |
| 332996 | Fabricated pipe & pipe fitting mfg | 62 | 63 | 67 | 70 | 69 |
| 332997 | Industrial pattern mfg | 55 | 69 | 61 | 71 | 77 |
| 332998 | Enameled iron & metal sanitary ware mfg | 72 | 68 | 81 | 88 | 90 |
| 332999 | All other miscellaneous fabricated metal product mfg | 66 | 62 | 62 | 72 | 73 |
| 333 | Machinery mfg | 59 | 57 | 54 | 66 | 66 |
| 3331 | Agriculture, construction, & mining machinery mfg | 60 | 55 | 58 | 64 | 62 |
| 33311 | Agricultural implement mfg | 57 | 52 | 53 | 66 | 59 |
| 333111 | Farm machinery & equipment mfg | 55 | 53 | 54 | 66 | 56 |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 63 | 50 | 51 | 65 | 71 |
| 33312 | Construction machinery mfg | 65 | 57 | 62 | 66 | 66 |
| 333120 | Construction machinery mfg | 65 | 57 | 62 | 66 | 66 |
| 33313 | Mining & oil & gas field machinery mfg | 57 | 54 | 61 | 59 | 60 |
| 333131 | Mining machinery & equipment mfg | 57 | 53 | 59 | 57 | 64 |
| 333132 | Oil & gas field machinery & equipment mfg | 57 | 54 | 62 | 60 | 59 |
| 3332 | Industrial machinery mfg | 52 | 51 | 45 | 71 | 65 |
| 33321 | Sawmill & woodworking machinery mfg | 56 | 49 | 53 | 63 | 68 |
| 333210 | Sawmill & woodworking machinery mfg | 56 | 49 | 53 | 63 | 68 |
| 33322 | Plastics & rubber industry machinery mfg | 57 | 56 | 60 | 72 | 75 |
| 333220 | Plastics & rubber industry machinery mfg | 57 | 56 | 60 | 72 | 75 |
| 33329 | Other industrial machinery mfg | 52 | 50 | 44 | 71 | 63 |
| 333291 | Paper industry machinery mfg | 68 | 62 | 58 | 64 | 60 |
| 333292 | Textile machinery mfg | ^a 57 | ^a 57 | ^a 51 | ^a 62 | 56 |
| 333293 | Printing machinery & equipment mfg | 65 | 58 | 55 | 69 | 67 |
| 333294 | Food product machinery mfg | 55 | 52 | 62 | 67 | 72 |
| 333295 | Semiconductor machinery mfg | 43 | 44 | 36 | ^a 80 | ^a 59 |
| 333298 | All other industrial machinery mfg | 56 | 54 | 58 | 66 | 68 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|---|----------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 333 | Machinery mfg—Con. | | | | | |
| 3333 | Commercial & service industry machinery mfg | 58 | 55 | 54 | 62 | 66 |
| 33331 | Commercial & service industry machinery mfg | 58 | 55 | 54 | 62 | 66 |
| 333311 | Automatic vending machine mfg | 44 | 41 | 40 | 60 | 64 |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 33 | 28 | 33 | 62 | 69 |
| 333313 | Office machinery mfg | ^a 43 | ^a 56 | ^a 51 | 70 | 65 |
| 333314 | Optical instrument & lens mfg | 71 | 66 | 64 | 70 | 69 |
| 333315 | Photographic & photocopying equipment mfg | 70 | 59 | 54 | 53 | 62 |
| 333319 | Other commercial & service industry machinery mfg | 60 | 55 | 56 | 69 | 69 |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 62 | 60 | 59 | 66 | 67 |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 62 | 60 | 59 | 66 | 67 |
| 333411 | Air purification equipment mfg | 62 | 59 | 60 | 67 | 62 |
| 333412 | Industrial & commercial fan & blower mfg | 64 | 55 | 57 | 65 | 65 |
| 333414 | Heating equipment (except warm air furnaces) mfg | 59 | 59 | 58 | 64 | 67 |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 62 | 60 | 59 | 66 | 67 |
| 3335 | Metalworking machinery mfg | 58 | 57 | 51 | 68 | 70 |
| 33351 | Metalworking machinery mfg | 58 | 57 | 51 | 68 | 70 |
| 333511 | Industrial mold mfg | 58 | 64 | 38 | 72 | 74 |
| 333512 | Machine tool (metal cutting types) mfg | 49 | 47 | 47 | 61 | 68 |
| 333513 | Machine tool (metal forming types) mfg | 49 | 46 | 50 | 66 | 68 |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 60 | 57 | 58 | 67 | 71 |
| 333515 | Cutting tool & machine tool accessory mfg | 67 | 60 | 60 | 72 | 68 |
| 333516 | Rolling mill machinery & equipment mfg | 56 | 58 | 55 | 65 | 68 |
| 333518 | Other metalworking machinery mfg | 57 | 58 | 58 | 70 | 66 |
| 3336 | Engine, turbine, & power transmission equipment mfg | 67 | 61 | 59 | 66 | 67 |
| 33361 | Engine, turbine, & power transmission equipment mfg | 67 | 61 | 59 | 66 | 67 |
| 333611 | Turbine & turbine generator set unit mfg | ^a 78 | ^a 88 | 88 | 75 | 53 |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 53 | 53 | 53 | 63 | 64 |
| 333613 | Mechanical power transmission equipment mfg | 51 | 50 | 51 | 54 | 61 |
| 333618 | Other engine equipment mfg | 67 | 53 | 55 | 67 | 77 |
| 3339 | Other general-purpose machinery mfg | 59 | 58 | 60 | 66 | 67 |
| 33391 | Pump & compressor mfg | 59 | 63 | 62 | 61 | 62 |
| 333911 | Pump & pumping equipment mfg | 64 | 67 | 62 | 58 | 60 |
| 333912 | Air & gas compressor mfg | 52 | 56 | 62 | 66 | 64 |
| 333913 | Measuring & dispensing pump mfg | ^a 74 | ^a 70 | ^a 63 | ^a 58 | 67 |
| 33392 | Material handling equipment mfg | 59 | 55 | 55 | 67 | 71 |
| 333921 | Elevator & moving stairway mfg | 66 | 70 | 73 | 75 | 78 |
| 333922 | Conveyor & conveying equipment mfg | 58 | 55 | 57 | 69 | 71 |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 59 | 49 | 50 | 65 | 73 |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 58 | 52 | 51 | 64 | 67 |
| 33399 | All other general-purpose machinery mfg | 59 | 58 | 61 | 68 | 68 |
| 333991 | Power-driven handtool mfg | 75 | 75 | 75 | 79 | 80 |
| 333992 | Welding & soldering equipment mfg | 41 | 50 | 57 | 69 | 72 |
| 333993 | Packaging machinery mfg | 60 | 62 | 60 | 62 | 67 |
| 333994 | Industrial process furnace & oven mfg | 54 | 49 | 51 | 67 | 63 |
| 333995 | Fluid power cylinder & actuator mfg | 66 | 62 | 66 | 69 | 67 |
| 333996 | Fluid power pump & motor mfg | 64 | 62 | 63 | 67 | 76 |
| 333997 | Scale & balance (except laboratory) mfg | 58 | 50 | 49 | 56 | 66 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 61 | 55 | 61 | 66 | 62 |
| 334 | Computer & electronic product mfg | 53 | 52 | 57 | 73 | 73 |
| 3341 | Computer & peripheral equipment mfg | 65 | 62 | ^a 62 | 66 | 69 |
| 33411 | Computer & peripheral equipment mfg | 65 | 62 | ^a 62 | 66 | 69 |
| 334111 | Electronic computer mfg | 67 | 65 | ^a 66 | ^a 64 | 66 |
| 334112 | Computer storage device mfg | 55 | ^a 51 | ^a 49 | 65 | 82 |
| 334113 | Computer terminal mfg | ^a 94 | 51 | ^a 38 | 44 | ^a 45 |
| 334119 | Other computer peripheral equipment mfg | 71 | ^a 66 | 69 | 77 | 78 |
| 3342 | Communications equipment mfg | ^a 32 | ^a 35 | ^a 52 | 75 | 77 |
| 33421 | Telephone apparatus mfg | ^a 24 | ^a 27 | ^a 46 | 77 | 82 |
| 334210 | Telephone apparatus mfg | ^a 24 | ^a 27 | ^a 46 | 77 | 82 |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 52 | ^a 56 | ^a 65 | ^a 73 | 71 |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 52 | ^a 56 | ^a 65 | ^a 73 | 71 |
| 33429 | Other communications equipment mfg | 52 | ^a 56 | ^a 65 | ^a 73 | 71 |
| 334290 | Other communications equipment mfg | 63 | 66 | 66 | 71 | 78 |
| 3343 | Audio & video equipment mfg | 57 | 54 | 58 | 57 | 58 |
| 33431 | Audio & video equipment mfg | 57 | 54 | 58 | 57 | 58 |
| 334310 | Audio & video equipment mfg | 57 | 54 | 58 | 57 | 58 |
| 3344 | Semiconductor & other electronic component mfg | 70 | 58 | ^a 56 | 82 | 81 |
| 33441 | Semiconductor & other electronic component mfg | 70 | 58 | ^a 56 | 82 | 81 |
| 334411 | Electron tube mfg | 74 | 73 | 64 | 80 | 77 |
| 334412 | Bare printed circuit board mfg | 60 | 51 | ^a 49 | 77 | 78 |
| 334413 | Semiconductor & related device mfg | 79 | 65 | ^a 57 | ^a 87 | ^a 86 |
| 334414 | Electronic capacitor mfg | 57 | 51 | ^a 44 | 86 | 83 |
| 334415 | Electronic resistor mfg | 50 | 47 | 45 | 67 | 63 |
| 334416 | Electronic coil, transformer, & other inductor mfg | 50 | 45 | 51 | 67 | 67 |
| 334417 | Electronic connector mfg | 65 | 53 | 64 | 75 | 67 |
| 334418 | Printed circuit assembly (electronic assembly) mfg | ^a 63 | 47 | ^a 62 | 75 | 69 |
| 334419 | Other electronic component mfg | 49 | 48 | 48 | 72 | 68 |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 63 | 60 | 61 | 65 | 64 |
| 33451 | Navigational, measuring, medical, & control instruments mfg | 63 | 60 | 61 | 65 | 64 |
| 334510 | Electromedical & electrotherapeutic apparatus mfg | 75 | 79 | 75 | 75 | 70 |
| 334511 | Search, detection, navigation, & guidance instrument mfg | ^a 67 | 59 | 59 | 59 | 61 |
| 334512 | Automatic environmental control mfg | 62 | 49 | 67 | 71 | 74 |
| 334513 | Industrial process control instrument mfg | 55 | 58 | 58 | 66 | 62 |
| 334514 | Totalizing fluid meter & counting device mfg | 70 | 60 | 70 | 70 | 74 |
| 334515 | Electricity measuring & testing instrument mfg | 52 | 51 | 55 | 69 | 68 |
| 334516 | Analytical laboratory instrument mfg | 59 | 62 | 63 | 66 | 61 |
| 334517 | Irradiation apparatus mfg | 77 | 79 | 71 | 75 | 72 |
| 334518 | Watch, clock, & part mfg | 46 | 51 | ^a 55 | 61 | 62 |
| 334519 | Other measuring & controlling device mfg | 53 | 59 | 57 | 64 | 61 |
| 3346 | Mfg & reproducing magnetic & optical media | 67 | 73 | 79 | 76 | 73 |
| 33461 | Mfg & reproducing magnetic & optical media | 67 | 73 | 79 | 76 | ^a 73 |
| 334611 | Software reproducing | 78 | 81 | 75 | 70 | ^a 77 |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 63 | 72 | 78 | 84 | 72 |
| 334613 | Magnetic & optical recording media mfg | 81 | 77 | 80 | 69 | 73 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|---|----------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 335 | Electrical equipment, appliance, & component mfg | 64 | 60 | 62 | 70 | 72 |
| 3351 | Electric lighting equipment mfg | 60 | 58 | 59 | 66 | 68 |
| 33511 | Electric lamp bulb & part mfg | 61 | 67 | 63 | 75 | 74 |
| 335110 | Electric lamp bulb & part mfg | 61 | 67 | 63 | 75 | 74 |
| 33512 | Lighting fixture mfg | 60 | 56 | 57 | 64 | 66 |
| 335121 | Residential electric lighting fixture mfg | ^a 62 | ^a 52 | 46 | 59 | 58 |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 55 | 54 | 58 | 63 | 66 |
| 335129 | Other lighting equipment mfg | 67 | 62 | 66 | 69 | 73 |
| 3352 | Household appliance mfg | 78 | 72 | 70 | 70 | 75 |
| 33521 | Small electrical appliance mfg | 84 | 68 | 69 | 68 | 70 |
| 335211 | Electric housewares & household fan mfg | 88 | 65 | 64 | 61 | 66 |
| 335212 | Household vacuum cleaner mfg | 80 | 71 | 74 | 77 | 73 |
| 33522 | Major appliance mfg | 76 | 74 | 71 | 71 | 77 |
| 335221 | Household cooking appliance mfg | 57 | 56 | 50 | 55 | 59 |
| 335222 | Household refrigerator & home freezer mfg | 84 | 81 | 83 | 75 | 81 |
| 335224 | Household laundry equipment mfg | 85 | 87 | 90 | 88 | 87 |
| 335228 | Other major household appliance mfg | 81 | 74 | 71 | 71 | 83 |
| 3353 | Electrical equipment mfg | 59 | 59 | 61 | 67 | 70 |
| 33531 | Electrical equipment mfg | 59 | 59 | 61 | 67 | 70 |
| 335311 | Power, distribution, & specialty transformer mfg | 61 | 63 | 71 | 75 | 78 |
| 335312 | Motor & generator mfg | 62 | 60 | 61 | 63 | 70 |
| 335313 | Switchgear & switchboard apparatus mfg | 63 | 64 | 66 | 77 | 74 |
| 335314 | Relay & industrial control mfg | 53 | 54 | 54 | 62 | 64 |
| 3359 | Other electrical equipment & component mfg | 64 | 58 | 62 | 74 | 75 |
| 33591 | Battery mfg | 65 | 57 | 64 | 71 | 81 |
| 335911 | Storage battery mfg | 63 | ^a 52 | ^a 62 | 76 | 80 |
| 335912 | Primary battery mfg | 68 | 64 | 67 | 65 | 81 |
| 33592 | Communication & energy wire & cable mfg | 64 | 53 | 62 | 83 | 80 |
| 335921 | Fiber optic cable mfg | ^a 52 | ^a 45 | ^a 60 | 84 | 81 |
| 335929 | Other communication & energy wire mfg | 72 | 58 | 63 | 83 | 80 |
| 33593 | Wiring device mfg | 64 | 66 | 68 | 73 | 74 |
| 335931 | Current-carrying wiring device mfg | 65 | 67 | 68 | 71 | 72 |
| 335932 | Noncurrent-carrying wiring device mfg | 64 | 64 | 67 | 75 | 77 |
| 33599 | All other electrical equipment & component mfg | 63 | 57 | 54 | 69 | 68 |
| 335991 | Carbon & graphite product mfg | 66 | 53 | 54 | 64 | 72 |
| 335999 | All other miscellaneous electrical equipment & component mfg | ^a 62 | 57 | ^a 54 | 70 | 67 |
| 336 | Transportation equipment mfg | 66 | 64 | 64 | 68 | 73 |
| 3361 | Motor vehicle mfg | 82 | 83 | 76 | 79 | 86 |
| 33611 | Automobile & light duty motor vehicle mfg | 83 | 85 | 81 | 80 | 86 |
| 336111 | Automobile mfg | 80 | 82 | 78 | 84 | 85 |
| 336112 | Light truck & utility vehicle mfg | 87 | 89 | 84 | 78 | 87 |
| 33612 | Heavy duty truck mfg | 61 | 52 | 43 | 66 | 92 |
| 336120 | Heavy duty truck mfg | 61 | 52 | 43 | 66 | 92 |
| 3362 | Motor vehicle body & trailer mfg | 61 | 61 | 54 | 60 | 71 |
| 33621 | Motor vehicle body & trailer mfg | 61 | 61 | 54 | 60 | 71 |
| 336211 | Motor vehicle body mfg | 64 | 65 | 68 | 70 | 72 |
| 336212 | Truck trailer mfg | 54 | 54 | 39 | 61 | 77 |
| 336213 | Motor home mfg | 61 | 55 | 71 | 51 | 65 |
| 336214 | Travel trailer & camper mfg | 63 | 64 | 50 | 54 | 67 |
| 3363 | Motor vehicle parts mfg | 73 | 72 | 71 | 75 | 81 |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 74 | 73 | 73 | 78 | 85 |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 82 | 80 | 76 | 79 | 88 |
| 336312 | Gasoline engine & engine parts mfg | 72 | 71 | 73 | 78 | 85 |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 64 | 60 | 59 | 73 | 79 |
| 336321 | Vehicular lighting equipment mfg | 79 | 71 | 66 | 68 | 79 |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 62 | 59 | 58 | 73 | 79 |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 70 | 72 | 69 | 70 | 82 |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 70 | 72 | 69 | 70 | 82 |
| 33634 | Motor vehicle brake system mfg | 78 | 75 | 70 | 66 | 72 |
| 336340 | Motor vehicle brake system mfg | 78 | 75 | 70 | 66 | 72 |
| 33635 | Motor vehicle transmission & power train parts mfg | 77 | 81 | 76 | 74 | 86 |
| 336350 | Motor vehicle transmission & power train parts mfg | 77 | 81 | 76 | 74 | 86 |
| 33636 | Motor vehicle seating & interior trim mfg | 84 | 83 | 80 | 84 | 79 |
| 336360 | Motor vehicle seating & interior trim mfg | 84 | 83 | 80 | 84 | 79 |
| 33637 | Motor vehicle metal stamping | 76 | 75 | 73 | 74 | 82 |
| 336370 | Motor vehicle metal stamping | 76 | 75 | 73 | 74 | 82 |
| 33639 | Other motor vehicle parts mfg | 72 | 71 | 70 | 76 | 80 |
| 336391 | Motor vehicle air-conditioning mfg | 73 | 76 | 76 | 68 | 80 |
| 336399 | All other motor vehicle parts mfg | 72 | 70 | 70 | 77 | 80 |
| 3364 | Aerospace product & parts mfg | 55 | 52 | 54 | 56 | 61 |
| 33641 | Aerospace product & parts mfg | 55 | 52 | 54 | 56 | 61 |
| 336411 | Aircraft mfg | 47 | 50 | 64 | 61 | 68 |
| 336412 | Aircraft engine & engine parts mfg | ^a 63 | 61 | 63 | 66 | 70 |
| 336413 | Other aircraft part & auxiliary equipment mfg | 57 | 58 | 64 | 69 | 68 |
| 336414 | Guided missile & space vehicle mfg | 87 | ^a 45 | ^a 25 | ^a 33 | ^a 37 |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 43 | 45 | 36 | 45 | 48 |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 44 | 46 | 47 | 73 | 65 |
| 3365 | Railroad rolling stock mfg | 50 | 45 | ^a 54 | 69 | 76 |
| 33651 | Railroad rolling stock mfg | 50 | 45 | ^a 54 | 69 | 76 |
| 336510 | Railroad rolling stock mfg | 50 | 45 | ^a 54 | 69 | 76 |
| 3366 | Ship & boat building | 52 | 53 | 52 | 56 | 55 |
| 33661 | Ship & boat building | 52 | 53 | 52 | 56 | 55 |
| 336611 | Ship building & repairing | ^a 48 | 51 | 49 | 53 | 53 |
| 336612 | Boat building | 61 | 59 | ^a 56 | 62 | 63 |
| 3369 | Other transportation equipment mfg | 58 | 61 | 57 | 65 | 68 |
| 33699 | Other transportation equipment mfg | 58 | 61 | 57 | 65 | 68 |
| 336991 | Motorcycle, bicycle, & parts mfg | ^a 57 | ^a 59 | ^a 54 | ^a 76 | 79 |
| 336992 | Military armored vehicle, tank, & tank component mfg | 44 | 42 | 42 | 39 | 42 |
| 336999 | All other transportation equipment mfg | 65 | 74 | 70 | 74 | 78 |

See footnotes at end of table.

Table 1a. Full Production Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | Full production rate | | | | |
|------------|---|----------------------|-----------------|-----------------|-----------------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 337 | Furniture & related product mfg | 62 | 61 | 62 | 68 | 73 |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 64 | 66 | 67 | 69 | 76 |
| 33711 | Wood kitchen cabinet & counter top mfg | 72 | 73 | 72 | 65 | 72 |
| 337110 | Wood kitchen cabinet & counter top mfg | 72 | 73 | 72 | 65 | 72 |
| 33712 | Household & institutional furniture mfg | 61 | 63 | 66 | 70 | 77 |
| 337121 | Upholstered household furniture mfg | 71 | 74 | 74 | 81 | 87 |
| 337122 | Nonupholstered wood household furniture mfg | 63 | 65 | 67 | 73 | 80 |
| 337124 | Metal household furniture mfg | ^a 44 | ^a 47 | 50 | 54 | 58 |
| 337125 | Household furniture (except wood & metal) mfg | 44 | 42 | 48 | 72 | 73 |
| 337127 | Institutional furniture mfg | 61 | 59 | 64 | 62 | 71 |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | ^a 39 | 67 | 69 | 71 | 73 |
| 3372 | Office furniture (including fixtures) mfg | 59 | 53 | 55 | 68 | 69 |
| 33721 | Office furniture (including fixtures) mfg | 59 | 53 | 55 | 68 | 69 |
| 337211 | Wood office furniture mfg | ^a 57 | 42 | 46 | 76 | 70 |
| 337212 | Custom architectural woodwork & millwork mfg | 73 | 66 | 69 | 71 | 78 |
| 337214 | Office furniture (except wood) mfg | 54 | 52 | 56 | 73 | 71 |
| 337215 | Showcase, partition, shelving, & locker mfg | 60 | 60 | 56 | 59 | 64 |
| 3379 | Other furniture related product mfg | 64 | 63 | 57 | 66 | 73 |
| 33791 | Mattress mfg | 63 | 63 | 58 | 69 | 75 |
| 337910 | Mattress mfg | 63 | 63 | 58 | 69 | 75 |
| 33792 | Blind & shade mfg | 65 | 63 | 56 | 60 | 70 |
| 337920 | Blind & shade mfg | 65 | 63 | 56 | 60 | 70 |
| 339 | Miscellaneous mfg | 66 | 64 | 65 | 69 | 70 |
| 3391 | Medical equipment & supplies mfg | 68 | 63 | 67 | 71 | 71 |
| 33911 | Medical equipment & supplies mfg | 68 | 63 | 67 | 71 | 71 |
| 339111 | Laboratory apparatus & furniture mfg | 68 | 68 | 66 | 72 | 70 |
| 339112 | Surgical & medical instrument mfg | 66 | 58 | 67 | 68 | 66 |
| 339113 | Surgical appliance & supplies mfg | 68 | 66 | 65 | 72 | 76 |
| 339114 | Dental equipment & supplies mfg | 76 | 74 | 74 | 74 | 79 |
| 339115 | Ophthalmic goods mfg | 63 | 52 | 63 | 67 | 73 |
| 339116 | Dental laboratories | 84 | 88 | 85 | 86 | 87 |
| 3399 | Other miscellaneous mfg | 63 | 65 | 63 | 67 | 69 |
| 33991 | Jewelry & silverware mfg | 64 | 59 | 63 | 69 | 69 |
| 339911 | Jewelry (except costume) mfg | 64 | 58 | 64 | 73 | 74 |
| 339912 | Silverware & plated ware mfg | 63 | 55 | 64 | 63 | 64 |
| 339913 | Jewelers' material & lapidary work mfg | 77 | 68 | 60 | 67 | 80 |
| 339914 | Costume jewelry & novelty mfg | 60 | 64 | ^a 60 | 60 | 58 |
| 33992 | Sporting & athletic goods mfg | 70 | 65 | 64 | 61 | 65 |
| 339920 | Sporting & athletic goods mfg | 70 | 65 | 64 | 61 | 65 |
| 33993 | Doll, toy, & game mfg | 51 | 60 | 59 | 63 | 72 |
| 339931 | Doll & stuffed toy mfg | ^a 16 | ^a 27 | ^a 57 | ^a 59 | 62 |
| 339932 | Game, toy, & children's vehicle mfg | 66 | 69 | 59 | 64 | 73 |
| 33994 | Office supplies (except paper) mfg | 64 | 63 | 63 | 65 | 69 |
| 339941 | Pen & mechanical pencil mfg | 63 | 63 | 58 | 70 | 67 |
| 339942 | Lead pencil & art good mfg | 71 | 69 | 78 | 75 | 74 |
| 339943 | Marking device mfg | 55 | ^a 56 | 55 | 52 | 62 |
| 339944 | Carbon paper & inked ribbon mfg | 63 | 63 | 68 | 60 | 71 |
| 33995 | Sign mfg | 66 | 71 | 65 | 74 | 81 |
| 339950 | Sign mfg | 66 | 71 | 65 | 74 | 81 |
| 33999 | All other miscellaneous mfg | 60 | 65 | 63 | 68 | 67 |
| 339991 | Gasket, packing, & sealing device mfg | 69 | 70 | 68 | 73 | 75 |
| 339992 | Musical instrument mfg | 67 | 59 | 59 | 60 | 58 |
| 339993 | Fastener, button, needle, & pin mfg | 54 | 60 | 60 | 72 | 75 |
| 339994 | Broom, brush, & mop mfg | 68 | 66 | 62 | 66 | 68 |
| 339995 | Burial casket mfg | 74 | 63 | 69 | 71 | 71 |
| 339999 | All other miscellaneous mfg | 50 | ^a 65 | ^a 61 | 65 | 63 |
| 5111 | Newspaper, periodical, book, and database publishers | ^a 81 | 81 | (NA) | (NA) | (NA) |

¹Excluding NAICS 5111, Newspaper, periodical, book, and database publishers.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|--|-------------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 31-33 | Manufacturing¹ | 47 | 45 | 45 | 52 | 56 |
| | Durable goods industries¹ | 41 | 40 | 40 | 49 | 52 |
| | Nondurable goods industries¹ | 56 | 52 | 55 | 58 | 62 |
| | Advanced processing industries¹ | 45 | 43 | 43 | 51 | 54 |
| | Primary processing industries¹ | 51 | 50 | 52 | 57 | 62 |
| 311 | Food mfg | 61 | 58 | 55 | 57 | 61 |
| 3111 | Animal food mfg | 59 | 59 | 59 | 66 | 64 |
| 31111 | Animal food mfg | 59 | 59 | 59 | 66 | 64 |
| 311111 | Dog & cat food mfg | 71 | 73 | 68 | 70 | 59 |
| 311119 | Other animal food mfg | 50 | 48 | 50 | 62 | 69 |
| 3112 | Grain & oilseed milling | 76 | 73 | 73 | 69 | 69 |
| 31121 | Flour milling & malt mfg | 70 | 68 | 68 | 69 | 70 |
| 311211 | Flour milling | 70 | 71 | 67 | 65 | 71 |
| 311212 | Rice milling | 75 | 70 | 81 | 89 | 86 |
| 311213 | Malt mfg | 54 | 44 | 45 | 50 | 45 |
| 31122 | Starch & vegetable fats & oils mfg | 89 | 90 | 88 | 85 | 82 |
| 311221 | Wet corn milling | 95 | 93 | 94 | 90 | 88 |
| 311222 | Soybean processing | 94 | 96 | 91 | 95 | 84 |
| 311223 | Other oilseed processing | 76 | 70 | 73 | 64 | 74 |
| 311225 | Fats & oils refining & blending | 78 | 83 | 78 | a73 | 71 |
| 31123 | Breakfast cereal mfg | 69 | ^a 65 | 66 | 62 | 61 |
| 311230 | Breakfast cereal mfg | 69 | ^a 65 | 66 | 62 | 61 |
| 3113 | Sugar & confectionery product mfg | 56 | 56 | 58 | 59 | 60 |
| 31131 | Sugar mfg | 90 | 85 | 78 | 79 | 82 |
| 311311 | Sugarcane mills | 91 | 92 | 94 | 93 | 97 |
| 311312 | Cane sugar refining | ^a 67 | ^a 53 | ^a 53 | 56 | 57 |
| 311313 | Beet sugar mfg | 99 | 97 | 97 | 92 | 96 |
| 31132 | Chocolate & confectionery mfg from cacao beans | 79 | 76 | 71 | 73 | 70 |
| 311320 | Chocolate & confectionery mfg from cacao beans | 79 | 76 | 71 | 73 | 70 |
| 31133 | Confectionery mfg from purchased chocolate | 46 | 45 | 48 | 48 | 50 |
| 311330 | Confectionery mfg from purchased chocolate | 46 | 45 | 48 | 48 | 50 |
| 31134 | Nonchocolate confectionery mfg | 54 | 55 | 61 | 63 | 60 |
| 311340 | Nonchocolate confectionery mfg | 54 | 55 | 61 | 63 | 60 |
| 3114 | Fruit & vegetable preserving & specialty food mfg | 50 | 52 | 46 | 44 | 59 |
| 31141 | Frozen food mfg | 68 | 67 | 68 | 69 | 73 |
| 311411 | Frozen fruit, juice, & vegetable mfg | 78 | 72 | 73 | 69 | 76 |
| 311412 | Frozen specialty food mfg | 63 | 64 | 64 | 69 | 70 |
| 31142 | Fruit & vegetable canning, pickling, & drying | 42 | 45 | 37 | 35 | 52 |
| 311421 | Fruit & vegetable canning | 35 | 38 | 30 | 27 | 47 |
| 311422 | Specialty canning | 57 | 59 | 58 | ^a 56 | 58 |
| 311423 | Dried & dehydrated food mfg | 56 | 53 | 36 | 39 | 58 |
| 3115 | Dairy product mfg | 71 | 67 | 69 | 68 | 68 |
| 31151 | Dairy product (except frozen) mfg | 75 | 70 | 70 | 69 | 69 |
| 311511 | Fluid milk mfg | 78 | 72 | 71 | 72 | 73 |
| 311512 | Creamery butter mfg | 71 | 62 | 57 | 72 | 75 |
| 311513 | Cheese mfg | 74 | 74 | 77 | 71 | 74 |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 70 | 63 | 64 | 64 | 58 |
| 31152 | Ice cream & frozen dessert mfg | ^a 57 | 54 | 64 | 61 | 58 |
| 311520 | Ice cream & frozen dessert mfg | ^a 57 | 54 | 64 | 61 | 58 |
| 3116 | Meat product mfg | 66 | 63 | 59 | 64 | 61 |
| 31161 | Animal slaughtering & processing | 66 | 63 | 59 | 64 | 61 |
| 311611 | Animal (except poultry) slaughtering | 69 | 70 | 53 | 71 | 72 |
| 311612 | Meat processed from carcasses | 61 | 62 | 60 | 56 | 43 |
| 311613 | Rendering & meat byproduct processing | 55 | 59 | 59 | ^a 45 | ^a 44 |
| 311615 | Poultry processing | 69 | 61 | 63 | 67 | 77 |
| 3117 | Seafood product preparation & packaging | 36 | 35 | 37 | 34 | 33 |
| 31171 | Seafood product preparation & packaging | 36 | 35 | 37 | 34 | 33 |
| 311711 | Seafood canning | 60 | 56 | 53 | 58 | 42 |
| 311712 | Fresh & frozen seafood processing | 34 | 34 | 36 | 32 | 32 |
| 3118 | Bakeries & tortilla mfg | 62 | 55 | 44 | 55 | 62 |
| 31181 | Bread & bakery product mfg | 66 | 62 | 55 | 53 | 65 |
| 311811 | Retail bakeries | ^a 43 | ^a 33 | 25 | 23 | 52 |
| 311812 | Commercial bakeries | 70 | 68 | 62 | 60 | 67 |
| 311813 | Frozen cakes, pies, & other pastries mfg | 67 | 61 | 61 | 60 | 64 |
| 31182 | Cookie, cracker, & pasta mfg | 55 | 44 | 30 | 58 | 58 |
| 311821 | Cookie & cracker mfg | 54 | 40 | 25 | 55 | 55 |
| 311822 | Flour mixes & dough mfg from purchased flour | 57 | 60 | 60 | 68 | 64 |
| 311823 | Dry pasta mfg | 61 | 73 | 66 | 62 | 71 |
| 31183 | Tortilla mfg | 66 | 66 | 63 | 64 | 66 |
| 311830 | Tortilla mfg | 66 | 66 | 63 | 64 | 66 |
| 3119 | Other food mfg | 58 | 55 | 57 | 57 | 58 |
| 31191 | Snack food mfg | 72 | 66 | 64 | 63 | ^a 64 |
| 311911 | Roasted nuts & peanut butter mfg | 71 | 64 | 60 | 51 | 63 |
| 311919 | Other snack food mfg | 72 | 67 | 65 | 67 | ^a 64 |
| 31192 | Coffee & tea mfg | ^a 39 | 39 | 57 | 67 | 64 |
| 311920 | Coffee & tea mfg | ^a 39 | 39 | 57 | 67 | 64 |
| 31193 | Flavoring syrup & concentrate mfg | 56 | 54 | 55 | 55 | 52 |
| 311930 | Flavoring syrup & concentrate mfg | 56 | 54 | 55 | 55 | 52 |
| 31194 | Seasoning & dressing mfg | 58 | 57 | 55 | 50 | 53 |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 65 | 65 | 58 | 52 | 52 |
| 311942 | Spice & extract mfg | 53 | 50 | 51 | 48 | 53 |
| 31199 | All other food mfg | 54 | 51 | 53 | 54 | 58 |
| 311991 | Perishable prepared food mfg | 62 | 61 | 57 | 56 | 53 |
| 311999 | All other miscellaneous food mfg | 53 | 49 | 52 | 53 | 60 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|---|-------------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 312 | Beverage & tobacco product mfg | 53 | 50 | 58 | 56 | 62 |
| 3121 | Beverage mfg | 59 | 53 | 57 | 52 | 59 |
| 31211 | Soft drink & ice mfg | 54 | 44 | 48 | 42 | 53 |
| 312111 | Soft drink mfg | 59 | 47 | 51 | 43 | 54 |
| 312112 | Bottled water mfg | 31 | 30 | 31 | 38 | 36 |
| 312113 | Ice mfg | 24 | 20 | 23 | 29 | ^a 33 |
| 31212 | Breweries | 77 | 80 | 82 | 82 | 86 |
| 312120 | Breweries | 77 | 80 | 82 | 82 | 86 |
| 31213 | Wineries | 49 | 55 | 59 | 48 | 49 |
| 312130 | Wineries | 49 | 55 | 59 | 48 | 49 |
| 31214 | Distilleries | 53 | 43 | 45 | 42 | 41 |
| 312140 | Distilleries | 53 | 43 | 45 | 42 | 41 |
| 3122 | Tobacco mfg | 50 | 48 | 59 | 60 | 65 |
| 31221 | Tobacco stemming & redrying | 61 | 45 | 64 | 70 | 65 |
| 312210 | Tobacco stemming & redrying | 61 | 45 | 64 | 70 | 65 |
| 31222 | Tobacco product mfg | 50 | 48 | 59 | 60 | 65 |
| 312221 | Cigarette mfg | 50 | 48 | 60 | 61 | 67 |
| 312229 | Other tobacco product mfg | 53 | 54 | 49 | 49 | 55 |
| 313 | Textile mills | 55 | 56 | 58 | 68 | 70 |
| 3131 | Fiber, yarn, & thread mills | 73 | 65 | 61 | 70 | 77 |
| 31311 | Fiber, yarn, & thread mills | 73 | 65 | 61 | 70 | 77 |
| 313111 | Yarn spinning mills | 79 | 71 | 62 | 72 | 79 |
| 313112 | Yarn texturing, throwing, & twisting mills | 62 | 58 | 61 | 65 | 71 |
| 313113 | Thread mills | ^a 70 | 53 | 55 | 78 | 82 |
| 3132 | Fabric mills | 55 | 56 | 63 | 71 | 72 |
| 31321 | Broadwoven fabric mills | 60 | 60 | 70 | 79 | 79 |
| 313210 | Broadwoven fabric mills | 60 | 60 | 70 | 79 | 79 |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 51 | 54 | 49 | 57 | 60 |
| 313221 | Narrow fabric mills | 53 | 56 | 51 | 58 | 64 |
| 313222 | Schiffli machine embroidery | 42 | 46 | 41 | 48 | 45 |
| 31323 | Nonwoven fabric mills | 51 | 52 | 63 | 68 | 73 |
| 313230 | Nonwoven fabric mills | 51 | 52 | 63 | 68 | 73 |
| 31324 | Knit fabric mills | 50 | 50 | 53 | 57 | 56 |
| 313241 | Weft knit fabric mills | 53 | 53 | 51 | 59 | 64 |
| 313249 | Other knit fabric & lace mills | 48 | 48 | 55 | 54 | 50 |
| 3133 | Textile & fabric finishing & fabric coating mills | 49 | 52 | 50 | 62 | 65 |
| 31331 | Textile & fabric finishing mills | 49 | 52 | 50 | 63 | 66 |
| 313311 | Broadwoven fabric finishing mills | 49 | 54 | 50 | 62 | 67 |
| 313312 | Textile & fabric finishing mills | 49 | 49 | ^a 50 | 64 | 65 |
| 31332 | Fabric coating mills | 48 | 48 | 52 | 54 | 59 |
| 313320 | Fabric coating mills | 48 | 48 | 52 | 54 | 59 |
| 314 | Textile product mills | 52 | 46 | 50 | 51 | 53 |
| 3141 | Textile furnishings mills | 51 | 49 | 54 | 55 | 58 |
| 31411 | Carpet & rug mills | 66 | 61 | 62 | 65 | 69 |
| 314110 | Carpet & rug mills | 66 | 61 | 62 | 65 | 69 |
| 31412 | Curtain & linen mills | 42 | 40 | 49 | 48 | 48 |
| 314121 | Curtain & drapery mills | ^a 44 | 44 | 38 | 37 | 37 |
| 314129 | Other household textile product mills | 41 | 39 | 55 | 53 | 55 |
| 3149 | Other textile product mills | 54 | 41 | 45 | 46 | 47 |
| 31491 | Textile bag & canvas mills | 40 | 40 | 39 | 33 | 35 |
| 314911 | Textile bag mills | ^a 30 | 34 | 34 | 28 | 29 |
| 314912 | Canvas & related product mills | 48 | 43 | 43 | 37 | 40 |
| 31499 | All other textile product mills | 63 | 42 | 47 | 53 | 54 |
| 314991 | Rope, cordage, & twine mills | 55 | 38 | ^a 47 | ^a 50 | 46 |
| 314992 | Tire cord & tire fabric mills | 89 | 81 | 79 | 83 | 88 |
| 314999 | All other miscellaneous textile product mills | 62 | 40 | 44 | 51 | 53 |
| 315 | Apparel mfg | 32 | 31 | 36 | 45 | 47 |
| 3151 | Apparel knitting mills | 47 | 52 | 52 | 49 | 59 |
| 31511 | Hosiery & sock mills | 59 | 50 | 49 | 64 | 65 |
| 315111 | Sheer hosiery mills | 58 | 46 | 46 | 60 | 64 |
| 315119 | Other hosiery & sock mills | 59 | 52 | 50 | 66 | 65 |
| 315191 | Other apparel knitting mills | ^a 35 | ^a 54 | 57 | 37 | 54 |
| 315192 | Outerwear knitting mills | ^a 32 | ^a 49 | 54 | 35 | 54 |
| 3152 | Cut & sew apparel mfg | 68 | ^a 91 | ^a 76 | 51 | 55 |
| 31521 | Cut & sew apparel contractors | 30 | ^a 29 | ^a 35 | ^a 46 | ^a 47 |
| 315211 | Men's & boys' cut & sew apparel contractors | 18 | 11 | 40 | ^a 37 | 40 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 54 | 43 | ^a 51 | ^a 40 | 40 |
| 31522 | Men's & boys' cut & sew apparel mfg | 13 | 8 | 36 | ^a 36 | ^a 40 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | ^a 29 | 33 | 47 | ^a 54 | ^a 51 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | ^a 53 | ^a 48 | ^a 38 | ^a 50 | ^a 50 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | ^a 36 | ^a 35 | 41 | ^a 47 | 61 |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | ^a 49 | ^a 54 | 45 | ^a 52 | 60 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 23 | 27 | 69 | ^a 82 | ^a 63 |
| 315228 | Men's & boys' cut & sew other outerwear mfg | 27 | 27 | 36 | 45 | 38 |
| 31523 | Women's & girls' cut & sew apparel mfg | ^a 31 | 35 | ^a 30 | ^a 25 | 24 |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 34 | ^a 42 | ^a 27 | ^a 43 | ^a 51 |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 50 | 53 | ^a 58 | ^a 48 | ^a 57 |
| 315233 | Women's & girls' cut & sew dress mfg | ^a 48 | ^a 48 | ^a 45 | ^a 61 | ^a 65 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | ^a 27 | ^a 30 | ^a 30 | ^a 37 | ^a 26 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | ^a 42 | ^a 42 | ^a 19 | ^a 38 | ^a 78 |
| 31529 | Other cut & sew apparel mfg | 20 | ^a 31 | 39 | 39 | 29 |
| 315291 | Infants' cut & sew apparel mfg | 31 | (NA) | ^a 49 | ^a 43 | 41 |
| 315292 | Fur & leather apparel mfg | ^a 53 | ^a 44 | 40 | 50 | ^a 50 |
| 315299 | All other cut & sew apparel mfg | 16 | ^a 21 | 35 | 34 | 23 |
| 3159 | Apparel accessories & other apparel mfg | 40 | 35 | ^a 31 | 35 | 37 |
| 31599 | Apparel accessories & other apparel mfg | 40 | 35 | ^a 31 | 35 | 37 |
| 315991 | Hat, cap, & millinery mfg | 37 | 31 | ^a 30 | 42 | 40 |
| 315992 | Glove & mitten mfg | 25 | ^a 20 | 22 | 36 | 38 |
| 315993 | Men's & boys' neckwear mfg | 40 | 47 | 39 | 40 | 38 |
| 315999 | Other apparel accessories & other apparel mfg | 46 | 40 | 32 | 31 | 35 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|--|-------------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 316 | Leather & allied product mfg | 33 | 27 | 27 | 35 | 41 |
| 3161 | Leather & hide tanning & finishing | 64 | 52 | 50 | 58 | 59 |
| 31611 | Leather & hide tanning & finishing | 64 | 52 | 50 | 58 | 59 |
| 316110 | Leather & hide tanning & finishing | 64 | 52 | 50 | 58 | 59 |
| 3162 | Footwear mfg | 31 | 26 | 25 | 30 | 34 |
| 31621 | Footwear mfg | 31 | 26 | 25 | 30 | 34 |
| 316211 | Rubber & plastics footwear mfg | 38 | 30 | 29 | 33 | 36 |
| 316212 | House slipper mfg | 36 | 19 | 27 | 36 | 33 |
| 316213 | Men's footwear (except athletic) mfg | 34 | 35 | 37 | 29 | 34 |
| 316214 | Women's footwear (except athletic) mfg | 12 | 10 | 8 | 25 | 27 |
| 316219 | Other footwear mfg | 54 | 65 | 50 | 43 | 44 |
| 3169 | Other leather & allied product mfg | 27 | 20 | 22 | 33 | 43 |
| 31699 | Other leather & allied product mfg | 27 | 20 | 22 | 33 | 43 |
| 316991 | Luggage mfg | 22 | 24 | 24 | 33 | 42 |
| 316992 | Women's handbag & purse mfg | 34 | 29 | 47 | 50 | 53 |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 34 | 9 | 9 | 19 | 34 |
| 316999 | All other leather good mfg | 35 | 27 | 33 | 42 | 46 |
| 321 | Wood product mfg | 43 | 42 | 41 | 41 | 48 |
| 3211 | Sawmills & wood preservation | 51 | 50 | 46 | 42 | 52 |
| 32111 | Sawmills & wood preservation | 51 | 50 | 46 | 42 | 52 |
| 321113 | Sawmills | 51 | 52 | 46 | 42 | 52 |
| 321114 | Wood preservation | 53 | 41 | 44 | 47 | 57 |
| 3212 | Veneer, plywood, & engineered wood product mfg | 53 | 43 | 46 | 52 | 62 |
| 32121 | Veneer, plywood, & engineered wood product mfg | 53 | 43 | 46 | 52 | 62 |
| 321211 | Hardwood veneer & plywood mfg | 42 | 43 | 44 | 61 | 73 |
| 321212 | Softwood veneer & plywood mfg | 83 | 81 | 79 | 66 | 74 |
| 321213 | Engineered wood member (except truss) mfg | 61 | 51 | 53 | 57 | 60 |
| 321214 | Truss mfg | 47 | 33 | 39 | 48 | 55 |
| 321219 | Reconstituted wood product mfg | 54 | 42 | 42 | 45 | 59 |
| 3219 | Other wood product mfg | 38 | 39 | 38 | 37 | 42 |
| 32191 | Millwork | 52 | 49 | 47 | 50 | 54 |
| 321911 | Wood window & door mfg | 59 | 59 | 61 | 59 | 59 |
| 321912 | Cut stock, resawing lumber, & planing | 38 | 46 | 46 | 48 | 51 |
| 321918 | Other millwork (including flooring) | 56 | 37 | 32 | 40 | 48 |
| 32192 | Wood container & pallet mfg | 45 | 39 | 35 | 45 | 45 |
| 321920 | Wood container & pallet mfg | 45 | 39 | 35 | 45 | 45 |
| 32199 | All other wood product mfg | 26 | 30 | 30 | 28 | 34 |
| 321991 | Manufactured home (mobile home) mfg | 20 | 25 | 26 | 22 | 29 |
| 321992 | Prefabricated wood building mfg | 38 | 37 | 31 | 35 | 35 |
| 321999 | All other miscellaneous wood product mfg | 32 | 37 | 39 | 50 | 52 |
| 322 | Paper mfg | 73 | 71 | 67 | 71 | 74 |
| 3221 | Pulp, paper, & paperboard mills | 86 | 87 | 78 | 84 | 89 |
| 32211 | Pulp mills | 81 | 78 | 88 | 86 | 90 |
| 322110 | Pulp mills | 81 | 78 | 88 | 86 | 90 |
| 32212 | Paper mills | 83 | 87 | 75 | 84 | 89 |
| 322121 | Paper (except newsprint) mills | 82 | 87 | 75 | 83 | 88 |
| 322122 | Newsprint mills | 95 | 85 | 85 | 96 | 97 |
| 322123 | Paperboard mills | 93 | 87 | 81 | 84 | 91 |
| 322130 | Paperboard mills | 93 | 87 | 81 | 84 | 91 |
| 3222 | Converted paper product mfg | 63 | 60 | 59 | 61 | 64 |
| 32221 | Paperboard container mfg | 65 | 64 | 57 | 59 | 62 |
| 322211 | Corrugated & solid fiber box mfg | 72 | 68 | 57 | 59 | 62 |
| 322212 | Folding paperboard box mfg | 73 | 70 | 62 | 62 | 66 |
| 322213 | Setup paperboard box mfg | 43 | 45 | 45 | 48 | 51 |
| 322214 | Fiber can, tube, drum, & similar products mfg | 28 | 32 | 39 | 46 | 54 |
| 322215 | Nonfolded sanitary food container mfg | 63 | 62 | 62 | 61 | 62 |
| 32222 | Paper bag & coated & treated paper mfg | 60 | 58 | 61 | 62 | 63 |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 53 | 51 | 50 | 55 | 58 |
| 322222 | Coated & laminated paper mfg | 61 | 56 | 62 | 64 | 66 |
| 322223 | Plastics, foil, & coated paper bag mfg | 50 | 53 | 43 | 55 | 44 |
| 322224 | Uncoated paper & multiwall bag mfg | 57 | 63 | 61 | 65 | 62 |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 65 | 71 | 70 | 69 | 70 |
| 322226 | Surface-coated paperboard mfg | 68 | 69 | 55 | 44 | 44 |
| 32223 | Stationery product mfg | 59 | 51 | 56 | 55 | 57 |
| 322231 | Die-cut paper & paperboard office supplies mfg | 71 | 58 | 58 | 54 | 56 |
| 322232 | Envelope mfg | 60 | 62 | 62 | 66 | 66 |
| 322233 | Stationery, tablet, & related product mfg | 48 | 35 | 46 | 43 | 46 |
| 32229 | Other converted paper product mfg | 65 | 59 | 64 | 71 | 74 |
| 322291 | Sanitary paper product mfg | 73 | 71 | 74 | 84 | 87 |
| 322299 | All other converted paper product mfg | 53 | 45 | 52 | 55 | 52 |
| 323 | Printing & related support activities | 53 | 52 | 50 | 54 | 58 |
| 3231 | Printing & related support activities | 53 | 52 | 50 | 54 | 58 |
| 32311 | Printing | 55 | 53 | 51 | 55 | 59 |
| 323110 | Commercial lithographic printing | 61 | 61 | 59 | 66 | 64 |
| 323111 | Commercial gravure printing | 79 | 73 | 72 | 63 | 76 |
| 323112 | Commercial flexographic printing | 62 | 61 | 54 | 59 | 64 |
| 323113 | Commercial screen printing | 44 | 36 | 38 | 37 | 44 |
| 323114 | Quick printing | 50 | 32 | 26 | 33 | 48 |
| 323115 | Digital printing | 71 | 56 | 50 | 43 | 48 |
| 323116 | Manifold business form printing | 44 | 53 | 57 | 52 | 50 |
| 323117 | Book printing | 55 | 58 | 44 | 55 | 54 |
| 323118 | Blankbook, looseleaf binder, & device mfg | 30 | 31 | 34 | 39 | 49 |
| 323119 | Other commercial printing | 46 | 46 | 52 | 50 | 59 |
| 32312 | Support activities for printing | 41 | 42 | 40 | 46 | 56 |
| 323121 | Tradebinding & related work | 28 | 30 | 32 | 39 | 55 |
| 323122 | Prepress services | 52 | 51 | 45 | 50 | 57 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|--|-------------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 324 | Petroleum & coal products mfg | 70 | 68 | 67 | 71 | 68 |
| 3241 | Petroleum & coal products mfg | 70 | 68 | 67 | 71 | 68 |
| 32411 | Petroleum refineries | 90 | 89 | 89 | 92 | 91 |
| 324110 | Petroleum refineries | 90 | 89 | 89 | 92 | 91 |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 27 | 25 | 24 | 29 | 33 |
| 324121 | Asphalt paving mixture & block mfg | 18 | 17 | 16 | 18 | 24 |
| 324122 | Asphalt shingle & coating materials mfg | 63 | 50 | 54 | a63 | a59 |
| 32419 | Other petroleum & coal products mfg | 42 | 43 | 41 | 50 | 51 |
| 324191 | Petroleum lubricating oil & grease mfg | 41 | 43 | 41 | 45 | 47 |
| 324199 | All other petroleum & coal products mfg | 45 | 44 | 43 | 79 | 79 |
| 325 | Chemical mfg | 51 | 46 | 55 | 58 | 62 |
| 3251 | Basic chemical mfg | 69 | 64 | 65 | 73 | 77 |
| 32511 | Petrochemical mfg | 80 | 75 | 77 | 92 | 92 |
| 325110 | Petrochemical mfg | 80 | 75 | 77 | 92 | 92 |
| 32512 | Industrial gas mfg | 71 | 62 | 57 | a65 | 64 |
| 325120 | Industrial gas mfg | 71 | 62 | 57 | a65 | 64 |
| 32513 | Dye & pigment mfg | 70 | 74 | 61 | 69 | 75 |
| 325131 | Inorganic dye & pigment mfg | 81 | 78 | 71 | 83 | 86 |
| 325132 | Synthetic organic dye & pigment mfg | 60 | 70 | 53 | 57 | 63 |
| 32518 | Other basic inorganic chemical mfg | 52 | 50 | 61 | 64 | 68 |
| 325181 | Alkalies & chlorine mfg | 75 | 76 | 70 | 78 | 85 |
| 325182 | Carbon black mfg | 76 | a72 | 67 | 75 | 83 |
| 325188 | All other basic inorganic chemical mfg | 50 | 47 | 59 | 63 | 66 |
| 32519 | Other basic organic chemical mfg | 81 | 74 | 66 | 80 | 86 |
| 325191 | Gum & wood chemical mfg | 71 | 78 | 74 | 77 | 72 |
| 325192 | Cyclic crude & intermediate mfg | 73 | a72 | a65 | 76 | 76 |
| 325193 | Ethyl alcohol mfg | 97 | 62 | 64 | 84 | 85 |
| 325199 | All other basic organic chemical mfg | 82 | 74 | 66 | 81 | 88 |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 71 | 71 | 68 | 76 | 85 |
| 32521 | Resin & synthetic rubber mfg | 69 | 71 | 68 | 75 | 85 |
| 325211 | Plastics material & resin mfg | 72 | 75 | 73 | 77 | 88 |
| 325212 | Synthetic rubber mfg | 55 | 52 | 48 | 62 | 70 |
| 32522 | Artificial & synthetic fibers & filaments mfg | 81 | 73 | 68 | 78 | 86 |
| 325221 | Cellulosic organic fiber mfg | 81 | 73 | 76 | a77 | a70 |
| 325222 | Noncellulosic organic fiber mfg | 81 | 73 | 68 | 78 | 87 |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 43 | 39 | 48 | 56 | 57 |
| 32531 | Fertilizer mfg | 54 | 53 | 59 | 65 | 73 |
| 325311 | Nitrogenous fertilizer mfg | 83 | 85 | 87 | 80 | 93 |
| 325312 | Phosphatic fertilizer mfg | 83 | 81 | 91 | 87 | 87 |
| 325314 | Fertilizer (mixing only) mfg | 31 | 30 | 34 | a42 | a45 |
| 32532 | Pesticide & other agricultural chemical mfg | 39 | 34 | 44 | 52 | 50 |
| 325320 | Pesticide & other agricultural chemical mfg | 39 | 34 | 44 | 52 | 50 |
| 3254 | Pharmaceutical & medicine mfg | 44 | 38 | 56 | 53 | 60 |
| 32541 | Pharmaceutical & medicine mfg | 44 | 38 | 56 | 53 | 60 |
| 325411 | Medicinal & botanical mfg | 61 | 61 | 68 | a56 | a61 |
| 325412 | Pharmaceutical preparation mfg | 41 | 44 | 53 | 52 | 58 |
| 325413 | In-vitro diagnostic substance mfg | 49 | a14 | a63 | a63 | a69 |
| 325414 | Biological product (except diagnostic) mfg | 67 | 68 | 75 | 64 | 65 |
| 3255 | Paint, coating, & adhesive mfg | 52 | 42 | 40 | 51 | 44 |
| 32551 | Paint & coating mfg | 53 | 42 | 40 | 52 | 48 |
| 325510 | Paint & coating mfg | 53 | 42 | 40 | 52 | 48 |
| 32552 | Adhesive mfg | 51 | 41 | 41 | 48 | 36 |
| 325520 | Adhesive mfg | 51 | 41 | 41 | 48 | 36 |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 53 | 54 | 49 | 51 | 54 |
| 32561 | Soap & cleaning compound mfg | 52 | 51 | 50 | 53 | 58 |
| 325611 | Soap & other detergent mfg | 50 | 54 | 50 | 59 | 55 |
| 325612 | Polish & other sanitation good mfg | 49 | 43 | 44 | 41 | 52 |
| 325613 | Surface active agent mfg | 70 | 72 | 71 | 72 | 81 |
| 32562 | Toilet preparation mfg | 53 | 57 | 49 | 48 | 50 |
| 325620 | Toilet preparation mfg | 53 | 57 | 49 | 48 | 50 |
| 3259 | Other chemical product mfg | 45 | 44 | 44 | 49 | 52 |
| 32591 | Printing ink mfg | 26 | 25 | 27 | a29 | 33 |
| 325910 | Printing ink mfg | 26 | 25 | 27 | a29 | 33 |
| 32592 | Explosives mfg | 36 | 37 | 36 | 30 | 32 |
| 325920 | Explosives mfg | 36 | 37 | 36 | 30 | 32 |
| 32599 | All other chemical product & preparation mfg | 51 | 49 | 47 | 54 | 57 |
| 325991 | Custom compounding of purchased resin | 64 | 62 | 51 | 69 | 73 |
| 325992 | Photographic film, paper, plate, & chemical mfg | 65 | 64 | 58 | 70 | 75 |
| 325998 | All other miscellaneous chemical product & preparation mfg | 39 | 38 | 38 | 40 | 43 |
| 326 | Plastics & rubber products mfg | 63 | 57 | 53 | 59 | 65 |
| 3261 | Plastics product mfg | 64 | 56 | 52 | 58 | 63 |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 68 | 65 | 62 | 67 | 74 |
| 326111 | Unsupported plastics bag mfg | 70 | 63 | 66 | a66 | 74 |
| 326112 | Unsupported plastics packaging film & sheet mfg | 59 | 61 | 61 | 63 | 65 |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 70 | 67 | 60 | 69 | 75 |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 66 | 66 | 58 | 61 | 65 |
| 326121 | Unsupported plastics profile shape mfg | 64 | 67 | 63 | 62 | 56 |
| 326122 | Plastics pipe, pipe fitting mfg | 69 | 64 | 52 | 60 | 81 |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 50 | 44 | 44 | 48 | 50 |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 50 | 44 | 44 | 48 | 50 |
| 32614 | Polystyrene foam product mfg | 64 | 63 | 47 | 76 | 74 |
| 326140 | Polystyrene foam product mfg | 64 | 63 | 47 | 76 | 74 |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 45 | 50 | 50 | 52 | 51 |
| 326150 | Urethane & other foam product (except polystyrene) mfg | 45 | 50 | 50 | 52 | 51 |
| 32616 | Plastics bottle mfg | 73 | 73 | 62 | 74 | 77 |
| 326160 | Plastics bottle mfg | 73 | 73 | 62 | 74 | 77 |
| 32619 | Other plastics product mfg | 64 | 53 | 49 | 54 | 61 |
| 326191 | Plastics plumbing fixture mfg | 43 | 35 | 34 | 35 | 51 |
| 326192 | Resilient floor covering mfg | 61 | 54 | 63 | 65 | 64 |
| 326199 | All other plastics product mfg | 65 | 54 | 49 | 55 | 61 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|---|-------------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 326 | Plastics & rubber products mfg—Con. | | | | | |
| 3262 | Rubber product mfg | 61 | 60 | 60 | 65 | 70 |
| 32621 | Tire mfg | 71 | 75 | 73 | 78 | 82 |
| 326211 | Tire mfg (except retreading) | 78 | 82 | 77 | 83 | 88 |
| 326212 | Tire retreading | 31 | 34 | 35 | 36 | 38 |
| 32622 | Rubber & plastics hoses & belting mfg | 51 | 47 | 53 | 55 | 62 |
| 326220 | Rubber & plastics hoses & belting mfg | 51 | 47 | 53 | 55 | 62 |
| 32629 | Other rubber product mfg | 55 | 54 | 52 | 60 | 64 |
| 326291 | Rubber product mfg for mechanical use | 61 | 60 | 56 | 67 | 71 |
| 326299 | All other rubber product mfg | 50 | 49 | 49 | 54 | 58 |
| 327 | Nonmetallic mineral product mfg | 43 | 41 | 45 | 48 | 57 |
| 3271 | Clay product & refractory mfg | 62 | 61 | 57 | 60 | 62 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 57 | 62 | 60 | 64 | 63 |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | ^87 | 91 | 80 | 89 | 90 |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 46 | 54 | 54 | 53 | 53 |
| 327113 | Porcelain electrical supply mfg | 53 | 52 | 55 | 65 | 61 |
| 32712 | Clay building material & refractories mfg | 66 | 61 | 55 | 57 | 61 |
| 327121 | Brick & structural clay tile mfg | 90 | 84 | 84 | 88 | 90 |
| 327122 | Ceramic wall & floor tile mfg | 70 | 57 | 38 | 42 | 47 |
| 327123 | Other structural clay product mfg | 67 | 72 | 60 | 63 | 57 |
| 327124 | Clay refractory mfg | 39 | 39 | 37 | 39 | 49 |
| 327125 | Nonclay refractory mfg | 54 | ^53 | 56 | 58 | 59 |
| 3272 | Glass & glass product mfg | 66 | 62 | 56 | 68 | 78 |
| 32721 | Glass & glass product mfg | 66 | 62 | 56 | 68 | 78 |
| 327211 | Flat glass mfg | 75 | 70 | 72 | 77 | 85 |
| 327212 | Other pressed & blown glass & glassware mfg | 63 | 59 | 52 | 72 | 78 |
| 327213 | Glass container mfg | 91 | 93 | 91 | 88 | 87 |
| 327215 | Glass product mfg made of purchased glass | 59 | 54 | 48 | 58 | 72 |
| 3273 | Cement & concrete product mfg | 31 | 29 | 34 | 35 | 44 |
| 32731 | Cement mfg | 83 | 62 | 64 | 66 | 74 |
| 327310 | Cement mfg | 83 | 62 | 64 | 66 | 74 |
| 32732 | Ready-mix concrete mfg | 19 | 19 | 24 | 24 | 33 |
| 327320 | Ready-mix concrete mfg | 19 | 19 | 24 | 24 | 33 |
| 32733 | Concrete pipe, brick, & block mfg | 46 | 49 | 49 | 48 | 47 |
| 327331 | Concrete block & brick mfg | 43 | 46 | 51 | 50 | 44 |
| 327332 | Concrete pipe mfg | 52 | 53 | 47 | 46 | 50 |
| 32739 | Other concrete product mfg | 50 | 44 | 44 | 51 | 60 |
| 327390 | Other concrete product mfg | 50 | 44 | 44 | 51 | 60 |
| 3274 | Lime & gypsum product mfg | 82 | 72 | 70 | 75 | 82 |
| 32741 | Lime mfg | 80 | 72 | 69 | 69 | 71 |
| 327410 | Lime mfg | 80 | 72 | 69 | 69 | 71 |
| 32742 | Gypsum product mfg | 83 | 72 | 71 | 77 | 85 |
| 327420 | Gypsum product mfg | 83 | 72 | 71 | 77 | 85 |
| 3279 | Other nonmetallic mineral product mfg | 57 | 56 | 51 | 57 | 60 |
| 32791 | Abrasive product mfg | 48 | 47 | 37 | 45 | 48 |
| 327910 | Abrasive product mfg | 48 | 47 | 37 | 45 | 48 |
| 32799 | All other nonmetallic mineral product mfg | 62 | 60 | 61 | 66 | 69 |
| 327991 | Cut stone & stone product mfg | 46 | 43 | 44 | 45 | 46 |
| 327992 | Ground or treated mineral & earth mfg | 67 | 59 | 54 | 77 | 86 |
| 327993 | Mineral wool mfg | 77 | 81 | 80 | 76 | 77 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 52 | 52 | 56 | 60 | 59 |
| 331 | Primary metal mfg | 60 | 58 | 59 | 61 | 70 |
| 3311 | Iron & steel mills & ferroalloy mfg | 83 | 85 | 76 | 64 | 86 |
| 33111 | Iron & steel mills & ferroalloy mfg | 83 | 85 | 76 | 64 | 86 |
| 331111 | Iron & steel mills | 84 | 86 | 77 | 64 | 87 |
| 331112 | Electrometallurgical ferroalloy product mfg | 62 | 70 | 56 | 68 | 73 |
| 3312 | Steel product mfg from purchased steel | 57 | 56 | 54 | 62 | 70 |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 54 | 53 | 54 | 58 | 65 |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 54 | 53 | 54 | 58 | 65 |
| 33122 | Rolling & drawing of purchased steel | 60 | 58 | 54 | 66 | 75 |
| 331221 | Cold-rolled steel shape mfg | 67 | 58 | 50 | 64 | 73 |
| 331222 | Steel wire drawing | 56 | 57 | 58 | 68 | 76 |
| 3313 | Alumina & aluminum production & processing | 70 | 65 | ^63 | 73 | 78 |
| 33131 | Alumina & aluminum production & processing | 70 | 65 | ^63 | 73 | 78 |
| 331311 | Alumina refining | 75 | ^79 | ^84 | ^72 | 71 |
| 331312 | Primary aluminum production | 68 | ^67 | ^64 | 79 | 86 |
| 331314 | Secondary smelting & alloying of aluminum | 70 | 63 | 65 | 69 | 83 |
| 331315 | Aluminum sheet, plate, & foil mfg | 81 | ^80 | ^67 | 77 | 85 |
| 331316 | Aluminum extruded product mfg | 60 | 52 | 55 | 64 | 63 |
| 331319 | Other aluminum rolling & drawing | ^69 | 61 | 55 | 70 | 77 |
| 3314 | Nonferrous metal (except aluminum) production & processing | 61 | 57 | 61 | 64 | 68 |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 58 | 59 | 58 | 54 | 70 |
| 331411 | Primary smelting & refining of copper | 56 | 65 | 70 | 41 | 75 |
| 331419 | Other nonferrous metal primary smelting & refining | 59 | 55 | 51 | 66 | 66 |
| 33142 | Copper rolling, drawing, extruding, & alloying | 69 | 68 | 66 | 80 | 84 |
| 331421 | Copper rolling, drawing, & extruding | 71 | 71 | 68 | 83 | 89 |
| 331422 | Copper wire (except mechanical) drawing | 69 | 71 | 69 | 72 | 81 |
| 331423 | Secondary smelting, refining, & alloying of copper | 53 | ^44 | 46 | 64 | 62 |
| 331429 | Other nonferrous metal rolling, drawing, extruding, & alloying | 58 | 50 | 59 | 62 | 59 |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 56 | 53 | 61 | 64 | 59 |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 63 | ^45 | 54 | 56 | 59 |
| 3315 | Foundries | 46 | 44 | 46 | 51 | 54 |
| 33151 | Ferrous metal foundries | 45 | 43 | 45 | 52 | 52 |
| 331511 | Iron foundries | 44 | 43 | 45 | 51 | 53 |
| 331512 | Steel investment foundries | 48 | 43 | 52 | 56 | 50 |
| 331513 | Steel foundries (except investment) | 48 | 46 | 39 | 51 | 49 |
| 33152 | Nonferrous metal foundries | 48 | 45 | 47 | 50 | 57 |
| 331521 | Aluminum die-casting foundries | 52 | 50 | 50 | 56 | 72 |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 45 | 42 | 40 | 46 | 58 |
| 331524 | Aluminum foundries (except die-casting) | 50 | 45 | 49 | 47 | 50 |
| 331525 | Copper foundries (except die-casting) | 33 | 34 | 36 | 40 | 43 |
| 331528 | Other nonferrous foundries (except die-casting) | 65 | 59 | ^65 | 70 | 70 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|--|-------------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 332 | Fabricated metal product mfg | 36 | 36 | 40 | 48 | 50 |
| 3321 | Forging & stamping | 46 | 42 | 43 | 50 | 52 |
| 33211 | Forging & stamping | 46 | 42 | 43 | 50 | 52 |
| 332111 | Iron & steel forging | 43 | 43 | 37 | 48 | 51 |
| 332112 | Nonferrous forging | 57 | 44 | 54 | 54 | 57 |
| 332114 | Custom roll forming | 46 | 41 | 44 | 46 | 47 |
| 332115 | Crown & closure mfg | 50 | 42 | 41 | 49 | 37 |
| 332116 | Metal stamping | 45 | 40 | 43 | 49 | 53 |
| 332117 | Powder metallurgy part mfg | 58 | 54 | 54 | 65 | 70 |
| 3322 | Cutlery & handtool mfg | 45 | 44 | 49 | 56 | 56 |
| 33221 | Cutlery & handtool mfg | 45 | 44 | 49 | 56 | 56 |
| 332211 | Cutlery & flatware (except precious) mfg | 45 | 44 | 46 | 61 | 62 |
| 332212 | Hand & edge tool mfg | 42 | 41 | 48 | 54 | 53 |
| 332213 | Saw blade & handsaw mfg | 58 | 54 | 53 | 61 | 66 |
| 332214 | Kitchen utensil, pot, & pan mfg | ^57 | 58 | 57 | 56 | 56 |
| 3323 | Architectural & structural metals mfg | 22 | 29 | 38 | 44 | 45 |
| 33231 | Plate work & fabricated structural product mfg | 37 | 34 | 37 | 45 | 46 |
| 332311 | Prefabricated metal building & component mfg | 44 | 43 | 50 | 53 | 52 |
| 332312 | Fabricated structural metal mfg | 36 | 33 | 36 | 44 | 47 |
| 332313 | Plate work mfg | 34 | 30 | 32 | 39 | 38 |
| 33232 | Ornamental & architectural metal products mfg | 17 | 27 | 38 | 43 | 44 |
| 332321 | Metal window & door mfg | 37 | 35 | 40 | 44 | 49 |
| 332322 | Sheet metal work mfg | 12 | 22 | 37 | 43 | 42 |
| 332323 | Ornamental & architectural metal work mfg | 37 | 38 | 38 | 44 | 46 |
| 3324 | Boiler, tank, & shipping container mfg | 45 | 50 | 51 | 52 | 53 |
| 33241 | Power boiler & heat exchanger mfg | 46 | 40 | 46 | 43 | 42 |
| 332410 | Power boiler & heat exchanger mfg | 46 | 40 | 46 | 43 | 42 |
| 33242 | Metal tank (heavy gauge) mfg | 37 | 42 | 42 | 44 | 49 |
| 332420 | Metal tank (heavy gauge) mfg | 37 | 42 | 42 | 44 | 49 |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 51 | 62 | 61 | 63 | 63 |
| 332431 | Metal can mfg | 53 | 70 | 68 | 72 | 73 |
| 332439 | Other metal container mfg | 45 | 43 | 45 | 43 | 45 |
| 3325 | Hardware mfg | 46 | 48 | 47 | 49 | 47 |
| 33251 | Hardware mfg | 46 | 48 | 47 | 49 | 47 |
| 332510 | Hardware mfg | 46 | 48 | 47 | 49 | 47 |
| 3326 | Spring & wire product mfg | 50 | 45 | 45 | 53 | 54 |
| 33261 | Spring & wire product mfg | 50 | 45 | 45 | 53 | 54 |
| 332611 | Spring (heavy gauge) mfg | 50 | 57 | 50 | 50 | 52 |
| 332612 | Spring (light gauge) mfg | 52 | 49 | 41 | 56 | 61 |
| 332618 | Other fabricated wire product mfg | 50 | 42 | 48 | 53 | 51 |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 37 | 28 | 31 | 43 | 46 |
| 33271 | Machine shops | 37 | 25 | 29 | 44 | 47 |
| 332710 | Machine shops | 37 | 25 | 29 | 44 | 47 |
| 33272 | Turned product & screw, nut, & bolt mfg | 38 | 35 | 36 | 42 | 45 |
| 332721 | Precision turned product mfg | 34 | 30 | 31 | 40 | 41 |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 44 | 42 | 44 | 45 | 50 |
| 3328 | Coating, engraving, heat treating, & allied activities | 48 | 47 | 46 | 51 | 57 |
| 33281 | Coating, engraving, heat treating, & allied activities | 48 | 47 | 46 | 51 | 57 |
| 332811 | Metal heat treating | 56 | 54 | 53 | 52 | 62 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 58 | 59 | 58 | 55 | 60 |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 39 | 37 | 36 | 46 | 53 |
| 3329 | Other fabricated metal product mfg | 47 | 45 | 47 | 53 | 54 |
| 33291 | Metal valve mfg | 48 | 45 | 46 | 51 | 53 |
| 332911 | Industrial valve mfg | 46 | 42 | 44 | 49 | 48 |
| 332912 | Fluid power valve & hose fitting mfg | 49 | 46 | 44 | 51 | 55 |
| 332913 | Plumbing fixture fitting & trim mfg | 53 | 52 | 52 | 53 | 55 |
| 332919 | Other metal valve & pipe fitting mfg | 52 | 49 | 50 | 56 | 62 |
| 33299 | All other fabricated metal product mfg | 46 | 44 | 49 | 54 | 55 |
| 332991 | Ball & roller bearing mfg | 55 | 51 | 58 | 61 | 75 |
| 332992 | Small arms ammunition mfg | 47 | 55 | 46 | 51 | 56 |
| 332993 | Ammunition (except small arms) mfg | 40 | 28 | 36 | 29 | 31 |
| 332994 | Small arms mfg | 52 | 52 | 44 | 55 | 56 |
| 332995 | Other ordnance & accessories mfg | 59 | 58 | 57 | 56 | 59 |
| 332996 | Fabricated pipe & pipe fitting mfg | 38 | 39 | 52 | 56 | 41 |
| 332997 | Industrial pattern mfg | 37 | 43 | 38 | 49 | 52 |
| 332998 | Enameled iron & metal sanitary ware mfg | 43 | 37 | 54 | 59 | 64 |
| 332999 | All other miscellaneous fabricated metal product mfg | 46 | 43 | 45 | 56 | 57 |
| 333 | Machinery mfg | 39 | 37 | 29 | 45 | 46 |
| 3331 | Agriculture, construction, & mining machinery mfg | 38 | 36 | 41 | 46 | 46 |
| 33311 | Agricultural implement mfg | 34 | 33 | 36 | 46 | 42 |
| 333111 | Farm machinery & equipment mfg | 36 | 33 | 36 | 48 | 42 |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 29 | 34 | 34 | 43 | 42 |
| 333112 | Construction machinery mfg | 43 | 39 | 45 | 47 | 50 |
| 333120 | Construction machinery mfg | 43 | 39 | 45 | 47 | 50 |
| 33313 | Mining & oil & gas field machinery mfg | 40 | 40 | 46 | 45 | 47 |
| 333131 | Mining machinery & equipment mfg | 43 | 41 | 44 | 39 | 47 |
| 333132 | Oil & gas field machinery & equipment mfg | 40 | 39 | 47 | 49 | 47 |
| 3332 | Industrial machinery mfg | 35 | 29 | 14 | 46 | 39 |
| 33321 | Sawmill & woodworking machinery mfg | 35 | 28 | 32 | 32 | 35 |
| 333210 | Sawmill & woodworking machinery mfg | 35 | 28 | 32 | 32 | 35 |
| 33322 | Plastics & rubber industry machinery mfg | 38 | 32 | 33 | 51 | 53 |
| 333220 | Plastics & rubber industry machinery mfg | 38 | 32 | 33 | 51 | 53 |
| 33329 | Other industrial machinery mfg | 35 | 29 | 13 | 46 | 38 |
| 333291 | Paper industry machinery mfg | 37 | 34 | 35 | 43 | 38 |
| 333292 | Textile machinery mfg | ^32 | ^31 | ^25 | ^35 | 29 |
| 333293 | Printing machinery & equipment mfg | 32 | 29 | 30 | 41 | 42 |
| 333294 | Food product machinery mfg | 33 | 35 | 40 | 41 | 43 |
| 333295 | Semiconductor machinery mfg | 40 | 34 | 18 | ^60 | 39 |
| 333298 | All other industrial machinery mfg | 30 | 23 | 6 | 39 | 38 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|---|-------------------------|------|------|------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 333 | Machinery mfg—Con. | | | | | |
| 3333 | Commercial & service industry machinery mfg | 37 | 33 | 34 | 41 | 45 |
| 33331 | Commercial & service industry machinery mfg | 37 | 33 | 34 | 41 | 45 |
| 333311 | Automatic vending machine mfg | 32 | 30 | 26 | 34 | 36 |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 28 | 25 | 29 | 50 | 59 |
| 333313 | Office machinery mfg | 33 | 30 | 30 | 44 | 47 |
| 333314 | Optical instrument & lens mfg | 43 | 34 | 32 | 42 | 45 |
| 333315 | Photographic & photocopying equipment mfg | 57 | 46 | 41 | 38 | 43 |
| 333319 | Other commercial & service industry machinery mfg | 32 | 32 | 30 | 45 | 47 |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 47 | 42 | 37 | 44 | 46 |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 47 | 42 | 37 | 44 | 46 |
| 333411 | Air purification equipment mfg | 41 | 37 | 34 | 40 | 42 |
| 333412 | Industrial & commercial fan & blower mfg | 46 | 38 | 39 | 44 | 43 |
| 333414 | Heating equipment (except warm air furnaces) mfg | 43 | 46 | 45 | 48 | 49 |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 48 | 42 | 36 | 43 | 47 |
| 3335 | Metalworking machinery mfg | 32 | 35 | 32 | 45 | 49 |
| 33351 | Metalworking machinery mfg | 32 | 35 | 32 | 45 | 49 |
| 333511 | Industrial mold mfg | 29 | 39 | 26 | 40 | 46 |
| 333512 | Machine tool (metal cutting types) mfg | 32 | 34 | 33 | 43 | 49 |
| 333513 | Machine tool (metal forming types) mfg | 31 | 28 | 30 | 45 | 48 |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 33 | 35 | 34 | 44 | 47 |
| 333515 | Cutting tool & machine tool accessory mfg | 36 | 41 | 41 | 59 | 57 |
| 333516 | Rolling mill machinery & equipment mfg | 29 | 28 | 30 | 35 | 45 |
| 333518 | Other metalworking machinery mfg | 29 | 31 | 31 | 46 | 48 |
| 3336 | Engine, turbine, & power transmission equipment mfg | 51 | 45 | 46 | 52 | 53 |
| 33361 | Engine, turbine, & power transmission equipment mfg | 51 | 45 | 46 | 52 | 53 |
| 333611 | Turbine & turbine generator set unit mfg | 62 | 70 | 70 | 61 | 49 |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 41 | 29 | 41 | 50 | 53 |
| 333613 | Mechanical power transmission equipment mfg | 39 | 38 | 41 | 43 | 45 |
| 333618 | Other engine equipment mfg | 49 | 41 | 43 | 52 | 57 |
| 3339 | Other general-purpose machinery mfg | 38 | 38 | 38 | 43 | 45 |
| 33391 | Pump & compressor mfg | 43 | 44 | 42 | 44 | 46 |
| 333911 | Pump & pumping equipment mfg | 46 | 50 | 42 | 44 | 47 |
| 333912 | Air & gas compressor mfg | 40 | 39 | 42 | 44 | 44 |
| 333913 | Measuring & dispensing pump mfg | 40 | 37 | 45 | 44 | 50 |
| 33392 | Material handling equipment mfg | 34 | 33 | 33 | 43 | 45 |
| 333921 | Elevator & moving stairway mfg | 47 | 50 | 53 | 51 | 56 |
| 333922 | Conveyor & conveying equipment mfg | 28 | 28 | 29 | 41 | 42 |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 38 | 34 | 34 | 40 | 44 |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 41 | 38 | 35 | 46 | 45 |
| 33399 | All other general-purpose machinery mfg | 39 | 38 | 39 | 43 | 45 |
| 333991 | Power-driven handtool mfg | 56 | 59 | 52 | 59 | 68 |
| 333992 | Welding & soldering equipment mfg | 27 | 36 | 40 | 46 | 47 |
| 333993 | Packaging machinery mfg | 36 | 39 | 34 | 34 | 41 |
| 333994 | Industrial process furnace & oven mfg | 35 | 30 | 34 | 46 | 42 |
| 333995 | Fluid power cylinder & actuator mfg | 41 | 39 | 41 | 40 | 43 |
| 333996 | Fluid power pump & motor mfg | 42 | 41 | 42 | 47 | 46 |
| 333997 | Scale & balance (except laboratory) mfg | 44 | 20 | 20 | 22 | 44 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 41 | 37 | 39 | 44 | 43 |
| 334 | Computer & electronic product mfg | 38 | 38 | 40 | 53 | 56 |
| 3341 | Computer & peripheral equipment mfg | 45 | 43 | 40 | 47 | 50 |
| 33411 | Computer & peripheral equipment mfg | 45 | 43 | 40 | 47 | 50 |
| 334111 | Electronic computer mfg | 49 | 44 | 42 | 48 | 49 |
| 334112 | Computer storage device mfg | 34 | 36 | 29 | 36 | 43 |
| 334113 | Computer terminal mfg | 31 | 50 | 30 | 29 | 33 |
| 334119 | Other computer peripheral equipment mfg | 56 | 51 | 50 | 61 | 59 |
| 3342 | Communications equipment mfg | 24 | 26 | 39 | 56 | 61 |
| 33421 | Telephone apparatus mfg | 19 | 21 | 36 | 59 | 70 |
| 334210 | Telephone apparatus mfg | 19 | 21 | 36 | 59 | 70 |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 34 | 38 | 42 | 54 | 54 |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 34 | 38 | 42 | 54 | 54 |
| 33429 | Other communications equipment mfg | 34 | 38 | 42 | 54 | 54 |
| 334290 | Other communications equipment mfg | 41 | 39 | 43 | 47 | 53 |
| 3343 | Audio & video equipment mfg | 41 | 40 | 42 | 37 | 39 |
| 33431 | Audio & video equipment mfg | 41 | 40 | 42 | 37 | 39 |
| 334310 | Audio & video equipment mfg | 41 | 40 | 42 | 37 | 39 |
| 3344 | Semiconductor & other electronic component mfg | 56 | 46 | 40 | 64 | 69 |
| 33441 | Semiconductor & other electronic component mfg | 56 | 46 | 40 | 64 | 69 |
| 334411 | Electron tube mfg | 48 | 55 | 58 | 70 | 63 |
| 334412 | Bare printed circuit board mfg | 48 | 38 | 34 | 53 | 60 |
| 334413 | Semiconductor & related device mfg | 74 | 56 | 41 | 69 | 84 |
| 334414 | Electronic capacitor mfg | 45 | 36 | 35 | 78 | 77 |
| 334415 | Electronic resistor mfg | 29 | 29 | 28 | 45 | 40 |
| 334416 | Electronic coil, transformer, & other inductor mfg | 32 | 29 | 34 | 47 | 46 |
| 334417 | Electronic connector mfg | 46 | 40 | 47 | 54 | 50 |
| 334418 | Printed circuit assembly (electronic assembly) mfg | 47 | 39 | 51 | 64 | 54 |
| 334419 | Other electronic component mfg | 27 | 26 | 27 | 42 | 37 |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 39 | 40 | 40 | 42 | 45 |
| 33451 | Navigational, measuring, medical, & control instruments mfg | 39 | 40 | 40 | 42 | 45 |
| 334510 | Electromedical & electrotherapeutic apparatus mfg | 55 | 57 | 49 | 54 | 54 |
| 334511 | Search, detection, navigation, & guidance instrument mfg | 44 | 43 | 43 | 40 | 46 |
| 334512 | Automatic environmental control mfg | 40 | 37 | 47 | 51 | 56 |
| 334513 | Industrial process control instrument mfg | 34 | 29 | 31 | 38 | 42 |
| 334514 | Totalizing fluid meter & counting device mfg | 52 | 47 | 52 | 52 | 53 |
| 334515 | Electricity measuring & testing instrument mfg | 31 | 36 | 35 | 47 | 45 |
| 334516 | Analytical laboratory instrument mfg | 28 | 32 | 33 | 31 | 34 |
| 334517 | Irradiation apparatus mfg | 42 | 49 | 49 | 47 | 44 |
| 334518 | Watch, clock, & part mfg | 34 | 27 | 24 | 30 | 31 |
| 334519 | Other measuring & controlling device mfg | 34 | 32 | 36 | 43 | 37 |
| 3346 | Mfg & reproducing magnetic & optical media | 56 | 55 | 64 | 58 | 62 |
| 33461 | Mfg & reproducing magnetic & optical media | 56 | 55 | 64 | 58 | 62 |
| 334611 | Software reproducing | 63 | 69 | 68 | 48 | 47 |
| 334612 | Precorded CD (except software), tape, & record reproducing | 51 | 50 | 58 | 59 | 63 |
| 334613 | Magnetic & optical recording media mfg | 79 | 75 | 77 | 64 | 71 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|---|-------------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 335 | Electrical equipment, appliance, & component mfg | 46 | 44 | 45 | 53 | 56 |
| 3351 | Electric lighting equipment mfg | 41 | 37 | 39 | 47 | 49 |
| 33511 | Electric lamp bulb & part mfg | 52 | 53 | 53 | 62 | 59 |
| 335110 | Electric lamp bulb & part mfg | 52 | 53 | 53 | 62 | 59 |
| 33512 | Lighting fixture mfg | 39 | 35 | 36 | 43 | 45 |
| 335121 | Residential electric lighting fixture mfg | ^a 41 | ^a 24 | 27 | 35 | 39 |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 35 | 35 | 38 | 46 | 47 |
| 335129 | Other lighting equipment mfg | 43 | 44 | 40 | 46 | 49 |
| 3352 | Household appliance mfg | 59 | 52 | 51 | 52 | 57 |
| 33521 | Small electrical appliance mfg | 58 | 43 | 47 | 47 | 51 |
| 335211 | Electric housewares & household fan mfg | 64 | 45 | 44 | 43 | 55 |
| 335212 | Household vacuum cleaner mfg | 53 | 41 | 49 | 51 | 48 |
| 33522 | Major appliance mfg | 60 | 56 | 53 | 54 | 59 |
| 335221 | Household cooking appliance mfg | 43 | 43 | 38 | 41 | 43 |
| 335222 | Household refrigerator & home freezer mfg | 61 | 58 | 58 | 53 | 59 |
| 335224 | Household laundry equipment mfg | 71 | 71 | 77 | 75 | 75 |
| 335228 | Other major household appliance mfg | 65 | 52 | 54 | 54 | 64 |
| 3353 | Electrical equipment mfg | 38 | 43 | 42 | 51 | 54 |
| 33531 | Electrical equipment mfg | 38 | 43 | 42 | 51 | 54 |
| 335311 | Power, distribution, & specialty transformer mfg | 46 | 46 | 52 | 61 | 63 |
| 335312 | Motor & generator mfg | 37 | 46 | 45 | 49 | 61 |
| 335313 | Switchgear & switchboard apparatus mfg | 45 | 45 | 41 | 59 | 58 |
| 335314 | Relay & industrial control mfg | 33 | 38 | 38 | 45 | 44 |
| 3359 | Other electrical equipment & component mfg | 50 | 44 | 47 | 57 | 61 |
| 33591 | Battery mfg | 55 | 49 | 52 | 59 | 68 |
| 335911 | Storage battery mfg | 55 | ^a 45 | ^a 51 | 63 | 67 |
| 335912 | Primary battery mfg | 56 | 54 | 54 | 54 | 69 |
| 33592 | Communication & energy wire & cable mfg | 54 | 41 | 53 | 67 | 73 |
| 335921 | Fiber optic cable mfg | ^a 50 | ^a 34 | ^a 54 | 78 | 73 |
| 335929 | Other communication & energy wire mfg | 57 | 47 | 53 | 64 | 72 |
| 33593 | Wiring device mfg | 50 | 51 | 51 | 56 | 58 |
| 335931 | Current-carrying wiring device mfg | 49 | 50 | 51 | 55 | 55 |
| 335932 | Noncurrent-carrying wiring device mfg | 50 | 51 | 51 | 57 | 63 |
| 33599 | All other electrical equipment & component mfg | 41 | 37 | 36 | 48 | 50 |
| 335991 | Carbon & graphite product mfg | 56 | 43 | 44 | 54 | 63 |
| 335999 | All other miscellaneous electrical equipment & component mfg | ^a 39 | 36 | ^a 35 | 47 | 47 |
| 336 | Transportation equipment mfg | 47 | 45 | 45 | 48 | 54 |
| 3361 | Motor vehicle mfg | 52 | 52 | 51 | 55 | 62 |
| 33611 | Automobile & light duty motor vehicle mfg | 52 | 53 | 54 | 55 | 61 |
| 336111 | Automobile mfg | 47 | 48 | 49 | 55 | 57 |
| 336112 | Light truck & utility vehicle mfg | 60 | 59 | 61 | 56 | 64 |
| 33612 | Heavy duty truck mfg | 44 | 35 | 29 | 44 | 70 |
| 336120 | Heavy duty truck mfg | 44 | 35 | 29 | 44 | 70 |
| 3362 | Motor vehicle body & trailer mfg | 36 | 36 | 30 | 34 | 43 |
| 33621 | Motor vehicle body & trailer mfg | 36 | 36 | 30 | 34 | 43 |
| 336211 | Motor vehicle body mfg | 41 | 35 | 37 | 43 | 46 |
| 336212 | Truck trailer mfg | 38 | 36 | 26 | 36 | 54 |
| 336213 | Motor home mfg | 37 | 33 | 26 | 27 | 34 |
| 336214 | Travel trailer & camper mfg | 29 | 38 | 28 | 29 | 38 |
| 3363 | Motor vehicle parts mfg | 56 | 54 | 52 | 57 | 64 |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 56 | 56 | 56 | 59 | 66 |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 70 | 68 | 50 | 61 | 64 |
| 336312 | Gasoline engine & engine parts mfg | 54 | 54 | 57 | 59 | 66 |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 48 | 43 | 44 | 55 | 65 |
| 336321 | Vehicular lighting equipment mfg | 64 | 59 | 56 | 56 | 66 |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 46 | 41 | 43 | 55 | 64 |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 54 | 59 | 57 | 60 | 69 |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 54 | 59 | 57 | 60 | 69 |
| 33634 | Motor vehicle brake system mfg | 59 | 60 | 48 | 50 | 59 |
| 336340 | Motor vehicle brake system mfg | 59 | 60 | 48 | 50 | 59 |
| 33635 | Motor vehicle transmission & power train parts mfg | 64 | 66 | 63 | 60 | 75 |
| 336350 | Motor vehicle transmission & power train parts mfg | 64 | 66 | 63 | 60 | 75 |
| 33636 | Motor vehicle seating & interior trim mfg | 60 | 48 | 51 | 55 | 58 |
| 336360 | Motor vehicle seating & interior trim mfg | 60 | 48 | 51 | 55 | 58 |
| 33637 | Motor vehicle metal stamping | 59 | 57 | 56 | 58 | 65 |
| 336370 | Motor vehicle metal stamping | 59 | 57 | 56 | 58 | 65 |
| 33639 | Other motor vehicle parts mfg | 54 | 53 | 46 | 56 | 59 |
| 336391 | Motor vehicle air-conditioning mfg | 63 | 62 | 60 | 53 | 61 |
| 336399 | All other motor vehicle parts mfg | 53 | 52 | 45 | 56 | 59 |
| 3364 | Aerospace product & parts mfg | 41 | 38 | 39 | 40 | 45 |
| 33641 | Aerospace product & parts mfg | 41 | 38 | 39 | 40 | 45 |
| 336411 | Aircraft mfg | 34 | 35 | 47 | 44 | 51 |
| 336412 | Aircraft engine & engine parts mfg | ^a 50 | 42 | 39 | 42 | 41 |
| 336413 | Other aircraft part & auxiliary equipment mfg | 41 | 44 | 47 | 51 | 53 |
| 336414 | Guided missile & space vehicle mfg | 85 | ^a 38 | ^a 21 | ^a 27 | ^a 32 |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 25 | 27 | 22 | 23 | 25 |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 39 | 37 | 36 | 50 | 45 |
| 3365 | Railroad rolling stock mfg | 41 | 37 | ^a 44 | 57 | 64 |
| 33651 | Railroad rolling stock mfg | 41 | 37 | ^a 44 | 57 | 64 |
| 336510 | Railroad rolling stock mfg | 41 | 37 | ^a 44 | 57 | 64 |
| 3366 | Ship & boat building | 38 | 37 | 36 | 39 | 40 |
| 33661 | Ship & boat building | 38 | 37 | 36 | 39 | 40 |
| 336611 | Ship building & repairing | ^a 38 | 40 | 38 | 40 | 42 |
| 336612 | Boat building | 39 | 34 | ^a 33 | 37 | 38 |
| 3369 | Other transportation equipment mfg | 27 | 29 | 34 | 40 | 48 |
| 33699 | Other transportation equipment mfg | 27 | 29 | 34 | 40 | 48 |
| 336991 | Motorcycle, bicycle, & parts mfg | ^a 17 | ^a 18 | ^a 24 | ^a 40 | 54 |
| 336992 | Military armored vehicle, tank, & tank component mfg | 39 | 37 | 36 | 26 | 27 |
| 336999 | All other transportation equipment mfg | 42 | 47 | 47 | 50 | 49 |

See footnotes at end of table.

Table 1b. National Emergency Capacity Utilization Rates by Industry: Fourth Quarters 1999 Through 2003—Con.

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

| NAICS code | Industry | National emergency rate | | | | |
|------------|---|-------------------------|-----------------|-----------------|-----------------|------|
| | | 2003 | 2002 | 2001 | 2000 | 1999 |
| 337 | Furniture & related product mfg | 36 | 36 | 36 | 41 | 46 |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 36 | 34 | 35 | 40 | 49 |
| 33711 | Wood kitchen cabinet & counter top mfg | 46 | 43 | 48 | 48 | 56 |
| 337110 | Wood kitchen cabinet & counter top mfg | 46 | 43 | 48 | 48 | 56 |
| 33712 | Household & institutional furniture mfg | 32 | 31 | 31 | 38 | 47 |
| 337121 | Upholstered household furniture mfg | 44 | 39 | 44 | 45 | 48 |
| 337122 | Nonupholstered wood household furniture mfg | 28 | 28 | 30 | 35 | 50 |
| 337124 | Metal household furniture mfg | ^a 22 | ^a 24 | 27 | 35 | 40 |
| 337125 | Household furniture (except wood & metal) mfg | 36 | 32 | 35 | 42 | 46 |
| 337127 | Institutional furniture mfg | 36 | 32 | 24 | 37 | 41 |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | ^a 30 | 44 | 46 | 46 | 46 |
| 3372 | Office furniture (including fixtures) mfg | 35 | 39 | 38 | 43 | 45 |
| 33721 | Office furniture (including fixtures) mfg | 35 | 39 | 38 | 43 | 45 |
| 337211 | Wood office furniture mfg | ^a 31 | 31 | 34 | 37 | 41 |
| 337212 | Custom architectural woodwork & millwork mfg | 47 | 40 | 34 | 35 | 39 |
| 337214 | Office furniture (except wood) mfg | 30 | 39 | 43 | 53 | 50 |
| 337215 | Showcase, partition, shelving, & locker mfg | 43 | 42 | 37 | 40 | 42 |
| 3379 | Other furniture related product mfg | 44 | 40 | 36 | 38 | 42 |
| 33791 | Mattress mfg | 42 | 40 | 37 | 43 | 40 |
| 337910 | Mattress mfg | 42 | 40 | 37 | 43 | 40 |
| 33792 | Blind & shade mfg | 48 | 40 | 35 | 32 | 46 |
| 337920 | Blind & shade mfg | 48 | 40 | 35 | 32 | 46 |
| 339 | Miscellaneous mfg | 43 | 40 | 43 | 47 | 44 |
| 3391 | Medical equipment & supplies mfg | 48 | 44 | 49 | 53 | 45 |
| 33911 | Medical equipment & supplies mfg | 48 | 44 | 49 | 53 | 45 |
| 339111 | Laboratory apparatus & furniture mfg | 33 | 38 | 43 | 43 | 39 |
| 339112 | Surgical & medical instrument mfg | 46 | 40 | 46 | 51 | 46 |
| 339113 | Surgical appliance & supplies mfg | 52 | 48 | 51 | 60 | 63 |
| 339114 | Dental equipment & supplies mfg | 50 | 48 | 49 | 50 | 53 |
| 339115 | Ophthalmic goods mfg | 50 | 43 | 53 | 49 | 17 |
| 339116 | Dental laboratories | 56 | 66 | 55 | 56 | 61 |
| 3399 | Other miscellaneous mfg | 37 | 36 | 37 | 42 | 43 |
| 33991 | Jewelry & silverware mfg | 33 | 33 | 34 | 39 | 41 |
| 339911 | Jewelry (except costume) mfg | 34 | 35 | 35 | 42 | 42 |
| 339912 | Silverware & plated ware mfg | 28 | 27 | 30 | 45 | 51 |
| 339913 | Jewelers' material & lapidary work mfg | 57 | 50 | 46 | 30 | 40 |
| 339914 | Costume jewelry & novelty mfg | 28 | 28 | ^a 30 | 31 | 33 |
| 33992 | Sporting & athletic goods mfg | 34 | 30 | 34 | 35 | 39 |
| 339920 | Sporting & athletic goods mfg | 34 | 30 | 34 | 35 | 39 |
| 33993 | Doll, toy, & game mfg | 38 | 45 | 34 | 40 | 47 |
| 339931 | Doll & stuffed toy mfg | ^a 14 | ^a 24 | ^a 51 | ^a 44 | 56 |
| 339932 | Game, toy, & children's vehicle mfg | 46 | 50 | 33 | 40 | 46 |
| 33994 | Office supplies (except paper) mfg | 49 | 43 | 45 | 48 | 49 |
| 339941 | Pen & mechanical pencil mfg | 42 | 41 | 38 | 48 | 53 |
| 339942 | Lead pencil & art good mfg | 63 | 64 | 75 | 68 | 53 |
| 339943 | Marking device mfg | 44 | ^a 31 | 32 | 33 | 46 |
| 339944 | Carbon paper & inked ribbon mfg | 58 | 40 | 55 | 52 | 42 |
| 33995 | Sign mfg | 45 | 41 | 41 | 48 | 53 |
| 339950 | Sign mfg | 45 | 41 | 41 | 48 | 53 |
| 33999 | All other miscellaneous mfg | 36 | 36 | 38 | 43 | 42 |
| 339991 | Gasket, packing, & sealing device mfg | 45 | 45 | 49 | 57 | 49 |
| 339992 | Musical instrument mfg | 17 | 14 | 17 | 31 | 29 |
| 339993 | Fastener, button, needle, & pin mfg | 31 | 39 | 39 | 48 | 60 |
| 339994 | Broom, brush, & mop mfg | 36 | 35 | 36 | 39 | 38 |
| 339995 | Burial casket mfg | 46 | 45 | 50 | 53 | 49 |
| 339999 | All other miscellaneous mfg | 40 | ^a 45 | ^a 43 | 38 | 40 |
| 5111 | Newspaper, periodical, book, and database publishers | ^a 76 | 69 | (NA) | (NA) | (NA) |

¹Excluding NAICS 5111, Newspaper, periodical, book, and database publishers.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|-------------------------------|----------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | National emergency production | | 2003 | 2002 |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 31-33 | Manufacturing ² | 64 | 63 | 47 | 45 | 1 | 1 | 4 | 1 | 1 | 3 |
| | Durable goods industries ² | 61 | 59 | 41 | 40 | 1 | 1 | 3 | 1 | 1 | 3 |
| | Nondurable goods industries ² .. | 69 | 69 | 56 | 52 | 1 | 1 | 4 | 1 | 1 | 6 |
| | Advanced processing industries ² | 62 | 61 | 45 | 43 | 1 | 1 | 3 | 1 | 1 | 2 |
| | Primary processing industries ² . | 70 | 68 | 51 | 50 | 1 | 1 | 2 | 2 | 1 | 2 |
| 311 | Food mfg | 74 | 73 | 61 | 58 | 2 | 2 | 5 | 2 | 2 | 7 |
| 3111 | Animal food mfg | 71 | 73 | 59 | 59 | 7 | 5 | 2 | 5 | 4 | 2 |
| 31111 | Animal food mfg | 71 | 73 | 59 | 59 | 7 | 5 | 2 | 5 | 4 | 2 |
| 311111 | Dog & cat food mfg | 81 | 80 | 71 | 73 | 3 | 4 | 3 | 4 | 4 | 3 |
| 311119 | Other animal food mfg | 63 | 68 | 50 | 48 | 11 | 8 | 4 | 7 | 6 | 6 |
| 3112 | Grain & oilseed milling | 84 | 79 | 76 | 73 | 2 | 2 | 3 | 2 | 2 | 2 |
| 31121 | Flour milling & malt mfg | 79 | 78 | 70 | 68 | 4 | 4 | 2 | 6 | 6 | 2 |
| 311211 | Flour milling | 79 | 79 | 70 | 71 | 5 | 5 | 2 | 7 | 7 | 2 |
| 311212 | Rice milling | 78 | 74 | 75 | 70 | 2 | 2 | 3 | 3 | 2 | 2 |
| 311213 | Malt mfg | 82 | 75 | 54 | 44 | 12 | 12 | 2 | 23 | 20 | 5 |
| 31122 | Starch & vegetable fats & oils mfg | 90 | 91 | 89 | 90 | 2 | 2 | 3 | 2 | 2 | 3 |
| 311221 | Wet corn milling | 95 | 93 | 95 | 93 | 1 | 2 | 2 | 1 | 2 | 2 |
| 311222 | Soybean processing | 94 | 96 | 94 | 96 | 1 | 1 | 2 | 1 | 2 | 2 |
| 311223 | Other oilseed processing | 76 | 70 | 76 | 70 | 6 | 7 | 3 | 6 | 7 | 3 |
| 311225 | Fats & oils refining & blending | 80 | 84 | 78 | 83 | 5 | 5 | 2 | 5 | 5 | 2 |
| 31123 | Breakfast cereal mfg | 81 | a ⁷² | 69 | a ⁶⁵ | 2 | a ³ | 2 | 2 | a ² | 2 |
| 311230 | Breakfast cereal mfg | 81 | a ⁷² | 69 | a ⁶⁵ | 2 | a ³ | 3 | 2 | a ² | 2 |
| 3113 | Sugar & confectionery product mfg | 70 | 69 | 56 | 56 | 2 | 2 | 1 | 3 | 3 | 1 |
| 31131 | Sugar mfg | 93 | 93 | 90 | 85 | 1 | 1 | 3 | 2 | 1 | 5 |
| 311311 | Sugarcane mills | 98 | 93 | 91 | 92 | 2 | 2 | 3 | 4 | 2 | 5 |
| 311312 | Cane sugar refining | a ⁷¹ | a ⁷⁹ | a ⁶⁷ | a ⁵³ | a ¹ | a ¹ | a ¹ | a ¹ | a ¹ | a ¹ |
| 311313 | Beet sugar mfg | 99 | 97 | 99 | 97 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31132 | Chocolate & confectionery mfg from cacao beans | 83 | 81 | 79 | 76 | 1 | 1 | 1 | 1 | 1 | 1 |
| 311320 | Chocolate & confectionery mfg from cacao beans | 83 | 81 | 79 | 76 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31133 | Confectionery mfg from purchased chocolate | 83 | 81 | 79 | 76 | 1 | 1 | 1 | 1 | 1 | 1 |
| 311330 | Confectionery mfg from purchased chocolate | 64 | 63 | 46 | 45 | 2 | 2 | 1 | 4 | 4 | 1 |
| 31134 | Nonchocolate confectionery mfg | 64 | 63 | 46 | 45 | 2 | 2 | 1 | 4 | 4 | 1 |
| 311340 | Nonchocolate confectionery mfg | 66 | 63 | 54 | 55 | 5 | 4 | 4 | 5 | 5 | 4 |
| 3114 | Fruit & vegetable preserving & specialty food mfg | 62 | 64 | 50 | 52 | 5 | 6 | 7 | 5 | 5 | 6 |
| 31141 | Frozen food mfg | 77 | 77 | 68 | 67 | 4 | 4 | 4 | 3 | 4 | 4 |
| 311411 | Frozen fruit, juice, & vegetable mfg | 85 | 79 | 78 | 72 | 3 | 3 | 2 | 3 | 2 | 2 |
| 311412 | Frozen specialty food mfg | 72 | 76 | 63 | 64 | 5 | 6 | 7 | 5 | 5 | 6 |
| 31142 | Fruit & vegetable canning, pickling, & drying | 54 | 57 | 42 | 45 | 7 | 8 | 2 | 6 | 7 | 2 |
| 311421 | Fruit & vegetable canning | 49 | 51 | 35 | 38 | 9 | 10 | 3 | 7 | 8 | 3 |
| 311422 | Specialty canning | 64 | 66 | 57 | 59 | 8 | 10 | 2 | 7 | 8 | 2 |
| 311423 | Dried & dehydrated food mfg | 67 | 68 | 56 | 53 | 6 | 5 | 2 | 5 | 5 | 2 |
| 3115 | Dairy product mfg | 79 | 77 | 71 | 67 | 2 | 3 | 2 | 2 | 3 | 2 |
| 31151 | Dairy product (except frozen) mfg | 81 | 78 | 75 | 70 | 2 | 3 | 3 | 3 | 3 | 2 |
| 311511 | Fluid milk mfg | 85 | 82 | 78 | 72 | 3 | 4 | 2 | 4 | 5 | 4 |
| 311512 | Creamery butter mfg | 74 | 72 | 71 | 62 | 3 | 3 | 2 | 2 | 2 | 2 |
| 311513 | Cheese mfg | 79 | 81 | 74 | 74 | 4 | 3 | 3 | 5 | 3 | 4 |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 75 | 69 | 70 | 63 | 4 | 6 | 5 | 4 | 6 | 5 |
| 31152 | Ice cream & frozen dessert mfg | a ⁷³ | 69 | a ⁵⁷ | 54 | a ² | a ⁴ | a ² | a ² | a ² | a ³ |
| 311520 | Ice cream & frozen dessert mfg | a ⁷³ | 69 | a ⁵⁷ | 54 | a ² | a ⁴ | a ⁴ | a ² | a ² | a ³ |
| 3116 | Meat product mfg | 82 | 83 | 66 | 63 | 2 | 2 | 2 | 2 | 3 | 2 |
| 31161 | Animal slaughtering & processing | 82 | 83 | 66 | 63 | 2 | 2 | 2 | 2 | 3 | 2 |
| 311611 | Animal (except poultry) slaughtering | 84 | 88 | 69 | 70 | 1 | 1 | 1 | 4 | 4 | 2 |
| 311612 | Meat processed from carcasses | 75 | 77 | 61 | 62 | 4 | 3 | 2 | 3 | 3 | 3 |
| 311613 | Rendering & meat byproduct processing | 78 | 76 | 55 | 59 | 5 | 4 | 6 | 5 | 8 | 8 |
| 311615 | Poultry processing | 87 | 86 | 69 | 61 | 3 | 4 | 2 | 3 | 6 | 5 |
| 3117 | Seafood product preparation & packaging | 61 | 56 | 36 | 35 | 8 | 8 | 5 | 5 | 6 | 5 |
| 31171 | Seafood product preparation & packaging | 61 | 56 | 36 | 35 | 8 | 8 | 3 | 5 | 6 | 4 |
| 311711 | Seafood canning | 69 | 64 | 60 | 56 | 2 | 3 | 1 | 2 | 2 | 2 |
| 311712 | Fresh & frozen seafood processing | 60 | 55 | 34 | 34 | 9 | 8 | 6 | 5 | 6 | 5 |
| 3118 | Bakeries & tortilla mfg | 72 | 73 | 62 | 55 | 3 | 2 | 6 | 2 | 5 | 8 |
| 31181 | Bread & bakery product mfg | 76 | 76 | 66 | 62 | 2 | 3 | 4 | 3 | 4 | 3 |
| 311811 | Retail bakeries | a ⁵⁸ | a ⁶⁵ | a ⁴³ | a ³³ | a ⁵ | a ⁴ | a ³ | a ⁴ | a ⁹ | a ¹⁰ |
| 311812 | Commercial bakeries | 78 | 76 | 70 | 68 | 3 | 3 | 2 | 4 | 4 | 2 |
| 311813 | Frozen cakes, pies, & other pastries mfg | 80 | 78 | 67 | 61 | 5 | 4 | 1 | 7 | 5 | 6 |
| 31182 | Cookie, cracker, & pasta mfg | 64 | 68 | 55 | 44 | 5 | 3 | 1 | 3 | 9 | 2 |
| 311821 | Cookie & cracker mfg | 62 | 66 | 54 | 40 | 6 | 3 | 5 | 4 | 10 | 7 |
| 311822 | Flour mixes & dough mfg from purchased flour | 69 | 72 | 57 | 60 | 7 | 6 | 3 | 7 | 6 | 4 |
| 311823 | Dry pasta mfg | 63 | 77 | 61 | 73 | 3 | 5 | 4 | 3 | 5 | 4 |
| 31183 | Tortilla mfg | 81 | 79 | 66 | 66 | 2 | 3 | 2 | 3 | 3 | 2 |
| 311830 | Tortilla mfg | 81 | 79 | 66 | 66 | 2 | 3 | 2 | 3 | 3 | 3 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | | |
|------------|---|-----------------|----------------|-------------------------------|----------------|------------------------------|---------------|-------------------------------|---------------|---------------|---------------------|----------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | National emergency production | | Level | 2002 to 2003 change | |
| | | | | | | Level | | 2003 | 2002 | | | |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | | |
| 311 | Food mfg—Con. | | | | | | | | | | | |
| 3119 | Other food mfg | 74 | 73 | 58 | 55 | 2 | 2 | 1 | 2 | 3 | 3 | 6 |
| 31191 | Snack food mfg | 85 | 80 | 72 | 66 | 2 | 2 | 2 | 3 | 3 | 3 | 5 |
| 311911 | Roasted nuts & peanut butter mfg | 72 | 76 | 71 | 64 | 2 | 6 | 5 | 2 | 6 | 5 | 5 |
| 311919 | Other snack food mfg | 89 | 81 | 72 | 67 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |
| 31192 | Coffee & tea mfg | ^{a71} | 71 | ^{a39} | 39 | ^{a4} | 3 | ^{a1} | ^{a8} | 11 | 11 | ^{a2} |
| 311920 | Coffee & tea mfg | ^{a71} | 71 | ^{a39} | 39 | ^{a4} | 3 | ^{a1} | ^{a8} | 11 | 11 | ^{a10} |
| 31193 | Flavoring syrup & concentrate mfg | 72 | 70 | 56 | 54 | 1 | 1 | 6 | 3 | 6 | 5 | 5 |
| 311930 | Flavoring syrup & concentrate mfg | 72 | 70 | 56 | 54 | 1 | 3 | 3 | 3 | 3 | 6 | 5 |
| 31194 | Seasoning & dressing mfg | 67 | 67 | 58 | 57 | 4 | 5 | 3 | 4 | 5 | 5 | 10 |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 74 | 74 | 65 | 65 | 6 | 6 | 6 | 6 | 6 | 5 | 5 |
| 311942 | Spice & extract mfg | 61 | 62 | 53 | 50 | 5 | 7 | 9 | 4 | 7 | 7 | 7 |
| 31199 | All other food mfg | 70 | 71 | 54 | 51 | 4 | 4 | 2 | 2 | 5 | 5 | 2 |
| 311991 | Perishable prepared food mfg | 68 | 67 | 62 | 61 | 7 | 7 | 2 | 2 | 6 | 6 | 2 |
| 311999 | All other miscellaneous food mfg | 70 | 72 | 53 | 49 | 4 | 5 | 3 | 5 | 5 | 6 | 2 |
| 312 | Beverage & tobacco product mfg | 64 | 65 | 53 | 50 | 1 | 1 | 9 | 1 | 1 | 1 | 7 |
| 3121 | Beverage mfg | 68 | 65 | 59 | 53 | 2 | 2 | 3 | 2 | 3 | 2 | 2 |
| 31211 | Soft drink & iced mfg | 63 | 57 | 54 | 44 | 4 | 3 | 3 | 4 | 3 | 3 | 4 |
| 312111 | Soft drink mfg | 70 | 60 | 59 | 47 | 4 | 4 | 5 | 4 | 4 | 4 | 5 |
| 312112 | Bottled water mfg | 32 | 50 | 31 | 30 | 2 | 6 | 6 | 2 | 3 | 3 | 3 |
| 312113 | Ice mfg | 28 | 23 | 24 | 20 | 6 | 4 | 3 | 5 | 3 | 3 | 3 |
| 31212 | Breweries | 78 | 81 | 77 | 80 | 2 | 2 | 4 | 3 | 3 | 3 | 4 |
| 312120 | Breweries | 78 | 81 | 77 | 80 | 2 | 2 | 1 | 1 | 3 | 3 | 1 |
| 31213 | Wineries | 63 | 66 | 49 | 55 | 4 | 4 | 2 | 4 | 6 | 6 | 3 |
| 312130 | Wineries | 63 | 66 | 49 | 55 | 4 | 4 | 2 | 4 | 6 | 6 | 5 |
| 31214 | Distilleries | 69 | 66 | 53 | 43 | 1 | 3 | 5 | 2 | 6 | 6 | 6 |
| 312140 | Distilleries | 69 | 66 | 53 | 43 | 1 | 3 | 3 | 2 | 6 | 6 | 6 |
| 3122 | Tobacco mfg | 61 | 65 | 50 | 48 | 1 | 1 | 6 | 1 | 1 | 1 | 5 |
| 31221 | Tobacco stemming & redrying | 77 | 59 | 61 | 45 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| 312210 | Tobacco stemming & redrying | 77 | 59 | 61 | 45 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31222 | Tobacco product mfg | 61 | 65 | 50 | 48 | 1 | 1 | 3 | 1 | 1 | 1 | 5 |
| 312221 | Cigarette mfg | 61 | 65 | 50 | 48 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 312229 | Other tobacco product mfg | 69 | 66 | 53 | 54 | 10 | 7 | 5 | 12 | 8 | 8 | 4 |
| 313 | Textile mills | 64 | 66 | 55 | 56 | 2 | 2 | 5 | 2 | 2 | 2 | 4 |
| 3131 | Fiber, yarn, & thread mills | 77 | 74 | 73 | 65 | 3 | 4 | 3 | 3 | 5 | 5 | 2 |
| 31311 | Fiber, yarn, & thread mills | 77 | 74 | 73 | 65 | 3 | 4 | 2 | 3 | 5 | 5 | 2 |
| 313111 | Yarn spinning mills | 82 | 78 | 79 | 71 | 3 | 5 | 5 | 4 | 6 | 6 | 6 |
| 313112 | Yarn texturing, throwing, & twisting mills | 68 | 69 | 62 | 58 | 4 | 5 | 2 | 3 | 8 | 7 | 7 |
| 313113 | Thread mills | ^{a72} | 66 | ^{a70} | 53 | ^{a6} | 3 | ^{a6} | ^{a6} | 3 | 3 | ^{a7} |
| 3132 | Fabric mills | 66 | 65 | 55 | 56 | 2 | 3 | 2 | 3 | 3 | 3 | 5 |
| 31321 | Broadwoven fabric mills | 69 | 66 | 60 | 60 | 4 | 4 | 5 | 5 | 4 | 4 | 5 |
| 313210 | Broadwoven fabric mills | 69 | 66 | 60 | 60 | 4 | 4 | 4 | 4 | 5 | 4 | 3 |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 64 | 68 | 51 | 54 | 3 | 3 | 6 | 2 | 3 | 3 | 3 |
| 313221 | Narrow fabric mills | 68 | 69 | 53 | 56 | 3 | 3 | 2 | 3 | 3 | 3 | 1 |
| 313222 | Schiffli machine embroidery | 53 | 66 | 42 | 46 | 3 | 3 | 4 | 2 | 5 | 5 | 6 |
| 31323 | Nonwoven fabric mills | 60 | 62 | 51 | 52 | 4 | 4 | 3 | 5 | 5 | 5 | 3 |
| 313230 | Nonwoven fabric mills | 60 | 62 | 51 | 52 | 4 | 4 | 3 | 5 | 5 | 5 | 3 |
| 31324 | Knit fabric mills | 62 | 63 | 50 | 50 | 3 | 3 | 1 | 3 | 3 | 3 | 1 |
| 313241 | Welt knit fabric mills | 71 | 71 | 53 | 53 | 8 | 7 | 5 | 5 | 7 | 4 | 4 |
| 313249 | Other knit fabric & lace mills | 58 | 59 | 48 | 48 | 2 | 3 | 1 | 3 | 3 | 3 | 1 |
| 3133 | Textile & fabric finishing & fabric coating mills | 58 | 64 | 49 | 52 | 4 | 3 | 1 | 4 | 3 | 3 | 1 |
| 31331 | Textile & fabric finishing mills | 58 | 65 | 49 | 52 | 5 | 3 | 3 | 4 | 4 | 4 | 6 |
| 313311 | Broadwoven fabric finishing mills | 55 | 71 | 49 | 54 | 6 | 4 | 5 | 6 | 5 | 5 | 5 |
| 313312 | Textile & fabric finishing mills | 63 | 55 | 49 | 49 | 6 | 4 | 5 | 6 | 4 | 4 | 5 |
| 31332 | Fabric coating mills | 61 | 59 | 48 | 48 | 6 | 4 | 1 | 4 | 3 | 3 | 1 |
| 313320 | Fabric coating mills | 61 | 59 | 48 | 48 | 6 | 4 | 3 | 4 | 3 | 3 | 2 |
| 314 | Textile product mills | 73 | 66 | 52 | 46 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |
| 3141 | Textile furnishings mills | 76 | 73 | 51 | 49 | 2 | 3 | 6 | 4 | 3 | 3 | 7 |
| 31411 | Carpet & rug mills | 78 | 75 | 66 | 61 | 2 | 2 | 5 | 3 | 3 | 3 | 6 |
| 314110 | Carpet & rug mills | 78 | 75 | 66 | 61 | 2 | 2 | 2 | 3 | 3 | 3 | 2 |
| 31412 | Curtain & linen mills | 73 | 72 | 42 | 40 | 4 | 4 | 2 | 5 | 4 | 4 | 7 |
| 314121 | Curtain & drapery mills | ^{a72} | 77 | ^{a44} | 44 | ^{a3} | 3 | ^{a3} | ^{a6} | 6 | 6 | ^{a2} |
| 314129 | Other household textile product mills | 73 | 70 | 41 | 39 | 5 | 5 | 3 | 6 | 5 | 5 | 3 |
| 3149 | Other textile product mills | 69 | 57 | 54 | 41 | 3 | 3 | 4 | 4 | 3 | 3 | 6 |
| 31491 | Textile bag & canvas mills | 59 | 61 | 40 | 40 | 4 | 5 | 4 | 4 | 4 | 4 | 3 |
| 314911 | Textile bag mills | ^{a49} | 67 | ^{a30} | 34 | ^{a3} | 5 | ^{a5} | ^{a2} | 4 | 4 | ^{a3} |
| 314912 | Canvas & related product mills | 66 | 59 | 48 | 43 | 6 | 6 | 9 | 7 | 6 | 6 | 7 |
| 31499 | All other textile product mills | 73 | 55 | 63 | 42 | 4 | 3 | 2 | 7 | 4 | 4 | 1 |
| 314991 | Rope, cordage, & twine mills | 61 | 61 | 55 | 38 | 6 | 5 | 4 | 5 | 7 | 7 | 8 |
| 314992 | Tire cord & tire fabric mills | 89 | 83 | 89 | 81 | 3 | 4 | 2 | 3 | 4 | 4 | 2 |
| 314999 | All other miscellaneous textile product mills | 73 | 53 | 62 | 40 | 5 | 4 | 3 | 8 | 4 | 4 | 6 |
| 315 | Apparel mfg | 66 | 72 | 32 | 31 | 2 | 2 | 4 | 2 | 3 | 3 | 8 |
| 3151 | Apparel knitting mills | 65 | 78 | 47 | 52 | 5 | 2 | 5 | 4 | 4 | 4 | 5 |
| 31511 | Hosiery & sock mills | 75 | 78 | 59 | 50 | 3 | 2 | 5 | 3 | 5 | 4 | 4 |
| 315111 | Sheer hosiery mills | 80 | 77 | 58 | 46 | 4 | 3 | 4 | 8 | 6 | 6 | 6 |
| 315119 | Other hosiery & sock mills | 73 | 78 | 59 | 52 | 3 | 2 | 2 | 2 | 6 | 6 | 6 |
| 31515 | Other apparel knitting mills | ^{a54} | ^{a77} | ^{a35} | ^{a54} | ^{a8} | ^{a4} | ^{a1} | ^{a6} | ^{a7} | ^{a1} | ^{a7} |
| 315151 | Outerwear knitting mills | ^{a52} | ^{a75} | ^{a32} | ^{a49} | ^{a9} | ^{a5} | ^{a5} | ^{a6} | ^{a6} | ^{a8} | ^{a7} |
| 315152 | Underwear & nightwear knitting mills | 68 | ^{a91} | 68 | ^{a91} | 1 | ^{a1} | ^{a1} | 2 | ^{a1} | ^{a1} | 2 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | | | |
|------------|--|-----------------|-----------------|-------------------------------|-----------------|------------------------------|-----------------|-----------------|----------------|---------------------|-------------------------------|----------------|----------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | Level | | 2002 to 2003 change | National emergency production | | |
| | | | | | | Level | | 2003 | 2002 | | Level | | |
| | | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2002 to 2003 change | 2003 | 2002 | |
| 315 | Apparel mfg—Con. | | | | | | | | | | | | |
| 3152 | Cut & sew apparel mfg | 66 | ^a 72 | 30 | ^a 29 | 2 | ^a 2 | 3 | 2 | ^a 3 | 3 | 3 | 5 |
| 31521 | Cut & sew apparel contractors | 68 | 69 | 18 | 11 | 3 | 3 | 5 | 4 | 3 | 3 | 3 | 5 |
| 315211 | Men's & boys' cut & sew apparel contractors | 79 | 75 | 54 | 43 | 10 | 6 | 8 | 6 | 7 | 5 | 5 | 5 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 63 | 66 | 13 | 8 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 1 |
| 31522 | Men's & boys' cut & sew apparel mfg | ^a 67 | 75 | ^a 29 | 33 | ^a 3 | 3 | ^a 3 | ^a 4 | ^a 4 | 3 | 3 | ^a 2 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | ^a 71 | ^a 60 | ^a 53 | ^a 48 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | ^a 50 | ^a 60 | ^a 36 | ^a 35 | ^a 3 | ^a 5 | ^a 5 | ^a 5 | ^a 3 | ^a 5 | ^a 5 | ^a 5 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | ^a 70 | ^a 73 | ^a 49 | ^a 54 | ^a 2 | ^a 10 | ^a 10 | ^a 3 | ^a 6 | ^a 6 | ^a 4 | |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 69 | 80 | 23 | 27 | 6 | 4 | 9 | 5 | 4 | 3 | 3 | |
| 315225 | Men's & boys' cut & sew work clothing mfg | 90 | 88 | 27 | 27 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| 315228 | Men's & boys' cut & sew other outerwear mfg | ^a 57 | 77 | ^a 31 | 35 | ^a 4 | 7 | ^a 5 | ^a 2 | ^a 2 | 2 | ^a 3 | |
| 31523 | Women's & girls' cut & sew apparel mfg | ^a 65 | ^a 70 | ^a 41 | ^a 43 | ^a 2 | ^a 2 | ^a 2 | ^a 1 | ^a 2 | ^a 2 | ^a 2 | |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 45 | ^a 63 | 34 | ^a 42 | 3 | ^a 3 | 2 | 3 | ^a 6 | 7 | | |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 82 | 83 | 50 | 53 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | |
| 315233 | Women's & girls' cut & sew dress mfg | ^a 51 | ^a 58 | ^a 48 | ^a 48 | ^a 4 | ^a 6 | ^a 3 | ^a 4 | ^a 3 | ^a 2 | | |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | ^a 60 | ^a 61 | ^a 27 | ^a 30 | ^a 1 | ^a 2 | ^a 2 | ^a 1 | ^a 2 | ^a 2 | ^a 2 | |
| 315239 | Women's & girls' cut & sew other outerwear mfg | ^a 87 | ^a 78 | ^a 42 | ^a 42 | ^a 1 | ^a 4 | ^a 4 | ^a 1 | ^a 3 | ^a 3 | ^a 3 | |
| 31529 | Other cut & sew apparel mfg | 69 | ^a 78 | 20 | ^a 31 | 5 | ^a 5 | 3 | 5 | 5 | 5 | 5 | |
| 315291 | Infants' cut & sew apparel mfg | 92 | (NA) | 31 | (NA) | 1 | (NA) | — | 1 | (NA) | (NA) | (NA) | |
| 315292 | Fur & leather apparel mfg | ^a 78 | ^a 61 | ^a 53 | ^a 44 | ^a 2 | ^a 2 | ^a 2 | ^a 4 | ^a 3 | ^a 3 | ^a 2 | |
| 315299 | All other cut & sew apparel mfg | 61 | ^a 60 | 16 | ^a 21 | 6 | ^a 4 | 4 | 5 | 5 | ^a 4 | ^a 5 | |
| 3159 | Apparel accessories & other apparel mfg | 61 | 64 | 40 | 35 | 2 | 2 | 9 | 2 | 2 | 2 | 7 | |
| 31599 | Apparel accessories & other apparel mfg | 61 | 64 | 40 | 35 | 2 | 2 | 5 | 2 | 2 | 2 | 3 | |
| 315991 | Hat, cap, & millinery mfg | 59 | 59 | 37 | 31 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | |
| 315992 | Glove & mitten mfg | 37 | ^a 51 | 25 | ^a 20 | 3 | ^a 4 | 3 | 3 | 3 | ^a 3 | 4 | |
| 315993 | Men's & boys' neckwear mfg | 71 | 76 | 40 | 47 | 2 | 3 | 5 | 6 | 5 | 5 | 4 | |
| 315999 | Other apparel accessories & other apparel mfg | 66 | 68 | 46 | 40 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | |
| 316 | Leather & allied product mfg | 58 | 54 | 33 | 27 | 2 | 2 | 8 | 2 | 2 | 2 | 5 | |
| 3161 | Leather & hide tanning & finishing | 70 | 63 | 64 | 52 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | |
| 31611 | Leather & hide tanning & finishing | 70 | 63 | 64 | 52 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| 316110 | Leather & hide tanning & finishing | 70 | 63 | 64 | 52 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 3162 | Footwear mfg | 52 | ^a 48 | 31 | ^a 26 | 3 | ^a 1 | ^a 2 | 3 | ^a 2 | ^a 2 | ^a 6 | |
| 31621 | Footwear mfg | 52 | ^a 48 | 31 | ^a 26 | 3 | ^a 1 | ^a 4 | 3 | ^a 3 | ^a 2 | ^a 6 | |
| 316211 | Rubber & plastics footwear mfg | 54 | ^a 41 | 38 | ^a 30 | 8 | ^a 1 | ^a 9 | 8 | ^a 8 | ^a 2 | ^a 9 | |
| 316212 | House slipper mfg | 69 | 57 | 36 | 19 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | |
| 316213 | Men's footwear (except athletic) mfg | 59 | 61 | 34 | 35 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | |
| 316214 | Women's footwear (except athletic) mfg | ^a 27 | ^a 26 | ^a 12 | ^a 10 | ^a 2 | ^a 2 | ^a 1 | ^a 2 | ^a 1 | ^a 1 | ^a 1 | |
| 316219 | Other footwear mfg | ^a 69 | ^a 79 | ^a 54 | ^a 65 | ^a 1 | ^a 3 | ^a 4 | ^a 1 | ^a 1 | ^a 4 | ^a 4 | |
| 3169 | Other leather & allied product mfg | 57 | 56 | 27 | 20 | 4 | 4 | 2 | 3 | 3 | 3 | 2 | |
| 31699 | Other leather & allied product mfg | 57 | 56 | 27 | 20 | 4 | 4 | 6 | 3 | 3 | 3 | 7 | |
| 316991 | Luggage mfg | 47 | 48 | 22 | 24 | 5 | 6 | 3 | 4 | 4 | 4 | 3 | |
| 316992 | Women's handbag & purse mfg | 69 | 62 | 34 | 29 | 7 | 7 | 1 | 8 | 7 | 7 | 2 | |
| 316993 | Personal leather good (except women's handbag & purse) mfg | ^a 74 | ^a 55 | ^a 34 | ^a 9 | ^a 2 | ^a 3 | ^a 3 | ^a 2 | ^a 4 | ^a 4 | ^a 3 | |
| 316999 | All other leather good mfg | ^a 73 | 78 | ^a 35 | 27 | ^a 1 | ^a 4 | ^a 4 | ^a 3 | ^a 3 | ^a 3 | ^a 3 | |
| 321 | Wood product mfg | 70 | 67 | 43 | 42 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| 3211 | Sawmills & wood preservation | 73 | 75 | 51 | 50 | 4 | 4 | 1 | 5 | 5 | 5 | 1 | |
| 32111 | Sawmills & wood preservation | 73 | 75 | 51 | 50 | 4 | 4 | 2 | 5 | 5 | 5 | 1 | |
| 321113 | Sawmills | 74 | 75 | 51 | 52 | 5 | 4 | 4 | 5 | 5 | 6 | 4 | |
| 321114 | Wood preservation | 66 | 71 | 53 | 41 | 4 | 6 | 4 | 5 | 5 | 9 | 9 | |
| 3212 | Veneer, plywood, & engineered wood product mfg | 76 | 66 | 53 | 43 | 3 | 4 | 10 | 5 | 5 | 5 | 4 | |
| 32121 | Veneer, plywood, & engineered wood product mfg | 76 | 66 | 53 | 43 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | |
| 321211 | Hardwood veneer & plywood mfg | 69 | 67 | 42 | 43 | 4 | 4 | 3 | 5 | 5 | 5 | 3 | |
| 321212 | Softwood veneer & plywood mfg | 88 | 86 | 83 | 81 | 5 | 4 | 4 | 5 | 5 | 5 | 4 | |
| 321213 | Engineered wood member (except truss) mfg | 73 | 64 | 61 | 51 | 7 | 6 | 3 | 6 | 6 | 6 | 4 | |
| 321214 | Truss mfg | 68 | 54 | 47 | 33 | 5 | 8 | 8 | 7 | 6 | 5 | 5 | |
| 321219 | Reconstituted wood product mfg | 83 | 72 | 54 | 42 | 5 | 5 | 2 | 14 | 12 | 12 | 8 | |
| 3219 | Other wood product mfg | 67 | 65 | 38 | 39 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | |
| 32191 | Millwork | 75 | 73 | 52 | 49 | 2 | 2 | 9 | 2 | 2 | 3 | 3 | |
| 321911 | Wood window & door mfg | 73 | 72 | 59 | 59 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| 321912 | Cut stock, resawing lumber, & planing | 79 | 77 | 38 | 46 | 4 | 4 | 3 | 2 | 2 | 2 | 4 | |
| 321918 | Other millwork (including flooring) | 77 | 73 | 56 | 37 | 5 | 4 | 3 | 7 | 6 | 6 | 4 | |
| 32192 | Wood container & pallet mfg | 65 | 59 | 45 | 39 | 5 | 6 | 2 | 4 | 5 | 5 | 4 | |
| 321920 | Wood container & pallet mfg | 65 | 59 | 45 | 39 | 5 | 6 | 5 | 4 | 5 | 5 | 4 | |
| 32199 | All other wood product mfg | 58 | 58 | 26 | 30 | 3 | 2 | 5 | 2 | 2 | 2 | 3 | |
| 321991 | Manufactured home (mobile home) mfg | 55 | 54 | 20 | 25 | 4 | 3 | 4 | 2 | 2 | 3 | 2 | |
| 321992 | Prefabricated wood building mfg | 69 | 65 | 38 | 37 | 4 | 5 | 4 | 3 | 4 | 4 | 4 | |
| 321999 | All other miscellaneous wood product mfg | 56 | 59 | 32 | 37 | 4 | 3 | 2 | 5 | 4 | 4 | 3 | |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|------|-------------------------------|------|------------------------------|------|---------------------|-------------------------------|------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 322 | Paper mfg | 81 | 81 | 73 | 71 | 2 | 2 | 3 | 2 | 2 | 3 |
| 3221 | Pulp, paper, & paperboard mills | 89 | 90 | 86 | 87 | 3 | 2 | — | 4 | 3 | — |
| 32211 | Pulp mills | 89 | 87 | 81 | 78 | 4 | 4 | 3 | 7 | 6 | 2 |
| 322110 | Pulp mills | 89 | 87 | 81 | 78 | 4 | 4 | 4 | 7 | 6 | 2 |
| 32212 | Paper mills | 87 | 89 | 83 | 87 | 4 | 4 | 3 | 6 | 4 | 2 |
| 322121 | Paper (except newsprint) mills | 86 | 90 | 82 | 87 | 5 | 3 | 3 | 6 | 4 | 3 |
| 322122 | Newsprint mills | 95 | 86 | 95 | 85 | 1 | 3 | 3 | 1 | 3 | 3 |
| 32213 | Paperboard mills | 94 | 93 | 93 | 87 | 3 | 3 | 4 | 3 | 2 | 3 |
| 322130 | Paperboard mills | 94 | 93 | 93 | 87 | 3 | 3 | 2 | 3 | 2 | 3 |
| 3222 | Converted paper product mfg | 74 | 73 | 63 | 60 | 2 | 2 | 5 | 3 | 3 | 4 |
| 32221 | Paperboard container mfg | 76 | 74 | 65 | 64 | 3 | 3 | 2 | 4 | 3 | 2 |
| 322211 | Corrugated & solid fiber box mfg | 83 | 78 | 72 | 68 | 5 | 4 | 3 | 7 | 5 | 3 |
| 322212 | Folding paperboard box mfg | 86 | 79 | 73 | 70 | 4 | 3 | 3 | 4 | 4 | 2 |
| 322213 | Setup paperboard box mfg | 64 | 68 | 43 | 45 | 7 | 6 | 8 | 4 | 4 | 2 |
| 322214 | Fiber can, tube, drum, & similar products mfg | ^a35 | ^a44 | ^a28 | ^a32 | ^a4 | ^a5 | ^a3 | ^a3 | ^a4 | ^a3 |
| 322215 | Nonfolding sanitary food container mfg | 70 | 69 | 63 | 62 | 6 | 5 | 2 | 4 | 4 | 2 |
| 32222 | Paper bag & coated & treated paper mfg | 69 | 71 | 60 | 58 | 3 | 4 | 4 | 3 | 5 | 5 |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 69 | 65 | 53 | 51 | 3 | 5 | 4 | 5 | 6 | 5 |
| 322222 | Coated & laminated paper mfg | 67 | 69 | 61 | 56 | 4 | 5 | 2 | 4 | 6 | 5 |
| 322223 | Plastics, foil, & coated paper bag mfg | 73 | 73 | 50 | 53 | 9 | 7 | 3 | 12 | 10 | 4 |
| 322224 | Uncoated paper & multiwall bag mfg | 72 | 79 | 57 | 63 | 3 | 3 | 2 | 5 | 5 | 3 |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 72 | 81 | 65 | 71 | 2 | 1 | 1 | 1 | 1 | 1 |
| 322226 | Surface-coated paperboard mfg | 78 | 84 | 68 | 69 | 3 | 3 | 3 | 6 | 5 | 3 |
| 32223 | Stationery product mfg | 69 | 65 | 59 | 51 | 3 | 6 | 2 | 3 | 6 | 2 |
| 322231 | Die-cut paper & paperboard office supplies mfg | 76 | 79 | 71 | 58 | 2 | 2 | 1 | 4 | 10 | 10 |
| 322232 | Envelope mfg | 73 | 75 | 60 | 62 | 4 | 3 | 3 | 3 | 4 | 3 |
| 322233 | Stationery, tablet, & related product mfg | 58 | 44 | 48 | 35 | 6 | 11 | 11 | 6 | 10 | 11 |
| 32229 | Other converted paper product mfg | 77 | 76 | 65 | 59 | 3 | 4 | 3 | 6 | 5 | 4 |
| 322291 | Sanitary paper product mfg | 80 | 79 | 73 | 71 | 3 | 5 | 4 | 6 | 7 | 1 |
| 322299 | All other converted paper product mfg | 72 | 73 | 53 | 45 | 6 | 6 | 5 | 10 | 6 | 13 |
| 323 | Printing & related support activities | 68 | 69 | 53 | 52 | 2 | 2 | 2 | 2 | 2 | 4 |
| 3231 | Printing & related support activities | 68 | 69 | 53 | 52 | 2 | 2 | 1 | 2 | 2 | 2 |
| 32311 | Printing | 68 | 69 | 55 | 53 | 3 | 2 | 3 | 2 | 2 | 3 |
| 323110 | Commercial lithographic printing | 72 | 72 | 61 | 61 | 3 | 4 | 2 | 2 | 3 | 2 |
| 323111 | Commercial gravure printing | 88 | 84 | 79 | 73 | 4 | 4 | 5 | 7 | 6 | 4 |
| 323112 | Commercial flexographic printing | 75 | 74 | 62 | 61 | 4 | 4 | 3 | 4 | 3 | 3 |
| 323113 | Commercial screen printing | 66 | ^a57 | 44 | ^a36 | 6 | ^a3 | 6 | 7 | ^a4 | 6 |
| 323114 | Quick printing | 67 | 69 | 50 | 32 | 3 | 4 | 2 | 3 | 10 | 10 |
| 323115 | Digital printing | 82 | ^a71 | 71 | ^a56 | 4 | ^a6 | 4 | 6 | ^a7 | 4 |
| 323116 | Manifold business form printing | 52 | 64 | 44 | 53 | 10 | 3 | 10 | 7 | 3 | 7 |
| 323117 | Book printing | 59 | 64 | 55 | 58 | 4 | 5 | 3 | 4 | 5 | 2 |
| 323118 | Blankbook, looseleaf binder, & device mfg | 51 | 58 | 30 | 31 | 3 | 4 | 3 | 3 | 4 | 2 |
| 323119 | Other commercial printing | 68 | 70 | 46 | 46 | 2 | 3 | 2 | 5 | 5 | 2 |
| 32312 | Support activities for printing | 72 | 69 | 41 | 42 | 2 | 3 | 9 | 4 | 4 | 9 |
| 323121 | Tradebinding & related work | 66 | 66 | 28 | 30 | 4 | 4 | 3 | 5 | 5 | 2 |
| 323122 | Prepress services | 75 | 71 | 52 | 51 | 3 | 3 | 2 | 4 | 4 | 4 |
| 324 | Petroleum & coal products mfg | 80 | 80 | 70 | 68 | 2 | 2 | 3 | 2 | 2 | 4 |
| 3241 | Petroleum & coal products mfg | 80 | 80 | 70 | 68 | 2 | 2 | 1 | 2 | 2 | 2 |
| 32411 | Petroleum refineries | 90 | 91 | 90 | 89 | 2 | 1 | 1 | 2 | 2 | 2 |
| 324110 | Petroleum refineries | 90 | 91 | 90 | 89 | 2 | 1 | 2 | 2 | 2 | 2 |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 44 | 43 | 27 | 25 | 3 | 3 | 4 | 3 | 2 | 4 |
| 324121 | Asphalt paving mixture & block mfg | 33 | 32 | 18 | 17 | 3 | 4 | 4 | 2 | 2 | 2 |
| 324122 | Asphalt shingle & coating materials mfg | 67 | 66 | 63 | 50 | 3 | 3 | 3 | 4 | 6 | 6 |
| 32419 | Other petroleum & coal products mfg | 56 | 59 | 42 | 43 | 3 | 3 | 3 | 3 | 3 | 3 |
| 324191 | Petroleum lubricating oil & grease mfg | 55 | 59 | 41 | 43 | 3 | 3 | 3 | 3 | 3 | 2 |
| 324199 | All other petroleum & coal products mfg | 63 | 60 | 45 | 44 | 8 | 6 | 3 | 8 | 7 | 3 |
| 325 | Chemical mfg | 63 | 63 | 51 | 46 | 3 | 2 | 4 | 3 | 2 | 5 |
| 3251 | Basic chemical mfg | 75 | 72 | 69 | 64 | 2 | 2 | 3 | 2 | 2 | 4 |
| 32511 | Petrochemical mfg | 80 | 75 | 80 | 75 | 6 | 10 | 4 | 6 | 10 | 3 |
| 325110 | Petrochemical mfg | 80 | 75 | 80 | 75 | 6 | 10 | 6 | 6 | 10 | 6 |
| 32512 | Industrial gas mfg | 72 | 75 | 71 | 62 | 3 | 3 | 4 | 3 | 8 | 8 |
| 325120 | Industrial gas mfg | 72 | 75 | 71 | 62 | 3 | 3 | 4 | 3 | 8 | 8 |
| 32513 | Dye & pigment mfg | 76 | 81 | 70 | 74 | 2 | 2 | 4 | 2 | 3 | 9 |
| 325131 | Inorganic dye & pigment mfg | 83 | 86 | 81 | 78 | 2 | 2 | 1 | 2 | 4 | 3 |
| 325132 | Synthetic organic dye & pigment mfg | 68 | 76 | 60 | 70 | 4 | 4 | 2 | 3 | 3 | 2 |
| 32518 | Other basic inorganic chemical mfg | 65 | 64 | 52 | 50 | 4 | 3 | 3 | 3 | 3 | 3 |
| 325181 | Alkalies & chlorine mfg | 75 | 76 | 75 | 76 | 6 | 7 | 1 | 6 | 7 | 1 |
| 325182 | Carbon black mfg | 83 | ^a78 | 76 | ^a72 | 2 | ^a2 | 2 | 2 | ^a1 | 3 |
| 325188 | All other basic inorganic chemical mfg | 63 | 62 | 50 | 47 | 4 | 3 | 3 | 3 | 3 | 3 |
| 32519 | Other basic organic chemical mfg | 83 | 76 | 81 | 74 | 2 | 3 | 4 | 3 | 3 | 3 |
| 325191 | Gum & wood chemical mfg | 72 | 80 | 71 | 78 | 1 | 1 | 1 | 1 | 1 | 1 |
| 325192 | Cyclic crude & intermediate mfg | 73 | ^a83 | 73 | ^a72 | 3 | ^a2 | 2 | 3 | ^a5 | 4 |
| 325193 | Ethyl alcohol mfg | 97 | 86 | 97 | 62 | 1 | 4 | 4 | 1 | 10 | 10 |
| 325199 | All other basic organic chemical mfg | 84 | 75 | 82 | 74 | 2 | 3 | 4 | 3 | 3 | 4 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|--|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 325 | Chemical mfg—Con: | | | | | | | | | | |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 78 | 75 | 71 | 71 | 3 | 3 | 2 | 3 | 3 | 2 |
| 32521 | Resin & synthetic rubber mfg | 77 | 75 | 69 | 71 | 4 | 3 | 8 | 4 | 3 | 5 |
| 325211 | Plastics material & resin mfg | 80 | 79 | 72 | 75 | 4 | 3 | 2 | 4 | 4 | 2 |
| 325212 | Synthetic rubber mfg | 60 | 54 | 55 | 52 | 8 | 7 | 3 | 7 | 7 | 2 |
| 32522 | Artificial & synthetic fibers & filaments mfg | 85 | 77 | 81 | 73 | 2 | 2 | 2 | 2 | 2 | 8 |
| 325221 | Cellulosic organic fiber mfg | 90 | 84 | 81 | 73 | 1 | 1 | 2 | 1 | 1 | 2 |
| 325222 | Noncellulosic organic fiber mfg | 84 | 76 | 81 | 73 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 61 | 60 | 43 | 39 | 3 | 3 | 5 | 5 | 7 | 4 |
| 32531 | Fertilizer mfg | 63 | 66 | 54 | 53 | 4 | 3 | 3 | 4 | 4 | 4 |
| 325311 | Nitrogenous fertilizer mfg | 83 | 86 | 83 | 85 | 5 | 4 | 4 | 5 | 4 | 4 |
| 325312 | Phosphatic fertilizer mfg | 85 | 83 | 83 | 81 | 2 | 2 | 1 | 2 | 2 | 1 |
| 325314 | Fertilizer (mixing only) mfg | 41 | 45 | 31 | 30 | 3 | 5 | 4 | 2 | 4 | 3 |
| 32532 | Pesticide & other agricultural chemical mfg | 59 | 57 | 39 | 34 | 4 | 5 | 3 | 6 | 9 | 4 |
| 325320 | Pesticide & other agricultural chemical mfg | 59 | 57 | 39 | 34 | 4 | 5 | 3 | 6 | 9 | 3 |
| 3254 | Pharmaceutical & medicine mfg | 56 | 58 | 44 | 38 | 4 | 4 | 4 | 4 | 3 | 4 |
| 32541 | Pharmaceutical & medicine mfg | 56 | 58 | 44 | 38 | 4 | 4 | 4 | 4 | 3 | 2 |
| 325411 | Medicinal & botanical mfg | 73 | 80 | 61 | 61 | 7 | 5 | 6 | 10 | 8 | 6 |
| 325412 | Pharmaceutical preparation mfg | 52 | 54 | 41 | 44 | 5 | 4 | 4 | 5 | 4 | 3 |
| 325413 | In-vitro diagnostic substance mfg | 79 | ^a 84 | 49 | ^a 14 | 3 | ^a 1 | 3 | 6 | ^a 1 | 6 |
| 325414 | Biological product (except diagnostic) mfg | 69 | 72 | 67 | 68 | 4 | 7 | 4 | 4 | 6 | 3 |
| 3255 | Paint, coating, & adhesive mfg | 67 | 58 | 52 | 42 | 2 | 3 | 3 | 4 | 3 | 3 |
| 32551 | Paint & coating mfg | 69 | 61 | 53 | 42 | 3 | 4 | 2 | 4 | 4 | 3 |
| 325510 | Paint & coating mfg | 69 | 61 | 53 | 42 | 3 | 4 | 3 | 4 | 4 | 3 |
| 32552 | Adhesive mfg | 63 | 53 | 51 | 41 | 4 | 5 | 4 | 5 | 5 | 7 |
| 325520 | Adhesive mfg | 63 | 53 | 51 | 41 | 4 | 5 | 5 | 5 | 5 | 5 |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 62 | 67 | 53 | 54 | 3 | 3 | 3 | 3 | 3 | 3 |
| 32561 | Soap & cleaning compound mfg | 64 | 66 | 52 | 51 | 2 | 4 | 3 | 3 | 4 | 3 |
| 325611 | Soap & other detergent mfg | 59 | 68 | 50 | 54 | 3 | 3 | 3 | 3 | 3 | 5 |
| 325612 | Polish & other sanitation good mfg | 70 | 61 | 49 | 43 | 3 | 8 | 9 | 7 | 6 | 6 |
| 325613 | Surface active agent mfg | 73 | 76 | 70 | 72 | 5 | 3 | 4 | 4 | 2 | 4 |
| 32562 | Toilet preparation mfg | 60 | 68 | 53 | 57 | 4 | 4 | 2 | 4 | 4 | 3 |
| 325620 | Toilet preparation mfg | 60 | 68 | 53 | 57 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3259 | Other chemical product mfg | 68 | 66 | 45 | 44 | 2 | 2 | 2 | 3 | 4 | 2 |
| 32591 | Printing ink mfg | 76 | 60 | 26 | 25 | 2 | 5 | 3 | 2 | 4 | 4 |
| 325910 | Printing ink mfg | 76 | 60 | 26 | 25 | 2 | 5 | 4 | 2 | 9 | 8 |
| 32592 | Explosives mfg | 70 | 69 | 36 | 37 | 2 | 2 | 2 | 8 | 2 | 2 |
| 325920 | Explosives mfg | 70 | 69 | 36 | 37 | 2 | 2 | 1 | 2 | 2 | 1 |
| 32599 | All other chemical product & preparation mfg | 67 | 67 | 51 | 49 | 2 | 2 | 3 | 4 | 3 | 3 |
| 325991 | Custom compounding of purchased resin | 71 | 69 | 64 | 62 | 3 | 3 | 2 | 4 | 3 | 3 |
| 325992 | Photographic film, paper, plate, & chemical mfg | 72 | 69 | 65 | 64 | 3 | 3 | 3 | 4 | 3 | 3 |
| 325998 | All other miscellaneous chemical product & preparation mfg | 61 | 63 | 39 | 38 | 3 | 4 | 3 | 5 | 4 | 3 |
| 326 | Plastics & rubber products mfg | 73 | 68 | 63 | 57 | 1 | 2 | 3 | 2 | 2 | 3 |
| 3261 | Plastics product mfg | 72 | 66 | 64 | 56 | 2 | 3 | 11 | 2 | 3 | 11 |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 72 | 70 | 68 | 65 | 3 | 3 | 2 | 3 | 3 | 5 |
| 326111 | Unsupported plastics bag mfg | 73 | 65 | 70 | 63 | 3 | 2 | 3 | 2 | 3 | 14 |
| 326112 | Unsupported plastics packaging film & sheet mfg | 67 | 70 | 59 | 61 | 5 | 6 | 3 | 6 | 7 | 3 |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 73 | 73 | 70 | 67 | 5 | 4 | 3 | 5 | 5 | 4 |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 73 | 73 | 70 | 67 | 5 | 4 | 3 | 5 | 5 | 4 |
| 326121 | Unsupported plastics profile shape mfg | 72 | 69 | 66 | 66 | 2 | 3 | 3 | 3 | 3 | 4 |
| 326122 | Plastics pipe & pipe fitting mfg | 70 | 69 | 64 | 67 | 2 | 4 | 4 | 3 | 4 | 3 |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 74 | 69 | 69 | 64 | 4 | 4 | 3 | 5 | 5 | 3 |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 70 | 62 | 50 | 44 | 6 | 5 | 2 | 6 | 6 | 3 |
| 32614 | Polystyrene foam product mfg | 70 | 62 | 50 | 44 | 6 | 5 | 3 | 6 | 6 | 2 |
| 326140 | Polystyrene foam product mfg | 77 | 78 | 64 | 63 | 4 | 3 | 2 | 6 | 6 | 3 |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 69 | 71 | 45 | 50 | 6 | 4 | 3 | 5 | 3 | 3 |
| 32616 | Urethane & other foam product (except polystyrene) mfg | 69 | 71 | 45 | 50 | 6 | 4 | 7 | 5 | 5 | 5 |
| 326160 | Plastics bottle mfg | 77 | 79 | 73 | 73 | 6 | 5 | 1 | 6 | 6 | 10 |
| 326161 | Plastics bottle mfg | 77 | 79 | 73 | 73 | 6 | 5 | 4 | 6 | 5 | 3 |
| 326169 | Other plastics product mfg | 72 | 63 | 64 | 53 | 2 | 4 | 3 | 3 | 3 | 3 |
| 326191 | Plastics plumbing fixture mfg | 56 | 54 | 43 | 35 | 5 | 4 | 2 | 5 | 9 | 10 |
| 326192 | Resilient floor covering mfg | 67 | 62 | 61 | 54 | 1 | 2 | 2 | 1 | 2 | 2 |
| 326199 | All other plastics product mfg | 73 | 63 | 65 | 54 | 2 | 4 | 4 | 3 | 4 | 3 |
| 3262 | Rubber product mfg | 77 | 74 | 61 | 60 | 2 | 2 | 5 | 2 | 2 | 4 |
| 32621 | Tire mfg | 85 | 85 | 71 | 75 | 2 | 1 | 4 | 2 | 2 | 1 |
| 326211 | Tire mfg (except retreading) | 85 | 87 | 78 | 82 | 2 | 2 | 1 | 2 | 2 | 2 |
| 326212 | Tire retreading | 89 | 61 | 31 | 34 | 8 | 2 | 8 | 2 | 2 | 3 |
| 32622 | Rubber & plastics hoses & belting mfg | 66 | 61 | 51 | 47 | 4 | 3 | 5 | 6 | 5 | 13 |
| 326220 | Rubber & plastics hoses & belting mfg | 66 | 61 | 51 | 47 | 4 | 3 | 5 | 6 | 5 | 13 |
| 32629 | Other rubber product mfg | 73 | 70 | 55 | 54 | 3 | 3 | 2 | 6 | 5 | 3 |
| 326291 | Rubber product mfg for mechanical use | 75 | 74 | 61 | 60 | 3 | 2 | 2 | 3 | 3 | 2 |
| 326299 | All other rubber product mfg | 71 | 66 | 50 | 49 | 4 | 4 | 2 | 3 | 4 | 2 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|----------------|----------------|---------------------|-------------------------------|----------------|----------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | Level | | 2002 to 2003 change | National emergency production | | |
| | | | | | | Level | | 2003 | 2002 | | Level | | |
| | | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 | 2002 | 2002 to 2003 change | 2003 | 2002 | |
| 327 | Nonmetallic mineral product mfg | 61 | 66 | 43 | 41 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 3 |
| 3271 | Clay product & refractory mfg | 69 | 70 | 62 | 61 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 4 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 64 | 66 | 57 | 62 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 6 |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | ^a 89 | 92 | ^a 87 | 91 | ^a 1 | 2 | ^a 2 | ^a 1 | 2 | ^a 3 | 2 | 4 |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 52 | 58 | 46 | 54 | 6 | 6 | 4 | 5 | 5 | 6 | 5 | 4 |
| 327113 | Porcelain electrical supply mfg | 61 | 59 | 53 | 52 | 4 | 5 | 3 | 3 | 3 | 5 | 5 | 3 |
| 32712 | Clay building material & refractories mfg | 74 | 74 | 66 | 61 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 10 |
| 327121 | Brick & structural clay tile mfg | 91 | 88 | 90 | 84 | 2 | 4 | 3 | 2 | 3 | 3 | 3 | 3 |
| 327122 | Ceramic wall & floor tile mfg | 72 | 65 | 70 | 57 | 4 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| 327123 | Other structural clay product mfg | 72 | 85 | 67 | 72 | 6 | 4 | 6 | 8 | 8 | 9 | 9 | 10 |
| 327124 | Clay refractory mfg | 57 | 64 | 39 | 39 | 8 | 4 | 8 | 8 | 6 | 5 | 5 | 3 |
| 327125 | Nonclay refractory mfg | 65 | ^a 67 | 54 | ^a 53 | 7 | ^a 5 | 3 | 6 | ^a 5 | 4 | 4 | 4 |
| 3272 | Glass & glass product mfg | 74 | 73 | 66 | 62 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 2 |
| 32721 | Glass & glass product mfg | 74 | 73 | 66 | 62 | 3 | 3 | 10 | 4 | 4 | 4 | 4 | 7 |
| 327211 | Flat glass mfg | 83 | 79 | 75 | 70 | 3 | 4 | 2 | 4 | 4 | 5 | 5 | 3 |
| 327212 | Other pressed & blown glass & glassware mfg | 67 | 68 | 63 | 59 | 6 | 5 | 3 | 5 | 5 | 5 | 5 | 4 |
| 327213 | Glass container mfg | 94 | 95 | 91 | 93 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 327215 | Glass product mfg made of purchased glass | 70 | 68 | 59 | 54 | 4 | 4 | 3 | 5 | 5 | 5 | 5 | 2 |
| 3273 | Cement & concrete product mfg | 50 | 59 | 31 | 29 | 4 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |
| 32731 | Cement mfg | 88 | 84 | 83 | 62 | 2 | 3 | 3 | 3 | 3 | 11 | 11 | 11 |
| 327310 | Cement mfg | 88 | 84 | 83 | 62 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |
| 32732 | Ready-mix concrete mfg | 35 | 47 | 19 | 19 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| 327320 | Ready-mix concrete mfg | 35 | 47 | 19 | 19 | 4 | 3 | 4 | 3 | 3 | 5 | 5 | 3 |
| 32733 | Concrete pipe, brick, & block mfg | 74 | 77 | 46 | 49 | 3 | 4 | 3 | 3 | 3 | 5 | 5 | 5 |
| 327331 | Concrete block & brick mfg | 76 | 79 | 43 | 46 | 4 | 5 | 4 | 4 | 4 | 6 | 6 | 5 |
| 327332 | Concrete pipe mfg | 72 | 75 | 52 | 53 | 4 | 7 | 7 | 5 | 5 | 9 | 9 | 6 |
| 327339 | Other concrete product mfg | 64 | 63 | 50 | 44 | 4 | 3 | 2 | 4 | 4 | 3 | 4 | 4 |
| 327390 | Other concrete product mfg | 64 | 63 | 50 | 44 | 4 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| 3274 | Lime & gypsum product mfg | 84 | 76 | 82 | 72 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 2 |
| 32741 | Lime mfg | 82 | 75 | 80 | 72 | 2 | 5 | 4 | 2 | 2 | 5 | 5 | 2 |
| 327410 | Lime mfg | 82 | 75 | 80 | 72 | 2 | 5 | 5 | 2 | 2 | 5 | 5 | 6 |
| 32742 | Gypsum product mfg | 84 | 77 | 83 | 72 | 4 | 4 | 3 | 4 | 4 | 5 | 5 | 2 |
| 327420 | Gypsum product mfg | 84 | 77 | 83 | 72 | 4 | 4 | 3 | 4 | 4 | 5 | 5 | 2 |
| 3279 | Other nonmetallic mineral product mfg | 74 | 71 | 57 | 56 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 8 |
| 32791 | Abrasive product mfg | 65 | 67 | 48 | 47 | 4 | 4 | 3 | 3 | 6 | 5 | 5 | 3 |
| 327910 | Abrasive product mfg | 65 | 67 | 48 | 47 | 4 | 4 | 3 | 3 | 6 | 5 | 5 | 2 |
| 32799 | All other nonmetallic mineral product mfg | 78 | 73 | 62 | 60 | 2 | 3 | 6 | 3 | 3 | 3 | 3 | 6 |
| 327991 | Cut stone & stone product mfg | 70 | 69 | 46 | 43 | 4 | 3 | 4 | 5 | 5 | 5 | 5 | 5 |
| 327992 | Ground or treated mineral & earth mfg | 77 | 70 | 67 | 59 | 7 | 6 | 3 | 5 | 5 | 5 | 5 | 2 |
| 327993 | Mineral wool mfg | 85 | 85 | 77 | 81 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 3 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 75 | 59 | 52 | 52 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| 331 | Primary metal mfg | 72 | 71 | 60 | 58 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 3 |
| 3311 | Iron & steel mills & ferroalloy mfg | 86 | 88 | 83 | 85 | 3 | 3 | 1 | 3 | 4 | 1 | 1 | 2 |
| 33111 | Iron & steel mills & ferroalloy mfg | 86 | 88 | 83 | 85 | 3 | 3 | 2 | 3 | 4 | 1 | 1 | 3 |
| 331111 | Iron & steel mills | 87 | 89 | 84 | 86 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 |
| 331112 | Electrometallurgical ferroalloy product mfg | 70 | 77 | 62 | 70 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 |
| 3312 | Steel product mfg from purchased steel | 67 | 65 | 57 | 56 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 64 | 65 | 54 | 53 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 64 | 65 | 54 | 53 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 33122 | Rolling & drawing of purchased steel | 70 | 66 | 60 | 58 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 |
| 331221 | Cold-rolled steel shape mfg | 71 | 66 | 67 | 58 | 1 | 4 | 4 | 4 | 2 | 5 | 5 | 2 |
| 331222 | Steel wire drawing | 69 | 66 | 56 | 57 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |
| 3313 | Alumina & aluminum production & processing | 76 | 74 | 70 | 65 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 10 |
| 33131 | Alumina & aluminum production & processing | 76 | 74 | 70 | 65 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| 331311 | Alumina refining | 76 | ^a 79 | 75 | ^a 79 | 1 | ^a 1 | ^a 2 | ^a 2 | ^a 1 | ^a 2 | ^a 2 | 2 |
| 331312 | Primary aluminum production | 72 | ^a 70 | 68 | ^a 67 | 6 | ^a 3 | ^a 7 | ^a 6 | ^a 3 | ^a 6 | ^a 6 | 6 |
| 331314 | Secondary smelting & alloying of aluminum | 75 | 75 | 70 | 63 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4 |
| 331315 | Aluminum sheet, plate, & foil mfg | 86 | ^a 87 | 81 | ^a 80 | 2 | ^a 2 | 1 | 2 | ^a 2 | ^a 2 | ^a 2 | 2 |
| 331316 | Aluminum extruded product mfg | 71 | 66 | 60 | 52 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 |
| 331319 | Other aluminum rolling & drawing | ^a 70 | 65 | ^a 69 | 61 | ^a 2 | 3 | ^a 2 | ^a 2 | ^a 2 | ^a 3 | ^a 3 | ^a 2 |
| 3314 | Nonferrous metal (except aluminum) production & processing | 70 | 67 | 61 | 57 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 66 | 73 | 58 | 59 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 4 |
| 331411 | Primary smelting & refining of copper | 56 | 68 | 56 | 65 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| 331419 | Other nonferrous metal primary smelting & refining | 78 | 78 | 59 | 55 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 2 |
| 33142 | Copper rolling, drawing, extruding, & alloying | 75 | 76 | 69 | 68 | 1 | 3 | 2 | 2 | 2 | 4 | 4 | 2 |
| 331421 | Copper rolling, drawing, & extruding | 75 | 78 | 71 | 71 | 2 | 4 | 4 | 2 | 2 | 5 | 4 | 4 |
| 331422 | Copper wire (except mechanical) drawing | 80 | 80 | 69 | 71 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 331423 | Secondary smelting, refining, & alloying of copper | 68 | ^a 60 | 53 | ^a 44 | 4 | ^a 4 | 6 | 7 | ^a 5 | 5 | 5 | 5 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|--|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 331 | Primary metal mfg—Con. | | | | | | | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing—Con. | | | | | | | | | | |
| 33149 | Other nonferrous metal rolling, drawing, extruding, & alloying | 69 | 60 | 58 | 50 | 2 | 2 | 3 | 3 | 2 | 2 |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 64 | 61 | 56 | 53 | 2 | 2 | 2 | 3 | 2 | 3 |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 83 | ^a 56 | 63 | ^a 45 | 4 | ^a 4 | 3 | 3 | ^a 2 | 3 |
| 3315 | Foundries | 63 | 63 | 46 | 44 | 2 | 2 | 1 | 2 | 2 | 1 |
| 33151 | Ferrous metal foundries | 63 | 62 | 45 | 43 | 4 | 2 | 2 | 3 | 3 | 2 |
| 331511 | Iron foundries | 63 | 65 | 44 | 43 | 5 | 3 | 5 | 4 | 4 | 2 |
| 331512 | Steel investment foundries | 65 | 54 | 48 | 43 | 4 | 2 | 3 | 3 | 2 | 2 |
| 331513 | Steel foundries (except investment) | 64 | 58 | 48 | 46 | 3 | 2 | 1 | 3 | 3 | 3 |
| 33152 | Nonferrous metal foundries | 63 | 65 | 48 | 45 | 1 | 2 | 4 | 2 | 2 | 4 |
| 331521 | Aluminum die-casting foundries | 66 | 67 | 52 | 50 | 3 | 3 | 3 | 5 | 4 | 2 |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 64 | 61 | 45 | 42 | 2 | 3 | 2 | 3 | 4 | 2 |
| 331524 | Aluminum foundries (except die-casting) | 60 | 64 | 50 | 45 | 2 | 3 | 2 | 2 | 4 | 4 |
| 331525 | Copper foundries (except die-casting) | 56 | 58 | 33 | 34 | 2 | 2 | 2 | 3 | 3 | 2 |
| 331528 | Other nonferrous foundries (except die-casting) | 76 | 75 | 65 | 59 | 2 | 2 | 2 | 4 | 3 | 3 |
| 332 | Fabricated metal product mfg | 61 | 59 | 36 | 36 | 1 | 1 | 7 | 3 | 2 | 5 |
| 3321 | Forging & stamping | 58 | 56 | 46 | 42 | 2 | 2 | 6 | 2 | 2 | 6 |
| 33211 | Forging & stamping | 58 | 56 | 46 | 42 | 2 | 2 | 3 | 2 | 2 | 3 |
| 332111 | Iron & steel forging | 56 | 57 | 43 | 43 | 2 | 2 | 2 | 3 | 3 | 1 |
| 332112 | Nonferrous forging | 67 | 60 | 57 | 44 | 2 | 4 | 5 | 3 | 3 | 3 |
| 332114 | Custom roll forming | 60 | 53 | 46 | 41 | 2 | 2 | 2 | 2 | 2 | 2 |
| 332115 | Crown & closure mfg | 62 | 53 | 50 | 42 | 2 | 2 | 1 | 2 | 2 | 1 |
| 332116 | Metal stamping | 56 | 55 | 45 | 40 | 3 | 3 | 2 | 3 | 3 | 2 |
| 332117 | Powder metallurgy part mfg | 73 | 68 | 58 | 54 | 2 | 2 | 2 | 2 | 3 | 2 |
| 3322 | Cutlery & handtool mfg | 61 | 62 | 45 | 44 | 2 | 2 | 3 | 2 | 2 | 6 |
| 33221 | Cutlery & handtool mfg | 61 | 62 | 45 | 44 | 2 | 2 | 4 | 2 | 2 | 3 |
| 332211 | Cutlery & flatware (except precious) mfg | 54 | 65 | 45 | 44 | 4 | 5 | 2 | 4 | 4 | 3 |
| 332212 | Hand & edge tool mfg | 61 | 58 | 42 | 41 | 2 | 3 | 2 | 2 | 2 | 2 |
| 332213 | Saw blade & handsaw mfg | 73 | 72 | 58 | 54 | 3 | 3 | 1 | 4 | 3 | 1 |
| 332214 | Kitchen utensil, pot, & pan mfg | ^a 71 | 67 | ^a 57 | 58 | ^a 1 | 2 | ^a 1 | ^a 1 | 2 | ^a 1 |
| 3323 | Architectural & structural metals mfg | 58 | 57 | 22 | 29 | 1 | 2 | 5 | 5 | 4 | 5 |
| 33231 | Plate work & fabricated structural product mfg | 59 | 58 | 37 | 34 | 1 | 3 | 4 | 2 | 2 | 3 |
| 332311 | Prefabricated metal building & component mfg | 59 | 60 | 44 | 43 | 2 | 2 | 2 | 2 | 2 | 2 |
| 332312 | Fabricated structural metal mfg | 60 | 58 | 36 | 33 | 1 | 5 | 5 | 2 | 2 | 2 |
| 332313 | Plate work mfg | 56 | 53 | 34 | 30 | 2 | 3 | 3 | 3 | 3 | 3 |
| 33232 | Ornamental & architectural metal products mfg | 58 | 56 | 17 | 27 | 2 | 2 | 3 | 5 | 6 | 3 |
| 332321 | Metal window & door mfg | 61 | 60 | 37 | 35 | 3 | 3 | 2 | 5 | 4 | 1 |
| 332322 | Sheet metal work mfg | 54 | 53 | 12 | 22 | 2 | 2 | 2 | 5 | 7 | 6 |
| 332323 | Ornamental & architectural metal work mfg | 66 | 59 | 37 | 38 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3324 | Boiler, tank, & shipping container mfg | 67 | 64 | 45 | 50 | 2 | 2 | 4 | 3 | 2 | 4 |
| 33241 | Power boiler & heat exchanger mfg | 62 | 54 | 46 | 40 | 4 | 4 | 3 | 4 | 2 | 3 |
| 332410 | Power boiler & heat exchanger mfg | 62 | 54 | 46 | 40 | 4 | 2 | 4 | 4 | 2 | 5 |
| 33242 | Metal tank (heavy gauge) mfg | 56 | 58 | 37 | 42 | 2 | 3 | 9 | 3 | 3 | 5 |
| 332420 | Metal tank (heavy gauge) mfg | 56 | 58 | 37 | 42 | 2 | 3 | 2 | 3 | 3 | 3 |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 76 | 75 | 51 | 62 | 2 | 2 | 4 | 6 | 2 | 4 |
| 332431 | Metal can mfg | 79 | 77 | 53 | 70 | 2 | 3 | 2 | 8 | 3 | 9 |
| 332439 | Other metal container mfg | 68 | 66 | 45 | 43 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3325 | Hardware mfg | 62 | 67 | 46 | 48 | 3 | 3 | 1 | 4 | 4 | 1 |
| 33251 | Hardware mfg | 62 | 67 | 46 | 48 | 3 | 3 | 4 | 4 | 4 | 8 |
| 332510 | Hardware mfg | 62 | 67 | 46 | 48 | 3 | 3 | 2 | 4 | 4 | 2 |
| 3326 | Spring & wire product mfg | 64 | 65 | 50 | 45 | 2 | 2 | 3 | 2 | 3 | 3 |
| 33261 | Spring & wire product mfg | 64 | 65 | 50 | 45 | 2 | 2 | 2 | 2 | 3 | 3 |
| 332611 | Spring (heavy gauge) mfg | 64 | 71 | 50 | 57 | 2 | 2 | 1 | 4 | 3 | 3 |
| 332612 | Spring (light gauge) mfg | 65 | 64 | 52 | 49 | 3 | 3 | 2 | 3 | 4 | 3 |
| 332618 | Other fabricated wire product mfg | 64 | 65 | 50 | 42 | 3 | 2 | 1 | 3 | 4 | 4 |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 58 | 53 | 37 | 28 | 2 | 2 | 3 | 2 | 3 | 3 |
| 33271 | Machine shops | 57 | 50 | 37 | 25 | 2 | 2 | 3 | 2 | 4 | 4 |
| 332710 | Machine shops | 57 | 50 | 37 | 25 | 2 | 2 | 2 | 2 | 4 | 4 |
| 33272 | Turned product & screw, nut, & bolt mfg | 61 | 59 | 38 | 35 | 2 | 2 | 3 | 3 | 2 | 14 |
| 332721 | Precision turned product mfg | 58 | 54 | 34 | 30 | 3 | 3 | 2 | 3 | 3 | 2 |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 65 | 65 | 44 | 42 | 2 | 2 | 2 | 3 | 3 | 2 |
| 3328 | Coating, engraving, heat treating, & allied activities | 63 | 61 | 48 | 47 | 2 | 2 | 4 | 3 | 3 | 3 |
| 33281 | Coating, engraving, heat treating, & allied activities | 63 | 61 | 48 | 47 | 2 | 2 | 3 | 3 | 3 | 4 |
| 332811 | Metal heat treating | 71 | 65 | 56 | 54 | 5 | 5 | 2 | 5 | 4 | 4 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 70 | 71 | 58 | 59 | 2 | 4 | 3 | 3 | 4 | 3 |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 55 | 52 | 39 | 37 | 3 | 3 | 2 | 3 | 3 | 2 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 332 | Fabricated metal product mfg—Con. | | | | | | | | | | |
| 3329 | Other fabricated metal product mfg..... | 65 | 64 | 47 | 45 | 1 | 1 | 2 | 2 | 1 | 3 |
| 33291 | Metal valve mfg..... | 65 | 64 | 48 | 45 | 2 | 2 | 3 | 2 | 2 | 3 |
| 332911 | Industrial valve mfg..... | 63 | 63 | 46 | 42 | 3 | 3 | 1 | 2 | 2 | 2 |
| 332912 | Fluid power valve & hose fitting mfg. | 67 | 64 | 49 | 46 | 3 | 2 | 2 | 3 | 3 | 2 |
| 332913 | Plumbing fixture fitting & trim mfg. | 67 | 66 | 53 | 52 | 2 | 2 | 2 | 2 | 2 | 1 |
| 332919 | Other metal valve & pipe fitting mfg. | 65 | 62 | 52 | 49 | 2 | 4 | 4 | 2 | 3 | 3 |
| 33299 | All other fabricated metal product mfg..... | 66 | 64 | 46 | 44 | 2 | 2 | 3 | 2 | 2 | 2 |
| 332991 | Ball & roller bearing mfg..... | 71 | 68 | 55 | 51 | 3 | 5 | 3 | 5 | 5 | 4 |
| 332992 | Small arms ammunition mfg..... | 63 | 69 | 47 | 55 | 1 | 1 | 1 | 1 | 1 | 1 |
| 332993 | Ammunition (except small arms) mfg..... | 52 | 52 | 40 | 28 | 3 | 4 | 1 | 2 | 4 | 4 |
| 332994 | Small arms mfg..... | 71 | 72 | 52 | 52 | 5 | 4 | 2 | 7 | 6 | 3 |
| 332995 | Other ordnance & accessories mfg..... | 63 | 67 | 59 | 58 | 1 | 3 | 3 | 1 | 3 | 3 |
| 332996 | Fabricated pipe & pipe fitting mfg..... | 62 | 63 | 38 | 39 | 3 | 2 | 3 | 5 | 2 | 5 |
| 332997 | Industrial pattern mfg..... | 55 | 69 | 37 | 43 | 4 | 7 | 11 | 3 | 6 | 7 |
| 332998 | Enameling iron & metal sanitary ware mfg..... | 72 | 68 | 43 | 37 | 3 | 3 | 3 | 3 | 2 | 2 |
| 332999 | All other miscellaneous fabricated metal product mfg..... | 66 | 62 | 46 | 43 | 3 | 3 | 2 | 4 | 4 | 2 |
| 333 | Machinery mfg..... | 59 | 57 | 39 | 37 | 1 | 1 | 3 | 1 | 1 | 2 |
| 3331 | Agriculture, construction, & mining machinery mfg..... | 60 | 55 | 38 | 36 | 2 | 2 | 4 | 2 | 2 | 3 |
| 33311 | Agricultural implement mfg..... | 57 | 52 | 34 | 33 | 3 | 2 | 4 | 2 | 2 | 3 |
| 333111 | Farm machinery & equipment mfg..... | 55 | 53 | 36 | 33 | 3 | 3 | 3 | 2 | 2 | 2 |
| 333112 | Lawn & garden equipment tractor & home lawn & garden equipment mfg..... | 63 | 50 | 29 | 34 | 3 | 4 | 3 | 3 | 4 | 2 |
| 33312 | Construction machinery mfg..... | 65 | 57 | 43 | 39 | 3 | 3 | 2 | 5 | 4 | 10 |
| 333120 | Construction machinery mfg..... | 65 | 57 | 43 | 39 | 3 | 3 | 2 | 5 | 4 | 2 |
| 33313 | Mining & oil & gas field machinery mfg..... | 57 | 54 | 40 | 40 | 2 | 2 | 2 | 2 | 2 | 2 |
| 333131 | Mining machinery & equipment mfg..... | 57 | 53 | 43 | 41 | 3 | 3 | 2 | 3 | 3 | 2 |
| 333132 | Oil & gas field machinery & equipment mfg..... | 57 | 54 | 40 | 39 | 2 | 2 | 2 | 3 | 2 | 3 |
| 3332 | Industrial machinery mfg..... | 52 | 51 | 35 | 29 | 2 | 2 | 2 | 2 | 2 | 3 |
| 33321 | Sawmill & woodworking machinery mfg..... | 56 | 49 | 35 | 28 | 3 | 3 | 1 | 3 | 3 | 2 |
| 333210 | Sawmill & woodworking machinery mfg..... | 56 | 49 | 35 | 28 | 3 | 3 | 2 | 3 | 3 | 3 |
| 33322 | Plastics & rubber industry machinery mfg..... | 56 | 49 | 35 | 28 | 3 | 3 | 2 | 3 | 3 | 3 |
| 333220 | Plastics & rubber industry machinery mfg..... | 57 | 56 | 38 | 32 | 3 | 3 | 8 | 4 | 4 | 3 |
| 33329 | Other industrial machinery mfg..... | 57 | 56 | 38 | 32 | 3 | 3 | 3 | 4 | 4 | 3 |
| 333291 | Paper industry machinery mfg..... | 52 | 50 | 35 | 29 | 2 | 2 | 2 | 2 | 3 | 3 |
| 333292 | Textile machinery mfg..... | 68 | 62 | 37 | 34 | 4 | 5 | 5 | 6 | 4 | 4 |
| 333293 | Printing machinery & equipment mfg..... | ^a 57 | ^a 57 | ^a 32 | ^a 31 | ^a 1 | ^a 2 | ^a 2 | ^a 1 | ^a 1 | ^a 1 |
| 333294 | Food product machinery mfg..... | 65 | 58 | 32 | 29 | 3 | 3 | 3 | 3 | 3 | 4 |
| 333295 | Semiconductor machinery mfg..... | 55 | 52 | 33 | 35 | 5 | 4 | 3 | 3 | 3 | 3 |
| 333298 | All other industrial machinery mfg..... | 43 | 44 | 40 | 34 | 3 | 3 | 3 | 2 | 2 | 5 |
| 3333 | Commercial & service industry machinery mfg..... | 56 | 54 | 30 | 23 | 3 | 3 | 2 | 3 | 3 | 6 |
| 33331 | Commercial & service industry machinery mfg..... | 58 | 55 | 37 | 33 | 2 | 2 | 2 | 2 | 2 | 3 |
| 333311 | Automatic vending machine mfg..... | 44 | 41 | 32 | 30 | 1 | 1 | 1 | 1 | 1 | 1 |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg..... | 33 | ^a 28 | 28 | ^a 25 | 5 | ^a 4 | 2 | 4 | ^a 3 | ^a 1 |
| 333313 | Office machinery mfg..... | ^a 43 | ^a 56 | ^a 33 | ^a 30 | ^a 3 | ^a 4 | ^a 3 | ^a 2 | ^a 2 | ^a 3 |
| 333314 | Optical instrument & lens mfg..... | 71 | 66 | 43 | 34 | 3 | 3 | 2 | 4 | 3 | 3 |
| 333315 | Photographic & photocopying equipment mfg..... | 70 | 59 | 57 | 46 | 1 | 1 | 1 | 1 | 1 | 1 |
| 333319 | Other commercial & service industry machinery mfg..... | 60 | 55 | 32 | 32 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg..... | 62 | 60 | 47 | 42 | 2 | 3 | 3 | 2 | 3 | 3 |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg..... | 62 | 60 | 47 | 42 | 2 | 3 | 4 | 2 | 3 | 4 |
| 333411 | Air purification equipment mfg..... | 62 | 59 | 41 | 37 | 2 | 3 | 2 | 2 | 2 | 1 |
| 333412 | Industrial & commercial fan & blower mfg..... | 64 | 55 | 46 | 38 | 4 | 3 | 3 | 4 | 2 | 4 |
| 333414 | Heating equipment (except warm air furnaces) mfg..... | 59 | 59 | 43 | 46 | 2 | 2 | 1 | 2 | 2 | 2 |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg..... | 62 | 60 | 48 | 42 | 3 | 4 | 3 | 2 | 4 | 3 |
| 3335 | Metalworking machinery mfg..... | 58 | 57 | 32 | 35 | 1 | 1 | 4 | 2 | 2 | 5 |
| 33351 | Metalworking machinery mfg..... | 58 | 57 | 32 | 35 | 1 | 1 | 3 | 2 | 2 | 3 |
| 333511 | Industrial mold mfg..... | 58 | 64 | 29 | 39 | 2 | 3 | 2 | 3 | 4 | 4 |
| 333512 | Machine tool (metal cutting types) mfg..... | 49 | 47 | 32 | 34 | 3 | 3 | 2 | 2 | 2 | 1 |
| 333513 | Machine tool (metal forming types) mfg..... | 49 | 46 | 31 | 28 | 3 | 2 | 1 | 4 | 4 | 1 |
| 333514 | Special die & tool, die set, jig, & fixture mfg..... | 60 | 57 | 33 | 35 | 2 | 2 | 2 | 2 | 2 | 2 |
| 333515 | Cutting tool & machine tool accessory mfg..... | 67 | 60 | 36 | 41 | 2 | 3 | 2 | 5 | 5 | 2 |
| 333516 | Rolling mill machinery & equipment mfg..... | 56 | 58 | 29 | 28 | 10 | 12 | 3 | 12 | 11 | 2 |
| 333518 | Other metalworking machinery mfg..... | 57 | 58 | 29 | 31 | 3 | 3 | 2 | 2 | 2 | 2 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 333 | Machinery mfg—Con. | | | | | | | | | | |
| 33336 | Engine, turbine, & power transmission equipment mfg | 67 | 61 | 51 | 45 | 2 | 2 | 8 | 2 | 2 | 3 |
| 333361 | Engine, turbine, & power transmission equipment mfg | 67 | 61 | 51 | 45 | 2 | 2 | 6 | 2 | 2 | 10 |
| 3333611 | Turbine & turbine generator set unit mfg | ^a 78 | ^a 88 | ^a 62 | ^a 70 | ^a 3 | ^a 3 | ^a 2 | ^a 3 | ^a 3 | ^a 2 |
| 3333612 | Speed changer, industrial high-speed drive, & gear mfg | 53 | 53 | 41 | 29 | 1 | 2 | 1 | 2 | 1 | 1 |
| 3333613 | Mechanical power transmission equipment mfg | 51 | 50 | 39 | 38 | 4 | 4 | 3 | 4 | 3 | 2 |
| 3333618 | Other engine equipment mfg | 67 | 53 | 49 | 41 | 2 | 2 | 2 | 2 | 3 | 2 |
| 33339 | Other general-purpose machinery mfg | 59 | 58 | 38 | 38 | 1 | 1 | 1 | 1 | 1 | 1 |
| 333391 | Pump & compressor mfg | 59 | 63 | 43 | 44 | 2 | 2 | 3 | 3 | 3 | 4 |
| 3333911 | Pump & pumping equipment mfg | 64 | 67 | 46 | 50 | 2 | 2 | 2 | 2 | 4 | 2 |
| 3333912 | Air & gas compressor mfg | 52 | 56 | 40 | 39 | 3 | 3 | 1 | 5 | 4 | 2 |
| 3333913 | Measuring & dispensing pump mfg | ^a 74 | ^a 70 | ^a 40 | ^a 37 | ^a 1 | ^a 1 | ^a 1 | ^a 2 | ^a 2 | ^a 1 |
| 333392 | Material handling equipment mfg | 59 | 55 | 34 | 33 | 1 | 2 | 2 | 2 | 2 | 3 |
| 3333921 | Elevator & moving stairway mfg | 66 | 70 | 47 | 50 | 2 | 3 | 2 | 2 | 2 | 2 |
| 3333922 | Conveyor & conveying equipment mfg | 58 | 55 | 28 | 28 | 2 | 3 | 2 | 3 | 3 | 1 |
| 3333923 | Overhead traveling crane, hoist, & monorail system mfg | 59 | 49 | 38 | 34 | 2 | 4 | 4 | 2 | 2 | 2 |
| 3333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 58 | 52 | 41 | 38 | 2 | 3 | 2 | 2 | 3 | 2 |
| 333399 | All other general-purpose machinery mfg | 59 | 58 | 39 | 38 | 2 | 2 | 3 | 2 | 2 | 4 |
| 3333991 | Power-driven handtool mfg | 75 | 75 | 56 | 59 | 3 | 2 | 2 | 7 | 4 | 8 |
| 3333992 | Welding & soldering equipment mfg | 41 | 50 | 27 | 36 | 5 | 6 | 4 | 5 | 7 | 3 |
| 3333993 | Packaging machinery mfg | 60 | 62 | 36 | 39 | 2 | 3 | 3 | 2 | 2 | 2 |
| 3333994 | Industrial process furnace & oven mfg | 54 | 49 | 35 | 30 | 2 | 2 | 3 | 2 | 2 | 2 |
| 3333995 | Fluid power cylinder & actuator mfg | 66 | 62 | 41 | 39 | 2 | 2 | 2 | 3 | 3 | 2 |
| 3333996 | Fluid power pump & motor mfg | 64 | 62 | 42 | 41 | 3 | 3 | 2 | 3 | 3 | 1 |
| 3333997 | Scale & balance (except laboratory) mfg | 58 | 50 | 44 | 20 | 1 | 3 | 3 | 1 | 9 | 9 |
| 3333999 | All other miscellaneous general-purpose machinery mfg | 61 | 55 | 41 | 37 | 2 | 3 | 3 | 2 | 3 | 2 |
| 334 | Computer & electronic product mfg | 53 | 52 | 38 | 38 | 3 | 2 | 2 | 2 | 1 | 2 |
| 33441 | Computer & peripheral equipment mfg | 65 | 62 | 45 | 43 | 2 | 2 | 4 | 3 | 3 | 3 |
| 334411 | Computer & peripheral equipment mfg | 65 | 62 | 45 | 43 | 2 | 2 | 3 | 3 | 2 | 11 |
| 3344111 | Electronic computer mfg | 67 | 65 | 49 | 44 | 1 | 1 | 1 | 3 | 3 | 3 |
| 3344112 | Computer storage device mfg | 55 | ^a 51 | 34 | ^a 36 | 6 | ^a 3 | 4 | 5 | ^a 3 | 3 |
| 3344113 | Computer terminal mfg | ^a 94 | 51 | ^a 31 | 50 | ^a 1 | 1 | ^a 1 | ^a 1 | 1 | ^a 1 |
| 334419 | Other computer peripheral equipment mfg | 71 | ^a 66 | 56 | ^a 51 | 4 | ^a 4 | 3 | 3 | ^a 4 | 2 |
| 33424 | Communications equipment mfg | ^a 32 | ^a 35 | ^a 24 | ^a 26 | ^a 4 | ^a 3 | ^a 5 | ^a 2 | ^a 2 | ^a 5 |
| 334241 | Telephone apparatus mfg | ^a 24 | ^a 27 | ^a 19 | ^a 21 | ^a 4 | ^a 3 | ^a 4 | ^a 2 | ^a 2 | ^a 5 |
| 3342420 | Telephone apparatus mfg | ^a 24 | ^a 27 | ^a 19 | ^a 21 | ^a 4 | ^a 3 | ^a 1 | ^a 2 | ^a 2 | ^a 1 |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 52 | ^a 56 | 34 | ^a 38 | 2 | ^a 2 | 7 | 2 | ^a 2 | 6 |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 52 | ^a 56 | 34 | ^a 38 | 2 | ^a 2 | 1 | 2 | ^a 2 | 1 |
| 3342429 | Other communications equipment mfg | 63 | 66 | 41 | 39 | 2 | 2 | 4 | 3 | 2 | 5 |
| 3342420 | Other communications equipment mfg | 63 | 66 | 41 | 39 | 2 | 2 | 2 | 3 | 2 | 2 |
| 334343 | Audio & video equipment mfg | 57 | 54 | 41 | 40 | 4 | 5 | 3 | 3 | 4 | 2 |
| 3343431 | Audio & video equipment mfg | 57 | 54 | 41 | 40 | 4 | 5 | 3 | 3 | 4 | 2 |
| 33434310 | Audio & video equipment mfg | 57 | 54 | 41 | 40 | 4 | 5 | 5 | 3 | 4 | 3 |
| 33444 | Semiconductor & other electronic component mfg | 70 | 58 | 56 | 46 | 2 | 2 | 3 | 2 | 2 | 2 |
| 334441 | Semiconductor & other electronic component mfg | 70 | 58 | 56 | 46 | 2 | 2 | 4 | 2 | 2 | 5 |
| 3344411 | Electron tube mfg | 74 | 73 | 48 | 55 | 1 | 2 | 6 | 5 | 6 | 2 |
| 3344412 | Bare printed circuit board mfg | 60 | 51 | 48 | 38 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3344413 | Semiconductor & related device mfg | 79 | 65 | 74 | 56 | 3 | 3 | 3 | 4 | 3 | 3 |
| 3344414 | Electronic capacitor mfg | 57 | 51 | 45 | 36 | 4 | 4 | 2 | 4 | 4 | 3 |
| 3344415 | Electronic resistor mfg | 50 | 47 | 29 | 29 | 3 | 3 | 2 | 3 | 3 | 1 |
| 3344416 | Electronic coil, transformer, & other inductor mfg | 50 | 45 | 32 | 29 | 2 | 2 | 2 | 2 | 2 | 1 |
| 3344417 | Electronic connector mfg | 65 | 53 | 46 | 40 | 7 | 3 | 5 | 8 | 2 | 6 |
| 3344418 | Printed circuit assembly (electronic assembly) mfg | ^a 63 | 47 | ^a 47 | 39 | ^a 2 | 2 | ^a 3 | ^a 1 | 2 | ^a 2 |
| 3344419 | Other electronic component mfg | 49 | 48 | 27 | 26 | 3 | 3 | 2 | 3 | 2 | 2 |
| 334545 | Navigational, measuring, medical, & control instruments mfg | 63 | 60 | 39 | 40 | 2 | 2 | 5 | 1 | 2 | 6 |
| 3345451 | Navigational, measuring, medical, & control instruments mfg | 63 | 60 | 39 | 40 | 2 | 2 | 2 | 1 | 2 | 3 |
| 33454510 | Electromedical & electrotherapeutic apparatus mfg | 75 | 79 | 55 | 57 | 2 | 2 | 2 | 3 | 5 | 4 |
| 33454511 | Search, detection, navigation, & guidance instrument mfg | ^a 67 | 59 | ^a 44 | 43 | ^a 2 | 3 | ^a 3 | ^a 3 | 4 | ^a 3 |
| 33454512 | Automatic environmental control mfg | 62 | 49 | 40 | 37 | 3 | 2 | 2 | 3 | 1 | 2 |
| 33454513 | Industrial process control instrument mfg | 55 | 58 | 34 | 29 | 3 | 2 | 3 | 2 | 3 | 3 |
| 33454514 | Totalizing fluid meter & counting device mfg | 70 | 60 | 52 | 47 | 2 | 7 | 7 | 2 | 5 | 4 |
| 33454515 | Electricity measuring & testing instrument mfg | 52 | 51 | 31 | 36 | 3 | 3 | 2 | 2 | 2 | 1 |
| 33454516 | Analytical laboratory instrument mfg | 59 | 62 | 28 | 32 | 8 | 8 | 2 | 4 | 4 | 2 |
| 33454517 | Irradiation apparatus mfg | 77 | 79 | 42 | 49 | 2 | 2 | 2 | 4 | 4 | 2 |
| 33454518 | Watch, clock, & part mfg | 46 | 51 | 34 | 27 | 2 | 2 | 1 | 1 | 1 | 1 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 334 | Computer & electronic product mfg—Con. | | | | | | | | | | |
| 3345 | Navigational, measuring, medical, & control instruments mfg—Con. | | | | | | | | | | |
| 33451 | Navigational, measuring, medical, & control instruments mfg—Con. | | | | | | | | | | |
| 334519 | Other measuring & controlling device mfg | 53 | 59 | 34 | 32 | 3 | 2 | 3 | 2 | 2 | 1 |
| 3346 | Mfg & reproducing magnetic & optical media | 67 | 73 | 56 | 55 | 5 | 4 | 1 | 4 | 4 | 1 |
| 33461 | Mfg & reproducing magnetic & optical media | 67 | 73 | 56 | 55 | 5 | 4 | 3 | 4 | 4 | 3 |
| 334611 | Software reproducing | 78 | 81 | 63 | 69 | 4 | 6 | 8 | 8 | 2 | 9 |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 63 | 72 | 51 | 50 | 6 | 4 | 3 | 5 | 5 | 4 |
| 334613 | Magnetic & optical recording media mfg | 81 | 77 | 79 | 75 | 3 | 7 | 6 | 4 | 7 | 5 |
| 335 | Electrical equipment, appliance, & component mfg | 64 | 60 | 46 | 44 | 1 | 1 | 2 | 1 | 1 | 3 |
| 3351 | Electric lighting equipment mfg | 60 | 58 | 41 | 37 | 2 | 3 | 2 | 2 | 2 | 2 |
| 33511 | Electric lamp bulb & part mfg | 61 | 67 | 52 | 53 | 1 | 1 | 4 | 1 | 3 | 5 |
| 335110 | Electric lamp bulb & part mfg | 61 | 67 | 52 | 53 | 1 | 1 | 1 | 1 | 3 | 3 |
| 33512 | Lighting fixture mfg | 60 | 56 | 39 | 35 | 2 | 3 | 2 | 2 | 2 | 2 |
| 335121 | Residential electric lighting fixture mfg | ^a 62 | ^a 52 | ^a 41 | ^a 24 | ^a 2 | ^a 2 | ^a 2 | ^a 2 | ^a 3 | ^a 3 |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 55 | 54 | 35 | 35 | 3 | 5 | 4 | 3 | 4 | 3 |
| 335129 | Other lighting equipment mfg | 67 | 62 | 43 | 44 | 2 | 3 | 3 | 3 | 3 | 3 |
| 3352 | Household appliance mfg | 78 | 72 | 59 | 52 | 2 | 2 | 1 | 2 | 2 | 2 |
| 33521 | Small electrical appliance mfg | 84 | 68 | 58 | 43 | 4 | 3 | 7 | 4 | 3 | 6 |
| 335211 | Electric housewares & household fan mfg | 88 | 65 | 64 | 45 | 1 | 6 | 6 | 2 | 4 | 5 |
| 335212 | Household vacuum cleaner mfg | 80 | 71 | 53 | 41 | 6 | 3 | 4 | 7 | 3 | 4 |
| 33522 | Major appliance mfg | 76 | 74 | 60 | 56 | 2 | 3 | 3 | 2 | 2 | 4 |
| 335221 | Household cooking appliance mfg | 57 | 56 | 43 | 43 | 3 | 2 | 2 | 3 | 2 | 2 |
| 335222 | Household refrigerator & home freezer mfg | 84 | 81 | 61 | 58 | 2 | 1 | 1 | 1 | 3 | 1 |
| 335224 | Household laundry equipment mfg | 85 | 87 | 71 | 71 | 1 | 1 | 1 | 1 | 1 | 1 |
| 335228 | Other major household appliance mfg | 81 | 74 | 65 | 52 | 2 | 8 | 8 | 4 | 4 | 3 |
| 3353 | Electrical equipment mfg | 59 | 59 | 38 | 43 | 2 | 2 | 2 | 2 | 2 | 2 |
| 33531 | Electrical equipment mfg | 59 | 59 | 38 | 43 | 2 | 2 | 1 | 2 | 2 | 2 |
| 335311 | Power, distribution, & specialty transformer mfg | 61 | 63 | 46 | 46 | 2 | 2 | 1 | 2 | 2 | 1 |
| 335312 | Motor & generator mfg | 62 | 60 | 37 | 46 | 2 | 2 | 2 | 5 | 2 | 5 |
| 335313 | Switchgear & switchboard apparatus mfg | 63 | 64 | 45 | 45 | 4 | 2 | 4 | 3 | 2 | 3 |
| 335314 | Relay & industrial control mfg | 53 | 54 | 33 | 38 | 3 | 3 | 2 | 2 | 3 | 2 |
| 3359 | Other electrical equipment & component mfg | 64 | 58 | 50 | 44 | 1 | 1 | 6 | 1 | 1 | 5 |
| 33591 | Battery mfg | 65 | 57 | 55 | 49 | 2 | 2 | 2 | 2 | 2 | 2 |
| 335911 | Storage battery mfg | 63 | ^a 52 | 55 | ^a 45 | 3 | ^a 3 | 2 | 2 | ^a 1 | 1 |
| 335912 | Primary battery mfg | 68 | 64 | 56 | 54 | 1 | 1 | 1 | 1 | 1 | 2 |
| 33592 | Communication & energy wire & cable mfg | 64 | 53 | 54 | 41 | 2 | 2 | 2 | 3 | 2 | 2 |
| 335921 | Fiber optic cable mfg | ^a 52 | ^a 45 | ^a 50 | ^a 34 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 | ^a 1 |
| 335929 | Other communication & energy wire mfg | 72 | 58 | 57 | 47 | 3 | 3 | 2 | 4 | 3 | 2 |
| 33593 | Wiring device mfg | 64 | 66 | 50 | 51 | 3 | 2 | 4 | 3 | 4 | 4 |
| 335931 | Current-carrying wiring device mfg | 65 | 67 | 49 | 50 | 4 | 3 | 3 | 4 | 3 | 3 |
| 335932 | Noncurrent-carrying wiring device mfg | 64 | 64 | 50 | 51 | 3 | 3 | 3 | 2 | 3 | 2 |
| 33599 | All other electrical equipment & component mfg | 63 | 57 | 41 | 37 | 1 | 1 | 2 | 1 | 2 | 2 |
| 335991 | Carbon & graphite product mfg | 66 | 53 | 56 | 43 | 2 | 3 | 3 | 3 | 4 | 3 |
| 335999 | All other miscellaneous electrical equipment & component mfg | ^a 62 | 57 | ^a 39 | 36 | ^a 2 | 1 | ^a 1 | ^a 1 | 2 | ^a 2 |
| 336 | Transportation equipment mfg | 66 | 64 | 47 | 45 | 1 | 1 | 2 | 1 | 1 | 1 |
| 3361 | Motor vehicle mfg | 82 | 83 | 52 | 52 | 1 | 2 | 3 | 1 | 1 | 2 |
| 33611 | Automobile & light duty motor vehicle mfg | 83 | 85 | 52 | 53 | 1 | 2 | 3 | 1 | 1 | 3 |
| 336111 | Automobile mfg | 80 | 82 | 47 | 48 | 1 | 3 | 3 | 1 | 1 | 1 |
| 336112 | Light truck & utility vehicle mfg | 87 | 89 | 60 | 59 | 1 | 1 | 1 | 1 | 2 | 1 |
| 33612 | Heavy duty truck mfg | 61 | 52 | 44 | 35 | 2 | 2 | 5 | 2 | 2 | 2 |
| 336120 | Heavy duty truck mfg | 61 | 52 | 44 | 35 | 2 | 2 | 2 | 2 | 2 | 1 |
| 3362 | Motor vehicle body & trailer mfg | 61 | 61 | 36 | 36 | 2 | 2 | 3 | 2 | 1 | 2 |
| 33621 | Motor vehicle body & trailer mfg | 61 | 61 | 36 | 36 | 2 | 2 | 2 | 2 | 1 | 3 |
| 336211 | Motor vehicle body mfg | 64 | 65 | 41 | 35 | 4 | 2 | 5 | 3 | 2 | 3 |
| 336212 | Truck trailer mfg | 54 | 54 | 38 | 36 | 3 | 2 | 2 | 2 | 2 | 1 |
| 336213 | Motor home mfg | 61 | 55 | 37 | 33 | 2 | 1 | 1 | 1 | 1 | 1 |
| 336214 | Travel trailer & camper mfg | 63 | 64 | 29 | 38 | 4 | 3 | 4 | 4 | 2 | 4 |
| 3363 | Motor vehicle parts mfg | 73 | 72 | 56 | 54 | 1 | 2 | 2 | 2 | 2 | 2 |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 74 | 73 | 56 | 56 | 1 | 2 | 2 | 1 | 2 | 2 |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 82 | 80 | 70 | 68 | 3 | 4 | 2 | 5 | 5 | 2 |
| 336312 | Gasoline engine & engine parts mfg | 72 | 71 | 54 | 54 | 2 | 2 | 1 | 1 | 2 | 1 |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 64 | 60 | 48 | 43 | 4 | 6 | 2 | 5 | 5 | 4 |
| 336321 | Vehicular lighting equipment mfg | 79 | 71 | 64 | 59 | 3 | 3 | 2 | 3 | 3 | 1 |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 62 | 59 | 46 | 41 | 4 | 7 | 7 | 5 | 6 | 6 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|---|-----------------|-----------------|-------------------------------|-----------------|------------------------------|----------------|---------------------|-------------------------------|----------------|---------------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | | National emergency production | | |
| | | | | | | Level | | 2002 to 2003 change | Level | | 2002 to 2003 change |
| | | | | | | 2003 | 2002 | | 2003 | 2002 | |
| 336 | Transportation equipment mfg—Con. | | | | | | | | | | |
| 3363 | Motor vehicle parts mfg—Con. | | | | | | | | | | |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 70 | 72 | 54 | 59 | 2 | 4 | 2 | 2 | 4 | 2 |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 70 | 72 | 54 | 59 | 2 | 4 | 4 | 2 | 4 | 3 |
| 33634 | Motor vehicle brake system mfg | 78 | 75 | 59 | 60 | 2 | 3 | 2 | 3 | 5 | 3 |
| 336340 | Motor vehicle brake system mfg | 78 | 75 | 59 | 60 | 2 | 3 | 3 | 3 | 5 | 4 |
| 33635 | Motor vehicle transmission & power train parts mfg | 77 | 81 | 64 | 66 | 2 | 4 | 2 | 1 | 4 | 1 |
| 336350 | Motor vehicle transmission & power train parts mfg | 77 | 81 | 64 | 66 | 2 | 4 | 4 | 1 | 4 | 4 |
| 33636 | Motor vehicle seating & interior trim mfg | 84 | 83 | 60 | 48 | 3 | 3 | 5 | 3 | 5 | 3 |
| 336360 | Motor vehicle seating & interior trim mfg | 84 | 83 | 60 | 48 | 3 | 3 | 3 | 3 | 5 | 5 |
| 33637 | Motor vehicle metal stamping | 76 | 75 | 59 | 57 | 3 | 3 | 2 | 3 | 3 | 2 |
| 336370 | Motor vehicle metal stamping | 76 | 75 | 59 | 57 | 3 | 3 | 2 | 3 | 3 | 2 |
| 33639 | Other motor vehicle parts mfg | 72 | 71 | 54 | 53 | 2 | 2 | 1 | 3 | 3 | 1 |
| 336391 | Motor vehicle air-conditioning mfg | 73 | 76 | 63 | 62 | 1 | 2 | 2 | 1 | 3 | 3 |
| 336399 | All other motor vehicle parts mfg | 72 | 70 | 53 | 52 | 2 | 2 | 1 | 4 | 3 | 2 |
| 3364 | Aerospace product & parts mfg | 55 | 52 | 41 | 38 | 1 | 1 | 2 | 1 | 1 | 3 |
| 33641 | Aerospace product & parts mfg | 55 | 52 | 41 | 38 | 1 | 1 | 1 | 1 | 1 | 2 |
| 336411 | Aircraft mfg | 47 | 50 | 34 | 35 | 1 | 1 | 1 | 1 | 1 | 1 |
| 336412 | Aircraft engine & engine parts mfg | ^a 63 | 61 | ^a 50 | 42 | ^a 1 | 2 | ^a 1 | ^a 2 | 3 | ^a 2 |
| 336413 | Other aircraft part & auxiliary equipment mfg | 57 | 58 | 41 | 44 | 2 | 2 | 1 | 2 | 2 | 1 |
| 336414 | Guided missile & space vehicle mfg | 87 | ^a 45 | 85 | ^a 38 | 1 | ^a 1 | 1 | 1 | ^a 1 | 1 |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 43 | 45 | 25 | 27 | 2 | 3 | 1 | 2 | 2 | 1 |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 44 | 46 | 39 | 37 | 1 | 2 | 1 | 1 | 2 | 2 |
| 3365 | Railroad rolling stock mfg | 50 | 45 | 41 | 37 | 2 | 2 | 1 | 2 | 2 | 1 |
| 33651 | Railroad rolling stock mfg | 50 | 45 | 41 | 37 | 2 | 2 | 2 | 2 | 2 | 2 |
| 336510 | Railroad rolling stock mfg | 50 | 45 | 41 | 37 | 2 | 2 | 1 | 2 | 2 | 2 |
| 3366 | Ship & boat building | 52 | 53 | 38 | 37 | 1 | 1 | 2 | 1 | 1 | 2 |
| 33661 | Ship & boat building | 52 | 53 | 38 | 37 | 1 | 1 | 1 | 1 | 1 | 1 |
| 336611 | Ship building & repairing | ^a 48 | 51 | ^a 38 | 40 | ^a 1 | 2 | ^a 1 | ^a 2 | 2 | ^a 2 |
| 336612 | Boat building | 61 | 59 | 39 | 34 | 2 | 3 | 2 | 2 | 2 | 2 |
| 3369 | Other transportation equipment mfg | 58 | 61 | 27 | 29 | 1 | 1 | 3 | 2 | 3 | 3 |
| 33699 | Other transportation equipment mfg | 58 | 61 | 27 | 29 | 1 | 1 | 5 | 2 | 3 | 2 |
| 336991 | Motorcycle, bicycle, & parts mfg | ^a 57 | ^a 59 | ^a 17 | ^a 18 | ^a 2 | ^a 2 | ^a 2 | ^a 2 | ^a 3 | ^a 1 |
| 336992 | Military armored vehicle, tank, & tank component mfg | 44 | 42 | 39 | 37 | 2 | 1 | 1 | 1 | 1 | 1 |
| 336999 | All other transportation equipment mfg | 65 | 74 | 42 | 47 | 2 | 1 | 2 | 2 | 2 | 1 |
| 337 | Furniture & related product mfg | 62 | 61 | 36 | 36 | 1 | 2 | 2 | 2 | 2 | 3 |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 64 | 66 | 36 | 34 | 2 | 2 | 4 | 3 | 3 | 5 |
| 33711 | Wood kitchen cabinet & counter top mfg | 72 | 73 | 46 | 43 | 3 | 4 | 2 | 4 | 5 | 6 |
| 337110 | Wood kitchen cabinet & counter top mfg | 72 | 73 | 46 | 43 | 3 | 4 | 3 | 4 | 5 | 2 |
| 33712 | Household & institutional furniture mfg | 61 | 63 | 32 | 31 | 2 | 2 | 2 | 4 | 3 | 2 |
| 337121 | Upholstered household furniture mfg | 71 | 74 | 44 | 39 | 4 | 5 | 3 | 5 | 8 | 5 |
| 337122 | Nonupholstered wood household furniture mfg | 63 | 65 | 28 | 28 | 4 | 4 | 4 | 6 | 5 | 2 |
| 337124 | Metal household furniture mfg | ^a 44 | ^a 47 | ^a 22 | ^a 24 | ^a 2 | ^a 3 | ^a 3 | ^a 2 | ^a 2 | ^a 2 |
| 337125 | Household furniture (except wood & metal) mfg | 44 | 42 | 36 | 32 | 9 | 9 | 3 | 7 | 6 | 3 |
| 337127 | Institutional furniture mfg | 61 | 59 | 36 | 32 | 4 | 4 | 3 | 3 | 5 | 5 |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | ^a 39 | 67 | ^a 30 | 44 | ^a 1 | 2 | ^a 2 | ^a 1 | 5 | ^a 5 |
| 3372 | Office furniture (including fixtures) mfg | 59 | 53 | 35 | 39 | 2 | 2 | 2 | 4 | 2 | 9 |
| 33721 | Office furniture (including fixtures) mfg | 59 | 53 | 35 | 39 | 2 | 2 | 2 | 4 | 3 | 3 |
| 337211 | Wood office furniture mfg | ^a 57 | 42 | ^a 31 | 31 | ^a 2 | 4 | ^a 5 | ^a 2 | 3 | ^a 3 |
| 337212 | Custom architectural woodwork & millwork mfg | 73 | 66 | 47 | 40 | 4 | 3 | 5 | 4 | 6 | 6 |
| 337214 | Office furniture (except wood) mfg | 54 | 52 | 30 | 39 | 2 | 3 | 2 | 6 | 2 | 6 |
| 337215 | Showcase, partition, shelving, & locker mfg | 60 | 60 | 43 | 42 | 3 | 3 | 2 | 3 | 4 | 2 |
| 3379 | Other furniture related product mfg | 64 | 63 | 44 | 40 | 4 | 3 | 1 | 3 | 3 | 3 |
| 33791 | Mattress mfg | 63 | 63 | 42 | 40 | 5 | 4 | 2 | 3 | 2 | 2 |
| 337910 | Mattress mfg | 63 | 63 | 42 | 40 | 5 | 4 | 2 | 3 | 3 | 3 |
| 33792 | Blind & shade mfg | 65 | 63 | 48 | 40 | 4 | 4 | 3 | 7 | 7 | 7 |
| 337920 | Blind & shade mfg | 65 | 63 | 48 | 40 | 4 | 4 | 3 | 3 | 7 | 7 |
| 339 | Miscellaneous mfg | 66 | 64 | 43 | 40 | 2 | 2 | 2 | 2 | 2 | 1 |
| 3391 | Medical equipment & supplies mfg | 68 | 63 | 48 | 44 | 2 | 3 | 2 | 3 | 3 | 4 |
| 33911 | Medical equipment & supplies mfg | 68 | 63 | 48 | 44 | 2 | 3 | 1 | 3 | 3 | 4 |
| 339111 | Laboratory apparatus & furniture mfg | 68 | 68 | 33 | 38 | 4 | 4 | 2 | 3 | 2 | 2 |
| 339112 | Surgical & medical instrument mfg | 66 | 58 | 46 | 40 | 2 | 5 | 5 | 4 | 5 | 4 |
| 339113 | Surgical appliance & supplies mfg | 68 | 66 | 52 | 48 | 5 | 3 | 3 | 4 | 3 | 3 |
| 339114 | Dental equipment & supplies mfg | 76 | 74 | 50 | 48 | 5 | 5 | 2 | 5 | 5 | 2 |
| 339115 | Ophthalmic goods mfg | 63 | 52 | 50 | 43 | 3 | 4 | 5 | 5 | 5 | 4 |
| 339116 | Dental laboratories | 84 | 88 | 56 | 66 | 3 | 2 | 1 | 4 | 3 | 3 |

See footnotes at end of table.

Table 2. Capacity Utilization Rates by Industry: Fourth Quarters 2003 and 2002—Con.

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

| NAICS code | Industry | Full production | | National emergency production | | Standard errors ¹ | | | | | |
|------------|--|-----------------|-----------------|-------------------------------|-----------------|------------------------------|---------------------|-------------------------------|---------------------|----------------|-----------------|
| | | 2003 | 2002 | 2003 | 2002 | Full production | | National emergency production | | 2003 | 2002 |
| | | | | | | Level | 2002 to 2003 change | Level | 2002 to 2003 change | | |
| 339 | Miscellaneous mfg—Con. | | | | | | | | | | |
| 3399 | Other miscellaneous mfg | 63 | 65 | 37 | 36 | 3 | 2 | 2 | 2 | 2 | 2 |
| 33991 | Jewelry & silverware mfg | 64 | 59 | 33 | 33 | 3 | 4 | 2 | 2 | 3 | 2 |
| 339911 | Jewelry (except costume) mfg | 64 | 58 | 34 | 35 | 5 | 5 | 4 | 3 | 4 | 3 |
| 339912 | Silverware & plated ware mfg | 63 | 55 | 28 | 27 | 6 | 4 | 2 | 5 | 4 | 2 |
| 339913 | Jewelers' material & lapidary work mfg | 77 | 68 | 57 | 50 | 3 | 3 | 6 | 4 | 4 | 3 |
| 339914 | Costume jewelry & novelty mfg | 60 | 64 | 28 | 28 | 4 | 5 | 4 | 4 | 6 | 5 |
| 33992 | Sporting & athletic goods mfg | 70 | 65 | 34 | 30 | 4 | 4 | 2 | 6 | 5 | 2 |
| 339920 | Sporting & athletic goods mfg | 70 | 65 | 34 | 30 | 4 | 4 | 3 | 6 | 5 | 3 |
| 33993 | Doll, toy, & game mfg | 51 | 60 | 38 | 45 | 3 | 4 | 2 | 3 | 5 | 4 |
| 339931 | Doll & stuffed toy mfg | ^a 16 | ^a 27 | ^a 14 | ^a 24 | ^a 1 | ^a 2 | ^a 2 | ^a 1 | ^a 2 | ^a 2 |
| 339932 | Game, toy, & children's vehicle mfg | 66 | 69 | 46 | 50 | 4 | 5 | 4 | 4 | 7 | 5 |
| 33994 | Office supplies (except paper) mfg | 64 | 63 | 49 | 43 | 2 | 2 | 3 | 3 | 3 | 3 |
| 339941 | Pen & mechanical pencil mfg | 63 | 63 | 42 | 41 | 2 | 1 | 2 | 5 | 4 | 3 |
| 339942 | Lead pencil & art good mfg | 71 | 69 | 63 | 64 | 3 | 4 | 4 | 4 | 5 | 5 |
| 339943 | Marking device mfg | 55 | ^a 56 | 44 | ^a 31 | 2 | ^a 4 | 4 | 3 | ^a 2 | 3 |
| 339944 | Carbon paper & inked ribbon mfg | 63 | 63 | 58 | 40 | 4 | 5 | 3 | 3 | 13 | 13 |
| 33995 | Sign mfg | 66 | 71 | 45 | 41 | 3 | 4 | 2 | 4 | 4 | 4 |
| 339950 | Sign mfg | 66 | 71 | 45 | 41 | 3 | 4 | 3 | 4 | 4 | 4 |
| 33999 | All other miscellaneous mfg | 60 | 65 | 36 | 36 | 6 | 2 | 1 | 3 | 2 | 2 |
| 339991 | Gasket, packing, & sealing device mfg | 69 | 70 | 45 | 45 | 2 | 3 | 2 | 5 | 6 | 5 |
| 339992 | Musical instrument mfg | 67 | 59 | 17 | 14 | 3 | 3 | 3 | 1 | 1 | 1 |
| 339993 | Fastener, button, needle, & pin mfg | 54 | 60 | 31 | 39 | 5 | 5 | 5 | 9 | 11 | 4 |
| 339994 | Broom, brush, & mop mfg | 68 | 66 | 36 | 35 | 5 | 5 | 2 | 7 | 7 | 2 |
| 339995 | Burial casket mfg | 74 | 63 | 46 | 45 | 4 | 5 | 3 | 4 | 3 | 2 |
| 339999 | All other miscellaneous mfg | 50 | ^a 65 | 40 | ^a 45 | 10 | ^a 3 | 11 | 8 | ^a 1 | 7 |
| 5111 | Newspaper, periodical, book, and database publishers | ^a 81 | 81 | ^a 76 | 69 | ^a 3 | 6 | ^a 5 | ^a 2 | 13 | ^a 13 |

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

²Excluding NAICS 5111, Newspaper, periodical, book, and database publishers.

Appendix A.

MQ-C1 Report Form and Instructions

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

SURVEY OF PLANT CAPACITY UTILIZATION

FOURTH QUARTER 2003 (October–December)

NOTICE – YOUR RESPONSE IS REQUIRED BY LAW (Title 13, United States Code). By section 9 of the same law, **YOUR REPORT IS CONFIDENTIAL**. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

IMPORTANT

PLEASE READ INSTRUCTIONS AND DEFINITIONS BEFORE COMPLETING FORM

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

NOTE — If you need a copy of the instructions, please visit www.census.gov/cir/www/mqc1pag2.html

Item 1 OPERATIONAL STATUS

Mark (X) ONE box which best describes this establishment at the end of 2003. See instructions for reporting.

- 12 In operation – Complete items 2 through 6.
 13 Temporarily idle – See instruction sheet – Complete items 2–6.

- 14 Sold or leased to another company
See instruction sheet
 15 Permanently ceased operations –
See instruction sheet

Give date sold or closed

| Month | Year |
|-------|------|
| | |

Item 2 VALUE OF PRODUCTION

ACTUAL PRODUCTION

| | |
|---------------|---------------|
| 4th QTR. 2003 | 4th QTR. 2002 |
|---------------|---------------|

| \$ | Mil. | Thou. | Mil. | Thou. |
|----|------|-------|------|-------|
| 23 | | | | |

a. Report market value of **actual production** for the 4th quarter of 2003

FULL PRODUCTION CAPABILITY

| | |
|---------------|---------------|
| 4th QTR. 2003 | 4th QTR. 2002 |
|---------------|---------------|

| \$ | Mil. | Thou. | Mil. | Thou. |
|----|------|-------|------|-------|
| 34 | | | | |

b. Estimate the market value of production of this plant as if it had been operating at **full production capability** in the 4th quarter of 2003.

Assume:

- only machinery and equipment **in place and ready to operate**.
- normal downtime.
- Labor, materials, utilities, etc. **ARE FULLY AVAILABLE**.
- the number of shifts, hours of operation, and overtime pay that can be **sustained** under **normal** conditions and a **realistic** work schedule in the long run.
- the **same product mix** as in the fourth quarter.

c. Divide your **actual production estimate** by your **full production estimate**. Multiply this ratio by 100 to get a percentage. Enter this percentage in the box.

Capacity Utilization:

Yes No – Please review your full production estimate

d. If your estimate of 2003 fourth quarter **full production capability** has changed compared to 2002, mark (X) the primary reasons.

- | | |
|--|--|
| 35 <input type="checkbox"/> Building capital expenditures 36 <input type="checkbox"/> Machinery capital expenditures – <i>Include new, replaced, or enhanced machinery</i> 37 <input type="checkbox"/> Building retirements 38 <input type="checkbox"/> Machinery retirements 39 <input type="checkbox"/> Price changed but product mix is the same 40 <input type="checkbox"/> Revised estimation assumption with no change in plant or operations | 41 <input type="checkbox"/> Change in method of operation 42 <input type="checkbox"/> Change in product mix or product specifications 43 <input type="checkbox"/> Change in material input 48 <input type="checkbox"/> Other – <i>Specify</i> ↗ |
|--|--|

49

Item 3 WORK PATTERNS OF FOURTH QUARTER OPERATIONS 2003

Column (1-3) – Report work patterns for **each shift of actual operations** in the 4th quarter of 2003.
 If the plant did not operate a second or third shift, do not complete the corresponding columns.

Column (4) – Report work patterns as if the plant operated at **full production capability** as defined in item 2b.

| | Actual Operations | | | Full Production Capability Number of shifts per day (4) → |
|----|---------------------|---------------------|---------------------|--|
| | Shift one (1) | Shift two (2) | Shift three (3) | |
| 90 | | | | |
| 91 | | | | |
| 92 | | | | |
| 93 | | | | |
| 94 | | | | |
| 95 | | | | |
| | Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. |
| 96 | | | | |
| 97 | | | | |
| 98 | | | | |

Item 4 FOURTH QUARTER ACTUAL OPERATIONS VS FULL PRODUCTION CAPABILITY FOR 2003

a. If this plant's **actual** production in the 4th quarter was **less than full production capability**, mark (X) the primary reasons:

- | | | |
|--|--|--|
| 51 <input type="checkbox"/> Not most profitable to operate at full production capability | 55 <input type="checkbox"/> Lack of sufficient fuel or electric energy | 60 <input type="checkbox"/> Strike or work stoppage |
| 52 <input type="checkbox"/> Insufficient supply of materials | 56 <input type="checkbox"/> Equipment limitations | 61 <input type="checkbox"/> Seasonal operations |
| 53 <input type="checkbox"/> Insufficient orders | 57 <input type="checkbox"/> Storage limitations | 62 <input type="checkbox"/> Environmental restrictions |
| 54 <input type="checkbox"/> Insufficient supply of local labor force/skills | 58 <input type="checkbox"/> Logistics/transportation constraints | 68 <input type="checkbox"/> Other – Specify ↗ |
| | 59 <input type="checkbox"/> Sufficient inventory of finished goods on hand | 69 _____ |

b. If **actual** operations in the 4th quarter were **less than full production capability**, how quickly could you increase to that level, if necessary? Assume sufficient demand for your product. Mark (X) the shortest amount of time you would require.

- 71 Less than 3 months 72 3 to 6 months 73 7 to 12 months 74 More than one year

Item 5 NATIONAL EMERGENCY PRODUCTION
NATIONAL EMERGENCY PRODUCTION

4th QTR. 2003 4th QTR. 2002

| \$ | Mil. Thou. | Mil. Thou. |
|----|--------------|--------------|
| 99 | | |

a. Estimate the value of production for this plant as if it had been operating under **national emergency** conditions in the 4th quarter of 2003.

Assume:

- **full** use of **all** your machinery and equipment, including that requiring reconditioning.
- plant production **as close to 168 hours per week as possible**, including 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** of your output

See the instruction sheet for additional guidance.

b. If **actual** operations in the 4th quarter were **less than national emergency production**, how quickly could you increase to the national emergency production level if given emergency priority by the government? Mark (X) the shortest amount of time you would require.

- 82 Less than 3 months 83 3 to 6 months 84 7 to 12 months 85 More than one year

911 Remarks

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

| | | | |
|------|-------------|-----------|--------|
| Name | | Area code | Number |
| | Telephone → | () | |

RETURN COMPLETED FORM TO

**U.S. CENSUS BUREAU
1201 EAST 10TH STREET
JEFFERSONVILLE, IN 47132-0001**

**INSTRUCTIONS FOR
THE SURVEY OF PLANT CAPACITY UTILIZATION
DURING THE FOURTH QUARTER 2003**

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AUTHORITY AND CONFIDENTIALITY – The law that authorizes this survey (Title 13, United States Code) requires that we keep your report in full confidence. Only persons sworn to uphold confidentiality of Title 13 will see your information, and it will be used only for statistical purposes. Copies of your report retained in your files are immune from legal process. Response is not required to any information collection form unless it displays a valid approval number from the Office of Management and Budget. This 8-digit number appears in the upper right corner of the form.

PUBLIC REPORTING

Public reporting burden for this collection of information is estimated to average 2.25 hours per response, 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 this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Associate Director for Administration/Comptroller, Attn: Paperwork Reduction Project 0607-0175, Room 3104, FB-3, Bureau of the Census, Washington, DC 20233.

WHO SHOULD REPORT?

This report covers the manufacturing plant named in the address box of the form. If your company operates more than one location, REPORT ONLY FOR THOSE PLANTS SELECTED FOR THIS SAMPLE SURVEY. A report form and instruction sheet are enclosed for each plant selected.

Since some of the information necessary to complete this form may not be in your records, CONSULT THE PLANT MANAGER on questions regarding full production capability and emergency production.

WHAT TO REPORT?

This survey form primarily asks for 3 levels of operating capability of this plant in the fourth quarter of 2003:

- (1) the market value of actual goods produced;
- (2) the value of products that could have been produced if the plant was operating at full capacity in the fourth quarter; and
- (3) the value of products that could have been produced if required in a national emergency.

If 2002 data are NOT printed on the form, you do not need to enter data for that period.

WHEN TO REPORT

Complete the survey form and return it in the enclosed return envelope by the date printed on the top of the form. If you have misplaced the return envelope, mail the completed form to:

U.S. Census Bureau
1201 East 10th Street
Jeffersonville, IN 47132-0001

HOW TO REPORT

Answer all questions on the report form. Follow the instructions for each item given on this sheet.

Report market value of production figures in **thousands of dollars**. For example, if value of production is 1,125,788 dollars, enter the figure as follows:

| Mil. | Thou. |
|------|-------|
| 1 | 126 |

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 1 – OPERATIONAL STATUS

Report the status of operations at this plant at the end of 2003 by marking the appropriate box. If:

In Operation – Complete items 2 through 6.

Idle Plants – Complete items 2 through 6.

- a. If this plant was temporarily idle during the **entire fourth quarter** report actual operations as zero where appropriate.
- b. If this plant was temporarily idle during **only part of the fourth quarter** report the actual operations for the time the plant was in operation.

Item 1 – OPERATIONAL STATUS – Continued

For both cases, report full production and emergency production capabilities based on the plant's **peak** quarterly production during 2003.

Sold or Leased Plant – If this plant was sold or leased to another company, indicate the month and year this action took place.

- a. If you still maintain records for this plant, complete items 2 through 6.
- b. If you do not have 4th quarter information about this plant, complete item 6 only and return the form.

Permanently Ceased Operations – Indicate the month and year when operations ceased at this plant. If the plant was in operation at ANY time during the fourth quarter of 2003, complete items 2 through 6. Report full production and emergency production capabilities, as if the plant operated the **entire** quarter.

SPECIAL NOTE:

Seasonal Operations

- a. If this plant is 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 from quarter to quarter, *due to seasonal factors*, complete items 2 through 6, and report full production and national emergency production capabilities based on the plant's **peak** quarterly production during the year.

For both types of seasonal operations, check "Seasonal Operations" in item 4a if actual operations are less than full production capability.

Item 2 – VALUE OF PRODUCTION

Item 2a – 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 goods produced during the fourth quarter:

- (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 the value of interplant transfers within a company, in addition to direct costs of production, but excluding resales and miscellaneous receipts) plus any additions or subtractions to the finished stock of inventories present before the fourth quarter (excluding materials and supplies). [Value of production = value of shipments + value of ending inventory – value of beginning inventory].

SPECIAL NOTE:

Do **not** include manufacturing contracted to others. If you contract out all of your manufacturing, please state this in the "Remarks" section, complete item 6, and return the form.

Job shops and custom orders: For actual production, report value of work done in the fourth quarter of 2003.

Publishing/printing plants: For actual production, report your printing sales only (NOT advertising sales) for the location named in the address box of the form. Do not include any printing that is contracted out. **If you do not perform any printing activities, please indicate so in the remarks section on the back of the form.**

Item 2b – FULL PRODUCTION CAPABILITY

Read the definition and assumptions regarding full production capability. Estimate your market value of products that would have been produced if the plant was operating at full capacity in the fourth quarter. Use one of the two methods suggested below or your own computations.

Full Production Capability – The maximum level of production that this establishment could reasonably expect to attain under **normal** and **realistic** operating conditions fully utilizing the machinery and equipment in place. In estimating market value at full production capability, consider the following:

- Assume **only** the machinery and equipment in place and ready to operate will be utilized. Do not include facilities or equipment that would require extensive reconditioning before they can be made operable.
- Assume **normal** downtime, maintenance, repair, and cleanup. If full production requires additional shifts or hours of operation, then appropriate downtime should be considered in the estimate.
- Assume number of shifts, hours of plant operations, and overtime pay that can be sustained under **normal** conditions and a **realistic** work schedule.
- Assume labor, materials, utilities, etc. are fully available.
- Assume a product mix that was **typical** or representative of your production during the fourth quarter. If your plant is subject to short-run variation assume the product mix of the current period.

Item 2b – FULL PRODUCTION CAPABILITY – Continued

- 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.

SPECIAL NOTE:

Job shops and custom orders: For full production, estimate the market value of work that you could have accomplished under sustainable operating conditions and if you had sufficient orders.

Publishing/printing plants: For full production, report printing sales for this location as if it were running at peak circulation.

Two Methods to estimate market value of production when operating at full production capability:

- (1) If you have a reliable or accurate estimate of your plant's sustainable capacity utilization rate:

Divide your market value of production at **actual operations** (item 2c) by your current **rate of capacity** utilization (in decimal form). For example, if your value of actual operations for the fourth quarter is \$1,200,000 and your plant is currently at 80% capacity, divide \$1,200,000 by 0.80 for a full production capability of \$1,500,000.

$$\text{Actual Value of Production} / \text{Utilization Rate} = \frac{\text{Capacity}}{\text{Market value of production at Full Capacity}}$$

Your plant's capacity utilization rate should be based on a capacity output measure that your plant could have sustained under **normal**, not emergency, conditions.

- (2) For each product, estimate the number of items that could have been produced if operating at full production, as defined by the assumptions given. Multiply the number of items produced by its sales price (or market value). For example, if you can produce 25,000 items in the fourth quarter, under full production criteria, and the sales price (market value) for each item is \$4.50, then multiply 25,000 times \$4.50 for a full production capability of \$112,500.

$$\text{Number of items produced} \times \frac{\text{Sales price}}{\text{Market Value}} = \frac{\text{Market value of production at Full Capacity}}$$

If producing **more than one product**, sum the market values of production at full production estimated for each product (assuming the same product mix) for a **total** value of full production for the plant.

Enter your estimate for value of full production in item 2b.

Item 2c – CAPACITY UTILIZATION

- (1) Divide your estimate for actual production (Item 2a) by full production (Item 2b) capability. Multiply this number by 100. Enter this percentage in the box.

- (2) **Is this a reasonable percentage of your sustainable capacity use in the 4th quarter of 2003?** Mark (X) yes or no. If no, please review your full production capability estimate. If yes, continue with the next item.

Item 2d – Comparing full production capability between fourth quarters of 2002 and 2003

If the value of full production for the fourth quarter of 2003 differs from 2002, mark (X) the primary reasons for the change.

Item 3 – WORK PATTERNS OF FOURTH QUARTER OPERATIONS

Actual Operations – In **columns 1 through 3**, report work patterns for the following characteristics covering each *production shift* of actual operations in the 4th quarter of 2003. Report based on the average number of shifts per day in the fourth quarter. Do not consider maintenance, administrative, or support operations as additional shifts. Do not consider overtime hours as additional shifts. If the plant did not operate a second or third shift, do not complete the corresponding columns.

- a. **Days per week in operation** – For each shift, report the typical number of days per week in operation for the fourth quarter. If your plant has departments or assembly lines that operate varied number of days *within a shift*, report days per week in operation for the department operating the greatest number of days per week for that shift. For example, if one production line operates 7 days per week during the first shift and a second production line operates 5 days per week during the first shift, report that the first shift operates 7 days per week.

- b. **Plant hours per week** – For each shift, report the typical number of **hours the plant was in production** during a single week. If your plant has departments or assembly lines that operate at varied periods of time *within a shift*, report hours per week in operation for the production department operating the greatest number of hours per week for that shift. **Do not report the number of person hours worked (see below).**

- c. **Weeks in operation in the quarter** – For each shift, report the total number of weeks the plant operated during the fourth quarter. NOTE: The fourth quarter of the year covers 13 weeks.

- d. **Total number of production workers** – For each shift, report the total number of production workers at this establishment, including both permanent (payroll) and temporary employees who were paid during the pay period which included November 12. Include all persons on paid sick leave, paid holidays, paid vacation during this pay period.

NOTE: **Include** workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other closely associated services. Include truck drivers delivering ready-mixed concrete.

Item 3 – WORK PATTERNS OF FOURTH QUARTER OPERATIONS – Continued

Exclude nonproduction personnel, including those engaged in supervision above line-supervisor level, sales, sales delivery (truck drivers and helpers), advertising, credit, collection, installation and servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional and technical.

e. Number of temporary production workers – For each shift, report the number of *temporary production workers* **not** on the payroll (hired through temporary help agencies or as their own agent) and working during the pay period including November 12. Include temporary production workers who perform the same tasks as listed above. **Do not include part-time workers.**

f. Total hours worked by production workers – For each shift, report number of hours worked by all production workers in the fourth quarters (both those on the payroll and temporary production workers). Include overtime hours, but excluded paid vacations, holidays, and sick leave.

g. Hours worked by temporary production workers – For each shift, report number of hours worked by temporary production workers included in the total hours worked by production workers (line f). Include overtime hours worked by temporary production workers.

h. Overtime hours worked by production workers – For each shift, report number of overtime hours included in the total hours worked by production workers (line f).

Full production capability – In column 4, report work patterns for each characteristic as if the plant operated at full production capability in the 4th quarter of 2003. Use the criteria defined for Full Production Capability in item 2b.

Enter the number of shifts per day at full capacity in the box provided in the upper right hand corner. **See examples of responses to item 3 on page 6.**

Item 4 – FOURTH QUARTER ACTUAL OPERATIONS VS. FULL PRODUCTION CAPABILITY

Compare the actual value of production in the fourth quarter of 2003 to the estimated value of full production.

Item 4a – Mark (X) reasons why your actual operations were less than the estimated value of full production capability, if appropriate.

Item 4b – Select a time period that would have been reasonable to increase output to full production level.

Item 5 – NATIONAL EMERGENCY PRODUCTION

Read the definition and assumptions regarding national emergency production. Estimate your value of production under national emergency conditions for the fourth quarter of 2003. Use your own computations or methods similar to those described for estimating full production capability.

SPECIAL NOTE: Your value of production at national emergency levels should be **greater than or equal to** your value of full production capability. If it is less than your full production capability, please review your computations.

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

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.

For example, military mobilization may require increased production of food, clothing, building supplies, and conversion of plants to produce alternative products in addition to traditional defense hardware. Devastation from natural disasters, such as hurricanes, floods, earthquakes, or fire, may require increased production of similar goods as well as increased production to compensate for plants damaged or destroyed.

In estimating national emergency production, consider the following:

- Assume full use of **all** machinery and equipment in place (including machinery and equipment that would require extensive reconditioning before they could be made operable).
- Assume minimal downtime and **multi-work shift** operations.
- Assume plant production as close to 168 hours per week as possible, including extra shifts (e.g., operating 7 days per week, 24 hours per day less minimal downtime).
- Assume overtime pay, availability of labor, materials, utilities, etc., are **fully available** to you and your suppliers.
- Assume you can sell all your output.
- 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.

SPECIAL NOTE

Jobs shops and custom orders: For national emergency production, estimate the market value of work that could have been done if you received additional orders assuming maximum number of employees working multiple shifts that the facility can accommodate.

Publishing/printing plants: For national emergency production, report value of printing if operating machinery as close to 168 hours/week as possible.

Item 5b – Select a time period that would have been reasonable to increase output to emergency production level, if required.

If you have any questions concerning the definitions or instructions, please contact the Special Studies Branch of the Manufacturing and Construction Division on (301) 763-4667.

Example 1. A plant with one 8-hour shift operating 5 days/week

- a. Days per week in operation
- b. Plant hours per week in operation
- c. Weeks in operation in the quarter
- d. **Total number of production workers**
- e. **Temporary** production workers **included** in line d (not on the payroll and hired through temporary agencies or as their own agent; see instructions)
- f. **Total hours worked by production workers**
- g. Hours worked by temporary production workers (**included** in line f) .
- h. Overtime hours worked by production workers (**included** in line f) . .

| Actual Operations | | | Full Production Capability Number of shifts (4) ↳ 1 |
|-------------------|------------------|--------------------|---|
| Shift one (1) | Shift two (2) | Shift three (3) | |
| 5 | | | 7 |
| 40 | | | 56 |
| 13 | | | 13 |
| 32 | | | 44 |
| 2 | | | 4 |
| Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. |
| 15 880 | | | 17 680 |
| 1 240 | | | 1 600 |
| 1 0 | | | 1 0 |

Example 2. A plant with Two Production Shifts and One Maintenance Shift

- a. Days per week in operation
- b. Plant hours per week in operation
- c. Weeks in operation in the quarter
- d. **Total number of production workers**
- e. **Temporary** production workers **included** in line d (not on the payroll and hired through temporary agencies or as their own agent; see instructions)
- f. **Total hours worked by production workers**
- g. Hours worked by temporary production workers (**included** in line f) .
- h. Overtime hours worked by production workers (**included** in line f) . .

| Actual Operations | | | Full Production Capability Number of shifts (4) ↳ 2 |
|-------------------|------------------|--------------------|---|
| Shift one (1) | Shift two (2) | Shift three (3) | |
| 7 | 5 | | 7 |
| 56 | 40 | | 112 |
| 13 | 13 | | 13 |
| 110 | 50 | | 210 |
| 10 | 0 | | 0 |
| Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. |
| 53 200 | 24 800 | | 117 000 |
| 1 200 | 1 0 | | 1 0 |
| 1 0 | 1 0 | | 1 0 |

Example 3. A plant in Continuous Operation

- a. Days per week in operation
- b. Plant hours per week in operation
- c. Weeks in operation in the quarter
- d. **Total number of production workers**
- e. **Temporary** production workers **included** in line d (not on the payroll and hired through temporary agencies or as their own agent; see instructions)
- f. **Total hours worked by production workers**
- g. Hours worked by temporary production workers (**included** in line f) .
- h. Overtime hours worked by production workers (**included** in line f) . .

| Actual Operations | | | Full Production Capability Number of shifts (4) ↳ 3 |
|-------------------|------------------|--------------------|---|
| Shift one (1) | Shift two (2) | Shift three (3) | |
| 7 | 7 | 7 | 7 |
| 56 | 56 | 56 | 168 |
| 13 | 13 | 13 | 13 |
| 360 | 360 | 200 | 1080 |
| 0 | 0 | 0 | 0 |
| Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. | Mil. Thou. Hrs. |
| 168 480 | 168 480 | 104 000 | 505 440 |
| 1 0 | 1 0 | 1 0 | 1 0 |
| 1 200 | 1 200 | 1 0 | 1 0 |

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 U.S. Census Bureau 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 Bureau staff 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 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. 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 Bureau staff 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 that 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 presented in this report 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 error provides a measure of sampling error only. The total error will most likely exceed the standard errors shown.

The panel selected for this survey was sampled using probabilities proportionate to size (pps). Independent samples were chosen for each NAICS industry, except for the newly-added publishing industry group (5111), where the sample was controlled at the industry group only. Probabilities were assigned to control sampling allocation by industry subject to the constraint of a predetermined total sample size. These probabilities determined an expected sample size for each industry. The sampling procedure used ensured that this expected sample size was exactly realized. The particular sample selected was but one of the many probability samples of this size that could have resulted using this sampling methodology. 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 errors of the utilization rates and the year-to-year changes are guides to the potential sizes of these sampling errors.

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 estimates rate or change to one standard error above contains the complete coverage result with approximately 67-percent confidence.
2. The interval defined by two standard errors below and above the estimates rate or change contains the complete coverage result with approximately 95-percent confidence.
3. The interval defined by three standard errors below and above the estimates rate 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 2003 estimates presented in this report are derived from a probability sample of about 17,000 manufacturing establishments and about 250 publishing establishments. The 2003 panel is a continuation of a primary panel first selected in 1999. In each of the years subsequent to 1999 (except for 2003), this primary panel was updated with a representative sample of manufacturing births for those years. The births for a given year were selected from plants that had come into existence in the year following the most recent survey. As with the primary panel, selected births in a given year that remained active continued into subsequent panels. We were not able to update the sample with births in 2003 because we were in the process of transition between frame sources. The frame source we had used in previous years to identify births (the Standard Statistical Establishment List, or SSEL) was not updated and the new frame source (the Business Register) was not ready in time to supplement the previous panel. Therefore, the 2002 sample was simply carried forward for the 2003 survey, minus any plants from the previous panel that were no longer in business. For the 2002 survey, the manufacturing panel was supplemented with a panel of establishments selected from NAICS 5111, Newspaper, Periodical, Book, and Database Publishers. The printing activity of publishers had been omitted from the survey since the conversion to NAICS in 1999 because under NAICS, publishing became a nonmanufacturing industry group. However, the Federal Reserve Board (FRB), one of the funding agencies for the Survey of Plant Capacity, requested that the collection of publishing data be reinstated to enable them to maintain the continuity of production and capacity measures that are featured in its statistical release, G.17 Industrial Production and Capacity Utilization, a principal federal economic indicator.

The primary panel drawn in 1999 was a newly-selected panel and was the first to be wholly selected using the North American Industry Classification System (NAICS).¹ Previous panels were designed to provide estimates by

Standard Industrial Classifications (SIC). The sampling frame for the 1999 panel was created from the Manufacturing sector of the 1997 Economic Census and from a universe of new businesses that were identified subsequent to the census. The economic census manufacturing sector, which was also on a NAICS basis for the first time, contained almost 400,000 establishments. However, only about 230,000 establishments were mailed a census form; the remainder were imputed based on administrative data obtained from Internal Revenue Service and/or Social Security Administrative records. These small administrative record cases were not part of the sampling frame for the Survey of Plant Capacity Utilization. Thus, including new businesses starting after 1997, the final frame for the 1999 survey consisted of nearly 232,000 establishments. The birth frames for survey years 2000, 2001, and 2002 were approximately 7,100, 5,900, and 5,000 establishments, respectively. For all three frames, most of these establishments were "true" births, meaning they came into existence subsequent to the most recent survey. A small number from each frame, however, were existing plants that in earlier frame creation operations could not be coded to a NAICS-6 manufacturing code. These uncoded plants were not included in the original sampling frame. Approximately 1,600 births were sampled for the 2000 survey, about 600 for the 2001 survey, and about 1,000 for the 2002 survey. For the publishing supplement, about 250 establishments were selected from a universe frame of approximately 12,000 establishments.

The conversion to NAICS in 1999 resulted in two major differences from previous survey frames. Some activities were newly classified as manufacturing under NAICS and were in the scope of the survey for the first time. Similarly, some SIC manufacturing activities became nonmanufacturing under NAICS and were no longer in scope. The logging industry fell into the latter category. However, because of a special request to collect logging statistics for the 1999 survey, the panel cases from the previous survey panel were included with the 1999 mailing. In the years subsequent to 1999, however, logging statistics have not been collected.

For the 1999 sample operation, probabilities of selection were assigned to each sampling unit proportionate to its total value of shipments. For new businesses that started after 1997, total value of shipments (either reported or imputed) was obtained from the 1998 Annual Survey of Manufactures (ASM) and was used to assign probabilities

¹In 1997 dental labs (SIC 8072) were sampled, and this panel was canvassed in both the 1997 and 1998 survey years. At the time, dental labs were the only new manufacturing activity under NAICS that could be completely identified by a unique SIC industry code. In 1998 the remaining 20 new manufacturing industries (under NAICS) were sampled and mailed as part of the 1998 survey. Data were collected for these respective industries in anticipation of the 1999 publication, which was the first to present NAICS-based estimates.

of selection. Selected units were assigned sampling weights equal to the inverse of their probability of selection.

Sampling was conducted independently for each NAICS industry, so actual probabilities of selection were dependent on the final sample size determined for each industry. This determination was based upon a priority assigned to a given industry and the constraint that the total sample size was limited to about 17,000 establishments. Industry priority was based upon the grouping of SIC industries provided by the Department of Defense (DOD) prior to the sampling operation for the 1994 survey.

The DOD identified 188 SIC industries as primary industries and the remainder as nonpriority. The Census Bureau further split each of these groups into five priority categories and allocated the sample accordingly. For the 1996 sampling operation these same categorical breaks were maintained, but the sampling allocation was modified based on the survey results observed for the 1994 panel. For 1999, the DOD partition and the categorical breaks within were again maintained to the extent possible by mapping the SIC-4 codes to NAICS-6 codes. However, this was not a one-to-one mapping, so the final allocation of the sample was modified to remain within the total sample size constraint. For the incoming (new) manufacturing industries (see footnote 1), the allocation parameters used in 1997 and 1998, respectively, were maintained.

The 1999 panel selection was accomplished using a probability proportionate to size (pps) sampling methodology that insured that the sample size desired for each industry was realized. In previous panel selections, sampling was conducted independently by unit, which meant that over repeated applications, the resultant sample size would vary about the expected size. This property results in larger variances for the survey estimates. The fixed sample size methodology was used in 1998 to select the incoming NAICS manufacturing industries but was not used for the overall sample selection that year. Prior to sampling, an adjustment was made to all assigned probabilities that fell below a certain minimum value. This adjustment, which reset the original probabilities to this minimum value, guarded against exceedingly large sample weights (the inverse of the probability of selection) being assigned for selected establishments. If sample establishments with large sample weights reported data in excess of what was anticipated based on the unit of measure of size, the survey estimates could be adversely affected. For the priority industries, the minimum probability value was set to 0.02 (maximum weight 50); for the nonpriority industries, the minimum probability was set to 0.01 (maximum weight 100). These minimum probability rules resulted in a slight increase in the originally-allocated industry sample sizes.

The birth frames in 2000, 2001, and 2002 and the publishing frame in 2002 were sampled in similar fashion.

Probabilities of selection for the 2000 and 2001 birth frames were assigned based on total value of shipments obtained from the ASM. It was decided to use payroll in place of shipments for 2002 births because in the earlier years a significant proportion of the frame units did not have shipments available at the time of sampling. Payroll was also used to determine probabilities of selection for publishing. For year 2000, the birth universe was partitioned into three strata. The first stratum consisted of the births in the 48 highest priority industries. The second stratum consisted of jobbers, while the third contained the remainder of the birth cases. In both 2001 and 2002, each birth universe was treated as a unique stratum. For all three years, the total number of births selected was a function of the total number of manufacturing plants identified in the previous panel as no longer in operation, and the desire to maintain the overall manufacturing panel size at approximately 17,000 establishments. The 2002 publishing universe was partitioned into two strata based on whether or not plants had performed printing-related activities in the past. This determination was made using product information reported for these plants in the 1997 Census. Approximately 900 of the 12,000 frame units had printing activity, and they defined the first stratum. The remaining frame units either had no printing activity in 1997 or did not match to the 1997 Census file. These units defined the second stratum. Sampling for both strata was controlled at the industry group level and was designed so that most of the sample cases were drawn from the first stratum. The total selected sample of about 250 publishing establishments resulted in an overall sample size of about 17,300 units for the survey.

ESTIMATING PROCEDURE

The estimated full production rates shown in this report for the six-digit NAICS industries in Table 1a 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 six-digit NAICS industry, WT_{ij} is the sampling weight for establishment i in six-digit industry j ; VPA_{ij} is the actual value of production for establishment i in six-digit industry j ; VPF_{ij} is the value of production at the full production level; and the summations are for those establishments with reported or imputed value of production at both actual and full production level. (National emergency production rates in Table 1b are computed similarly, by substituting national emergency production (VPE) for VPF in the above formula.) Imputed nonrespondent data were included because the utilization rates for nonrespondents were not necessarily imputed at the average rate for respondents.

The estimated utilization rates for the higher level manufacturing industry groupings (total manufacturing sector, subsectors, industry groups, durable goods industries,

nondurable goods industries, advance processing industries, and primary processing 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 rate for the Kth industry group, VA_j is the value added for the jth six-digit industry as published in the most recent ASM or economic census and VA_j/R_j represents the value added for the jth six-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 to higher levels 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.

In accord with the sample design, estimates for publishing are presented at the industry group level only. These estimates are not included in any of the aggregated manufacturing estimates. Since the value added concept is not applicable to the publishing industry, the industry group estimates are derived in the same manner as the six-digit industry estimates described above for manufacturing, except that the summations range over all establishments within the industry group.

The estimated variances for the 2002 sample estimates based on the fixed sample size methodology are calculated as shown below. The equations shown refer to full production utilization rate variances. Similar calculations for emergency utilization rate variances are computed by substituting VPE for VPF. The variable γ_i is an establishment variable that arises from the use of the fixed sample

size method. For the six-digit NAICS industries and publishing industry group, the variances were computed as:

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

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

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

$$\sigma^2(A_j) = \sum_i \gamma_i \left(\sum_{l=1}^i (WT_{lj} VPA_{lj})^2 - (\sum_{l=1}^i WT_{lj} VPA_{lj})^2 \right)$$

$$\sigma^2(B_j) = \sum_i \gamma_i \left(\sum_{l=1}^i (WT_{lj} VPF_{lj})^2 - (\sum_{l=1}^i WT_{lj} VPF_{lj})^2 \right)$$

$$\sigma^2(A_j B_j) = \sum_i \gamma_i \left(\sum_{l=1}^i WT_{lj}^2 VPA_{lj} VPF_{lj} - (\sum_{l=1}^i WT_{lj} VPA_{lj})(\sum_{l=1}^i WT_{lj} VPF_{lj}) \right)$$

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

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

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 six-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.

Table 2 shows standard errors of the utilization rates. Standard errors are the square root of the corresponding variances. Estimated standard errors of the changes in utilization rates from 2001 to 2002 are also presented in Table 2. For more information regarding these estimates, contact the Special Studies Branch at 301-763-7657.

IMPUTATION

A new imputation methodology was implemented beginning with the 2003 survey. The new methodology utilizes the industry average to impute data for the current year if the plant's response was not received in time to meet publication deadlines. Prior to 2003, the estimates for these cases were derived using reported data from the plant in the previous survey.

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