# Unit Labor Costs for selected Industries, 1987-97 

U.S. Department of Labor<br>Bureau of Labor Statistics<br>November 1999

Report 939

Since 1987, unit labor costs have risen for 86 percent of the industries reported in this summary (table 1). Unit labor costs are calculated as the ratio of total labor compensation to real output, or equivalently, as the ratio of hourly compensation to labor productivity (output per hour). When labor productivity increases faster than hourly compensation, unit labor costs decrease. When hourly compensation increases faster than labor productivity, unit labor costs increase.

This report presents unit labor cost data for 173 industries, including 120 manufacturing and 53 mining and ser-vice-producing industries. Data for manufacturing industries are presented for the period 1987-96, whereas data for nonmanufacturing industries (except railroads) are presented for the period 1987-97. Table 1 shows the average annual rates of change in unit labor costs, total compensation, output, and output per hour for each of the reported industries. Table 2 presents the annual indexes of unit labor costs by industry.

Unit labor cost and labor productivity series have been calculated for all manufacturing and retail trade industries at the 3- and 4- digit SIC level and for selected 2-3- and 4digit industries in mining, transportation, communications and utilities, wholesale trade, finance, and services industries. The published indexes and rates of change in unit labor costs, labor productivity, and related series are available at http://stats.bls.gov/iprhome.htm on the BLS website. Unpublished data are available upon request. Requests for information may be sent to dipsweb@bls.gov by e-mail.

## Trends in unit labor costs

From 1987 to 1997, unit labor costs in the overall nonfarm business sector increased at an average annual rate of 2.0 percent; in the manufacturing sector they grew by an average of 0.5 percent. From 1987 to 1996, the period for which detailed manufacturing industry data are available, unit labor costs also increased by 2.0 percent per year in nonfarm business and by 0.6 percent per year in manufacturing.

Data for individual industries reported here show that unit labor costs in manufacturing industries generally grew at a slower rate than unit labor costs for industries outside manufacturing. From 1987 to 1996, unit labor costs declined or grew more slowly than for nonfarm business in 58 percent of the manufacturing industries, but in only 40
percent of the mining and 52 percent of the service-producing industries reported here. Industries where unit labor costs declined or grew more slowly than for nonfarm business covered 56 percent of the employment in manufacturing but only 35 percent of the measured employment in mining and 36 percent in the service producing sector.

The data show a strong relationship between changes in productivity and changes in unit labor costs. Industries with rapidly growing labor productivity generally experienced slow unit labor cost growth. Of the 82 industries where productivity grew by 2.0 percent or more per year, on average, since 1987, only 10 industries ( 12 percent) experienced average annual unit labor cost growth greater than or equal to 2.0 percent. In contrast, of the 91 industries where labor productivity grew less than 2.0 percent per year, 67 industries (74 percent) had average annual unit labor cost growth greater than or equal to 2.0 percent.

Of the 20 industries with the fastest productivity growth reported here, 15 experienced declining unit labor costs. In fact, a total of 25 industries from all sectors experienced declining unit labor costs since 1987, and all of these industries experienced increases in productivity.

In mining, two industries with rapid productivity growth were able to contain unit labor cost growth during the 198797 period. Bituminous coal and lignite mining (SIC 122) actually experienced an average decline in unit labor costs of 3.1 percent per year, whereas in gold and silver ores (SIC 104) unit labor costs remained about the same. Productivity growth in both industries exceeded 4.6 percent per year.

In manufacturing, 17 of the 120 industries in table 1 had declining unit labor costs over the 1987-96 period, and each of these experienced productivity growth. The manufacturing industries with the most rapid declines in unit labor costs were also those with rapid growth in productivity. Unit labor costs fell at an average annual rate of 2.1 percent for women's and children's undergarments (SIC 234) and communications equipment (SIC 366); 1.7 percent for railroad equipment (SIC 374) and metal cans and shipping containers (SIC 341); 1.5 percent for miscellaneous primary metal products (SIC 339); 1.2 percent for blast furnace and basic steel products (SIC 331) and ophthalmic goods (SIC 385); and 1.1 percent for yarn and thread mills (SIC 228) and engines and turbines (SIC 351). All of these industries experienced productivity increases of more than 3.5 percent per year.

Railroad transportation experienced a decline in unit labor costs of 3.0 percent per year and was the only measured transportation industry with declining unit labor costs over the 1987-97 period. This industry also had the fastest productivity growth, at 5.9 percent per year on average, of all the measured transportation industries.

In communications and utilities, unit labor costs declined by 0.8 percent from 1987 to 1997 in telephone communications (SIC 481), as its productivity rose by 4.8 percent per year. In electric utilities (SIC 491,3, pt) unit labor costs increased by only about 0.6 percent per year, whereas productivity grew by 4.2 percent per year.

In retail trade, unit labor costs declined in 4 of the 29 industries over the 1987-97 period. The decline was greatest in variety stores (SIC 533), where unit labor costs declined by 5.4 percent, whereas labor productivity grew at an average annual rate of 9.4 percent per year. A large decrease in unit labor costs, 3.3 percent per year, also occurred in radio, television, computer and music stores (SIC 573), where productivity grew by 8.2 percent per year, on average. Unit labor costs also declined in household appliance stores (SIC 572) and department stores (SIC 531) during the period.

In the measured finance and services industries, only barber shops (SIC 724) experienced a decline in unit labor costs from 1987 to 1997. Unit labor costs declined by 1.4 percent on average in this industry, while productivity grew by 4.4 percent per year, the highest productivity growth in the finance and services group.

## Methods and data underlying the series

Unit labor costs, which measure the cost of labor input required to produce one unit of output, are calculated as the ratio of current dollar labor compensation to constant dollar output. The indexes of unit labor costs for each industry are computed by dividing an index of current dollar compensation by an index of constant dollar output.

Compensation is a measure of the cost to the employer of securing the services of labor. It is defined as payroll plus supplemental payments. Payroll includes salaries, wages,
commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind. Supplemental payments are divided into legally required expenditures and payments for voluntary programs. The legally required expenditures include employers' contributions to Social Security, unemployment insurance taxes, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation, such as the employer portion of private health insurance and pension plans.

For manufacturing industries, annual compensation data are derived from the Annual Survey of Manufactures (ASM) and the quinquennial Census of Manufactures (COM) produced by the Bureau of the Census. These data are reported at the 4-digit SIC level.

For nonmanufacturing industries, annual wage and salary data from the BLS Covered Employment and Wages (ES-202) program are used. Because these data exclude supplemental payments, they are adjusted with ratios of compensation to payroll calculated from the quinquennial census data. The census year ratios are linearly interpolated for the years between censuses, since data to construct ratios are not available for those years. In addition, an imputation is made to account for compensation of the self-employed.

The indexes of industry output used in measuring unit labor costs are, wherever possible, calculated with a Tornqvist formula. This formula aggregates the growth rates of the various industry products between two periods using the products' shares in industry value of production, averaged over the two periods, as weights. More information on how the industry labor productivity, output, and labor input measures are calculated can be obtained from chapter 11 of the BLS Handbook of Methods, which can be accessed at http://stats.bls.gov/opub/hom/homch11_a.htm on the BLS website.

Material in this report is in the public domain and, with appropriate credit, may be used without permission. This information is available to sensory impaired individuals upon request. Voice phone: (202) 606-7828; Federal Service: 1-800-877-8339.

Table 1. Unit labor cost and related series: mining and service producing industries, 1987-97; manufacturing industries, 1987-96

| SIC Code | Industry | Average annual percent changes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit labor costs | Total Compensation | Output | Output per hour ${ }^{1}$ |
|  | Mining, 1987-97 |  |  |  |  |
| 102 | Copper ores | 2.6 | 7.0 | 4.2 | 1.7 |
| 104 | Gold and silver ores | . 0 | 8.2 | 8.2 | 4.7 |
| 122 | Bituminous coal and lignite mining | -3.1 | -1.9 | 1.2 | 5.9 |
| 131 | Crude petroleum and natural gas | 2.9 | 2.0 | -. 8 | 2.3 |
| 142 | Crushed and broken stone | 2.3 | 4.4 | 2.1 | 1.4 |
|  | Manufacturing, 1987-96 |  |  |  |  |
| 201 | Meat products | 2.8 | 5.2 | 2.3 | -. 3 |
| 202 | Dairy products | 2.3 | 2.8 | . 5 | 1.7 |
| 203 | Preserved fruits and vegetables | 2.1 | 3.9 | 1.7 | 1.0 |
| 204 | Grain mill products | 1.8 | 3.1 | 1.3 | . 8 |
| 205 | Bakery products | 3.9 | 3.2 | -. 7 | -. 5 |
| 206 | Sugar and confectionery products | 1.7 | 3.3 | 1.6 | 1.3 |
| 207 | Fats and oils | . 8 | . 8 | 1.8 | 1.2 |
| 208 | Beverages | -. 5 | 1.7 | 2.2 | 3.4 |
| 209 | Miscellaneous food and kindred products | 2.0 | 4.3 | 2.2 | . 8 |
| 211 | Cigarettes | . 3 | . 9 | . 7 | 4.4 |
| 221 | Broadwoven fabric mills, cotton | . 0 | -. 1 | -. 1 | 3.6 |
| 222 | Broadwoven fabric mills, manmade | . 6 | 1.7 | 1.2 | 4.7 |
| 224 | Narrow fabric mills | 1.7 | 3.0 | 1.3 | 2.7 |
| 225 | Knitting mills | -. 5 | 1.7 | 2.2 | 4.7 |
| 226 | Textile finishing, except wool | 4.0 | 2.8 | -1.1 | -2.5 |
| 227 | Carpets and rugs | 3.2 | 3.5 | . 3 | . 1 |
| 228 | Yarn and thread mills | -1.1 | . 0 | 1.2 | 4.3 |
| 229 | Miscellaneous textile goods | 2.4 | 4.6 | 2.2 | 2.5 |
| 231 | Men's and boys' suits and coats | 2.6 | -4.1 | -6.5 | -. 4 |
| 232 | Men's and boys' furnishings | . 1 | -. 2 | -. 3 | 3.3 |
| 233 | Women's and misses' outerwear | . 3 | . 8 | . 5 | 4.2 |
| 234 | Women's and children's undergarments | -2.1 | -2.7 | -. 5 | 6.2 |
| 235 | Hats, caps, and millinery | 4.0 | 4.7 | . 7 | -2.3 |
| 238 | Miscellaneous apparel and accessories | 1.0 | . 7 | -. 3 | 2.2 |
| 239 | Miscellaneous fabricated textile products | 2.1 | 4.4 | 2.3 | . 7 |
| 241 | Logging | 4.4 | 2.3 | -2.0 | -1.7 |
| 242 | Sawmills and planing mills | 2.1 | 2.5 | . 4 | 1.6 |
| 243 | Millwork, plywood, and structural members | 3.7 | 3.5 | -. 1 | -. 9 |
| 244 | Wood containers | 3.7 | 7.1 | 3.4 | . 7 |
| 245 | Wood buildings and mobile homes | 3.6 | 6.2 | 2.5 | -. 3 |
| 249 | Miscellaneous wood products | 2.1 | 3.8 | 1.7 | 1.5 |
| 251 | Household furniture | 2.1 | 2.8 | . 8 | 2.3 |
| 252 | Office furniture | 2.9 | 2.3 | -. 6 | . 7 |
| 253 | Public building and related furniture | -. 4 | 11.3 | 11.8 | 6.7 |
| 254 | Partitions and fixtures | 2.8 | 4.2 | 1.4 | -. 3 |
| 259 | Miscellaneous furniture and fixtures | 2.6 | 4.3 | 1.7 | 1.4 |

See footnotes at end of table.

Table 1. Unit labor cost and related series: mining and service producing industries, 1987-97; manufacturing industries, 1987-96—Continued

| SIC Code | Industry | Average annual percent changes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit labor costs | Total Compensation | Output | Output per hour ${ }^{1}$ |
|  | Manufacturing, 1987-96-Continued |  |  |  |  |
| 261 | Pulp mills | 2.1 | 3.5 | 1.3 | 3.2 |
| 262 | Paper mills | 2.1 | 2.6 | . 5 | 1.3 |
| 263 | Paperboard mills | 3.0 | 4.2 | 1.2 | 1.9 |
| 265 | Paperboard containers and boxes | 2.8 | 4.5 | 1.6 | . 7 |
| 267 | Miscellaneous converted paper products | 2.2 | 4.0 | 1.8 | 1.5 |
| 271 | Newspapers | 6.4 | 2.7 | -3.5 | -2.8 |
| 272 | Periodicals | 5.4 | 5.1 | -. 4 | -1.1 |
| 273 | Books | 4.5 | 6.0 | 1.4 | . 1 |
| 274 | Miscellaneous publishing | 2.9 | 3.4 | . 5 | -. 8 |
| 275 | Commercial printing | 2.3 | 4.2 | 1.9 | . 9 |
| 276 | Manifold business forms | 4.7 | . 1 | -4.4 | -3.2 |
| 277 | Greeting cards | 2.8 | 3.7 | . 9 | -. 9 |
| 278 | Blankbooks and bookbinding | 1.7 | 2.6 | . 8 | 1.6 |
| 279 | Printing trade services | . 3 | 1.6 | 1.3 | 2.7 |
| 281 | Industrial inorganic chemicals | 1.7 | 2.4 | . 7 | 1.1 |
| 282 | Plastics materials and synthetics | 1.6 | 3.6 | 2.0 | 2.5 |
| 283 | Drugs | 3.9 | 7.5 | 3.4 | 1.4 |
| 284 | Soaps, cleaners, and toilet goods | 1.9 | 4.1 | 2.2 | 2.2 |
| 285 | Paints and allied products | 2.6 | 3.2 | . 6 | 2.4 |
| 286 | Industrial organic chemicals | 5.4 | 5.0 | -. 4 | -. 2 |
| 287 | Agricultural chemicals | 2.1 | 3.9 | 1.7 | 1.2 |
| 289 | Miscellaneous chemical products | 2.0 | 3.0 | . 9 | 1.1 |
| 291 | Petroleum refining | 2.4 | 3.8 | 1.3 | 4.0 |
| 295 | Asphalt paving and roofing materials | . 9 | 2.6 | 1.7 | 1.5 |
| 299 | Miscellaneous petroleum and coal products | 4.0 | 4.5 | . 5 | -1.6 |
| 301 | Tires and inner tubes | 1.0 | 3.8 | 2.8 | 3.7 |
| 305 | Hose and belting and gaskets and packing | 2.0 | 5.4 | 3.3 | . 8 |
| 306 | Fabricated rubber products, n.e.c. | . 8 | 3.8 | 2.9 | 2.1 |
| 308 | Miscellaneous plastics products, n.e.c. | 1.5 | 6.3 | 4.8 | 2.5 |
| 314 | Footwear, except rubber | 2.2 | -2.5 | -4.6 | 2.6 |
| 321 | Flat glass | -. 5 | . 4 | . 8 | . 5 |
| 322 | Glass and glassware, pressed or blown | . 8 | 1.2 | . 4 | 2.2 |
| 323 | Products of purchased glass | 1.6 | 6.1 | 4.4 | 2.5 |
| 324 | Cement, hydraulic | . 7 | 2.1 | 1.4 | 2.8 |
| 325 | Structural clay products | 2.2 | 2.6 | . 4 | 2.0 |
| 326 | Pottery and related products | 1.7 | 4.7 | 2.9 | 2.0 |
| 327 | Concrete, gypsum, and plaster products | 2.3 | 3.4 | 1.0 | . 8 |
| 329 | Miscellaneous nonmetallic mineral products | 1.8 | 3.1 | 1.3 | 1.2 |
| 331 | Blast furnace and basic steel products | -1.2 | 2.4 | 3.7 | 4.9 |
| 332 | Iron and steel foundries | 1.0 | 3.0 | 2.0 | 1.6 |
| 333 | Primary nonferrous metals | 3.2 | 4.2 | 1.0 | 1.2 |
| 335 | Nonferrous rolling and drawing | 3.3 | 3.2 | -. 1 | . 4 |
| 336 | Nonferrous foundries (castings) | 1.6 | 4.6 | 3.0 | 2.3 |

[^0]Table 1. Unit labor cost and related series: mining and service producing industries, 1987-97;
manufacturing industries, 1987-96-Continued

| SIC Code | Industry | Average annual percent changes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit labor costs | Total Compensation | Output | Output per hour ${ }^{1}$ |
|  | Manufacturing, 1987-96 |  |  |  |  |
| 339 | Miscellaneous primary metal products | -1.5 | 4.5 | 6.1 | 4.6 |
| 341 | Metal cans and shipping containers | -1.7 | -1.0 | . 7 | 5.0 |
| 342 | Cutlery, handtools, and hardware | 1.6 | 2.9 | 1.2 | 1.8 |
| 343 | Plumbing and heating, except electric | 1.3 | 2.5 | 1.2 | 1.9 |
| 344 | Fabricated structural metal products | 2.2 | 3.7 | 1.5 | . 7 |
| 345 | Screw machine products, bolts, etc. | 1.9 | 4.2 | 2.2 | 1.1 |
| 346 | Metal forgings and stampings | . 4 | 3.3 | 2.8 | 1.4 |
| 347 | Metal services, n.e.c. | . 5 | 5.3 | 4.8 | 2.7 |
| 348 | Ordnance and accessories, n.e.c. | 1.5 | -5.1 | -6.6 | -1.5 |
| 349 | Miscellaneous fabricated metal products | 2.1 | 4.8 | 2.7 | . 9 |
| 351 | Engines and turbines | -1.1 | 1.5 | 2.6 | 3.6 |
| 352 | Farm and garden machinery | . 8 | 5.1 | 4.3 | 3.5 |
| 353 | Construction and related machinery | -. 2 | 3.5 | 3.8 | 2.4 |
| 354 | Metalworking machinery | 1.5 | 4.6 | 3.0 | 1.5 |
| 355 | Special industry machinery | . 2 | 5.4 | 5.3 | 3.4 |
| 356 | General industrial machinery | 1.8 | 4.4 | 2.6 | 1.1 |
| 358 | Refrigeration and service machinery | . 3 | 3.9 | 3.6 | 1.5 |
| 359 | Industrial machinery, n.e.c. | . 9 | 6.7 | 5.7 | 4.0 |
| 361 | Electric distribution equipment | 1.9 | 3.6 | 1.7 | 4.2 |
| 362 | Electrical industrial apparatus | . 4 | 3.9 | 3.5 | 4.9 |
| 363 | Household appliances | . 6 | 2.2 | 1.6 | 2.7 |
| 364 | Electric lighting and wiring equipment | 1.6 | 2.7 | 1.1 | 1.8 |
| 366 | Communications equipment | -2.1 | 4.8 | 7.1 | 7.4 |
| 369 | Miscellaneous electrical equipment and supplies | -. 5 | 1.0 | 1.5 | 2.3 |
| 371 | Motor vehicles and equipment | 1.7 | 4.0 | 2.2 | . 4 |
| 372 | Aircraft and parts | 2.3 | -. 7 | -2.9 | 1.3 |
| 373 | Ship and boat building and repairing | 2.1 | . 4 | -1.6 | . 1 |
| 374 | Railroad equipment | -1.7 | 6.5 | 8.4 | 4.3 |
| 375 | Motorcycles, bicycles, and parts | 4.5 | 14.6 | 9.7 | 2.4 |
| 376 | Guided missiles, space vehicles, parts | . 7 | -5.6 | -6.2 | 2.7 |
| 381 | Search and navigation equipment | 1.8 | -2.4 | -4.1 | 4.0 |
| 382 | Measuring and controlling devices | -. 5 | 3.7 | 4.2 | 4.6 |
| 384 | Medical instruments and supplies | 1.6 | 8.0 | 6.2 | 3.8 |
| 385 | Ophthalmic goods | -1.2 | 5.4 | 6.7 | 7.3 |
| 386 | Photographic equipment \& supplies | . 2 | . 4 | . 2 | 2.9 |
| 391 | Jewelry, silverware, and plated ware | 1.9 | 1.5 | -. 5 | . 4 |
| 393 | Musical instruments | 5.3 | 4.9 | -. 4 | -2.6 |
| 394 | Toys and sporting goods | 1.8 | 5.8 | 4.0 | 2.0 |
| 395 | Pens, pencils, office, and art supplies | 1.4 | 4.9 | 3.5 | 4.2 |
| 396 | Costume jewelry and notions | 1.4 | 1.7 | . 3 | 4.0 |
| 399 | Miscellaneous manufactures | 2.2 | 4.7 | 2.5 | 1.4 |

See footnotes at end of table.

Table 1. Unit labor cost and related series: mining and service producing industries, 1987-97; manufacturing industries, 1987-96-Continued

| SIC Code | Industry | Average annual percent changes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit labor costs | Total Compensation | Output | Output per hour ${ }^{1}$ |
| 40114213431$4512,13,22(\mathrm{PTS})$ | Transportation, 1987-97 |  |  |  |  |
|  | Railroad transportation | $-3.0{ }^{3}$ | $-0.1^{3}$ | $3.0^{3}$ | $5.9{ }^{3}$ |
|  | Trucking, except local | 1.8 | 5.2 | 3.4 | 2.8 |
|  | U.S. postal service ${ }^{2}$ | 3.3 | 5.2 | 1.9 | . 8 |
|  | Air transportation | . 9 | 5.3 | 4.4 | 1.1 |
|  | Communications and utilities, 1987-97 |  |  |  |  |
| 481 | Telephone communications | -. 8 | 4.9 | 5.8 | 4.8 |
| 483 | Radio and television broadcasting | 3.9 | 4.7 | . 8 | . 1 |
| 484 | Cable and other pay TV services | 5.8 | 9.4 | 3.4 | -1.7 |
| 491,2,3 | Gas and electric utilities | 1.0 | 2.8 | 1.8 | 3.6 |
| 491,3(PT) | Electric utilities | . 6 | 3.0 | 2.5 | 4.2 |
| 492,3(PT) | Gas utilities | 2.7 | 2.3 | -. 4 | 1.8 |
|  | Retail Trade, 1987-97 |  |  |  |  |
| 521 | Lumber and other building materials dealers | . 9 | 5.8 | 4.9 | 2.2 |
| 523 | Paint, glass, and wallpaper stores | . 9 | 2.9 | 2.0 | 2.8 |
| 525 | Hardware stores | 2.1 | 3.4 | 1.3 | 1.5 |
| 526 | Retail nurseries, lawn and garden supply stores | 2.3 | 4.3 | 2.0 | 1.8 |
| 531 | Department stores | -. 3 | 4.7 | 5.0 | 2.3 |
| 533 | Variety stores | -5.4 | -2.4 | 3.1 | 9.4 |
| 539 | Miscellaneous general merchandise stores | 1.3 | 6.3 | 4.9 | 5.2 |
| 541 | Grocery stores | 4.1 | 4.2 | . 1 | -1.2 |
| 542 | Meat and fish (seafood) markets | 3.4 | . 4 | -2.9 | -1.0 |
| 546 | Retail bakeries | 3.4 | 5.0 | 1.6 | -. 2 |
| 551 | New and used car dealers | 2.9 | 4.9 | 1.9 | . 7 |
| 553 | Auto and home supply stores | 2.4 | 5.2 | 2.7 | . 9 |
| 554 | Gasoline service stations | 2.0 | 3.3 | 1.2 | 1.5 |
| 561 | Men's and boy's wear stores | . 3 | . 5 | . 2 | 3.4 |
| 562 | Women's clothing stores | . 9 | . 3 | -. 6 | 3.0 |
| 565 | Family clothing stores | . 7 | 7.3 | 6.5 | 3.7 |
| 566 | Shoe stores | . 2 | 2.2 | 2.0 | 3.7 |
| 569 | Miscellaneous apparel and accessory stores | 1.4 | 8.0 | 6.4 | 2.5 |
| 571 | Furniture and homefurnishings stores | . 9 | 4.4 | 3.5 | 2.3 |
| 572 | Household appliance stores | -1.5 | . 7 | 2.2 | 4.1 |
| 573 | Radio, television, computer, and music stores | -3.3 | 9.3 | 13.1 | 8.2 |
| 581 | Eating and drinking places | 4.5 | 5.8 | 1.3 | -. 6 |
| 591 | Drug and proprietary stores | 3.3 | 5.3 | 2.0 | 1.3 |
| 592 | Liquor stores | 2.9 | 1.8 | -1.1 | . 8 |
| 593 | Used merchandise stores | 1.6 | 8.1 | 6.4 | 2.0 |
| 594 | Miscellaneous shopping goods stores | 1.5 | 5.4 | 3.8 | 2.2 |
| 596 | Nonstore retailers | . 7 | 6.6 | 5.8 | 4.0 |
| 598 | Fuel dealers | 3.0 | 2.4 | -. 5 | . 6 |
| 599 | Retail stores, n.e.c. | . 1 | 5.3 | 5.2 | 3.3 |

See footnotes at end of table.

Table 1. Unit labor cost and related series: mining and service producing industries, 1987-97;
manufacturing industries, 1987-96-Continued

| SIC Code | Industry | Average annual percent changes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit labor costs | Total Compensation | Output | Output per hour ${ }^{1}$ |
|  | Finance and services, 1987-97 |  |  |  |  |
| 602 | Commercial banks | 2.6 | 4.7 | 2.1 | 3.0 |
| 701 | Hotels and motels | 4.0 | 6.6 | 2.5 | . 8 |
| 721 | Laundry, cleaning, and garment services | 2.7 | 4.4 | 1.7 | . 8 |
| 722 | Photographic studios, portrait | . 3 | 6.1 | 5.8 | 3.1 |
| 723 | Beauty shops | 3.3 | 5.6 | 2.3 | . 9 |
| 724 | Barber shops | -1.4 | -1.9 | -. 5 | 4.4 |
| 726 | Funeral services and crematories | 4.7 | 6.1 | 1.3 | . 1 |
| 753 | Automotive repair shops | 2.2 | 5.6 | 3.2 | 1.5 |
| 783 | Motion picture theaters | 2.6 | 4.8 | 2.1 | . 1 |

n.a.=not available
n.e.c. $=$ not elsewhere classified
${ }^{1}$ Output per employee hour is measured in all cases except: (1) output per employee is used for SIC 4213 and SIC 4512,13,22 (pts); and (2) output per hour of all persons is used for all trade and services industries except SIC 531 and SIC 551. All persons includes self-employed and unpaid family workers as well as employees.
${ }^{2}$ Employee hours in SIC 431 are based on the number of full-time equivalent (FTE) years, as reported in the U.S. Postal Service budget. FTE employee years are computed by dividing total hours of full-time, part-time, and intermittent workers by the number of hours in astandard work year. The output and hours for SIC 431 reflect the Federal fiscal year.
${ }^{3}$ 1987-96.

Table 2. Unit labor cost indexes by industry, 1988-97
[1987 = 100]

| SIC Code | Title | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mining |  |  |  |  |  |  |  |  |  |  |
| 102 | Copper ores | 110.5 | 105.7 | 110.1 | 119.5 | 115.3 | 114.6 | 109.9 | 127.2 | 141.1 | 129.6 |
| 104 | Gold and silver ores | 104.0 | 100.1 | 97.8 | 97.0 | 91.7 | 88.6 | 90.7 | 100.1 | 113.2 | 100.5 |
| 122 | Bituminous coal and lignite mining | 93.0 | 89.6 | 90.7 | 88.6 | 85.4 | 83.4 | 79.2 | 78.2 | 74.7 | 72.8 |
| 131 | Crude petroleum and natural gas | 105.6 | 111.4 | 117.9 | 122.8 | 128.6 | 128.2 | 123.5 | 121.5 | 124.4 | 133.3 |
| 142 | Crushed and broken stone | 105.6 | 111.8 | 114.2 | 119.5 | 120.1 | 120.7 | 117.2 | 127.2 | 127.6 | 125.0 |
|  | Manufacturing |  |  |  |  |  |  |  |  |  |  |
| 201 | Meat products | 102.2 | 108.1 | 114.3 | 117.6 | 115.3 | 117.1 | 121.2 | 121.8 | 128.7 | n.a. |
| 202 | Dairy products | 99.2 | 106.1 | 109.0 | 112.5 | 112.6 | 114.5 | 117.3 | 117.5 | 122.5 | n.a. |
| 203 | Preserved fruits and vegetables | 103.5 | 107.6 | 111.6 | 110.0 | 116.7 | 114.8 | 116.0 | 116.7 | 120.7 | n.a. |
| 204 | Grain mill products | 104.8 | 105.4 | 105.8 | 110.5 | 115.8 | 114.6 | 115.1 | 110.3 | 117.0 | n.a. |
| 205 | Bakery products | 109.6 | 117.3 | 119.9 | 128.5 | 135.1 | 136.6 | 134.3 | 135.9 | 141.3 | n.a. |
| 206 | Sugar and confectionery products | 100.6 | 105.4 | 108.8 | 115.5 | 115.7 | 117.9 | 121.1 | 118.0 | 116.6 | n.a. |
| 207 | Fats and oils | 103.1 | 102.2 | 97.5 | 95.5 | 101.8 | 103.8 | 105.3 | 100.1 | 107.8 | n.a. |
| 208 | Beverages | 98.5 | 98.7 | 96.1 | 99.5 | 98.6 | 100.9 | 96.8 | 96.1 | 95.4 | n.a. |
| 209 | Miscellaneous food and kindred products | 101.7 | 105.3 | 108.7 | 113.6 | 115.9 | 110.9 | 118.0 | 120.1 | 119.3 | n.a. |
| 211 | Cigarettes | 98.6 | 100.6 | 102.2 | 112.8 | 116.9 | 132.9 | 102.6 | 98.6 | 102.4 | n.a. |
| 221 | Broadwoven fabric mills, cotton | 102.6 | 107.2 | 104.3 | 109.9 | 101.2 | 101.0 | 104.8 | 101.5 | 99.6 | n.a. |
| 222 | Broadwoven fabric mills, manmade | 105.9 | 109.8 | 112.7 | 110.2 | 121.4 | 118.1 | 109.4 | 108.8 | 105.2 | n.a. |
| 224 | Narrow fabric mills | 96.9 | 102.5 | 105.0 | 102.5 | 108.8 | 108.7 | 109.3 | 113.8 | 116.0 | n.a. |
| 225 | Knitting mills | 105.3 | 100.1 | 107.4 | 97.2 | 103.3 | 101.1 | 98.7 | 98.6 | 95.3 | n.a. |
| 226 | Textile finishing, except wool | 108.9 | 110.3 | 113.8 | 114.3 | 122.4 | 119.4 | 134.9 | 136.4 | 142.4 | n.a. |
| 227 | Carpets and rugs | 104.6 | 108.0 | 109.8 | 119.5 | 114.2 | 118.6 | 128.1 | 130.0 | 132.5 | n.a. |
| 228 | Yarn and thread mills | 101.2 | 102.0 | 99.9 | 96.1 | 94.7 | 92.0 | 92.8 | 91.1 | 90.3 | n.a. |
| 229 | Miscellaneous textile goods | 101.9 | 105.7 | 107.7 | 114.6 | 141.2 | 121.8 | 126.0 | 124.7 | 123.4 | n.a. |
| 231 | Men's and boys' suits and coats | 106.9 | 118.9 | 128.4 | 134.8 | 139.1 | 129.3 | 122.1 | 124.6 | 125.5 | n.a. |
| 232 | Men's and boys' furnishings | 107.0 | 111.9 | 115.6 | 114.5 | 116.4 | 117.1 | 113.8 | 109.4 | 100.7 | n.a. |
| 233 | Women's and misses' outerwear | 102.4 | 105.8 | 107.2 | 106.8 | 106.0 | 108.1 | 103.2 | 105.3 | 102.5 | n.a. |
| 234 | Women's and children's undergarments | 100.0 | 111.5 | 112.3 | 106.6 | 102.2 | 102.2 | 92.3 | 88.7 | 82.2 | n.a. |
| 235 | Hats, caps, and millinery | 102.9 | 101.8 | 113.1 | 109.2 | 114.5 | 124.0 | 129.6 | 130.8 | 142.4 | n.a. |
| 238 | Miscellaneous apparel and accessories | 106.0 | 113.0 | 116.9 | 120.1 | 122.3 | 112.5 | 107.5 | 108.6 | 108.9 | n.a. |
| 239 | Miscellaneous fabricated textile products | 106.0 | 102.8 | 103.5 | 108.1 | 114.1 | 111.1 | 111.7 | 115.0 | 120.1 | n.a. |
| 241 | Logging | 110.1 | 114.3 | 123.3 | 125.7 | 125.3 | 138.1 | 141.0 | 144.8 | 146.8 | n.a. |
| 242 | Sawmills and planing mills | 104.3 | 105.7 | 107.3 | 106.9 | 114.9 | 129.8 | 125.2 | 123.1 | 120.3 | n.a. |
| 243 | Millwork, plywood, and structural members | 106.8 | 109.6 | 111.7 | 116.1 | 123.8 | 128.7 | 129.9 | 136.5 | 138.2 | n.a. |
| 244 | Wood containers | 99.9 | 106.3 | 107.0 | 108.2 | 117.4 | 129.8 | 131.9 | 136.0 | 138.2 | n.a. |
| 245 | Wood buildings and mobile homes | 106.7 | 111.1 | 114.5 | 117.0 | 119.9 | 120.7 | 124.4 | 130.9 | 137.6 | n.a. |
| 249 | Miscellaneous wood products | 103.9 | 105.7 | 109.2 | 111.2 | 111.3 | 111.7 | 112.7 | 116.2 | 121.0 | n.a. |
| 251 | Household furniture | 105.0 | 107.0 | 110.8 | 113.1 | 116.0 | 113.6 | 116.3 | 118.7 | 120.2 | n.a. |
| 252 | Office furniture | 109.4 | 111.6 | 117.3 | 122.4 | 118.7 | 122.1 | 122.2 | 128.4 | 129.8 | n.a. |
| 253 | Public building and related furniture | 94.1 | 100.2 | 100.5 | 103.6 | 98.6 | 95.7 | 98.7 | 94.2 | 96.5 | n.a. |
| 254 | Partitions and fixtures | 105.7 | 107.1 | 111.2 | 113.7 | 116.3 | 117.3 | 113.7 | 118.4 | 127.7 | n.a. |
| 259 | Miscellaneous furniture and fixtures | 101.2 | 103.4 | 105.9 | 113.6 | 117.4 | 121.3 | 124.7 | 119.7 | 126.0 | n.a. |
| 261 | Pulp mills | 106.5 | 108.4 | 119.0 | 113.1 | 106.6 | 110.5 | 105.1 | 116.8 | 120.8 | n.a. |

See footnotes at end of table.

Table 2. Unit labor cost indexes by industry, 1988-97—Continued
[1987 = 100]

| SIC Code | Title | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Manufacturing |  |  |  |  |  |  |  |  |  |  |
| 262 | Paper mills | 98.6 | 102.4 | 105.6 | 114.4 | 116.8 | 119.0 | 113.4 | 109.6 | 120.5 | n.a. |
| 263 | Paperboard mills | 102.5 | 107.6 | 113.2 | 115.7 | 116.5 | 119.8 | 121.6 | 124.2 | 130.8 | n.a. |
| 265 | Paperboard containers and boxes | 103.0 | 107.2 | 110.3 | 112.4 | 114.0 | 115.3 | 117.1 | 125.1 | 128.1 | n.a. |
| 267 | Miscellaneous converted paper products | 102.2 | 106.1 | 110.4 | 112.9 | 117.6 | 117.3 | 114.5 | 116.5 | 121.5 | n.a. |
| 271 | Newspapers | 107.5 | 116.2 | 129.7 | 143.1 | 154.1 | 157.2 | 159.8 | 168.1 | 174.8 | n.a. |
| 272 | Periodicals | 104.5 | 113.4 | 125.4 | 134.8 | 145.7 | 153.4 | 161.9 | 161.6 | 161.1 | n.a. |
| 273 | Books | 107.4 | 113.0 | 119.2 | 125.3 | 139.4 | 135.9 | 135.4 | 142.1 | 149.1 | n.a. |
| 274 | Miscellaneous publishing | 104.0 | 112.4 | 114.9 | 116.2 | 105.1 | 111.7 | 109.3 | 118.7 | 129.0 | n.a. |
| 275 | Commerical printing | 101.5 | 105.5 | 108.6 | 111.7 | 114.4 | 117.4 | 116.4 | 119.0 | 123.0 | n.a. |
| 276 | Manifold business forms | 107.0 | 109.9 | 111.8 | 115.9 | 120.9 | 122.9 | 129.9 | 139.4 | 151.1 | n.a. |
| 277 | Greeting cards | 104.2 | 109.4 | 123.7 | 124.3 | 115.1 | 120.8 | 125.3 | 125.2 | 127.8 | n.a. |
| 278 | Blankbooks and bookbinding | 103.4 | 107.8 | 114.5 | 122.2 | 120.6 | 119.5 | 118.8 | 120.3 | 116.6 | n.a. |
| 279 | Printing trade services | 101.5 | 102.7 | 100.5 | 101.0 | 105.7 | 105.0 | 103.9 | 103.9 | 102.7 | n.a. |
| 281 | Industrial inorganic chemicals | 99.5 | 105.8 | 110.8 | 120.8 | 121.5 | 116.8 | 119.6 | 115.9 | 116.6 | n.a. |
| 282 | Plastics materials and synthetics | 105.0 | 111.3 | 116.6 | 123.0 | 120.6 | 119.9 | 118.2 | 119.1 | 115.1 | n.a. |
| 283 | Drugs | 103.9 | 117.4 | 123.1 | 125.0 | 125.3 | 134.4 | 133.7 | 140.7 | 141.6 | n.a. |
| 284 | Soaps, cleaners, and toilet goods | 103.5 | 112.2 | 112.1 | 117.0 | 123.2 | 118.8 | 115.9 | 114.1 | 118.1 | n.a. |
| 285 | Paints and allied products | 102.5 | 106.8 | 106.2 | 110.8 | 122.4 | 115.9 | 120.0 | 129.6 | 126.2 | n.a. |
| 286 | Industrial organic chemicals | 96.0 | 97.6 | 108.7 | 121.0 | 127.6 | 136.5 | 131.1 | 140.6 | 160.7 | n.a. |
| 287 | Agricultural chemicals | 100.6 | 106.5 | 109.2 | 110.9 | 113.6 | 112.2 | 120.2 | 121.0 | 120.7 | n.a. |
| 289 | Miscellaneous chemical products | 104.8 | 111.1 | 114.9 | 121.3 | 123.1 | 117.7 | 123.7 | 124.2 | 119.8 | n.a. |
| 291 | Petroleum refining | 101.5 | 105.7 | 112.3 | 122.6 | 124.7 | 127.4 | 130.3 | 128.8 | 124.0 | n.a. |
| 295 | Asphalt paving and roofing materials | 105.4 | 104.7 | 107.1 | 116.4 | 110.9 | 106.8 | 110.9 | 111.5 | 108.4 | n.a. |
| 299 | Miscellaneous petroleum and coal products | 105.2 | 111.6 | 119.7 | 129.8 | 131.4 | 131.4 | 133.0 | 140.5 | 142.0 | n.a. |
| 301 | Tires and inner tubes | 103.8 | 110.4 | 114.3 | 124.0 | 122.5 | 119.7 | 119.8 | 114.2 | 109.0 | n.a. |
| 305 | Hose and belting and gaskets and packing | 106.1 | 113.1 | 113.4 | 123.5 | 116.0 | 117.1 | 114.8 | 117.0 | 119.3 | n.a. |
| 306 | Fabricated rubber products, n.e.c. | 97.5 | 102.1 | 101.1 | 105.9 | 107.2 | 104.3 | 103.1 | 102.9 | 107.6 | n.a. |
| 308 | Miscellaneous plastics products, n.e.c. | 104.8 | 109.0 | 111.7 | 115.3 | 115.2 | 113.9 | 110.0 | 113.6 | 114.3 | n.a. |
| 314 | Footwear, except rubber | 103.7 | 109.2 | 114.0 | 116.2 | 109.3 | 113.3 | 113.2 | 117.0 | 122.0 | n.a. |
| 321 | Flat glass | 105.4 | 105.4 | 108.1 | 111.0 | 102.9 | 99.1 | 98.9 | 99.2 | 96.0 | n.a. |
| 322 | Glass and glassware, pressed or blown | 100.6 | 102.1 | 104.5 | 107.6 | 110.6 | 112.9 | 109.3 | 109.1 | 107.0 | n.a. |
| 323 | Products of purchased glass | 103.7 | 107.9 | 111.2 | 112.1 | 111.4 | 111.5 | 111.9 | 119.8 | 115.8 | n.a. |
| 324 | Cement, hydraulic | 99.7 | 95.4 | 103.0 | 104.0 | 104.3 | 98.1 | 98.9 | 104.2 | 106.7 | n.a. |
| 325 | Structural clay products | 102.9 | 109.3 | 110.6 | 118.7 | 121.7 | 124.8 | 118.5 | 120.7 | 121.3 | n.a. |
| 326 | Pottery and related products | 103.0 | 106.1 | 112.7 | 117.6 | 112.7 | 113.1 | 112.6 | 117.5 | 116.4 | n.a. |
| 327 | Concrete, gypsum, and plaster products | 101.8 | 103.3 | 107.1 | 114.8 | 117.3 | 117.4 | 119.5 | 121.2 | 123.1 | n.a. |
| 329 | Miscellaneous nonmetallic mineral products | 98.4 | 104.8 | 112.8 | 116.3 | 114.3 | 113.8 | 114.6 | 117.9 | 117.3 | n.a. |
| 331 | Blast furnace and basic steel products | 94.1 | 99.9 | 102.7 | 108.3 | 105.3 | 97.0 | 94.5 | 95.7 | 89.5 | n.a. |
| 332 | Iron and steel foundries | 99.3 | 103.7 | 108.4 | 114.1 | 114.8 | 111.8 | 109.7 | 110.0 | 109.9 | n.a. |
| 333 | Primary nonferrous metals | 94.4 | 103.6 | 113.1 | 113.4 | 125.4 | 117.9 | 126.2 | 121.5 | 132.7 | n.a. |
| 335 | Nonferrous rolling and drawing | 110.5 | 122.5 | 126.8 | 132.6 | 129.3 | 130.3 | 126.9 | 135.5 | 134.1 | n.a. |
| 336 | Nonferrous foundries (castings) | 100.6 | 108.3 | 113.6 | 116.4 | 117.8 | 116.7 | 112.0 | 117.2 | 115.6 | n.a. |
| 339 | Miscellaneous primary metal products | 99.9 | 109.9 | 106.0 | 114.6 | 104.7 | 107.9 | 96.2 | 81.1 | 87.1 | n.a. |
| 341 | Metal cans and shipping containers | 99.9 | 99.6 | 95.1 | 96.0 | 97.8 | 96.6 | 96.0 | 89.5 | 85.9 | n.a. |
| 342 | Cutlery, handtools, and hardware | 105.5 | 105.2 | 113.8 | 120.4 | 122.6 | 122.3 | 114.1 | 117.9 | 115.7 | n.a. |

See footnotes at end of table.

Table 2. Unit labor cost indexes by industry, 1988-97—Continued
[1987 = 100]

| SIC Code | Title | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Manufacturing |  |  |  |  |  |  |  |  |  |  |
| 343 | Plumbing and heating, except electric | 103.3 | 105.9 | 114.5 | 123.6 | 130.7 | 130.1 | 119.2 | 130.3 | 112.6 | n.a. |
| 344 | Fabricated structural metal products | 105.7 | 109.9 | 115.3 | 118.6 | 120.6 | 118.5 | 115.3 | 117.9 | 121.4 | n.a |
| 345 | Screw machine products, bolts, etc. | 102.1 | 109.1 | 115.8 | 118.7 | 120.9 | 118.9 | 114.7 | 114.5 | 118.9 | n.a. |
| 346 | Metal forgings and stampings | 102.1 | 108.2 | 116.2 | 124.6 | 114.5 | 109.3 | 107.0 | 105.8 | 104.0 | n.a |
| 347 | Metal services, n.e.c. | 101.9 | 104.1 | 106.1 | 113.6 | 108.9 | 105.4 | 102.5 | 103.7 | 104.7 | n.a. |
| 348 | Ordnance and accessories, n.e.c. | 102.4 | 104.2 | 119.3 | 126.2 | 124.0 | 134.3 | 110.6 | 110.2 | 114.6 | n.a. |
| 349 | Miscellaneous fabricated metal products | 101.4 | 107.6 | 112.4 | 117.0 | 119.6 | 117.5 | 116.4 | 119.1 | 120.0 | n.a. |
| 351 | Engines and turbines | 97.2 | 95.1 | 102.6 | 105.0 | 112.2 | 98.9 | 97.4 | 96.8 | 90.7 | n.a |
| 352 | Farm and garden machinery | 96.4 | 100.2 | 97.7 | 107.3 | 114.7 | 108.3 | 102.5 | 102.2 | 107.5 | n.a |
| 353 | Construction and related machinery | 94.3 | 98.5 | 100.3 | 109.4 | 113.2 | 106.0 | 100.0 | 96.3 | 98.2 | n.a |
| 354 | Metalworking machinery | 98.3 | 99.3 | 107.0 | 114.9 | 116.8 | 114.3 | 108.5 | 109.6 | 114.7 | n.a. |
| 355 | Special industry machinery | 98.2 | 99.2 | 105.5 | 110.9 | 116.4 | 113.2 | 109.8 | 103.4 | 101.5 | n.a. |
| 356 | General industrial machinery | 100.1 | 105.3 | 109.4 | 113.2 | 120.3 | 118.9 | 115.9 | 115.6 | 117.0 | n.a. |
| 358 | Refrigeration and service machinery | 96.1 | 99.4 | 108.1 | 113.0 | 112.0 | 107.9 | 104.4 | 104.1 | 102.7 | n.a. |
| 359 | Industrial machinery, n.e.c. | 96.2 | 104.4 | 108.7 | 111.4 | 113.2 | 113.0 | 108.3 | 108.6 | 108.3 | n.a. |
| 361 | Electric distribution equipment | 98.7 | 104.3 | 107.9 | 112.7 | 113.5 | 112.0 | 110.6 | 114.9 | 118.4 | n.a. |
| 362 | Electrical industrial apparatus | 98.3 | 99.5 | 106.5 | 111.7 | 111.9 | 105.0 | 105.1 | 101.6 | 103.5 | n.a. |
| 363 | Household appliances | 97.2 | 102.8 | 103.4 | 103.1 | 103.1 | 98.8 | 97.5 | 105.0 | 105.3 | n.a. |
| 364 | Electric lighting and wiring equipment | 102.2 | 106.7 | 112.4 | 119.9 | 115.2 | 117.1 | 113.3 | 116.4 | 115.0 | n. 2 |
| 366 | Communications equipment | 100.9 | 110.4 | 101.5 | 104.1 | 98.3 | 94.1 | 87.2 | 82.3 | 82.5 | n.a. |
| 369 | Miscellaneous electrical equipment \& supplies | 98.2 | 102.1 | 107.6 | 106.6 | 103.2 | 95.7 | 93.4 | 97.2 | 95.4 | n.a |
| 371 | Motor vehicles and equipment | 99.9 | 104.2 | 111.7 | 122.9 | 120.1 | 120.2 | 116.6 | 119.1 | 116.4 | n.a. |
| 372 | Aircraft and parts | 101.9 | 101.5 | 111.5 | 106.1 | 114.7 | 116.8 | 128.6 | 127.9 | 122.3 | n.a. |
| 373 | Ship and boat building and repairing | 100.8 | 102.1 | 107.0 | 119.3 | 123.0 | 121.9 | 120.8 | 122.4 | 120.3 | n.a. |
| 374 | Railroad equipment | 89.3 | 80.3 | 85.1 | 90.0 | 91.6 | 85.6 | 80.2 | 80.0 | 85.5 | n.a. |
| 375 | Motorcycles, bicycles, and parts | 106.1 | 98.2 | 110.1 | 116.1 | 128.6 | 126.0 | 146.1 | 143.8 | 148.6 | n.a |
| 376 | Guided missiles, space vehicles, parts | 102.8 | 102.4 | 103.3 | 113.4 | 115.5 | 108.5 | 107.5 | 108.8 | 106.3 | n.a. |
| 381 | Search and navigation equipment | 105.5 | 113.4 | 111.6 | 113.1 | 112.0 | 109.7 | 113.9 | 117.0 | 117.0 | n.a. |
| 382 | Measuring and controlling devices | 98.8 | 103.6 | 107.1 | 110.0 | 112.0 | 112.7 | 105.5 | 98.0 | 95.6 | n.a. |
| 384 | Medical instruments and supplies | 99.9 | 105.8 | 106.6 | 110.4 | 114.7 | 115.0 | 119.1 | 119.0 | 115.5 | n.a |
| 385 | Ophthalmic goods | 92.0 | 85.0 | 98.0 | 102.8 | 105.4 | 106.0 | 96.7 | 94.2 | 89.5 | n.a. |
| 386 | Photographic equipment \& supplies | 95.9 | 98.5 | 104.1 | 108.0 | 105.6 | 98.4 | 90.9 | 98.3 | 102.3 | n.a. |
| 391 | Jewelry, silverware, and plated ware | 107.7 | 109.0 | 118.4 | 123.5 | 128.0 | 132.1 | 119.5 | 118.4 | 118.7 | n.a. |
| 393 | Musical instruments | 107.1 | 115.3 | 118.4 | 126.5 | 132.3 | 141.1 | 140.5 | 146.3 | 159.3 | n. |
| 394 | Toys and sporting goods | 100.4 | 103.3 | 110.3 | 111.8 | 117.7 | 115.4 | 117.9 | 119.9 | 117.0 | n.a. |
| 395 | Pens, pencils, office, and art supplies | 95.7 | 97.8 | 97.5 | 105.6 | 112.6 | 117.4 | 109.0 | 113.0 | 113.3 | n.a. |
| 396 | Costume jewelry and notions | 103.8 | 102.5 | 97.9 | 109.7 | 111.2 | 110.3 | 106.1 | 105.9 | 113.3 | n.a. |
| 399 | Miscellaneous manufactures | 99.1 | 105.3 | 108.3 | 109.2 | 115.3 | 115.5 | 114.6 | 121.2 | 121.3 | n. |
|  | Transportation |  |  |  |  |  |  |  |  |  |  |
| 4011 | Railroads | 97.3 | 95.0 | 93.2 | 92.4 | 86.7 | 84.8 | 81.6 | 80.1 | 75.9 | n.a. |
| 4213 | Trucking, except local | 108.8 | 112.3 | 115.0 | 112.9 | 112.9 | 111.3 | 111.4 | 116.7 | 114.6 | 119.2 |
| 431 | U.S. postal service | 109.1 | 115.2 | 117.6 | 124.1 | 131.5 | 132.7 | 132.5 | 138.4 | 139.1 | 137.8 |
| $\begin{aligned} & 4512,13,22 \\ & \text { (PTS) } \end{aligned}$ | Air transportation | 105.3 | 113.4 | 110.5 | 114.4 | 114.4 | 113.7 | 111.0 | 110.2 | 109.1 | 109.0 |

[^1]Table 2. Unit labor cost indexes by industry, 1988-97—Continued
[1987 = 100]

| SIC Code | Title | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Communications and utilities |  |  |  |  |  |  |  |  |  |  |
| 481 | Telephone communications | 96.1 | 95.4 | 98.1 | 97.6 | 99.4 | 96.3 | 94.8 | 92.5 | 88.0 | 92.2 |
| 483 | Radio and television broadcasting | 97.1 | 97.0 | 108.9 | 107.1 | 109.3 | 114.5 | 116.6 | 124.0 | 138.6 | 146.4 |
| 484 | Cable and other pay TV services | 101.2 | 101.4 | 113.0 | 125.1 | 134.3 | 142.9 | 152.5 | 162.4 | 170.8 | 176.4 |
| 491,2,3 | Gas and electric utilities | 97.5 | 99.0 | 104.7 | 109.3 | 115.2 | 112.3 | 114.6 | 110.8 | 108.6 | 110.7 |
| 491,3(PT) | Electric utilities | 97.6 | 98.2 | 101.5 | 105.2 | 110.7 | 109.6 | 109.4 | 105.4 | 103.3 | 105.6 |
| 492,3(PT) | Gas utilities | 97.1 | 101.3 | 115.8 | 123.8 | 131.0 | 121.7 | 133.5 | 131.1 | 128.2 | 130.0 |
|  | Retail Trade |  |  |  |  |  |  |  |  |  |  |
| 521 | Lumber and other building materials dealers | 103.5 | 109.1 | 107.3 | 112.0 | 111.9 | 107.9 | 103.7 | 109.3 | 108.6 | 109.7 |
| 523 | Paint, glass, and wallpaper stores | 102.8 | 108.0 | 109.0 | 120.7 | 115.7 | 111.7 | 103.4 | 106.0 | 103.2 | 109.5 |
| 525 | Hardware stores | 97.5 | 96.8 | 103.5 | 114.5 | 113.3 | 114.7 | 110.1 | 116.9 | 117.5 | 123.5 |
| 526 | Retail nurseries, lawn and garden supply stores | 100.7 | 112.5 | 138.6 | 137.8 | 125.8 | 119.7 | 112.6 | 116.2 | 104.3 | 125.0 |
| 531 | Department stores | 100.1 | 103.4 | 110.8 | 111.2 | 111.0 | 106.5 | 102.4 | 101.5 | 98.0 | 96.6 |
| 533 | Variety stores | 104.0 | 100.9 | 81.7 | 85.5 | 85.8 | 76.3 | 75.5 | 68.3 | 61.4 | 57.7 |
| 539 | Miscellaneous general merchandise stores | 144.5 | 138.5 | 134.4 | 137.1 | 133.8 | 116.9 | 111.0 | 110.1 | 111.1 | 113.7 |
| 541 | Grocery stores | 103.5 | 110.9 | 117.0 | 125.3 | 130.9 | 131.6 | 132.9 | 137.6 | 142.5 | 149.9 |
| 542 | Meat and fish (seafood) markets | 105.3 | 117.6 | 120.8 | 135.7 | 131.2 | 126.9 | 131.2 | 136.5 | 141.6 | 139.7 |
| 546 | Retail bakeries | 112.5 | 128.7 | 126.4 | 128.6 | 139.0 | 149.6 | 147.1 | 148.1 | 160.0 | 139.4 |
| 551 | New and used car dealers | 100.6 | 102.5 | 102.1 | 105.2 | 109.5 | 115.5 | 121.8 | 127.0 | 131.1 | 133.2 |
| 553 | Auto and home supply stores | 103.7 | 109.7 | 111.6 | 120.3 | 125.5 | 124.7 | 119.5 | 117.8 | 119.6 | 127.0 |
| 554 | Gasoline service stations | 101.1 | 102.4 | 109.5 | 113.5 | 112.6 | 110.9 | 111.6 | 112.1 | 118.5 | 122.4 |
| 561 | Men's and boy's wear stores | 100.9 | 101.1 | 104.0 | 103.9 | 108.1 | 106.9 | 106.2 | 110.7 | 107.4 | 102.9 |
| 562 | Women's clothing stores | 105.3 | 109.1 | 114.4 | 115.5 | 112.9 | 111.0 | 114.1 | 111.4 | 106.1 | 109.0 |
| 565 | Family clothing stores | 101.8 | 106.2 | 112.3 | 114.0 | 118.6 | 116.0 | 111.2 | 104.5 | 101.2 | 107.2 |
| 566 | Shoe stores | 102.6 | 97.3 | 100.3 | 107.9 | 110.7 | 112.5 | 104.9 | 103.3 | 98.6 | 101.6 |
| 569 | Miscellaneous apparel and accessory stores | 102.9 | 107.1 | 123.9 | 156.2 | 150.7 | 138.3 | 129.8 | 110.2 | 108.7 | 115.3 |
| 571 | Furniture and homefurnishings stores | 105.4 | 105.5 | 108.3 | 111.1 | 110.5 | 111.6 | 112.5 | 111.4 | 106.2 | 109.3 |
| 572 | Household appliance stores | 110.1 | 113.2 | 114.7 | 113.7 | 110.3 | 109.6 | 107.6 | 96.2 | 97.8 | 86.3 |
| 573 | Radio, television, computer, and music stores | 95.4 | 105.3 | 104.9 | 102.8 | 100.8 | 86.5 | 77.4 | 71.8 | 71.0 | 71.3 |
| 581 | Eating and drinking places | 102.6 | 108.4 | 111.9 | 118.9 | 124.4 | 125.5 | 131.3 | 137.6 | 145.5 | 155.4 |
| 591 | Drug and proprietary stores | 105.6 | 110.3 | 115.6 | 122.2 | 132.7 | 132.5 | 137.6 | 139.6 | 139.0 | 137.8 |
| 592 | Liquor stores | 107.6 | 105.7 | 106.9 | 110.8 | 115.4 | 128.7 | 136.3 | 132.9 | 126.1 | 132.8 |
| 593 | Used merchandise stores | 100.4 | 106.3 | 114.7 | 120.6 | 111.4 | 112.0 | 114.3 | 120.6 | 114.4 | 117.1 |
| 594 | Miscellaneous shopping goods stores | 104.5 | 107.8 | 111.8 | 114.6 | 122.7 | 118.9 | 116.7 | 115.4 | 116.0 | 116.4 |
| 596 | Nonstore retailers | 103.8 | 103.8 | 106.8 | 110.4 | 106.4 | 108.2 | 103.6 | 113.9 | 108.2 | 107.2 |
| 598 | Fuel dealers | 109.1 | 118.5 | 137.3 | 138.5 | 145.4 | 136.3 | 130.9 | 116.7 | 120.8 | 133.8 |
| 599 | Retail stores, n.e.c. | 97.0 | 106.2 | 98.7 | 112.6 | 109.9 | 104.4 | 100.6 | 104.9 | 101.3 | 100.6 |
|  | Finance and services |  |  |  |  |  |  |  |  |  |  |
| 602 | Commercial banks | 102.0 | 104.5 | 106.7 | 110.5 | 116.1 | 115.1 | 117.3 | 118.2 | 123.7 | 129.2 |
| 701 | Hotels and motels | 107.6 | 117.2 | 124.9 | 127.3 | 123.6 | 128.5 | 127.9 | 132.5 | 138.9 | 148.1 |
| 721 | Laundry, cleaning, and garment services | 106.7 | 109.1 | 112.2 | 119.0 | 124.5 | 126.2 | 123.4 | 124.9 | 125.8 | 130.3 |
| 722 | Photographic studios, portrait | 102.6 | 111.8 | 115.1 | 116.7 | 118.2 | 114.6 | 105.0 | 98.2 | 103.1 | 102.8 |
| 723 | Beauty shops | 108.7 | 107.4 | 116.4 | 121.0 | 122.3 | 130.0 | 129.2 | 131.3 | 135.6 | 138.3 |

See footnotes at end of table.

Table 2. Unit labor cost indexes by industry, 1988-97—Continued
[1987 = 100]

| SIC Code | Title | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 724 | Barber shops | 99.0 | 102.1 | 118.7 | 119.8 | 109.0 | 107.5 | 108.0 | 114.1 | 98.2 | 86.5 |
| 726 | Funeral services and crematories | 104.2 | 112.2 | 127.7 | 134.6 | 125.9 | 137.0 | 135.6 | 147.7 | 160.1 | 158.0 |
| 753 | Automotive repair shops | 99.6 | 100.0 | 108.4 | 119.9 | 117.7 | 121.4 | 115.5 | 111.7 | 121.7 | 124.7 |
| 783 | Motion picture theaters | 100.8 | 97.9 | 97.1 | 102.4 | 115.7 | 117.6 | 115.5 | 118.2 | 124.6 | 129.4 |

n.a. $=$ not available
n.e.c. $=$ not elsewhere classified


[^0]:    See footnotes at end of table.

[^1]:    See footnotes at end of table.

