

United States Department of Labor



# **Bureau of Labor Statistics**

# Washington, D.C. 20212

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### PRODUCTIVITY AND COSTS

First Quarter 1986

The Bureau of Labor Statistics of the U.S. Department of Labor today reported preliminary productivity data--as measured by output per hour of all persons-for the first guarter of 1986. The seasonally-adjusted annual rates of productivity change in the first guarter were:

2.3 percent in the business sector,
3.4 percent in the nonfarm business sector,
2.4 percent in manufacturing,
2.0 percent in durable goods manufacturing, and

3.0 percent in nondurable goods manufacturing.

First-quarter measures are summarized in table A and appear in detail in tables 1 through 5. Productivity rose in all sectors in the first quarter, and combined with moderate gains in hourly compensation, contributed to declining unit labor costs.

#### Business

Productivity increased at a 2.3 percent annual rate during the first quarter of 1986 in the business sector, as output rose 3.8 percent and hours of all persons engaged in the sector increased 1.4 percent (seasonally adjusted annual rates). During the fourth quarter of 1985, productivity had declined 3.9 percent, as output grew more slowly than hours (table 1). The increase in output during the first three months of 1986 was the largest since the first quarter of 1984 (when output rose at a 13.6 percent annual rate).

Hourly compensation increased at a 1.7 percent annual rate during the first quarter of 1986, the smallest quarterly gain in this series since the third quarter of 1983 (when it rose 1.5 percent). This measure includes wages and salaries, supplements, employer contributions to employee-benefit plans, and taxes. Unit labor costs, which reflect changes in hourly compensation and productivity, declined at a 0.6 percent annual rate during the first quarter, the first decline in this measure since the first quarter of 1984. During the fourth quarter of 1985, these costs rose at a 7.5 percent annual rate.

Real hourly compensation, which takes into account changes in the Consumer Price Index for All Urban Consumers (CPI-U), increased at a 0.2 percent annual rate in the first quarter, compared with a 0.9 percent decline in the fourth quarter of 1985.

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| Sector           | Produc-<br>tivity | Output     | Hou <b>rs</b> | Hourly<br>compen-<br>sation | Real<br>hourly<br>compen-<br>sation                          | Uni<br>lat<br>cos |
|------------------|-------------------|------------|---------------|-----------------------------|--|-------------------|
|                  | Descent of        | PRELIM     |               |                             | <u>e dažen da na se </u> |                   |
|                  | Percent ch        | ange trom  | preceuing     | g quarter                   |  |                   |
| Busine <b>ss</b> | 2.3               | 3.8        | 1.4           | 1.7                         | 0.2  | -0.               |
| Nonfarm business | 3.4               | 4.0        | 0.6           | 2.4                         | 0.9  | -1.               |
| Manufacturing    | 2.4               | 2.4        | 0.0           | 0.9                         | -0,5   | -1.               |
| Durable          | 2.0               | 0.6        | -1.4          | 0.6                         | -0.8   | -1.               |
| Nondurable       | 3.0               | 5.2        | 2.2           | 1.8                         | 0.4  | -1.               |
| P                | ercent chang      | e from sam | ne quarter    | a year ago                  | >  |                   |
| Business         | 0.2               | 2.3        | 2.0           | 3.4                         | 0.3  | 3.                |
| Nontarm business | 0.0               | 2.4        | 2.4           | 3.1                         | 0.0  | 3.                |
| Manufacturing    | 2.6               | 2.3        | -0.3          | 2.8                         | -0.3   | 0,                |
| Durable          | 2.2               | 1.1        | -1.0          | 3.4                         | 0.3  | . 1.              |
| Nondurable       | 3.3               | 4.2        | 0.9           | 2.0                         | -1.1   | -1.               |

The implicit price deflator for the business sector, which reflects changes in unit labor costs and unit nonlabor payments, increased 2.0 percent in the first quarter.

#### Nonfarm business

Productivity increased 3.4 percent in the nonfarm business sector during the first guarter of 1986, as output rose 4.0 percent and hours of all persons increased only 0.6 percent. While the increase in output was the largest since the first guarter of 1984, the gain in nonfarm hours was the smallest since 1982. During the fourth guarter of 1985, productivity declined 4.1 percent in this sector (table 2).

Hourly compensation increased 2.4 percent in the first quarter, but increased only 0.9 percent when the rise in the CPI-U is taken into account. Unit labor costs declined 1.0 percent, compared with a 7.6 percent rise during the fourth quarter of 1985.

The implicit price deflator for the nonfarm business sector rose 2.8 percent in the first guarter, compared with a 1.8 percent increase one guarter earlier.

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#### Manufacturing

Productivity increased at a 2.4 percent seasonally-adjusted annual rate in manufacturing in the first guarter of 1986, as output rose 2.4 percent and hours of all persons remained unchanged. During the fourth guarter of 1985, manufacturing productivity declined 1.1 percent, as output rose 1.9 percent and hours increased 3.1 percent (table 3).

Hourly compensation of manufacturing workers increased 0.9 percent during the first quarter, but declined 0.5 percent when the increase in consumer prices in taken into account. Unit labor costs fell at a 1.4 percent annual rate, compared with a 4.7 percent increase during the fourth quarter of 1985.

Both the durable and nondurable goods subsectors experienced productivity increases in the first quarter (tables 4, 5). While output increased in both subsectors and hours of all persons increased in nondurables, hours were lower in durable goods manufacturing.

Table B. Nonfinancial corporations: Preliminary fourth quarter and revised annual productivity and cost measures Quarterly change at seasonally adjusted annual rates Percent

| Period               | Produc-<br>tivity | Output | Hours | Hourly<br>compen-<br>sation | Real<br>hourly<br>compen-<br>sation | Unit<br>labor<br>costs | Unit<br>profits | Implicit<br>price<br>deflator |
|----------------------|-------------------|--------|-------|-----------------------------|-------------------------------------|------------------------|-----------------|-------------------------------|
| 1985 III-<br>1985 IV | -2.4              | 0.9    | 3.3   | 3.0                         | -1.2                                | 5.5                    | -17.5           | 1.8                           |
| 1984 IV-<br>1985 IV  | 0.1               | 2,5    | 2.4   | 3.2                         | -0,3                                | 3.1                    | 5.3             | 2,6                           |
| 1985 Annual          | -0.2              | 2,8    | 3.0   | 3.1                         | -0.4                                | 3.3                    | 5.3             | 3.1                           |

#### Fourth quarter measures for nonfinancial corporations

Fourth-quarter 1985 measures of productivity and costs were also announced today for the nonfinancial corporate sector, together with revised annual move-ment (tables B and C). Output per all-employee hour declined 2.4 percent from the third to the fourth quarter of 1985, as output increased 0.9 percent and all-employee hours increased 3.3 percent. This was the second quarter of 1985 during which productivity declined in this sector (table 6). Hourly compensa-tion increased 3.0 percent, but declined 1.2 percent when the rise in the CPI-U is taken into account. Unit labor costs rose 5.5 percent, unit nonlabor costs increased 1.5 percent, but unit profits dropped 17.5 percent (table 6). The implicit deflator for nonfinancial corporate output increased 1.8 percent in the fourth quarter.

| Period      | Produc-<br>tivity | Output | Hours | Hourly<br>compen-<br>sation | Real<br>hourly<br>compen-<br>sation | Unit<br>labor<br>costs | Unit<br>profi <b>ts</b> | Implicit<br>price<br>deflator |
|-------------|-------------------|--------|-------|-----------------------------|-------------------------------------|------------------------|-------------------------|-------------------------------|
| Preliminary | -0.1              | 2.8    | 3.0   | 3.1                         | -0.4                                | 3.3                    | 5.9                     | 3.1                           |
| Revised     | -0.2              | 2.8    | 3.0   | 3.1                         | -0.4                                | 3.3                    | 5.3                     | 3.1                           |

Table C. Nonfinancial corporations: Preliminary and revised 1985 annual change in productivity and related measures Percent

#### Next release date

The next release of productivity and cost measures is scheduled for 10:00 AM EDT Thursday, May 29, 1986. Released at that time will be preliminary first-quarter measures for the nonfinancial corporate sector, and revised first quarter measures for business, nonfarm business, and manufacturing.

## TECHNICAL NOTES

Business sector output is equal to gross national product, less the rest-of-the-world sector, general government, output of paid employees of private households and nonprofit institutions, rental value of owner-occupied dwellings, and the statistical discrepancy in computing the national income accounts. Corresponding exclusions are also made in labor inputs. Business output has accounted for about 77 percent of gross national product in recent years.

Total manufacturing measures are computed by summing series prepared for the durable and nondurable goods sectors.

The durable sector includes the following 2-digit SIC industries: Primary metals; fabricated metal products; nonelectrical machinery; electrical machinery; transportation equipment; instruments; lumber and lumber products; furniture and fixtures; stone, clay, and glass products; and miscellaneous manufactures. The nondurable sector includes these 2-digit SIC industries: Textile mill products, apparel products, leather and leather products, printing and publishing, chemical and chemical products, petroleum products, rubber and plastic products, foods, and tobacco products.

Manufacturing output has accounted for about 24 percent of gross national product in recent years.

Nonfinancial corporate output is equal to gross national product, less the rest-of-the-world sector, general government, unincorporated business, output of paid employees of private households and nonprofit institutions, rental value of owner-occupied dwellings, the output of corporations engaged in banking, finance, stock and commodity trading, and credit and insurance agencies, and the statistical discrepancy in computing the national income accounts. Nonfinancial corporate output has accounted for about 59 percent of gross national product in recent years.

The productivity and associated cost measures in this news release describe the relationship between output in real terms and the labor time involved in its production. They show the changes from period to period in the amount of goods and services produced per hour. Although these measures relate output to hours of all persons engaged in a sector, they do not measure the specific contributions of labor, capital, or any other factor of production. Rather, they reflect the joint effects of many influences, including changes in technology; capital investment; level of output; utilization of capacity, energy, and materials; the organization of production; managerial skill; and the characteristics and effort of the work force.

|      | Year and<br>quarter | Output per<br>hour<br>of all persons   | Output      | Hours<br>of all<br>persons | Compensa-<br>tion per<br>hour(1) | Real<br>compensa-<br>tion per<br>hour(2) | Unit<br>labor<br>cost | Unit non-<br>labor pay-<br>ments(3) | Implicit<br>price<br>deflator(4        |
|------|---------------------|--|-------------|----------------------------|----------------------------------|--|-----------------------|-------------------------------------|--|
|      | <u></u>             |  |             | Inc                        | lexes 1977=100                   |  | <u> </u>              |                                     |  |
| 1985 | I                   | 105.3                                  | 121.2       | 115.1                      | 172.4                            | 98.5                                     | 163.8                 | 157.6                               | 161.6                                  |
|      | II                  | 105.5                                  | 121.9       | 115.6                      | 174.3                            | 98.5 <sup>-</sup>                        | 165.2                 | 158.2                               | 162.7                                  |
|      | III                 | 105.9                                  | 122.6       | 115.8                      | 176.1                            | 98.9                                     | 166.3                 | 158.6                               | 163.5                                  |
|      | IV                  | 104.9r                                 | 122.8r      | 117.1r                     | 177.6                            | 98.7                                     | 169.3r                | 156.2r                              | 164.6r                                 |
|      | ANNUAL              | 105.3r                                 | 122.1r      | 115.9                      | 175.0r                           | 98.6                                     | 166.2r                | 157.7                               | 163.1                                  |
| 1986 | . <b>I</b>          | 105.5p                                 | 123.9p      | 117.5p                     | 178.3p                           | 98.8p                                    | 169.lp                | 159.0p                              | 165.4p                                 |
|      |                     | ······································ | Percent cl  | hange from pr              | revious quarter                  | at annual rate                           | (5)                   |                                     |  |
| 1985 | I                   | 1.0                                    | 3.6         | 2.5                        | 4.8                              | 1.5                                      | 3.7                   | -0.9                                | 2.1                                    |
|      | II                  | 0.8                                    | 2.3         | 1.5                        | 4.4                              | 0.4                                      | 3.5                   | 1.4                                 | 2.8                                    |
|      | III                 | 1.6                                    | 2.5         | 0.9                        | 4.2                              | 1.6                                      | 2.5                   | 1.1                                 | 2.0                                    |
|      | IV                  | -3.9r                                  | 0.4r        | 4.5r                       | 3.4                              | -0.9r                                    | 7.5r                  | -5.8r                               | 2.7r                                   |
|      | ANNUAL              | 0.1r                                   | 2.6r        | 2.5r                       | 4.0r                             | 0.4r                                     | 3.9r                  | 0.7r                                | 2.8                                    |
| 1986 | I                   | 2.3p                                   | 3.8p        | 1.4p                       | 1.7p                             | 0.2p                                     | -0.6p                 | 7.2p                                | 2.0p                                   |
|      |                     | ]                                      | Percent cha | nge from corn              | responding quar                  | ter of previous                          | year                  |                                     | ······································ |
| 1985 | I                   | 0.3                                    | 3.5         | 3.1                        | 3.8                              | 0.2                                      | 3.4                   | 2.7                                 | 3.2                                    |
|      | II                  | -0.1                                   | 2.2         | 2.3                        | 4.1                              | 0.4                                      | 4.1                   | 0.9                                 | 3.0                                    |
|      | III                 | 0.5                                    | 2.5         | 2.0                        | 4.1                              | 0.7                                      | 3.6                   | 0.8                                 | 2.6                                    |
|      | IV                  | -0.1r                                  | 2.2r        | 2.3                        | 4.2                              | 0.7                                      | 4.3r                  | -1.1r                               | 2.4r                                   |
|      | ANNUAL              | 0.lr                                   | 2.6r        | 2.5r                       | 4.0r                             | 0.4r                                     | 3.9r                  | 0.7r                                | 2.8                                    |
| 1986 | I                   | 0.2p                                   | 2.3p        | 2.0p                       | 3.4p                             | 0.3p                                     | 3.2p                  | 0.9p                                | 2.4p                                   |

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Table 1. Business sector: Productivity, hourly compensation, unit labor cost, and prices, seasonally adjusted

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See footnotes following table 6. r=revised p=preliminary

April 28, 1986 Source: Bureau of Labor Statistics

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|      | Year and<br>quarter | Output per<br>hour<br>of all persons | Output       | Hours<br>of all<br>persons | Compensa-<br>tion per<br>hour(1) | Real<br>compensa-<br>tion per<br>hour(2) | Unit<br>labor<br>cost | Unit non-<br>labor pay-<br>ments(3) | Implicit<br>price<br>deflator(4 |
|------|---------------------|--------------------------------------|--------------|----------------------------|----------------------------------|--|-----------------------|-------------------------------------|---------------------------------|
|      |                     |                                      |              | Ind                        | lexes 1977=100                   |  |                       |                                     |                                 |
| 1985 | I                   | 104.1                                | 121.1        | 116.3                      | 172.1                            | 98.3                                     | 165.3                 | 158.8                               | 163.0                           |
|      | II                  | 104.2                                | 121.8        | 116.9                      | 173.7                            | 98.2                                     | 166.8                 | 160.2                               | 164.5                           |
|      | III                 | 104.3                                | 122.6        | 117.5                      | 175.0                            | 98.3                                     | 167.8                 | 161.4                               | 165.5                           |
|      | IV                  | 103.2r                               | 122.7r       | 118.9                      | 176.4                            | .98.0r                                   | 170.9r                | 157.7r                              | 166.3r                          |
|      | ANNUAL              | 103.9r                               | 122.0r       | 117.5r                     | 174.2r                           | 98.lr                                    | 167.7r                | 159.5r                              | 164.8                           |
| 1986 | I                   | 104.1p                               | 123.9p       | 119.lp                     | 177.4p                           | 98.3p                                    | 170.5p                | 161.8p                              | 167.4p                          |
|      |                     |                                      | Percent cl   | nange from pr              | evious quarter                   | at annual rate(                          | 5)                    |                                     |                                 |
| 1985 | I                   | 1.0                                  | 3.6          | 2.6                        | 4.7                              | 1.4                                      | 3.6                   | 1.0                                 | 2.7                             |
|      | II                  | 0.2                                  | 2.3          | 2.1                        | 3.8                              | -0.2                                     | 3.6                   | 3.7                                 | 3.7                             |
|      | III                 | 0.4                                  | 2.6          | 2.1                        | 2.8                              | 0.3                                      | 2.4                   | 2.9                                 | 2.6                             |
|      | IV                  | -4.1r                                | 0 <b>.6r</b> | 4.8r                       | 3.2r                             | -1.0                                     | 7.6r                  | -8.7r                               | 1.8r                            |
|      | ANNUAL              | -0.3r                                | 2.6r         | 2.9r                       | 3.7                              | 0.1                                      | 3.9                   | 2.1                                 | 3.3                             |
| 986  | I                   | 3.4p                                 | 4.0p         | 0 <b>.</b> 6p              | 2.4p                             | 0.9p                                     | -1.0p                 | 10.6p                               | 2.8p                            |
|      |                     | 3                                    | Percent cha  | nge from corr              | esponding quar                   | ter of previous                          | year                  |                                     |                                 |
| 1985 | I                   | 0.1                                  | 3.4          | 3.3                        | 3.7                              | 0.1                                      | 3.6                   | 4.1                                 | 3.8                             |
|      | II                  | -0.4                                 | 2.2          | 2.6                        | 3.8                              | 0.1                                      | 4.2                   | 2.5                                 | 3.6                             |
|      | III                 | 0.1                                  | 2.6          | 2.5                        | 3.6                              | 0.3                                      | 3.6                   | 2.4                                 | 3.2                             |
|      | IV                  | -0.6r                                | 2 <b>.2r</b> | 2.9                        | 3.7                              | 0.1                                      | 4.3r                  | -0.4r                               | 2.7r                            |
|      | ANNUAL              | -0.3r                                | 2.6r         | 2.9r                       | 3.7                              | 0.1                                      | 3.9                   | 2.1                                 | 3.3                             |
| 986  | I                   | 0.0p                                 | 2.4p         | 2.4p                       | 3.lp                             | 0.0p                                     | 3.1p                  | 1.9p                                | 2.7p                            |

Table 2. Nonfarm business sector: Productivity, hourly compensation, unit labor cost, and prices, seasonally adjusted

See footnotes following table 6. r=revised p=preliminary

April 28, 1986 Source: Bureau of Labor Statistics

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|              | Year and<br>quarter | Output per<br>hour<br>of all persons  | Output<br>(6) | ' Hours<br>of all<br>persons | Compensa-<br>tion per<br>hour(1) | Real<br>compensa-<br>tion per<br>hour(2) | Unit<br>labor<br>cost |
|--------------|---------------------|---------------------------------------|---------------|------------------------------|----------------------------------|--|-----------------------|
|              |                     | ـــــــــــــــــــــــــــــــــــــ | Index         | (es 1977=100                 | )                                |  |                       |
| 1985         | I.                  | 119.9                                 | 119.8         | 99.9                         | 174.3                            | 99.5                                     | 145.4                 |
|              | II                  | 121.7                                 | 120.4         | 98.9                         | 176.1                            | 99.5                                     | 144.7                 |
|              | III                 | 122.7                                 | 121.3         | 98.9                         | 177.3                            | .99.6                                    | 144.5                 |
|              | IV                  | 122.3r                                | 121.9         | 99.6                         | 178.8                            | 99.4                                     | 146.2r                |
|              | ANNUAL              | 121.6r                                | 120.9         | 99.3                         | 176.6                            | 99.5                                     | 145.2r                |
| 1986         | I                   | 123.0p                                | 122.6p        | 99.7p                        | 179.2p                           | 99.3p                                    | 145.6p                |
|              |                     | Percent cha                           | nge from prev | vious quarte                 | er at annual rat                 | te(5)                                    |                       |
| 1985         | I                   | 1.3                                   | 0.9           | -0.5                         | 6.1                              | 2.8                                      | 4.7                   |
|              | II                  | 6.1                                   | 2.0           | -3.9                         | 4.0                              | 0.0                                      | -2.0                  |
|              | III                 | 3.2                                   | 3.1           | -0.1                         | 2.7                              | 0.2                                      | -0.5                  |
|              | IV                  | -1.1r                                 | 1.9r          | 3.1r                         | 3.5r                             | -0.8r                                    | 4.7r                  |
|              | ANNUAL              | 2.7                                   | 2.5           | -0.2                         | 4.4                              | 0.8                                      | 1.7                   |
| 1986         | I                   | 2.4p                                  | 2.4p          | 0.0p                         | 0.9p                             | -0.5p                                    | -1.4p                 |
|              |                     | Percent change                        | e from corres | sponding qua                 | arter of previou                 | ıs year                                  |                       |
| 1985         | · <b>I</b>          | 2.7                                   | 4.0           | 1.2                          | 4.6                              | 1.0                                      | 1.8                   |
|              | . II                | 3.3                                   | 2.5           | -0.8                         | 4.7                              | 1.0                                      | 1.4                   |
| <b>*</b> . * | III .               | 2.4                                   | 1.6           | -0.8                         | 4.3                              | 0.9                                      | 1.9                   |
| •            | . IV                | 2.4                                   | 2.0           | -0.4                         | <b>. . 4 . 1</b>                 | 0.5                                      | 1.7                   |
| _ ·          | ANNUAL              | 2.7                                   | 2.5           | -0.2                         | 4.4                              | 0.8                                      | 1.7                   |
| 1986         | Ĩ                   | 2.6p                                  | 2.3p          | -0.3p                        | 2.8p                             | -0.3p                                    | 0.2p                  |

# Table 3. Manufacturing sector: Productivity, hourly compensation, and unit labor cost, seasonally adjusted

See footnotes following table 6.

r=revised

p=preliminary

April 28, 1986 Source: Bureau of Labor Statistics

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|        | hour<br>of all persons   | Output<br>(6)  | Hours<br>of all<br>persons  | Compensa-<br>tion per<br>hour(1)   | compensa-<br>tion per<br>hour(2)   | Unit<br>labor<br>cost  |
|--------|--|--|---|--|--|--|
|        |  | Ind  | exes 1977=100   | )  | · · · · · · · · · · · · · · · · · · ·  |  |
| I      | 121.3  | 122.6  | 101.1   | 172.6  | 98.6   | 142.4  |
| II     | 122.8  | 122.8  | 100.0   | 174.3  | 98.5   | 141.9  |
| III    | 123.8  | 123.4  | 99.7  | 1759   | - 98 . 8   | 142.1  |
| IV     | 123.3r   | 123.8  | 100.4   | 178.1  | 99.0   | 144.5r   |
| ANNUAL | 122.8  | 123.1  | 100.3   | 175.2r   | 98.7r  | 142.7r   |
| I      | 123.9p   | 124.0p   | 100.lp  | 178.4p   | 98.8p  | 144.0p   |
|        | Percent char   | nge from pro   | evious quarte   | er at annual ra  | te(5)  |  |
| I      | 2.4  | 1.2  | -1.2  | 6.7  | 3.4  | 4.2  |
| II     | 5.3  | 0.7  | -4.3  | 3.9  | -0.1   | -1.3   |
| III    | 3.0  | 1.9  | -1.1  | 3.7  | 1.2  | 0.7  |
| IV     | -1.4r  | 1.4r   | 2.8   | 5.2r   | 0.9r   | 6.7r   |
| ANNUAL | 2.9  | 2.9  | 0.0   | 4.6r   | 1.0r   | 1.6r   |
| I      | 2.0p   | 0.6p   | -1.4p   | 0.6p   | -0.8p  | -1.3p  |
|        | Percent change   | e from corr  | esponding qua   | rter of previou  | ıs year  |  |
| I      | 3.6  | 6.0  | 2.3   | 4.3  | 0.7  | 0.7  |
| II     | 3.6  | 3.4  | -0.2  | 4.5  | 0.8  | 0.9  |
| III    | 2.2  | 1.2  | -1.0  | 4.6  | 1.2  | 2.3  |
| IV     | 2.3  | 1.3  | -1.0  | 4.9  | 1.3  | 2.5  |
| ANNUAL | 2,9  | 2.9  | 0.0   | 4.6r   | 1.0r   | 1.6r   |
| I      | 2.2p   | 1.lp   | -1.0p   | 3.4p   | 0.3p   | 1.lp   |
| 2      | II<br>III<br>IV<br>ANNUAL<br>I<br>III<br>III<br>IV<br>ANNUAL<br>I<br>IV<br>ANNUAL<br>I | II   122.8     III   123.3r     ANNUAL   122.8     I   123.9p     Percent char     I   2.4     II   5.3     III   3.0     IV   -1.4r     ANNUAL   2.9     I   2.0p     Percent change   I     I   3.6     III   3.6     III   3.6     III   2.3     ANNUAL   2.9 | II   122.8   122.8     III   123.8   123.4     IV   123.3r   123.8     ANNUAL   122.8   123.1     I   123.9p   124.0p     Percent change from pro     I   2.4   1.2     II   2.4   1.2     II   2.4   1.2     II   5.3   0.7     III   3.0   1.9     IV   -1.4r   1.4r     ANNUAL   2.9   2.9     I   2.0p   0.6p     Percent change from corror   1     I   3.6   6.0     II   3.6   3.4     III   2.2   1.2     IV   2.3   1.3     ANNUAL   2.9   2.9     I   2.2p   1.1p | II   122.8   122.8   100.0     III   123.8   123.4   99.7     IV   123.3r   123.8   100.4     ANNUAL   122.8   123.1   100.3     I   123.9p   124.0p   100.1p     Percent change from previous quarter     I   2.4   1.2   -1.2     II   5.3   0.7   -4.3     III   3.0   1.9   -1.1     IV   -1.4r   1.4r   2.8     ANNUAL   2.9   2.9   0.0     I   2.0p   0.6p   -1.4p     Percent change from corresponding quarter     I   3.6   3.4   -0.2     III   3.6   3.4   -0.2     IV   2.3   1.3   -1.0     IV   2.3   1.3   -1.0     IV   2.9   2.9   0.0     I   2.2p   1.1p   -1.0p | II122.8122.8100.0174.3III123.8123.499.7175.9IV123.3r123.8100.4178.1ANNUAL122.8123.1100.3175.2rI123.9p124.0p100.1p178.4pPercent change from previous quarter at annual rateI2.41.2-1.26.75.30.7-4.33.01.9-1.13.7IV-1.4r1.4r2.8S.2r5.2rANNUAL2.92.90.04.6r13.66.02.34.33.63.4-0.24.5III3.63.4-0.24.5IV2.31.3-1.04.9ANNUAL2.92.90.04.6rIV2.31.3-1.04.9ANNUAL2.92.90.04.6r | II122.8122.8100.0174.398.5III123.8123.499.7175.998.8IV123.3r123.8100.4178.199.0ANNUAL122.8123.1100.3175.2r98.7rI123.9p124.0p100.1p178.4p98.8pPercent change from previous quarter at annual rate(5)I2.41.2 $-1.2$ 6.73.4II5.30.7 $-4.3$ 3.9 $-0.1$ III3.01.9 $-1.1$ 3.71.2IV $-1.4r$ $1.4r$ 2.8 $5.2r$ $0.9r$ ANNUAL2.92.9 $0.0$ $4.6r$ $1.0r$ I $2.0p$ $0.6p$ $-1.4p$ $0.6p$ $-0.8p$ Percent change from corresponding quarter of previous yearI $3.6$ $6.0$ $2.3$ $4.3$ $0.7$ II $3.6$ $3.4$ $-0.2$ $4.5$ $0.8$ IIII $2.2$ $1.2$ $-1.0$ $4.6$ $1.2$ IV $2.3$ $1.3$ $-1.0$ $4.9$ $1.3$ ANNUAL $2.9$ $2.9$ $0.0$ $4.6r$ $1.0r$ I $2.2p$ $1.1p$ $-1.0p$ $3.4p$ $0.3p$ |

|          |                       |         |               |        |               | ~   |      |       |       |
|----------|-----------------------|---------|---------------|--------|---------------|-----|------|-------|-------|
| Table 4. | Durable manufacturing | sector: | Productivity, | hourly | compensation, | and | unit | labor | cost, |
|          | seasonally adjusted   |         |               |        |               |     |      |       |       |

r=revised p=preliminary April 28, 1986 Source: Bureau of Labor Statistics

|      | Year and<br>quarter | Output per<br>hour<br>of all persons | Output<br>(6) - | Hours<br>of all<br>persons | Compensa-<br>tion per<br>hour(1) | Real<br>compensa-<br>tion per<br>hour(2) | Unit<br>labor<br>cost |
|------|---------------------|--------------------------------------|-----------------|----------------------------|----------------------------------|--|-----------------------|
|      |                     |                                      | Ind             | exes 1977=100              | )                                |  |                       |
| 1985 | I                   | 117.8                                | 115.7           | 98.2                       | 176.9                            | 101.0                                    | 150.1                 |
|      | II                  | 120.0                                | 116.8           | 97.4                       | 178.8                            | 101.1                                    | 149.0                 |
|      | III                 | 121.0                                | 118.2           | 97.7                       | 179.3                            | 100.7                                    | 148.2                 |
|      | IV                  | 120.8                                | 119.1           | 98.5                       | 179.5r                           | 99.8                                     | 148.6                 |
|      | ANNUAL              | 119.9                                | 117.4           | 98.0                       | 178.6r                           | 100.6r                                   | 149.0r                |
| 1986 | I                   | 121.7p                               | 120.6p          | 99.lp                      | 180.4p                           | 99.9p                                    | 148.2p                |
|      |                     | Percent cha                          | nge from pr     | evious quarte              | r at annual ra                   | te(5)                                    |                       |
| 1985 | I                   | -0.2                                 | 0.4             | 0.6                        | 5.3                              | 2.0                                      | 5.4                   |
|      | II                  | 7.4                                  | 3.9             | -3.3                       | 4.4                              | 0.3                                      | -2.9                  |
|      | III                 | 3.5                                  | 5.0             | 1.4                        | 1.2                              | -1.3                                     | -2.2                  |
|      | IV                  | -0.6                                 | 2.8             | 3.4                        | 0.5r                             | -3.6                                     | 1.2                   |
|      | ANNUAL              | 2.3r                                 | 1.8             | -0.5                       | 4.1r                             | 0.5r                                     | 1.7r                  |
| 1986 | I                   | 3.0p                                 | 5.2p            | 2.2p                       | 1.8p                             | 0.4p                                     | -1.lp                 |
|      |                     | Percent change                       | e from corre    | esponding qua              | rter of previou                  | us year                                  | ·                     |
| 1985 | I                   | 1.3                                  | 0.9             | -0.4                       | 4.8                              | 1.2                                      | 3.5                   |
|      | II                  | 2.9                                  | 1.2             | -1.6                       | 4.9                              | 1.2                                      | 2.0                   |
|      | III                 | 2.8                                  | 2.2             | -0.6                       | 3.9                              | 0.5                                      | 1.1                   |
|      | IV                  | 2.5                                  | 3.0             | 0.5                        | 2.8                              | -0.7                                     | 0.3                   |
|      | ANNUAL              | 2.3r                                 | 1.8             | -0.5                       | 4.1r                             | 0.5r                                     | 1.7r                  |
| 1986 | Ī                   | 3.3p                                 | 4.2p            | 0.9p                       | 2.0p                             | -1.1p                                    | -1.3p                 |

Table 5. Nondurable manufacturing sector: Productivity, hourly compensation, and unit labor cost, seasonally adjusted

notes rollowing table v.

r=revised

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April 28, 1986 Source: Bureau of Labor Statistics

|      | Year<br>and<br>quarter | Output<br>per all-<br>employee<br>hour | Output  | Employee<br>hours | Hourly<br>compensa-<br>tion<br>(1) | Real<br>hourly<br>compen-<br>sation(2) | Unit<br>labor<br>cost | Unit<br>non-<br>labor<br>cost(7) | Total<br>unit<br>cost<br>(8) | Unit<br>pro-<br>fits<br>(9) | Implicit<br>price<br>deflator<br>(4) |
|------|------------------------|--|---------|-------------------|------------------------------------|--|-----------------------|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
|      |                        | <u> </u>                               |         |                   | Index                              | es 1977=100                            | )                     |                                  | <del>,</del>                 |                             | * <u></u> ,                          |
| 1984 | I                      | 106.2                                  | 118.9   | 112.0             | 164.2                              | 97.1                                   | 154.7                 | 172.3                            | 159.1                        | 132.9                       | 156.0                                |
|      | II                     | 106.7                                  | 121.1   | 113.5             | 165.6                              | 97.1                                   | 155.1                 | 174.0                            | 159.9                        | 139.1                       | 157.4                                |
|      | III                    | 106.1                                  | 121.4   | 114.5             | 166.8                              | 96.9                                   | 157.2                 | 177.0                            | 162.2                        | 134.3                       | 158.9                                |
|      | IV                     | 105.8                                  | 122.2   | 115.5             | 167.9                              | 96.7                                   | 158.7                 | 177.9                            | 163.6                        | 135.9                       | 160.3                                |
|      | ANNUAL                 | 106.2                                  | 120.9   | 113.9             | 166.1                              | 96.9                                   | 156.4                 | 175.3                            | 161.2                        | 135.6                       | 158,1                                |
| 1985 | I                      | 105.8                                  | 123.2   | 116.4             | 169.4                              | 96.7                                   | 160.0                 | 177.6                            | 164.4                        | 138.3                       | 161.3                                |
|      | II                     | 105.8                                  | 123.7   | 117.0             | 170.8                              | 96.6                                   | 161.5                 | 178.6                            | 165.8                        | 139.1                       | 162.6                                |
|      | III                    | 106.5                                  | 124.9   | 117.3             | 172.0                              | 96.6                                   | 161.5                 | 177.2                            | 165.5                        | 150.2                       | 163.6                                |
|      | ĪV                     | 105.9p                                 | 125.2p  | 118.2p            |                                    | 96.3p                                  | 163.7p                | 177.8p                           | 167.2p                       | 143.lp                      |                                      |
|      | ANNUAL                 | 105.9r                                 | 124.3   | 117.3r            | 171.3                              | 96.5                                   | 161.7r                | 177.8r                           | 165.7r                       | 142.7r                      | 163.0                                |
|      |                        |  | Percer  | nt change         | from prev                          | ious quarte                            | r at annu             | al rate(5                        | )                            |                             |                                      |
| 1984 | I                      | 4.7                                    | 13.9    | 8.8               | 4.4                                | -0.7                                   | -0.3                  | -3.2                             | -1.1                         | 32.0                        | 1.8                                  |
|      | II                     | 2.1                                    | 7.8     | 5.6               | 3.4                                | -0.2                                   | 1.2                   | 4.0                              | 2.0                          | 19.7                        | 3.7                                  |
|      | III                    | -2.3                                   | 1.0     | 3.4               | 3.0                                | -0.8                                   | 5.5                   | 7.1                              | 5.9                          | -13.0                       | 3.8                                  |
|      | IV                     | -1.1                                   | 2.5     | 3.6               | 2.8                                | -0.8                                   | 3.9                   | 2.0                              | 3.4                          | 4.9                         | 3.5                                  |
|      | ANNUAL                 | 2.1                                    | 9.2     | 7.0               | 3.4                                | -0.8                                   | 1.2                   | -0.5                             | 0.8                          | 26.1                        | 2.9                                  |
| 1985 | I                      | 0.1                                    | 3.2     | 3.0               | 3.4                                | 0.2                                    | 3.2                   | -0.8                             | 2.1                          | 7.2                         | 2.6                                  |
|      | II                     | -0.2                                   | 1.9     | 2.2               | 3.5                                | -0.5                                   | 3.8                   | 2.4                              | 3.4                          | 2.2                         | 3.3                                  |
|      | III                    | 2.8                                    | 3.8     | 1.0               | 2.8                                | 0.2                                    | 0.0                   | -3.2                             | -0.9                         | 36.0                        | 2.5                                  |
|      | ĪV                     | -2.4p                                  | 0.9p    | 3.3p              | 3.0p                               | -1.2p                                  | 5.5p                  | 1.5p                             | 4.4p                         | -17.5p                      |                                      |
|      | ANNUAL                 | -0.2r                                  | 2.8     | 3.0               | 3.1                                | -0,4                                   | 3.3                   | 1.4r                             | 2.8r                         | 5.3r                        | 3.1                                  |
|      |                        |  | Percent | change fi         | rom corres                         | ponding qua                            | rter of p             | previous y                       | ear                          |                             |                                      |
| 1984 | I                      | 3.5                                    | 11.8    | 8.0               | 3.1                                | -1.3                                   | -0.4                  | -3.0                             | -1.1                         | 52.8                        | 2.6                                  |
|      | II                     | 2.9                                    | 10.9    | 7.8               | 3.4                                | -0.9                                   | 0.5                   | -1.6                             | -0.1                         | 34.9                        | 2.7                                  |
|      | III                    | 1.5                                    | 8.3     | 6.7               | 3.7                                | -0.5                                   | 2.2                   | 0.2                              | 1.7                          | 17.4                        | 3.1                                  |
|      | IV                     | 0.8                                    | 6.2     | 5.3               | 3.4                                | -0.6                                   | 2.6                   | 2.4                              | 2.5                          | 9.6                         | 3.2                                  |
|      | ANNUAL                 | 2.1                                    | 9.2     | 7.0               | 3.4                                | -0.8                                   | 1.2                   | -0.5                             | 0.8                          | 26.1                        | 2.9                                  |
| 1985 | I                      | -0.3                                   | 3.6     | 3.9               | 3.1                                | -0.4                                   | 3.5                   | 3.0                              | 3.3                          | 4.0                         | 3.4                                  |
|      | II                     | -0.9                                   | 2.2     | 3.1               | 3.2                                | -0.5                                   | 4.1                   | 2.7                              | 3.7                          | 0.0                         | 3.3                                  |
|      | III                    | 0.4                                    | 2.9     | 2.5               | 3.1                                | -0.2                                   | 2.7                   | 0.1                              | 2.0                          | 11.8                        | 3.0                                  |
|      | IV                     | 0.1p                                   | 2.5p    | 2.4p              | 3.2p                               | -0.3p                                  | 3.1p                  | 0.0p                             | 2.2p                         | 5.3p                        |                                      |
|      | ANNUAL                 | -0.2r                                  | 2.8     | 3.0               | 3.1                                | -0.4                                   | 3.3                   | 1.4r                             | 2.8r                         | 5.3r                        | 3.1                                  |

Table 6. Nonfinancial corporations: Productivity, hourly compensation, unit labor cost, unit profits, and prices, seasonally adjusted

See footnotes following table 6. r=revised p=preliminary

April 28, 1986 Source: Bureau of Labor Statistics SOURCES: Output data from Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Compensation and hours data from the Bureau of Labor Statistics, U.S. Department of Labor, and the Bureau of Economic Analysis.

RELIABILITY: Productivity and cost measures are regularly revised as more complete information becomes available. Preliminary results are published 30 days after the close of the reference period; revisions appear 30 days later, and second revisions after an additional 60 days. In the business sector, the probability is 0.95 that the third publication (second revision) of a quarterly index of output per hour of all persons will differ from the preliminary value by between -1.7 and +1.9 index points. This interval is based on the performance of this measure between the first guarter of 1976 and the second quarter of 1985.

## Footnotes, Tables 1-6

- (1) Wages and salaries of the employees plus employers' contributions for social insurance and private benefit plans. Except for nonfinancial corporations, where there are no self-employed, data also include an estimate of wages, salaries, and supplemental payments for the self-employed.
- (2) Compensation per hour adjusted for changes in the Consumer Price Index for All Urban Consumers.
- (3) Unit nonlabor payments include profits, capital consumption allowances interest, rental payments, and indirect taxes.
- (4) Current dollar gross product divided by constant dollar gross product.
- (5) Quarterly changes: percent change compounded at annual rate from the original data rather than index numbers. Annual changes: percent change between annual average levels.
- (6) Quarterly manufacturing output measures are based on the index of industrial production prepared monthly by the Board of Governors of the Federal Reserve adjusted by BLS to annual manufacturing output levels (gross product originating) from the National Income and Product Accounts prepared by the Bureau of Economic Analysis of the U.S. Department of Commerce.
- (7) Unit nonlabor cost includes capital consumption allowances, interest, rental payments, and indirect taxes.
- (8) Total unit cost is the sum of labor and nonlabor costs.
- (9) Unit profits include corporate profits with inventory valuation and capital consumption adjustments.