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HEARINGS

BEFORE THE

JOINT ECONOMIC COMMITTEE CONGRESS OF THE UNITED STATES

ONE HUNDRED FIRST CONGRESS

FIRST SESSION

PART 35

APRIL 7, MAY 5, AND JUNE 2, 1989

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EMPLOYMENT-UNEMPLOYMENT

FRIDAY, APRIL 7, 1989

Congress of the United States, Joint Economic Committee, Washington, DC.

The committee met, pursuant to notice, at 9:35 a.m., in room 2359, Rayburn House Office Building, Hon. Lee H. Hamilton (chairman of the committee) presiding.

Present: Representatives Hamilton and Solarz.

· Also present: William Buechner, professional staff member.

OPENING STATEMENT OF REPRESENTATIVE HAMILTON, CHAIRMAN

Representative HAMILTON. The meeting of the Joint Economic Committee will come to order. This morning, the Joint Economic Committee welcomes back Commissioner Norwood for her testimony on the employment and unemployment situation for March 1989.

According to the Employment Situation press release that the Bureau of Labor Statistics issued this morning, the unemployment rate declined to 5 percent in March, its lowest level since December 1973, with the largest improvement occurring among adult men, teenagers, and blacks.

The number of people unemployed fell by 200,000. According to the establishment survey, nonfarm employment rose by 180,000 in March. This figure was held down by the 25,000 people affected by the strike against Eastern Airlines, but it was still the smallest monthly growth in employment in more than a year.

There was a decline of 26,000 jobs in goods-producing industries due to a very large decline in employment in the construction industry.

The committee will now hear from Commissioner Norwood for her analysis of the employment and unemployment situation for March. Commissioner Norwood.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY KENNETH V. DALTON, ASSOCIATE COMMIS-SIONER, OFFICE OF PRICES AND LIVING CONDITIONS; AND JOHN E. BREGGER, ASSISTANT COMMISSIONER, OFFICE OF CURRENT EMPLOYMENT ANALYSIS

Mrs. Norwood. Thank you very much, Mr. Chairman.

On my right is Kenneth Dalton, our price expert; and on my left is Jack Bregger, who is our employment expert.

We're very pleased to be here. Unemployment edged down further in March, and employment grew moderately. After declining markedly in February, the number of unemployed persons fell by 200,000 in March as the civilian worker unemployment rate reached 5 percent, its lowest point since December 1973.

The overall rate, which takes into account the resident Armed Forces, declined to 4.9 percent in March. Payroll employment in our business survey rose by 180,000 in March after allowance for seasonal movements, a somewhat slower pace of monthly increase than we have seen over the past year.

The extent of the March job gain was held down somewhat by the airline strike, which reduced payroll employment by about 25,000.

The growth in payroll employment from February to March occurred almost entirely in the service sector, where job increases were fairly widespread. In the services industry itself, employment rose by 110,000, in line with average monthly gains over the past year.

The health services industry added 55,000 jobs in March. Employment has been growing rapidly in this industry; fully half a million of its 7.6 million jobs have been added during the past year alone. In contrast, employment in business services, which had grown very rapidly earlier in the current expansion, was about unchanged in March. Elsewhere in the service sector, retail trade jobs continued to expand at a rapid pace, as the March increase brought the total job increase to 260,000 since December. Wholesale trade also continued its recent pace of rapid growth.

In the goods-producing sector, construction employment dropped for the second month in a row, with the largest decline occurring among residential building contractors. The recent rise in interest rates appears to be causing a slowdown in building activity.

The number of factory jobs changed little for the second month in a row, and the factory workweek fell to 40.9 hours. Nevertheless, the new BLS diffusion index for 143 manufacturing industries rose to 56 percent in March, showing improvement relative to the previous month in the number of industries that added jobs.

In mining, a small job increase occurred in the oil and gas industry for the second consecutive month. Employment in that industry had been declining steadily since last summer.

The household survey also showed an increase in civilian employment, especially for adult men. The employment-population ratio edged up to 63 percent in March, a new high.

Over the year, civilian employment has expanded by 3 million, shared about equally by men and women. Much of the March improvement in unemployment occurred among adult men. Their jobless rate fell 0.3 of a percentage point to 4.2 percent, the lowest since September 1979.

The jobless rate for adult women has shown little movement in recent months. The sharp declines in February jobless rates for teenagers and Hispanics, which I discussed with the committee last month, appear to have been sustained by the March data. In addition, the jobless rate for blacks dropped to 10.9 percent. Although the rates for each of these groups vary considerably from one month to the next, the overall strength in the labor market appears to be reaching even those groups, who historically have had a hard time finding jobs.

Each quarter, we present data on discouraged workers—people who desire a job but are not looking for one because they think their search would be in vain. At an average of 850,000 in the January to March period, the number of discouraged workers declined about 100,000 from the previous quarter. This is the lowest level since late 1979. The number of discouraged had reached a high of 1.8 million workers at the end of 1982.

Another measure that we publish on a quarterly basis is the U-7 series, the broadest, most inclusive measure in the range of alternative unemployment indicators calculated by the Bureau of Labor Statistics. Combining the effects of discouragement, involuntary part-time work, and unemployment, U-7 fell from 8.2 in the October to December period to 7.9 percent in the January to March quarter, the lowest level in nearly 15 years.

Each of the seven alternative measures fell slightly over the period. The narrowest measure—U-1, persons unemployed 15 weeks or longer—is down to just over 1 percent, and U-2, job losers, is only about 2.5 percent.

In summary, the data released today show a relatively strong labor market in March, with improvement in unemployment and moderate job growth.

Mr. Chairman, I have distributed a few charts which perhaps during the discussion period we could review, and now my colleagues and I would be happy to try to answer any questions.

[The table attached to Mrs. Norwood's statement, together with the Employment Situation press release, follows:]

| | T | r | X-11 method | | | | | | |
|----------------------|-------------------------|-----------------------|--------------------------------------|-------------------------|--------|-------|----------|-------------------------------------|-------------------------|
| Nonth and year | Unad- justed rate | Official procedure | Concurrent (as first computed) | Concurrent (revised) | Stable | Total | Residual | (official method before 1980) | Range (cols. 2-8) |
| | (\mathbf{n}) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1988 | | | | | | | | | |
| March | 5.9 | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | 5.5 | 5.6 | .2 |
| | 5.3 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | - |
| May | 5.4 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | •1 |
| June | 5.5 | 5.4 | 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | 5.3 | .1 |
| July | 5.5 | 5.4 | 5.4 | 5.5 | 5.4 | 5.5 | 5.5 | 5.4 | •1 |
| August | 5.4 | 5.6 | 5.6 | 5.6 | 5.5 | 5.6 | 5.6 | 5.6 | •1 |
| September | 5.2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | - |
| October | 5.0 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.4 | 5.3 | .1 |
| November | 5.2 | 5.4 | 5.4 | 5.3 | 5.4 | 5.3 | 5.4 | 5.4 | .1 |
| Vecember | 5.0 | 5.9 | 5.3 | 5.3 | 5.3 | 5.3 | 5.4 | 5.4 | .1 |
| 1989 | | | | | | | , | | |
| January | 6.0 | 5.4 | 5.4 | 5.4 | 5.5 | 5.4 | 5.3 | 5.5 | .2 |
| February | 5.6 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.0 | 5.2 | .2 |
| March | 5.2 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.8 | 5.0 | .2 |

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Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR Bureau of Labor Statistics April 1989

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4

(1) Unadjusted rate. Deemployment rate for all civilian workers, not connectly adjusted. 20

(1) <u>usua putter fills</u> usuaplayment rate for all civilian workers, ant essenably objected rate for all civilian workers. Each of the 3 major civilian labor force empenders grieniteral exploration, sample civilian induced in the second state of second state second state of the secon

(3) <u>Conservent (as first computed, 3-11 Attild sorted)</u>. The official presedence for computations of the rate for all confidence using the 12 component is followed computitions of the rate for all civilian workers using the 12 component is followed computities of the rate for all civilian workers are used at all. Each component is commonly adjusted vith the 3-11 Attild program each meach as the sect resumes are included. Rates for each meach of the component is not as the sect resume are included. For compute, the rate for Jamesry 1994 would be based, during 1994, on the adjustment of data from the period Jamesry 1974 through Jamesry 1984.

(4) <u>Concurrent (revised, E-11 AEDIA method)</u>. The presedure used is identical to (3) above, and the rate for the current month (the last much displayed) will absays be the same in the two columns. However, all previous manthe are embigate to revision each much based on the users and adjustment of all the components with data through the current method.

(5) <u>Stable (X-11 ARDMA worked)</u>. Each of the 12 civilies labor force components is em-using ADDMA models as in the official procedure and then run through the D-11 part of the program using the stable option. This option accesses that reasonal patterns are herically constant free year-toryear and computer final concesses limiters as unmeighted averages of all the consensi-kirvegular components for each much across the estime upon of the partied algorith. As in the official procedure, factors are extrapolated in 6-much intervals and the corise are veriesd at the end of each year. The procedure for computation of the rate from the sensenally adjusted components is also identical to the official procedure.

(6) Total (B-11 AEDIA method). This is one alternative appropriation preseders, in which total mamploymest and civilian labor force levels are extended with AEDIA methods and directly adjusted with militplicative adjusted methods. The E-11 pert of the program. The trits is supported by taking encountry adjusted total containt and another total containt of associally adjusted total civilian labor forces. Pasters are an encountry adjusted total civilian labor forces. The total extension of a state of a support of a state of a state of a superior of the part of a state of a superior of the part of a state of a state of a state of a state of a superior.

(7) <u>Besideal (3-11 ARDMA method)</u>. This is enother alternative appropriate method, in which total civilian gaplayment and civilian labor forces lowels are entended using ARDM models and them directly adjusted with multiplicative adjustment methols. The seasonally adjusted unexployment lowel is derived by constructing seasonally adjusted multiplicative adjusted from seasonally adjusted labor forces. The rate is then semputed by taking the derived unexployment lowel as a persons of the labor forces. Process are antispalated in from seasonal as a persons of the labor forces. maily

(8) 2-11 method (official method before 1980). The method for computation of the official procedure is used entert that the series are not estended with AIDMA models and the fasters are projected in 12-meth intervals. The standard 2-11 program is used to perform the concennal of periperts.

Nethods of Adjustment: The 3-11 AIDIA method was developed at Statistics Causes by the Second Adjustment and Times Series Staff under the directions of Betala Des Dagan. The method is described in The 5-11 AIDIA Second Adjustment Hethod, by Estala Des Dagan, Restatetics Causes Catalogue Ho. 12-5448, February 1946.

The standard Z-11 method is described in Z-11 Pariant of the Conses Method II Second <u>Alforetnest Program</u>, by Julian Shishim, <u>Jalan Young and John Mangrave</u> (Jochnical Peper Ds. 13, Metama of the Conses, 1967).

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THE EMPLOYMENT SITUATION: MARCH 1989

523-1913

Employment grew moderately in March and unemployment edged down, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall jobless rate was 4.9 percent and the civilian worker rate was 5.0 percent, compared with 5.1 percent for both measures in February. Both rates were at their lowest points since December 1973.

Nonagricultural payroll employment, as measured by the survey of business establishments, grew by 180,000 in March, well below the monthly average of 300,000 over the prior 12 months. Total civilian employment, as measured by the survey of households, rose by 285,000.

Unemployment (Household Survey Data)

Both the number of unemployed persons and the civilian worker unemployment rate edged down in March after seasonal adjustment, to 6.1 million and 5.0 percent, respectively. Over the past year, the unemployment rate has fallen six-tenths of a percentage point, and the number of unemployed persons has declined by 700,000. (See table A-2.)

The jobless rate for adult men fell to 4.2 percent in March, with improvement concentrated among 20 to 24 year-olds and those 55 and over. Jobless rates for blacks (10.9 percent) and teenagers (13.7 percent) also edged down over the month. Following a substantial drop in February, the unemployment rate for Hispanics (6.5 percent) was little changed in March, as were the rates for adult women (4.6 percent) and whites (4.2 percent). (See tables A=2, A=3, and A=9.)

Both the mean and median duration of unemployment were about unchanged in March. The number of unemployed persons who were jobless for less than 5 weeks declined by 190,000 to a seasonally adjusted level of 3.1 million. Over the year, however, the bulk of the decline in unemployment occurred among persons jobless for 15 weeks or longer--the long-term unemployed. (See table A-7.)

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment increased by 285,000 in March to a seasonally adjusted level of 117.1 million-3.0 million more than a year earlier. All of the over-the-month increase occurred among men, whereas the over-theyear gain was split about equally among men and women. The proportion of the population with jobs (the employment-population ratio) reached a new high of 63.0 percent in March. The civilian labor force was little changed over the month, and the labor force participation rate held at 66.3 percent. (See table A-2.)

| | Quar ave | terly rages | Mo | | | |
|-----------------------------|-------------|----------------|------------|-----------|-----------|--------------|
| Category | 1988 | 1989 | | 1989 | | Feb Mar. |
| | IV | I | Jan. | Feb. | Mar. | change |
| HOUSEHOLD DATA | | | | · | | |
| | | The | ousands of | f persons | | |
| Labor force <u>1</u> / | 124,084 | 124,979 | 125,124 | 124,865 | 124,948 | 83 |
| Total employment <u>1</u> / | 117,539 | 118,588 | 118,407 | 118,537 | 118,820 | 283 |
| Civilian labor force | 122,388 | 123,291 | 123,428 | 123,181 | 123,264 | 83 |
| Civilian employment | 115,843 | 116,900 | 116,711 | 116,853 | 117,136 | 283 |
| Unemployment | 6,545 | 6,391 | 6,716 | 6,328 | 6,128 | -200 |
| Not in labor force | 62,865 | 62,482 | 62,216 | 62,596 | 62,633 | 37 |
| Discouraged workers | 951 | 855 | N.A. | N.A. | N.A. | N.A. |
| | | | | L | l | L |
| Normal export notices | | Pe | rcent of | Labor for | ce | · |
| All workers 1/ | 6 3 | _ _, | | | | |
| All workers 1/ | 5.5 | 5.1 | 5.4 | 5.1 | 4.9 | -0.2 |
| All Civilian workers. | 5.3 | 3.2 | 5.4 | 5.1 | 5.0 | 1 |
| Adult men | 4./ | 4.3 | 4.0 | 4.3 | 4.2 | 3 |
| Toopegana | 4./ | 4.0 | 4./ | 4.3 | 4.0 | •1 |
| Iteenagers | 14.0 | 15.0 | 10.4 | 14.8 | 13./ | +1+1 |
| | 4.0 | 4.4 | 4.0 | 4.3 | 4.2 | 1 |
| Black | 11.3 | 11.6 | 12.0 | 11.9 | 10.9 | -1.0 |
| hispanic origin | /.8 | 7.2 | 8.4 | 6.8 | 6.5 | 3 |
| ESTABLISHMENT DATA | | | | · · · | | |
| N | | The | usands of | t jobs | | |
| Nonrarm employment | 107,344 | p108,312 | 108,065 | p108,345 | p108,525 | p180 |
| Goods-producing | 25,82/ | p26,01/ | 26,048 | p26,014 | p25,988 | p -26 |
| Service-producing | 81,517 | - p82,295 | 82,017 | p82,331 | p82,537 | p206 |
| | | | louza of r | | | · · · · |
| Average weekly hours: | | f | | TVIR. | | · · · |
| Total private | 34.8 | n34.7 | 34-8 | p34-6 | n34 4 | -0 |
| Manufacturing | 41.1 | p41.0 | 41.1 | p34.0 | p.4.0 | -02 |
| Overtime | 3.9 | p3.9 | 3.9 | p3.9 | p3.9 | p0.2 |
| 1/ Includes the resi | dent Arme | d Forces. | | N.A. | -not avai | lable. |

| Table | A. | Major | indicators | of | labor | market | activity, | seasonally | adjusted | |
|-------|-----------|-------|------------|----|-------|--------|-----------|------------|----------|--|
| | | | | | | | | | | |

p-preliminary.

Discouraged Workers (Household Survey Data)

The number of discouraged workers--persons who want to work but have not looked for jobs because they believe they cannot find any--edged down by about 100,000 in the first quarter of 1989 to a seasonally adjusted level of 855,000. Blacks accounted for 3 out of 10 discouraged workers, even though they make up only about 1 in 10 of the working-age population. (See table A-14.)

Industry Payroll Employment (Establishment Survey Data)

Employment growth in nonagricultural establishments moderated in March, as payroll jobs increased by 180,000 to 108.5 million, seasonally adjusted. (See table B-1.) The over-the-month gain would have been somewhat larger except for about 25,000 airline workers who were off payrolls because of labor-management disputes.

Virtually all of the employment growth in March was in the serviceproducing sector, with gains concentrated in the services and trade industries. In the services industry, employment rose by 110,000, about in line with recent average growth for that industry. Within services, employment in the fast-growing health services component increased by 55,000. Retail trade added 75,000 jobs, and employment in wholesale trade increased by 25,000, with most of the gain occurring in durable goods distribution. There was little over-the-month change in finance, insurance, and real estate; government; and in transportation and public utilifies, where employment was held down by the airline workers' strike.

In the goods-producing sector, employment in the construction industry declined by 50,000 in March, after seasonal adjustment. There was also a decline in February, following a very large increase in January. Construction employment patterns often vary substantially in the early months of the year owing to changeable weather conditions in many parts of the country. However, some of the recent employment weakness in the industry may reflect a more general slowdown in construction activity, particulary in the residential sector. Manufacturing employment showed little movement for the second straight month, following strong growth in the previous 4 months. In mining, employment in the oil and gas extraction component rose slightly in March.

Weekly Hours (Establishment Survey Data)

Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls were unchanged in March at 34.6, after seasonal adjustment. In manufacturing, the workweek declined by 0.2 hour to 40.9 hours, while overtime was unchanged at 3.9 hours. (See table B-2.) The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 127.9 (1977=100), was little changed in March after seasonal adjustment. The index for the manufacturing industry was unchanged at 97.3. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

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Both average hourly and average weekly earnings rose by 0.4 percent in March, after seasonal adjustment. Prior to seasonal adjustment, average hourly earnings increased by 2 cents to 9.56 in March, and average weekly earnings rose by 1.64 to 328.86. Over the year, both hourly and weekly earnings increased by 4.1 percent. (See tables B-3 and B-4.)

The Employment Situation for April 1989 will be released on Friday, May 5, at 8:30 A.M. (EDT).

Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 55,800 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (BLS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolis that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by 8LS in cooperation with State agencies. The sample includes over 300,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job at which they worked the most hours.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather, disputes between labor and management, or personal reasons. Members of the Armed Forces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work at that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (evillan grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a divilian labor force base.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

— The household survey, although based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Forces;

- The household survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the establishment survey is not limited by age;

— The household survey has no duplication of individuals, because each individual is counted only once; in the establishment survey, employees working at more than one job or otherwise appearing on more than one payroll would be counted toperately for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon request.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the levels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each lune is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can he adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in economic activity.

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours, and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BLS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-tune period and again for the July-December period. The January true period is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 68 out of 100 that an estimate based on the sample will differ by no more than the standard error from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence—the confidence limits used by 8.15 in its analyses—the error for the monthly change in total employment is on the order of plus or minus 358,000; for total unemployment it is 224,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "titue" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of teenagers. Specifically, the error on monthly change in the jobless rate for men is .25 percentage point; for teenagers, it is 1,29 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are revised. In other words, data for the month of September are published in preliminary form in October and November and in final form in December. To remove errors that build up over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks—comprehensive counts of employment—against which month-to-month changes can be measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments.

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in *Employment and Earnings*, published each month by st.S. It is available for \$8.50 per issue or \$25.00 per year from the U.S. Government Printing Office, Washington, DC 20204. A check or money order made out to the Superintendent of Documents must accompany all orders.

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M, O, P, and Q of that publication:

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Table A-1. Employment status of the population, including Armed Forces in the United States, by sex

(Numbers in thousands)

| Employment statue and sex | | econelly e | djusted | Seconally adjusted | | | | | |
|--|---------|--------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|
| | | Feb. 1969 | Mar. 1969 | Mar. 1968 | Nov. 1968 | Dec. 1968 | Jan. 1969 | Feb. 1989 | Mær. 1969 |
| TOTAL | | | | | | | | | |
| Noninstitutional population ² | 185.847 | 187.461 | 187,581 | 185.847 | 186.949 | 167.098 | 187,340 | 187,461 | 187.581 |
| Labor torce ⁴ | 121.693 | 123,590 | 123,907 | 122.672 | 124.215 | 124,259 | 125.124 | 124,665 | 124.948 |
| Participation rate ² | 65.5 | 65.9 | 66.1 | 66.0 | 66.4 | 66.4 | 66.6 | 66.6 | 66.6 |
| Total employed" | 114,603 | 116,707 | 117.528 | 115.865 | 117,652 | 117,705 | 118,407 | 118,537 | 118.820 |
| Employment-population ratio | 61.7 | 62.3 | 62.7 | 62.3 | 62.9 | 62.9 | 63.2 | 63.2 | 63.3 |
| Resident Anned Forces | 1,736 | 1,684 | 1,684 | 1,738 | 1,705 | 1,696 | 1,696 | 1,684 | 1,684 |
| Civilian employed | 112,867 | 115,023 | 115,844 | 114,129 | 115,947 | 116,009 | 116,711 | 116,853 | 117,138 |
| Agriculture | 2,902 | 2,795 | 2,934 | 3,181 | 3,238 | 3,193 | 3,300 | 3,223 | 3,206 |
| Nonegricultural industries | 109,964 | 112,228 | 112,911 | 110,948 | 112,709 | 112,816 | 113,411 | 113,630 | 113,930 |
| Unemployed | 7,090 | 6,883 | 6,378 | 6,807 | 6,563 | 6,554 | 6,716 | 6,326 | 6,128 |
| Unemployment rate ³ | 5.8 | 5.6 | 5.1 | 5.5 | 5.3 | 5.3 | 5.4 | 5.1 | 4.9 |
| Not in labor force | 64,154 | 63,871 | 63,674 | 63,175 | 62,734 | 62,839 | 62,216 | 62,596 | 62,633 |
| Men, 15 years and over | | | | | | | | | |
| Noninstitutional population ² | 69,168 | 89,973 | 90,032 | 69,168 | 69,716 | 89,792 | 89,914 | 89,973 | 90.032 |
| Labor force? | 67,521 | 68,273 | 66,472 | 68,194 | 68,686 | 68,638 | 69,032 | 69,113 | 69,190 |
| Participation rate ³ | 75.7 | 75.9 | 76.1 | 76.5 | 76.6 | 76.4 | 76.8 | 76.8 | 76.9 |
| Total employed* | 63,385 | 64,233 | 64,875 | 64,417 | 65,074 | 65,055 | 65,322 | 65,572 | 65,920 |
| Employment-population ratio* | 71.1 | 71.4 | 72.1 | 72.2 | 72.5 | 72.5 | 72.6 | 72.9 | 73.2 |
| Resident Armed Forces | 1,573 | 1,521 | 1,521 | 1,573 | 1,542 | 1,534 | 1,532 | 1,521 | 1,521 |
| Civilian employed | 61,812 | 62,712 | 63,354 | 62,844 | 63,532 | 63.521 | 63,790 | 64,051 | 64,399 |
| Unemployed | 4,136 | 4,040 | 3,597 | 3,777 | 3,612 | 3,583 | 3,710 | 3,540 | 3,270 |
| Unemployment rate" | 6.1 | 5.9 | 5.3 | 5.5 | 5.3 | 5.2 | 5.4 | 5.1 | 4.7 |
| Women, 16 years and over | | | | | | | | | |
| Noninstitutional population ² | 96,679 | 97,488 | 97,550 | 96,679 | 97,234 | 97,306 | 97,427 | 97,488 | 97,550 |
| Labor force' | 54,173 | 55,317 | 55,435 | 54,47B | 55,529 | 55,621 | 56,091 | 55,752 | 55,758 |
| Participation rate ¹ | 56.0 | 56.7 | 56.8 | 58.3 | 57.1 | 57.2 | 57.6 | 57.2 | 57.2 |
| Total employed' | 51,218 | 52,474 | 52,654 | 51,448 | 52,578 | 52,650 | 53,085 | 52,965 | 52,900 |
| Employment-population ratio* | 53.0 | 53.6 | 54.0 | 53.2 | 54.1 | 54.1 | 54.5 | 54.3 | 54.2 |
| Resident Armed Forces | 163 | 163 | 163 | 163 | 163 | 162 | 164 | 163 | 163 |
| Chillian employed | 51,055 | 52,311 | 52,491 | 51,285 | 52,415 | 52,488 | 52,921 | 52,802 | 52,737 |
| Unemployed | 2,955 | 2,843 | 2,781 | 3,030 | 2,951 | 2,971 | 3,006 | 2,787 | 2,858 |
| Unemployment rate* | 5.5 | 5.1 | 5.0 | 5.6 | 5.3 | 5.3 | 5.4 | 5.0 | 5.1 |
| | | | L | 1 | | | 1 | | |

¹ The population and Anneal Forces figures are not adjusted for assonal variation; therefore, identical numbers appear in the unadjusted diseasonally adjusted columns. ¹ Includes members of the Anneal Forces stationed in the United

include

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³ Labor force as a percent of the noninstitutional population. ⁴ Total employment as a percent of the noninstitutional population. ³ Unamployment as a percent of the labor force (including the resident Armed Forces).

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Table A-2. Employment status of the civilian population by sex and age

(Numbers in thousands)

| | Not ee | accountly a | djusted | Beasonally adjusted' | | | | | |
|---|------------------------|--------------|-------------------------------------|----------------------|--------------|--------------|--------------|--------------|--------------|
| Employment status, sex, and ege | | Feb. 1989 | Mar. 1969 | Mar. 1968 | Nov. 1968 | Dec. 1968 | Jan. 1969 | Feb. 1989 | Mar. 1989 |
| TOTAL | | | | | | | | | |
| Olvilian noninstitutional population | 184,111 | 185,777 | 185,897 | 184,111 | 185,244 | 185,402 | 185,644 | 185,777 | 185,897 |
| Civilian labor force | 119,957 | 121,908 | 122,223 | 120,936 | 122,510 | 122,563 | 123,428 | 123,181 | 123,284 |
| Participation rate | 66.2 | 65.6 | 65.7 | 65.7 | 66.1 | * 66.1 | 66.5 | 06.3 | 66.3 |
| Employed | 112,867 | 115,023 | 115,844 | 114,129 | 115,947 | 116,009 | 116,711 | 116,853 | 117,136 |
| Employment-population ratio* | 61.3 | 61.9 | 62.3 | 62.0 | 62.6 | 62.6 | 62.9 | 62.9 | 63.0 |
| Unemployed | 7,090 | 6,663 | 6,378 | 6,807 | 6,563 | 6,554 | 6,716 | 6,329 | 6,128 |
| Unemployment rate | 5.9 | 5.6 | 5.2 | 5.6 | 5.4 | 5.3 | 5.4 | 5.1 | 5.0 |
| Men, 20 years and over | | | | | | | | | l |
| Chillion received th tioned correlation | 0.000 | 81 254 | 81 222 | 80.260 | 80.024 | 81 001 | 81 182 | A1 754 | |
| Chillen labor forme | 82 238 | 61,230 | 83 210 | 62 632 | 82 005 | 63,002 | 61 162 | 61,230 | 01,333 |
| Participation rate | 77.5 | 77.6 | 777 | 77 0 | 77.8 | 77.8 | 28.1 | 78 1 | 781 |
| Employed | 58 807 | 50,001 | 60 181 | 60 488 | 50,000 | 60,040 | 60.130 | - | 0.1 |
| Employee | 73.7 | 73.4 | 74.0 | 74 1 | 74 1 | 74 1 | 74.4 | 74.6 | 74.0 |
| Aging the | 2 100 | 2 085 | 2166 | 2 258 | 2 3 1 3 | 2 202 | 2 277 | 3 2 2 2 0 | 2917 |
| Noneoric Stural inclustries | 56 697 | 57 616 | 58.025 | 57 210 | 57 696 | 57 757 | 58 143 | 68 318 | 58 652 |
| Unemployed | 3432 | 3 350 | 3.019 | 3064 | 2 006 | 2 953 | 2 838 | 2 853 | 2 699 |
| Unemployment rate | 5.5 | 5.3 | 4.8 | 4.9 | 4.8 | 4.7 | 4.6 | 4.5 | 42 |
| Women, 20 years and over | | | | | | | | | |
| An an a share at a start at a start at | | | | | | | | | |
| CANNER NORTHEREDATIONES POPULATION | 69,201 | 90,153 | 90,242 | 89,261 | 69,687 | 69,954 | 90,072 | 90,153 | 90,242 |
| | 50,4/6 | 51,6/5 | 51,803 | 50,510 | 51,558 | 51,587 | 51,098 | 51,621 | 51,851 |
| Personalization rate | 30.5 | 5/.3 | 5/.4 | 00.0 | 5/.4 | 5/.3 | 57.7 | 57.5 | 57.5 |
| Englishment part dation ratio | 40,001 | 49,279 | 49,462 | 46,060 | 49,113 | 49,100 | 49,543 | 49,514 | 49,484 |
| A minuth ma | 53.0 | 676 | 54.5 | 33.0 | 04,0 | 04./ | 200 | 54.9 | 54.8 |
| Nonexist the list string | 47 478 | 48 702 | 48 863 | 47 419 | 49 472 | 48 510 | 40 027 | 40.000 | |
| Inemployed Richard | 2 4 2 5 | 3 3 3 6 | 3 341 | 2460 | 40,473 | 40,010 | 40,027 | 46,049 | 40,019 |
| Unemployment rate | 4.8 | 4.8 | 4.5 | 4.9 | 47 | 47 | 47 | 4.5 | 2,307 |
| Both seven 18 to 18 years | | | | | | | | | |
| | | | | | | Ι. | | 1 | |
| Civilian noninstitutional population | 14,591 | 14,367 | 14,323 | 14,591 | 14,433 | 14,447 | 14,410 | 14,367 | 14,323 |
| Civilian labor force | 7,243 | 7,199 | 7,210 | 7,894 | 7,957 | 7,974 | 8,071 | 7,871 | 7,856 |
| Perticipation rate | 49.6 | 50.1 | 50.3 | 54.1 | 55.1 | 55.2 | 58.0 | 54.8 | 54.9 |
| Employed | 6,009 | 6,062 | 6,192 | 6,601 | 6,635 | 6,795 | 6,748 | 6,703 | 6,783 |
| Employment-population ratio" | 41.2 | 42.2 | 43.2 | 45.2 | 47.4 | 47.0 | 48.6 | 46.7 | 47,A |
| Agricuture | 210 | 152 | 174 | 282 | 285 | 255 | 307 | 237 | 224 |
| Nonagricultural industries | 5,791 | 5,910 | 6,018 | 6,319 | 6,550 | 6,540 | 6,441 | 6,466 | 6,559 |
| Unemployed | 1,234 | 1,137 | 1,018 | 1,293 | 1,122 | 1,179 | 1,323 | 1,168 | 1,073 |
| | 17.0 | 15.8 | 14.1 | 16.4 | 14.1 | 14.8 | 16,4 | 14.8 | 13.7 |
| ' The population figures are not adjusted for execons therefore, identical numbers appear in the unadjusted and adjusted columns. | u variatio seasonal | n; Þý pa | ⁷ Civilian opulation. | employme | int es e | percent o | of the cit | ilian noni | netitutional |

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Table A-3. Employment status of the civilian population by race, sex, ege, and Hispanic origin

(Numbers in thousands)

| | Not se | seconality a | djusted | Seasonally adjusted' | | | | | |
|---|--------------|--------------|--------------|----------------------|--------------|--------------|--------------|--------------|--------------|
| Emptoyment status, race, sex, age, and Hispanic origin | Mar. 1988 | Feb. 1969 | Mgr. 1989 | Mar. 1988 | Nov. 1988 | Dec. 1968 | Jan. 1989 | Feb. 1989 | Mar. 1989 |
| WHITE | | | | | | | | | |
| Civilian noninstitutional population | 157,868 | 158,947 | 159,020 | 157,868 | 158,603 | 158,705 | 158,865 | 158,947 | 159,020 |
| Civilian labor force | 103,388 | 104,758 | 105,100 | 104,172 | 105,395 | 105,411 | 106,106 | 105,798 | 105,968 |
| Participation rate | 65.5 | 65.9 | 66.1 | 66.0 | 66.5 | 66.4 | 66.6 | 66.6 | 66.7 |
| Employed | 98,202 | 99,747 | 100,435 | 99,252 | 100,543 | 100,567 | 101,163 | 101,278 | 101,554 |
| Employment-population ratio" | 62.2 | 5012 | 63.2 | 4 02.9 | 4 86 2 | 4 844 | 4 022 | 63.7 | 63.9 |
| Unemployment rate | 5.0 | 4.8 | 4.4 | 4.7 | 4.6 | 4.6 | 4.6 | 4.3 | 4.2 |
| Men, 20 years and over | 54 207 | 54 020 | 55.070 | 54.541 | 54.022 | 54 808 | 66.912 | 65 200 | 55 000 |
| Civilian abor force | 77.0 | 78.0 | 55,070 | 78.9 | 78.3 | 78.2 | 35,213 | 78.6 | 78.4 |
| Frecipation | 51.723 | 52,399 | 52,800 | 52,266 | 52.624 | 52.636 | 53.007 | 53,197 | 53,397 |
| Employment-population ratio ⁷ | 74.2 | 74.4 | 75.0 | 75.0 | 75.0 | 75.0 | 75.4 | 75.6 | 75.8 |
| Unemployed | 2,584 | 2,521 | 2,270 | 2,275 | 2,298 | 2,262 | 2,205 | 2,111 | 1,895 |
| Unemployment rate | 4.8 | 4.6 | 4.1 | 42 | 4.2 | 4,1 | 4.0 | 3.8 | 3.6 |
| Women, 20 years and over Civilian labor force | 42,769 | 43.657 | 43,767 | 42,767 | 43,625 | 43,644 | 43,936 | 43,770 | 43,760 |
| Participation rate | 56.1 | 56.8 | 56.9 | 56.1 | 56.9 | 56.9 | 57.2 | 56.9 | 56.9 |
| Employed | 41,101 | 42,008 | 42,115 | 41,089 | 41,889 | 41,930 | 42,201 | 42,177 | 42,115 |
| Employment-population ratio* | 53.9 | 54.6 | 54.7 | 53.9 | 54.6 | 54.6 | 54.9 | 54,8 | 54,7 |
| Unemployed | 1,668 | 1,649 | 1,652 | 1,678 | 1,736 | 1,/14 | 1,734 | 1,593 | 1,665 |
| Unemployment rate | 3.9 | 3.8 | 3.5 | 3.6 | 4.0 | 3.8 | 3.9 | 3.0 | 3.8 |
| Both sexes, 16 to 19 years | | | | | | | | | |
| Civilian tabor force | 6,312 | 6,162 | 6202 | 67.7 | 58.2 | 58.6 | 60.8 | 6,/20 | 6,626 |
| Emologia | 5.378 | 5.340 | 5.520 | 5,897 | 6.030 | 6.001 | 5.975 | 5 904 | 8.052 |
| Employment-occutation ratio | 45.2 | 45.8 | 47.5 | 49.6 | 51.3 | 51.2 | 51.1 | 50.7 | 52.1 |
| Unemployed | 934 | 841 | 742 | 967 | 818 | 868 | 983 | 816 | 774 |
| Unemployment rate | 14.8 | 13.6 | 11.9 | 14,1 | 11.9 | 12.6 | 14.1 | 12.1 | 11.3 |
| Men | 17.1 12.3 | 16.4 10.6 | 13.8 9.8 | 15.5 | 12.6 | 13.4 11.8 | 16.4 11.7 | 14.0 10.2 | 12.3 |
| BLACK | | | | | | | | | |
| Christian acceleration tiones) population | 20.596 | 20.905 | 20.930 | 20 596 | 20.811 | 20 642 | 20.877 | 20.905 | 20.020 |
| Civilian labor force | 12,932 | 13,303 | 13,243 | 13,100 | 13,330 | 13,405 | 13.477 | 13.476 | 13,425 |
| Participation rate | 62.8 | 63.6 | 63.3 | 63.6 | 64.1 | 64.3 | 64.6 | 64.5 | 64.1 |
| Employed | 11,273 | 11,655 | 11,761 | 11,461 | 11,831 | 11,856 | 11,860 | 11,873 | 11,961 |
| Employment-population ratio ² | 54.7 | 55.8 | 56.2 | 55.6 | 56.8 | 56.9 | 56.8 | 56.8 | 57.1 |
| Unemployed | 1,659 | 1,648 | 1,483 | 1,639 | 1,499 | 1,549 | 1,617 | 1,603 | 1,464 |
| Unemployment rate | 12.8 | 12.4 | 11.2 | 12.5 | 11.2 | 11.6 | 12.0 | 11.9 | 10.9 |
| Men, 20 years and over | | | | | | | | | |
| Civilian labor force | 6,081 | 6,153 | 6,187 | 0,119 | 0,140 | 6,1/9 | 6,226 | 6,199 | 6,230 |
| Ferdiqued Tale | 5 280 | 6 4 2 2 | 5.541 | 5 444 | 6 646 | 6 641 | 15.0 | 74.0 | 74,8 |
| Employee | 65.7 | 65.3 | 66.6 | 66.6 | 67.1 | 67 1 | 67.2 | 68.7 | 67.5 |
| Unemployed | 712 | . 721 | 646 | 875 | 601 | 618 | 650 | 650 | 611 |
| Unemployment rate | 11.7 | 11.7 | 10.4 | 11.0 | 9.8 | 10.0 | 10.4 | 10.5 | 9.8 |
| Women, 20 years and over | | | | 1 | | | | | 1 |
| Civilian labor force | 6,112 | 6,327 | 6,281 | 6,141 | 6,260 | 6,316 | 6,369 | 6,349 | · 6,315 |
| Participation rate | 59.6 | 60.7 | 60.2 | 59.9 | 60.6 | 60.9 | 61.2 | 61.0 | 60.5 |
| Employed | 5,443 | 5,669 | 5,699 | 5,478 | 5,663 | 5,654 | 5,706 | 5,697 | 5,739 |
| Employment-population ratio | 53.1 | 54,4 | 54.6 | 53.5 | 54.6 | 54.5 | 54.9 | 54.7 | 55.0 |
| Unemployment rate | 10.9 | 10.4 | 9.3 | 10.8 | 9.8 | 10.5 | 10.4 | 10.3 | 576 9.1 |
| Both sexes, 16 to 19 years | | | | | | | | | |
| Civilian tabor force | 740 | 822 | 775 | 840 | 804 | 910 | 881 | 928 | 680 |
| Participation rate | 34.0 | 37.8 | 35.6 | 38.6 | 41.5 | 41.7 | 40.5 | 42.7 | 40.5 |
| Employed | 461 | 353 | 021 | 539 | 623 | 2041 | 5/7 | 627 | 602 |
| Citrogram - population ratio | 21.2 | 23,4 | 24,0 | 20.1 | 20.6 | 28.4 | 20.5 | 28.8 | 27.7 |
| Linemployed | 37 4 | 327 | 32.8 | 35.8 | 31 1 | 208 | 304 | 301 | 278 |
| Men | 40,2 | 35,2 | 29.3 | 37,8 | 32.1 | 29.8 | 36.7 | 33.1 | - 28 A |
| Women | 35.3 | 30.0 | 36.4 | 33.9 | 29.9 | 29.3 | 32.0 | 31.6 | 34.8 |
| | - | | | - · | | | | | - //• |

See footnotes at end of table.

Table A-3. Employment statue of the civilian population by race, sex, age, and Hispanic origin-Continued

(Numbers in thousands)

| Employment status, race, sex, egs, and Hapanic origin | | eonaity ad | Şusted | Beasonally adjusted' | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | Feb. 1969 | Mar. 1989 | Mar. 1988 | Nov. 1968 | Dec. 1968 | Jan. 1989 | Feb. 1989 | Mar. 1969 |
| HISPANIC ORIGIN | | | | | | | | | ·. |
| Ovillan noninstitutional population | 13,192 8,726 66.1 7,990 60.6 736 8.4 | 13,606 9,129 67.1 8,441 62.0 688 7.5 | 13,649 9,109 86.7 8,504 62.3 605 6.6 | 13,192 6,818 66.8 8,088 61.3 730 6.3 | 13,495 9,148 67.8 8,419 62.4 729 8.0 | 13,533 9,133 67.5 8,441 62,4 692 7.6 | 13,564 9,205 87.9 8,434 62.2 771 8,4 | 13,606 9,219 67.8 8,596 63.2 624 6.8 | 13,649 9,210 67.5 8,607 63.1 603 6.5 |
| 'The population figures are not adjusted for season therefore, identical numbers appear in the unadjusted and adjusted outwarsa. ² Civilian employment as a percent of the civilian nor | t po y su d en | putation. NOTE: De m to totals d Hispanic | itali for th because d s are inclu | e above : lata for the ded in bot | ace and i "other red h the white | lispanic-or es" group end black | igin group are not pre population | s will not searced n groups. | |

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Table A-4. Selected employment indicators

(in thousands)

| Catagori | Not ee | esonally s | djusted | | | Seasonail | y adjusted | \$ | |
|--|---|--|---|---|---|---|---|---|---|
| Category | Mar. | Feb. | Mar. | Mar. | Nov. | Dec. | Jan. | Feb. | Mar. |
| | 1968 | 1989 | 1989 | 1988 | 1988 | 1968 | 1969 | 1989 | 1989 |
| CHARACTERISTIC | | | | | | | | | |
| Civilian employed, 18 years and over | 112,867 | 115,023 | 115,844 | 114,129 | 115,947 | 116,009 | 116,711 | 116,853 | 117,136 |
| | 40,157 | 40,314 | 40,754 | 40,486 | 40,407 | 40,483 | 40,925 | 40,928 | 41,083 |
| | 28,776 | 29,265 | 29,628 | 28,713 | 28,995 | 29,053 | 29,589 | 29,412 | 29,569 |
| | 6,178 | 6,391 | 6,275 | 6,158 | 6,375 | 6,399 | 6,416 | 6,385 | 6,256 |
| Agriculture: Wage and salary workers | 1,487 1,309 126 101,514 17,195 84,319 1,086 83,233 8,190 261 | 1,416 1,284 95 103,644 17,623 66,021 1,056 84,965 6,321 262 | 1,517 1,298 119 104,143 17,625 86,518 1,084 85,434 8,420 347 | 1,610 1,416 146 102,339 16,952 85,387 1,167 64,220 8,395 250 | 1,672 1,450 125 103,770 17,387 86,383 1,209 85,174 8,619 300 | 1,696 1,349 149 103,904 17,423 66,481 1,210 85,271 8,602 266 | 1,684 1,387 169 104,510 17,393 87,117 1,196 85,921 8,716 298 | 1,645 1,419 150 104,797 17,311 87,486 1,135 86,350 8,517 285 | 1,656 1,403 138 104,962 17,382 87,600 1,163 86,437 8,645 332 |
| PERSONS AT WORK PART TIME" All industries: Part time for economic reasons Stack work Could only find part-time work Voluntary part time Nonagricultural industries: Part time for economic reasons Stack work Could only find part-time work Voluntary part time | 5,129 | 4,996 | 4,784 | 5,331 | 5,061 | 5,321 | 5,097 | 4,981 | 4,968 |
| | 2,520 | 2,554 | 2,306 | 2,448 | 2,279 | 2,549 | 2,302 | 2,303 | 2,232 |
| | 2,347 | 2,153 | 2,204 | 2,548 | 2,375 | 2,410 | 2,352 | 2,333 | 2,393 |
| | 15,567 | 15,958 | 16,510 | 14,654 | 15,448 | 15,383 | 15,401 | 15,126 | 15,561 |
| | 4,932 | 4,725 | 4,572 | 5,087 | 4,819 | 5,033 | 4,837 | 4,697 | 4,709 |
| | 2,371 | 2,343 | 2,148 | 2,285 | 2,118 | 2,377 | 2,144 | 2,105 | 2,048 |
| | 2,307 | 2,102 | 2,155 | 2,482 | 2,288 | 2,307 | 2,283 | 2,272 | 2,317 |
| | 15,131 | 15,584 | 16,095 | 14,203 | 14,986 | 14,928 | 14,970 | 14,688 | 15,127 |

Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

HOUSEHOLD DATA

it measures based on varying definitions of unemployment and the labor force, esseon Table A-5. Range of unemployn stad

(Percent)

| - | | | Quart | arty ave | rages | | ** | onthly d | eta |
|-----|---|-----|-------|----------|-------|------|------|----------|------|
| | Measure | | 18 | 68 | | 1989 | | 1989 | |
| | | 1 | . | m | N | | Jan. | Feb. | Mar. |
| U-1 | Persons unemployed 15 weeks or longer as a percent of the civilian labor force | 1.4 | 1.3 | 1.3 | 1.2 | 1.1 | 1.2 | 1.1 | 1.1 |
| U-2 | Job losers as a percent of the civilian labor force | 2.6 | 2.5 | 2.5 | 2.5 | 2.4 | 2.5 | 2.3 | 2.3 |
| U-3 | Unemployed persons 25 years and over as a percent of the civilian labor force | 4.4 | 4.2 | 4.2 | 4.1 | 4.0 | 4.1 | 4.0 | 3.9 |
| U-4 | Unemployed full-time jobseekers as a percent of the full-time civilian labor force | 5.3 | 5.1 | 5.1 | 5.0 | 4.9 | 5.0 | 4.8 | 4.8 |
| U-6 | Total unemployed as a percent of the labor force, Including the resident Armed Forces | 5.6 | 5.4 | 5.4 | 5.3 | 5.1 | 5.4 | 5.1 | 4.9 |
| U-6 | Total unemployed as a percent of the civilian tabor force | 5.7 | 5.5 | 5.5 | 5.3 | 5.2 | 5.4 | 5.1 | 5.0 |
| U-6 | Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force | 7.9 | 7.6 | 7.6 | 7.5 | 7.2 | 7.5 | 7.2 | 7.1 |
| U-7 | Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for sconomic reasons plus discouraged workers as a percent of the childmin labor force plus discouraged workers less 1/2 of the part-time labor force | 8.7 | 8.3 | 8.4 | 8.2 | 7.9 | N.A. | NA | N.A. |

N.A. = not available.

Table A-6. Selected unemployment indicators, seasonally adjusted

| Category | Number of unemployed persons (in thousands) | | | Unemployment rates' | | | | | |
|---|---|--|---|--|---|---|---|--|--|
| · . | Mar. 1968 | Feb. 1989 | Mar. 1989 | Mar. 1988 | Nov. 1968 | Dec. 1968 | Jan. 1989 | Feb. 1989 | Mar. 1989 |
| CHARACTERISTIC | | | | | | | | | |
| Total, 16 years and over | 6,807 3,777 3,064 3,030 2,450 1,293 1,409 | 6,328 3,540 2,653 2,767 2,306 1,168 1,289 | 6,128 3,270 2,688 2,858 2,367 1,073 1,209 | 5.6 5.7 4.9 5.6 4.9 16.4 3.4 | 5.4 5.4 4.8 5.3 4.7 14.1 3.3 | 5.3 5.3 4.7 5.4 4.7 14.8 3.1 | 5.4 5.5 4.6 5.4 4.7 16.4 3.1 | 5.1 5.2 4.5 5.0 4.5 14.8 3.1 | 5.0 4.8 4.2 5.1 4.6 13.7 2.9 |
| Married women, spouse present Women who maintain families | 1,190 502 | 1,028 558 | 1,074 533 | 4.0 7.5 | 3.8 7.7 | 3.7 8.2 | 3.6 8.0 | 3.4 8.0 | 3.5 7.9 |
| Full-time workers Part-time workers Labor force time lost | 5,473 1,350 | 5,024 1,314 | 5.028 1,120 | 5.3 7.8 6.5 | 5.0 7.1 6.2 | 5.1 7.0 6.3 | 5.0 7.9 6.2 | 4.8 7.3 5.9 | 4.8 6.2 5.8 |
| INDUSTRY Nonagricultural private wege and ealisry workers | 5,083 1,875 68 663 1,148 668 480 3,188 261 1,550 1,377 503 | 4,749 1,784 57 648 1,079 578 503 2,965 244 1,284 1,284 1,437 477 | 4,636 1,718 51 610 1,058 608 450 2,918 254 1,294 1,371 466 | 5.6 8.5 10.6 5.2 5.1 5.4 5.2 4.1 8.7 4.3 2.9 | 5.5 6.4 8.9 10.6 5.1 4.9 5.3 5.1 4.0 6.2 4.6 2.5 | 5.4 6.4 7.7 10.4 5.2 5.0 5.5 4.9 3.8 6.3 4.1 2.7 | 5.6 6.4 6.1 10.4 5.3 5.0 5.7 5.2 3.8 6.3 4.7 2.7 | 5.1 6.1 8.0 10.0 4.4 5.5 4.7 3.9 5.6 4.3 2.7 | 5.0 5.8 7.0 9.4 4.8 4.7 4.9 4.6 3.9 5.6 4.1 2.6 |

¹ Unemployment as a percent of the civilian labor force. ² Aggregate hours lost by the unemployed and persons on part time for

economic reasons as a percent of potentially available labor force hours.

Table A-7. Duration of unemployment

(Numbers in thousands)

| | Not see | eonally at | Şusted | Beasonally adjusted | | | | | |
|-----------------------|---------|------------|--------|---------------------|-------|-------|-------|-------|-------|
| Weeks of unemployment | Mar. | Feb. | Mar. | Mar. | Nov. | Dec. | Jan. | Feb. | Mar. |
| | 1968 | 1989 | 1969 | 1968 | 1968 | 1969 | 1969 | 1969 | 1969 |
| DURATION | | | _ | | | | | | |
| Less than 5 weeks | 2,759 | 3,117 | 2,756 | 3,057 | 3,117 | 3,029 | 3,181 | 3,247 | 3,055 |
| | 2,332 | 2,329 | 2,072 | 2,060 | 1,935 | 2,039 | 2,061 | 1,665 | 1,621 |
| | 1,999 | 1,436 | 1,550 | 1,693 | 1,502 | 1,495 | 1,512 | 1,304 | 1,310 |
| | 1,108 | 768 | 851 | 851 | 787 | 758 | 757 | 665 | 648 |
| | 891 | 668 | 699 | 842 | 715 | 737 | 755 | 639 | 653 |
| | 14.3 | 12,3 | 12.9 | 13.8 | 12.6 | 12.8 | 12.7 | 12,1 | 12.4 |
| | 8.0 | 6.0 | 8.8 | 6.4 | 5.5 | 5.8 | 5.7 | 5,3 | 5.4 |
| PERCENT DISTRIBUTION | | | | | | | | | |
| Total unemployed | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 38.9 | 45.3 | 43.2 | 44.9 | 47.8 | 46.2 | 47.0 | 50.6 | 49.4 |
| | 32.9 | 33.8 | 32.5 | 30.2 | 29.5 | 31.1 | 30.7 | 29.1 | 29.4 |
| | 28.2 | 20.9 | 24.3 | 24.9 | 22.9 | 22.8 | 22.3 | 20.3 | 21.2 |
| | 15.6 | 11.2 | 13.3 | 12.5 | 12.0 | 11.5 | 11.2 | 10.4 | 10.5 |
| | 12.6 | 9.7 | 11.0 | 12.4 | 10.9 | 11.2 | 11.1 | 10.0 | 10.7 |

Table A-8. Resson for unemployment

(Numbers in thousands)

| | Not se | sonally a | djusted | | 1 | Beneonal ^b | y adjusted | I. | |
|--|--------|-----------|---------|-------|-------|-----------------------|------------|-------|-------|
| Reasons | Mar. | Feb. | Mar. | Mar. | Nov. | Dec. | Jan. | Feb. | Mar. |
| | 1968 | 1969 | 1989 | 1988 | 1968 | 1968 | 1969 | 1969 | 1989 |
| NUMBER OF UNEMPLOYED | | | | | | | | | |
| Job loses On layof On any of One to beens Do leaves Reentrants New entrants PERCENT DISTRIBUTION | 3,506 | 3,382 | 3,176 | 3,131 | 3,031 | 3,086 | 3,121 | 2,878 | 2,831 |
| | 1,063 | 1,042 | 996 | 882 | 814 | 819 | 827 | 774 | 808 |
| | 2,423 | 2,340 | 2,180 | 2,249 | 2,217 | 2,247 | 2,294 | 2,102 | 2,023 |
| | 1,012 | 1,005 | 850 | 1,059 | 963 | 998 | 965 | 985 | - 865 |
| | 1,784 | 1,799 | 1,721 | 1,792 | 1,766 | 1,725 | 1,635 | 1,740 | 1,730 |
| | 789 | 696 | 631 | 871 | 799 | 799 | 780 | 765 | 713 |
| Total unemployed | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 49.5 | 49.1 | 49.8 | 45.7 | 46.2 | 46.5 | 46.4 | 45.2 | 48.0 |
| | 15.3 | 15.1 | 15.6 | 12.9 | 12.4 | 12.4 | 12.3 | 12.2 | 13.1 |
| | 34.2 | 34.0 | 34.2 | 32.8 | 33.8 | 34.1 | 34.1 | 33.0 | 32.8 |
| | 14.3 | 14.6 | 13.3 | 15.5 | 14.7 | 15.1 | 14.7 | 15.5 | 14.4 |
| | 25.2 | 28.1 | 27.0 | 26.1 | 26.9 | 26.2 | 27.3 | 27.3 | 28.1 |
| | 11.1 | 10.1 | 9.9 | 12.7 | 12.2 | 12.1 | 11.8 | 12.0 | 11.6 |
| Job losers | 2.9 | 2.8 | 2.8 | 2.6 | 2.5 | 2.5 | 2.5 | 2.3 | 23 |
| | .8 | .8 | .7 | .9 | .8 | .8 | .8 | .8 | .7 |
| | .1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.5 | 1.4 | 1,4 |
| | .7 | .6 | .5 | .7 | .7 | .7 | .6 | .6 | .6 |

Table A-8. Unemployed persons by sex and age, sessonally adjusted

| Sev and age | unem (m | Number of ployed per thousands | sons s) | Unemployment rates | | | | | | |
|--|---|---|---|--|--|--|--|--|--|--|
| | Mar. 1988 | Feb. 1989 | Mar. 1989 | Mar. 1988 | Nov. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | |
| Total, 16 years and over | 6,807 2,612 1,293 578 714 1,319 4,171 3,742 443 3,777 1,403 | 6,328 2,316 1,168 572 605 1,148 4,026 3,559 466 3,540 1,302 | 6,128 2,182 1,073 477 597 1,109 3,921 3,542 396 3,270 1,128 | 5.6 11.8 18.4 17.7 15.3 9.0 4.2 4.5 2.9 5.7 11.9 | 5.4 10.6 14.1 15.8 12.9 8.7 4.2 4.4 2.8 5.4 10.9 | 5.3 10.9 14.8 18.6 13.3 8.7 4.1 4.3 3.0 5.3 11.1 | 5.4 11.9 16.4 15.4 9.3 4.1 4.2 3.1 5.5 12.8 | 5.1 10.5 14.8 18.2 12.7 8.1 4.0 4.2 3.1 5.2 11.1 | 5.0 9.8 13.7 15.3 12.5 7.7 3.9 4.1 2.6 4.8 9.7 | |
| 16 to 19 years | 713 318 399 690 2,367 2,071 296 | 317 379 615 2,246 1,943 303 | 258 330 546 2,136 1,890 246 | 18.6 16.6 9.0 4.3 4.5 3.4 | 17.3 13.0 8.8 4.2 4.4 3.2 | 17.3 13.5 8.7 4.1 4.3 3.3 | 20.6 17.9 9.6 4.0 4.2 3.0 | 19.6 15.1 8.1 4.0 4.1 3.4 | 15.8 13.2 7.2 3.8 4.0 2.8 | |
| Women, 16 years and over 16 to 24 years 16 to 17 years 16 to 19 years 20 to 24 years 20 to 24 years 20 to 24 years 25 years and over 25 years and over 25 years and over | 3,030 1,209 580 260 315 629 1,804 1,671 147 | 2,787 1,014 481 255 226 533 1,780 1,616 164 | 2,856 1,054 491 219 267 563 1,784 1,652 151 | 5.6 11.2 15.2 16.7 14.0 9.0 4.1 4.5 2.4 | 5.3 10.3 13.3 14.1 12.8 8.6 4.2 4.4 2.4 | 5.4 10.7 14.2 15.8 13.1 8.7 4.1 4.4 2.6 | 5.4 10.9 14.0 15.9 12.7 9.1 4.1 4.3 3.1 | 5.0 9.7 12.8 16.8 10.0 8.0 3.9 4.2 2.5 | 5.1 10.0 13.1 14.8 11.7 8.3 4.0 4.3 2.3 | |

* Unemployment as a percent of the civilian labor force.

Table A-10. Employment status of black and other workers

(Numbers in thousands)

| | Not sea | sonally a | ljusted | Seasonally adjusted' | | | | | | |
|---|--|--|--|--|--|--|--|--|---|--|
| Employment status | Mar. 1988 | Feb. 1989 | Mar. 1989 | Mar. 1988 | Nov. 1968 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | |
| Civilian noninstitutional population Civilian labor force Participation rate Employment-population rate' Unemployment rate Unemployment rate Not in labor force | 26,243 16,569 63.1 14,664 55.9 1,905 11.5 9,674 | 28,830 17,147 63.9 15,276 56.9 1,871 10.9 9,682 | 26,877 17,123 63,7 15,409 57,3 1,714 10,0 9,754 | 26,243 16,783 64.0 14,894 56.8 1,889 11.3 9,460 | 26,641 17,079 64.1 15,365 57.7 1,714 10.0 9,562 | 26,697 17,172 64.3 15,457 57.9 1,715 10.0 9,525 | 26,779 17,283 64.5 15,449 57.7 1,833 10.6 9,496 | 26,830 17,386 64.8 15,540 57.9 1,846 10.6 9,444 | 26,877 17,347 64.5 15,651 58.2 1,696 9,8 9,530 | |

'The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

² Civilian employment as a percent of the civilian noninstitutional population.

Table A-11. Occupational status of the employed and unemployed, not see illy adjust

(Numbers in thousands)

| | Civilian | employed | Unem | ployed | Unemplo | yment rete |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
| Occupation | Mar. 1968 | Mar. 1989 | Mar. 1968 | Mar. 1969 | Mar. 1988 | Mar. 1989 |
| Total, 16 years and over' | . 112,867 | 115,844 | 7,090 | 6,378 | 5.9 | 5.2 |
| Managerial and professional specially | 28,928 | 30,520 | 473 | 561 | 1.6 | 1.9 |
| Executive, administrative, and managerial | 13,860 | 14,804 | 284 | 345 | 2.0 | 23 |
| Professional specially | 15,068 | 15,717 | - 189 | 217 | 1.2 | 1.4 |
| Technical sales and edministrative support | 35 440 | 35 402 | + 624 | 1 400 | | |
| Technicians and related succost | 3 498 | 3,633 | 83 | 54 | 2.1 | 3.0 |
| Sales occupations | 13.575 | 13.682 | 726 | 643 | | 144 |
| Administrative support, including clerical | 18,376 | 18,087 | 715 | 710 | 3.7 | 3.8 |
| Service occupations | 14.893 | 15.403 | 1.118 | 969 | 70 | |
| Private household | 855 | 873 | 38 | 43 | 42 | 1 47 |
| Protective service | 1,855 | 1.933 | 75 | 61 | 3.9 | 31 |
| Service, except private household and protective | 12,183 | 12,597 | 1,005 | 865 | 7.6 | 6.4 |
| Precision production, craft, and repair | 13.307 | 13.573 | 970 | 883 | | a1 |
| Mechanics and repairers | 4.511 | 4.597 | 186 | 191 | 40 | 1 20 |
| Construction trades | 4,758 | 4.843 | 546 | 498 | 10.3 | 93 |
| Other precision production, craft, and repair | 4,038 | 4,133 | 238 | 194 | 5.6 | 4.5 |
| Operators, fabricators, and laborers | 17,278 | 17.949 | 1.889 | 1 632 | | |
| Machine operators, assemblers, and inspectors | 7,996 | 6.428 | 706 | 855 | 81 | 2.2 |
| Transportation and material moving occupations | 4,673 | 4,768 | 440 | 354 | 6.6 | 6.6 |
| Handlers, equipment cleaners, helpers, and laborers | 4,610 | 4,754 | 742 | 622 | 13.9 | 11.6 |
| Construction laborers | 681 | 707 | 227 | 195 | 25.0 | 21.6 |
| Other handlers, equipment cleaners, helpers, and laborers | 3,929 | 4,048 | 515 | 428 | 11.6 | 9.6 |
| Ferming, forestry, and fishing | 3,012 | 2,996 | 283 | 258 | 8.6 | 7.9 |

Persons with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total.

Table A-12. Employment status of male Vietnam-era veterans and nonveterane by age, not seasonally adjusted

(Numbers in thousands)

| | av | lian | | | | Civilian ta | bor force | | | | | |
|--------------------------|--------------|---------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|
| Veteran status | noninst | itutional lation | | | | | | Unemp | aloyed | | | |
| end age | | | Total Employed Nu | | Nurr | ter | Perce | int of | | | | |
| | Mar. 1968 | Mar. 1969 | Mar. 1968 | Mar. 1989 | Mar. 1966 | Mar. 1969 | Mar. 1968 | Mar. 1969 | Mar. 1965 | Mar. 1969 | | |
| VIETNAM-ERA VETERANS | | | | | | | | | _ | | | |
| Total, 30 years and over | 7,885 | 7,915 | 7,271 | 7,213 | 6,896 | 6,934 | 375 | 279 | 5.2 | 3.9 | | |
| 30 to 44 years | 6,009 | 5,627 | 5,722 | 5,332 | 5,391 | 5,107 | 331 | 225 | 5.8 | 4.2 | | |
| 30 to 34 years | 766 | 546 | 723 | 501 | 643 | 484 | 80 | 17 | 11.1 | 3.4 | | |
| 35 to 39 years | 2,292 | 1,873 | 2,179 | 1,771 | 2,043 | 1,675 | 136 | 96 | 8.2 | 5.4 | | |
| 40 to 44 years | 2,951 | 3,208 | 2,820 | 3,060 | 2,705 | 2,948 | 115 | 112 | 4.1 | 3.7 | | |
| 45 years and over | 1,876 | 2,288 | 1,549 | 1,881 | 1,505 | 1,827 | 44 | 54 | 2.8 | 2.9 | | |
| NONVETERANS | | | | | | | | | | | | |
| Total, 30 to 44 years | 20,129 | 21,169 | 18,892 | 20,006 | 17.968 | 19,149 | 904 | 859 | 48 | 43 | | |
| 30 to 34 years | 8,991 | 9,297 | 8,470 | 8,830 | 8.024 | 8,439 | 446 | 391 | 5.3 | 44 | | |
| 35 to 39 years | 6,673 | 7.242 | 6.273 | 6.862 | 5,968 | 6.586 | 285 | 276 | 45 | 40 | | |
| 40 to 44 years | 4,465 | 4,630 | 4,149 | 4,316 | 3,976 | 4,124 | 173 | 192 | 42 | 44 | | |

NOTE: Male Visitnam-era veterans are man who served in the Armed Forces between August 5, 1964 and May 7, 1975. Norveterans are men who have never served in the Armed Forces; published data are limited to

•

those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

Table A-13. Employment status of the civilian population for eleven large States

(Numbers in thousands)

| | Not se | secondly adj | usted' | | | , Sessonally adjusted? | | | | |
|--------------------------------------|--------------|--------------|--------------|--------------|--------------|------------------------|--------------|--------------|--------------|--|
| State and employment status | Mar. 1988 | Feb. 1989 | Mar. 1989 | Mar. 1968 | Nov. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | |
| California | | | | | | | | 1 | | |
| Civilian noninstitutional population | 20,752 | 21,016 | 21,037 | 20,752 | 20,951 | 20,973 | 20,994 | 21,016 | 21,037 | |
| Civilian labor force | 13,885 | 14,083 | 14,092 | 13,913 | 14,186 | 14,198 | 14,220 | 14,117 | 14,120 | |
| Employed | 13,149 | 13,309 | 13,434 | 13,196 | 13,451 | 13,524 | 13,505 | 13,405 | 13,480 | |
| Unemployed | 736 | 774 | 657 | 717 | 735 | 674 | 715 | 712 | 640 | |
| | 5.5 | 5.5 | | | 5.2 | | 3.0 | | 4.5 | |
| | | | | | 0.700 | | | | | |
| Chillen lebor force | 9,620 | 9,660 | 9,681 | 6.023 | 6 144 | 9,619 | 9,839 | 9,660 | 9,881 | |
| Employed | 5 765 | 5 702 | 5.871 | 5,776 | 5,823 | 5,755 | 5,793 | 5 762 | 5 880 | |
| Linemployed | 287 | 312 | 290 | 297 | 321 | 330 | 362 | 324 | 299 | |
| Unemployment rate | 4.7 | 5.2 | 4.7 | 4.9 | 5.2 | 5.4 | 5.9 | 5.3 | 4.8 | |
| tilinois | | | | | | | | | | |
| Civilian noninstitutional population | 8,731 | 8,706 | 8,702 | 8,731 | 8,716 | 8,712 | 8,709 | 8,706 | 8,702 | |
| Civilian labor force | 5,652 | 5,903 | 5,894 | 6,736 | 5,844 | 5,817 | 5,637 | 5,978 | 5,983 | |
| Employed | 5,214 | 5,543 | 5,531 | 5,325 | 5,433 | 5,429 | 5,491 | 5,663 | 5,648 | |
| Unemployed | 439 | 359 | 303 | 72 | 70 | 87 | 340 | 313 | 335 | |
| Chemployment rate | 7.0 | 0.1 | | · · - | 1.0 | , | 3.8 | 3.2 | 3.0 | |
| | 4.504 | | 4 500 | 4 504 | 4 500 | 4 500 | 4 500 | 4.676 | 4.505 | |
| Chilles labor force | 3 165 | 3 182 | 3 156 | 3 173 | 3 153 | 3 150 | 9,080 | 9,590 | 4,595 | |
| Employed | 3 052 | 3 038 | 3 028 | 3.078 | 3.032 | 3 043 | 3 063 | 3 094 | 3,051 | |
| Linempioyed | 114 | 124 | 128 | 95 | 121 | 107 | 103 | 111 | 109 | |
| Unemployment rate | 3.6 | 3.9 | 4.1 | 3.0 | 3.8 | 3.4 | 3.3 | 3.5 | 3.4 | |
| Michigan | | | | | | | | | | |
| Civilian noninstitutional population | 6,999 | 7,075 | 7,081 | 6,999 | 7,057 | 7,063 | 7,069 | 7,075 | 7,081 | |
| Civilian tabor force | 4,463 | 4,612 | 4,568 | 4,516 | 4,652 | 4,648 | 4,687 | 4,668 | 4,620 | |
| Employed | 4,077 | 4,300 | 4,243 | 4,145 | 4,310 | 4,306 | 4,364 | 4,382 | 4,316 | |
| Unemployed | 386 | 312 | 324 | 367 | 342 | 342 | 323 | 286 | 304 | |
| | 8.0 | 0.0 | 7.1 | 0.1 | 7.4 | <i></i> • | 6.9 | 6.1 | 6.6 | |
| New Jersey | | | | | | | | | | |
| Civilian noninstitutional population | 6,028 | 6,053 | 6,055 | 6,028 | 5,048 | 6,050 | 6,051 | 6,053 | 6,055 | |
| | 3,8/0 | 3,051 | 3 867 | 3,801 | 3,870 | 2,043 | 2,040 | 3,043 | 4,010 | |
| Linempioyed | 173 | 180 | 136 | 156 | 157 | 168 | 158 | 159 | 120 | |
| Unemployment rate | 4.4 | 4.5 | 3.4 | 3.9 | 3.9 | 4.2 | 3.9 | 3.9 | 3.0 | |
| New York | | | | | | | | | | |
| Civilian noninstitutional population | 13,789 | 13,807 | 13,606 | 13,769 | 13,807 | 13,807 | 13,806 | 13,807 | 13,806 | |
| Civilian labor force | 8,438 | 8,624 | 8,491 | 8,491 | 8,560 | 8,580 | 8,621 | 8,701 | 8,540 | |
| Employed | 6,076 | 8,152 | 8,099 | 8,155 | 6,177 | 6,177 | 8,198 | 8,258 | 8,173 | |
| Unemployed | 363 4.3 | 473 5.5 | 392 4.6 | 336 4.0 | 383 | 403 | 423 | 443 5.1 | 367 4.3 | |
| North Carolina | | | | | | | | | | |
| Civilian coninstitutional population | 4,681 | 4,975 | 4,983 | 4,881 | 4,951 | 4,959 | 4,967 | 4,975 | 4,983 | |
| Civilian labor force | 3,276 | 3,381 | 3,379 | 3,310 | 3,386 | 3,371 | 3,435 | 3,390 | 3,415 | |
| Employed | 3,147 | 3,205 | 3,209 | 3,186 | 3,206 | 3,254 | 3,302 | 3,283 | 3,311 | |
| Unemployment rate | 4.0 | 3.7 | 3.2 | 3.7 | 3.5 | 3.5 | 3.9 | 3.2 | 3.0 | |
| Ohio | | | | | | | | | | |
| Civilian noninstitutional population | 8,221 | 8,292 | 8,298 | 8,221 | 8,276 | 6,281 | 8,286 | 8,292 | 8,298 | |
| Emological | 4 898 | 5,067 | 5.06A | 4,974 | 5.059 | 5,060 | 5,920 | 5,432 | 5,428 | |
| Unampioved | 418 | 317 | 307 | 395 | 307 | 295 | 332 | 280 | 284 | |
| Unemployment rate | 7.9 | 5.9 | 5.7 | 7,4 | 5.7 | 5.5 | 6.1 | 5.2 | 5.2 | |
| | | | | | | | | I | | |

See footnotes at end of table.

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Table A-13. Employment status of the civilian population for eleven large States-Continued

• . •

(Numbers in thousands)

| | Not seesonally adjusted' Seesonal | | | | | Sensorially adjusted | | | | | |
|---|-----------------------------------|--------|--------|--------|--------|----------------------|--------|--------|--------|--|--|
| State and employment statue | Mar. | Feb. | Mar. | Mar. | Nov. | Dec. | Jan. | Feb. | Mer. | | |
| | 1966 | 1969 | 1989 | 1965 | 1988 | 1966 | 1989 | 1989 | 1969 | | |
| Penneytvania | | | | | | • | | | | | |
| Civilian noninstructorial population | 9,349 | 9,409 | 9,413 | 9,349 | 9,396 | 9,400 | 9,404 | 9,409 | 9,413 | | |
| | 5,639 | 5,814 | 5,892 | 5,758 | 5,779 | 5,816 | 5,947 | 5,932 | 6,012 | | |
| | 5,324 | 5,533 | 5,642 | 5,459 | 5,510 | 5,543 | 5,689 | 5,679 | 5,778 | | |
| | 315 | 281 | 250 | 259 | 259 | 273 | 258 | 253 | 234 | | |
| | 5,6 | 4,8 | 4.2 | 5.2 | 4.7 | 4,7 | 4,3 | 4,3 | 3,9 | | |
| Cviten noninstitution gopulation Cviten labor force Employed Unemployed | 12,014 | 11,994 | 11,991 | 12,014 | 12,003 | 12,000 | 11,997 | 11,994 | 11,991 | | |
| | 8,139 | 8,150 | 8,160 | 8,254 | 8,308 | 8,284 | 8,303 | 8,254 | 6,283 | | |
| | 7,467 | 7,556 | 7,642 | 7,605 | 7,725 | 7,693 | 7,713 | 7,703 | 7,786 | | |
| | 672 | 594 | 518 | 649 | 583 | 591 | 590 | 551 | 496 | | |
| | 8,3 | 7.3 | 8,3 | 7,9 | 7.0 | 7.1 | 7,1 | 6.7 | 6.0 | | |

¹ These are the official Bureau of Labor Statistics' estimates used in the administration of Federal fund allocation programs.
² The population figures are not adjusted for sessonal variation; therefore,

,

identical numbers appear in the unadjusted and the seasonally adjusted columns.

HOUSEHOLD DATA

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Table A-14. Persons not in the labor force by reason, sex, and race, quarterly averages

(in thousands)

| Reson. ser, and race 1980< | | Not see adju | eonally ited | | djusted | | | |
|---|---|-----------------|-----------------|--------|---------|---------|--------|--------|
| TOTAL I I II III IV I Total not in state fore 64,07 65,886 62,822 57,400 75,800 62,825 57,400 75,800 62,825 62,825 62,805 <td< th=""><th>Reeson, sex, and race</th><th>1988</th><th>1989</th><th></th><th>195</th><th>86</th><th></th><th>1969</th></td<> | Reeson, sex, and race | 1988 | 1989 | | 195 | 86 | | 1969 |
| TOTAL Construction Construction <thconstruction< th=""> Construction</thconstruction<> | | | | | | | M | |
| TotAL 64.087 63.689 62.022 63.077 62.669 62.022 63.077 62.669 62.022 63.077 62.669 62.022 63.077 62.669 62.022 63.077 62.669 62.022 63.022 67.740 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 57.741 </td <td></td> <td></td> <td></td> <td> ' </td> <td></td> <td>14</td> <td>I¥</td> <td></td> | | | | ' | | 14 | I¥ | |
| Total not in sbor force 64,087 05,089 05,087 05,089 05,087 05,082 05,087 05,082 05,087 05,082 05,087 05,082 05,087 05,082 05,087 05,082 05,087 05,082 <th0,083< th=""> 05,082 <th0,083< th=""></th0,083<></th0,083<> | TOTAL | | | | | 42.050 | en oet | 83 483 |
| Do not want is bb now 56,442 56,250 57,480 57,850 56,222 57,480 57,850 56,222 57,480 57,850 56,222 57,480 57,850 56,222 57,480 57,850 56,222 57,480 57,850 56,222 57,480 56,232 57,250 55,230 52,230 22,331 24,586 24,585 24,585 24,585 24,585 24,585 24,585 4,585 17,251 17,175 4,585 4,585 1,585 | Total not in labor force | 64,087 | 63,698 | 02,922 | 63,037 | 02,808 | 02,000 | 02,402 |
| Current schwir Gong to school 6,012 6,012 6,023 6,230 7,230 7,230 7,230 7,230 1,230 1,32 | Do not want a job now | 58,442 | 58,250 | 57,490 | 57,630 | 58,202 | 57,491 | 57,310 |
| II. disabled 4.329 (Regray forus | Current activity: Going to school | 8,012 | 8,035 | 6,350 | 6,329 | 1,022 | 0,229 | 0,300 |
| Keeping house 23,277 23,584 62,377 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,375 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,775 62,683 62,777 62,833 77,770 77,770 77,770 77,777 | III, disabled | 4,329 | 4,550 | 4,292 | 4,482 | 4,403 | 4,730 | 4,020 |
| Rettred 18,783 17,893 16,283 17,893 16,283 17,823 17,813 | Keeping house | 25,277 | 24,544 | 20,304 | 20,338 | 10 0 25 | 17 261 | 17 170 |
| Other activity 4,027 4,027 4,027 4,027 4,027 4,027 4,027 4,028 4,017 4,027 4,028 4,017 4,027 5,218 5,217 5,218 5,217 5,218 5,217 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 5,218 1,228 1,128 1,125 1,126 1,125 1,126 1,125 1,126 1,250 1,250 1,250 1,260 1,262 1,262 1,262 1,262 1,262 1,262 1,262 1,262 1,261 1,262 1,261 1,261 1,261 | Retired | 16,798 | 17,089 | 10,009 | 10,/8/ | 4 571 | 4 693 | 4 688 |
| Wart is job now 5.448 5.448 5.444 5.448 5.478 | Other activity | 4,027 | 4,032 | 4,675 | 4,003 | 4,071 | 4,000 | 4,000 |
| Wart is po flow 1.558 1.465 1.227 1.288 1.387 1.412 1.217 Resson not locking: 1.101 1.102 1.102 1.125 1. | | 5 645 | 5 448 | 5.484 | 5.318 | 5.276 | 5,418 | 5,313 |
| Resson for locking: Strike all all types 100 1176 1178 1183 1200 <th1200< th=""> 1200 1200</th1200<> | Want a job now | 1.518 | 1.485 | 1.327 | 1,286 | 1,387 | 1,412 | 1,279 |
| Internet 1,176 1,183 1,120 1,125 1,145 1,177 Their cannot get a job 738 627 607 600 569 567 562 Parsonal factor* 738 623 667 600 569 567 562 Other reasons* 1,053 1,025 1,125 1,076 1,026 1,180 1,080 Iden 1,053 1,025 1,125 1,076 1,026 1,180 1,080 Do not warts is bo now 19,602 19,870 19,012 16,888 19,100 19,085 1,985 <td>Reason not locking: School attendance</td> <td>800</td> <td>859</td> <td>849</td> <td>832</td> <td>794</td> <td>750</td> <td>910</td> | Reason not locking: School attendance | 800 | 859 | 849 | 832 | 794 | 750 | 910 |
| More respond respond per spin 1000 141 900 914 941 951 655 Dohmster respond 1000 381 316 322 314 341 354 328 Demote respond 10000 100000 100000 1000000 | iii hearn, cracossibilities | 1.176 | 1.158 | 1,193 | 1,209 | 1,128 | 1,145 | 1,177 |
| Instruct primer Trais 381 Trais 381 <thtrais 381</thtrais | Think response out a job | 1.099 | 941 | 990 | 914 | 941 | 951 | 855 |
| Participant listener* 381 316 322 314 341 354 283 Other ressons* 1,025 1,125 1,076 1,026 1,169 1,069 Men 21,829 21,859 20,856 20,856 20,856 20,825 21,064 20,861 Do not waint a job now 2,026 1,869 1,800 18,002 18,070 19,012 16,888 19,100 18,082 19,085 Want a job now 2,026 1,889 1,820 1,885 1,846 414 446 440 Total not in labor force 324 451 442 431 422 437 446 440 Other ressons* 433 451 442 431 423 445 440 440 446 440 44 | inh merical factors' | 738 | 623 | 667 | 600 | 599 | 597 | 562 |
| Driver 1,053 1,025 1,125 1,076 1,026 1,106 1,063 Meen 21,629 21,659 20,856 20,856 20,856 20,826 21,084 20,861 Do not want a job now 19,002 19,607 19,012 18,888 16,100 19,062 19,865 | Job-market factors | 361 | 318 | 323 | 314 | 341 | 354 | 293 |
| Liter Liter <thliter< th=""> Liter <thl< td=""><td>Other (1990003)</td><td>1.053</td><td>1.025</td><td>1,125</td><td>1,076</td><td>1,026</td><td>1,160</td><td>1,093</td></thl<></thliter<> | Other (1990003) | 1.053 | 1.025 | 1,125 | 1,076 | 1,026 | 1,160 | 1,093 |
| Total not in labor force 21,629 21,659 20,856 20,856 20,856 20,856 21,084 20,861 Do not want a job now 19,602 19,670 19,012 18,888 19,100 19,062 19,685 1,985 <td< td=""><td>Non</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | Non | | | | | | | |
| Do not want a job now 19,002 19,070 19,012 19,888 16,100 19,062 19,888 Wart a job now 2,026 1,989 1,986 1,889 1,980 1,985 1,946 Reason not looking: School attendance 379 371 410 377 470 351 420 Thank carnot get a job 448 443 444 447 444 447 448 447 448 447 448 447 448 448 447 448 449 447 448 447 448 447 448 447 448 447 448 447 448 447 448 449 447 448 449 447 448 449 447 448 449 447 447 448 449 447 448 449 447 448 449 447 448 42,035 42,150 42,035 42,151 42,035 42,152 441,521 11,77 448 <t< td=""><td>Total not in labor force</td><td>21,629</td><td>21,659</td><td>20,866</td><td>20,858</td><td>20,926</td><td>21,084</td><td>20,861</td></t<> | Total not in labor force | 21,629 | 21,659 | 20,866 | 20,858 | 20,926 | 21,084 | 20,861 |
| Warit a job now 2.026 Reason not looking: School attendance 1.986 756 756 756 756 756 756 756 756 756 75 | Do not want a job now | 19,602 | 19,670 | 19,012 | 16,888 | 19,100 | 19,062 | 19,085 |
| Wart a job now 2023 1,853 1,855 1,877 1,857 1,877 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,855 1,776 1,850 1,677 1,855 1,785 1,857 1,856 1,785 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 1,857 1,856 3,812 | | | 4.000 | 1 044 | 1 880 | 1920 | 1 095 | 1 048 |
| Reason not looking: School attendance 258 375 440 444 447 446 410 Warnen 483 451 440 444 447 446 410 Warnen 433 451 442 431 442 447 446 410 Warnen 433 451 442 431 425 473 448 Warnen 38,400 38,560 38,473 38,742 39,103 38,423 33,257 Went a job now 38,840 38,550 35,18 3,453 3,258 3,433 3,337 460 411 41,621 42,035 41,781 41,821 42,93 1,338 3,433 3,3287 3,433 3,3287 446 444 447 446 441 447 44,843 1,133 1,209 1,128 1,135 1,209 1,128 1,135 1,209 1,128 1,145 1,177 1,177 1,176 1,145 1,177 1,176 1,176 <td>Want a job now</td> <td>2,020</td> <td>710</td> <td>854</td> <td>677</td> <td>669</td> <td>716</td> <td>632</td> | Want a job now | 2,020 | 710 | 854 | 677 | 669 | 716 | 632 |
| B nearth, dealbery, Think cannol get i (b) 258 (43) 453 (451 462 (452 473 (451 447 (452 447 (473) 446 (473) 447 (475) 446 (476) Women 433 451 462 431 427 446 470 Total not in labor force 42,458 42,039 42,056 42,180 42,035 41,781 41,621 Do not wart a job now 38,840 38,550 38,479 38,742 39,103 38,428 39,225 Went a job now 3,618 3,459 3,518 3,429 3,356 3,433 3,387 Reason not looking: School attendance 782 756 673 609 718 607 641 Home responsibilitie 1,176 1,183 1,183 1,209 1,128 1,145 1,177 Think cannot get a job 620 551 500 48,727 49,831 48,280 Ob not want a job now 50,398 53,985 53,517 53,493 53,447 53,825 52,980 | Reason not looking: School attendance | 730 | 275 | 410 | 367 | 379 | 351 | 420 |
| Think cannot get a job 433 461 462 431 425 473 484 Women 42,458 42,009 42,056 42,160 42,035 41,781 41,821 Do not want a job now 38,840 38,560 38,472 38,103 38,428 38,225 Went a job now 38,840 38,550 38,472 33,103 38,428 33,256 3,433 3,327 Heath, diability 431 444 433 4,265 1228 1,285 1,176 1,165 1,278 1,285 1,177 1,468 1,177 1,156 1,259 1,285 1,177 1,455 1,177 1,455 1,177 1,475 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 1,455 1,177 | D health, disability | 488 | 459 | 440 | 414 | 447 | 446 | 410 |
| Women 42,458 42,039 42,056 42,180 42,035 41,781 41,621 Do not want a job now 38,840 38,550 38,479 38,742 39,103 38,428 38,225 Went a job now 38,640 36,550 38,479 38,742 39,103 38,428 38,225 Went a job now 3,618 3,459 3,518 3,429 3,356 3,433 3,387 Reason not tooking: School attendance 762 756 673 609 718 607 641 Home responsibilitie 1,176 1,183 1,182 1,209 1,125 1,145 1,177 Think cannot get a job 620 574 665 645 601 688 609 White 1050 1077 3,687 49,723 49,381 48,280 00 911 88,54 48,723 49,381 48,280 Do not want a job now 50,394 50,118 49,547 49,651 48,723 49,381 | Think cannot get a job | 433 | 451 | 462 | 431 | 425 | 473 | 484 |
| Total not in labor force 42,458 42,059 42,059 42,180 42,035 41,781 41,821 Do not want a job now 38,840 38,560 38,478 38,742 39,103 38,428 38,225 Went a job now 3,818 3,459 3,518 3,429 3,356 3,433 3,357 Resson not looking: School ettendance 782 758 673 609 715 697 649 Home responsibilities 1,176 1,158 1,182 1,285 1,295 1,228 1,345 <t< th=""><th>· Women</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | · Women | | | | | | | |
| Do not want a job now 38,840 38,890 38,478 38,742 39,103 38,428 38,225 Want a job now 3,618 3,459 3,518 3,459 3,518 3,429 33,556 3,433 3,357 Reason not tooking: School attendance 721 726 773 607 603 607 608 600 608 600 608 600 608 600 608 600 607 607 600 607 600 | Total not in labor force | 42,458 | 42,039 | 42,058 | 42,180 | 42,035 | 41,781 | 41,621 |
| Want a job now 3.818 (1) heath, disblin) 3.618 (2) 3.518 (2) 3.629 (2) 3.518 (2) 3.620 (2) 3.636 (2) 3.420 (2) 3.420 (2) 3.420 (2) 3.433 (2) 3.431 (2) 3.420 (2) 3.420 (2) 3.420 (2) 3.433 (2) 3.433 (2) 3.420 (2) 3.420 (2) 3.420 (2) 3.433 (2) 3.420 (2) 3.420 (2) 3.433 (2) 3.420 (2) 3.433 (2) 3.420 (2) 3.433 (2) 3.420 (2) 3.433 (2) 3.420 (2) 3.433 (2) 3.445 (2) 3.433 (2) 3.445 (2) 3.445 (2) 3.445 (2) 3.445 (2) 3.447 (2) 3.345 (2) 4.457 (2) 4.453 (2) 4.457 (2) 4.433 (2) 4.457 (2) 4.45 | Do not want a job now | 38,840 | 38,580 | 38,478 | 38,742 | 39,103 | 38,428 | 38,225 |
| Went a po now 722 725 773 709 718 667 717 717 717 717 717 717 717 717 717 717 717 717 717 717 717 718 657 717 718 657 650 650 650 650 650 650 650 650 650 650 650 < | | 3 618 | 3.459 | 3,518 | 3,429 | 3,356 | 3,433 | 3.367 |
| Heaston hot booking: School attantance e37 e34 e39 e460 e415 3399 e491 Home responsibilities 611 1.176 1.193 1.200 1.145 1.145 Tink carnot get a job 620 574 663 645 601 688 609 White Converting 53,985 53,517 53,493 53,447 53,325 52,280 Do not want a job now 50,394 50,118 49,557 49,651 49,728 49,381 49,280 Want a job now 50,394 50,118 49,577 49,651 49,728 49,381 49,280 Want a job now 50,394 50,118 49,577 49,651 49,728 49,381 49,280 Want a job now 604 633 556 511 770 644 917 908 911 888 Home responsibilities 637 779 848 846 806 828 783 Think cannot get a job 756 | Want a job now | 782 | 756 | 673 | 609 | 718 | 697 | 646 |
| Intermeter 1,176 1,158 1,120 1,128 1,145 1,177 Trunk cannot get a job 611 487 551 500 494 505 456 601 688 609 White 620 574 663 645 601 688 609 White 704 53,985 53,517 53,483 53,447 53,325 52,980 On out want a job now 50,394 50,118 49,547 40,651 49,728 49,381 49,280 Want a job now 40,077 3,887 4012 3,881 49,280 3854 3,944 Reason not looking: School attandance 1,050 779 448 640 638 651 750 Home responsibilies 756 830 817 900 888 821 928 753 Grad not in labor force 7,613 7,630 7,431 7,561 7,497 7,471 7,445 Do not went a job now 6,249 6.259 | Reason not tooking: School antihudated | 431 | 484 | 439 | 466 | 415 | 399 | 491 |
| Total cannot get a job 611 447 551 500 444 505 445 Other reasona 620 574 663 645 601 668 605 White | U negul, usebuly | 1,176 | 1,158 | 1,193 | 1,209 | 1,128 | 1,145 | 1,177 |
| Other resona 620 574 663 645 601 688 609 White Common and the second standards 620 574 663 645 601 688 609 Total not in labor force Solution Solution <td>Thick capool ogt a job</td> <td>611</td> <td>487</td> <td>551</td> <td>500</td> <td>494</td> <td>505</td> <td>445</td> | Thick capool ogt a job | 611 | 487 | 551 | 500 | 494 | 505 | 445 |
| White Subscription | Other ressons | 620 | 574 | 663 | 645 | 601 | 688 | 609 |
| Total not in labor force 54,470 53,985 53,517 53,493 53,447 53,325 52,980 Do not want a job now 50,394 50,118 49,557 49,651 49,728 49,331 49,220 Want a job now 60,394 50,118 49,547 49,651 49,728 49,331 49,220 Want a job now 50,394 50,118 49,547 49,651 49,728 49,331 49,220 Want a job now 5,50 977 954 917 908 911 805 Home responsibilities 837 779 848 846 806 828 783 Think cannot get a job 756 850 817 800 876 7570 Outwant a job now 6,249 6,259 6,115 7,497 7,471 7,445 Do not want a job now 6,249 6,259 6,115 6,340 6,227 6,182 1,315 Reason not looking: School attendance 423 1,337 1,301 1,285 </td <td>With</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | With | | | | | | | |
| Total not in labor force School | | 54.470 | 53,985 | 53,517 | 53,493 | 53,447 | 53,325 | 52,980 |
| Do not want a po now 4,077 3,667 4,012 3,884 3,691 3,854 3,844 Want a job now 1050 977 954 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 917 908 911 805 911 704 818 817 779 848 806 828 783 783 785 830 817 900 888 821 928 892 Utwar a job now 63.249 6.249 6.259 6.115 6.340 6.227 6.182 6.134 Want a job now 13.265 1.371 1.301 1.287 1.315 1.287 1.315 1.287 1.315 | | 50.394 | 50.118 | 49.547 | 49,651 | 49,728 | 49,381 | 49,280 |
| Watt a job now Constrained (abstrained) School attendance (abstrained) 1050 (abstrained) 1077 (abstrained) 008 (abstrained) 911 (abstrained) 908 (abstrained) 911 (abstrained) 908 (abstrained) 911 (abstrained) 908 (abstrained) 911 (abstrained) | Do not want a job now | 4.077 | 3.667 | 4.012 | 3,886 | 3,691 | 3,854 | 3,844 |
| Heattor not count of coun | Wart a jou now | 1.050 | 977 | 954 | 917 | 908 | 911 | 885 |
| Binetic, value, mail Egg 779 546 800 828 763 Home responsibilities 756 550 650 670 596 600 678 590 Other responsibilities 650 817 900 888 621 628 892 Biack 7613 7,630 7,431 7,561 7,497 7,471 7,445 Do not went a job now 6,249 6,259 6,115 6,340 6,227 6,182 6,134 Want a job now 1,385 1,371 1,201 1,257 1,241 1,255 1,315 Reason not looking: School attendance 422 413 346 327 272 305 Horre responsibilities 306 336 336 216 270 228 263 Think cannol get a job 283 254 246 276 200 323 337 336 346 327 272 343 Horesexinoribilities 306 <td< td=""><td>Heeson not tooking: School standarda</td><td>604</td><td>664</td><td>640</td><td>639</td><td>558</td><td>511</td><td>704</td></td<> | Heeson not tooking: School standarda | 604 | 664 | 640 | 639 | 558 | 511 | 704 |
| Total cannot get a bb 756 630 670 596 600 678 570 Other resons 830 817 900 888 621 928 892 Black 7,613 7,630 7,431 7,561 7,497 7,471 7,445 Do not want a job now 6,249 6,259 6,115 6,340 6,227 6,182 6,134 Want a job now 1,285 1,371 1,301 1,287 1,241 1,256 1,315 Heasth, diability 396 339 308 315 270 272 343 Think cannot get a job 225 254 254 254 276 290 325 | Home reconsibilities | 837 | 779 | 848 | 646 | 808 | 828 | 793 |
| Biack 7,613 7,630 7,431 7,561 7,497 7,471 7,445 Do not want a job now 6,249 6,259 6,115 6,340 6,227 6,162 6,115 6,340 6,227 8,182 1,231 7,451 7,451 7,471 7,445 6,115 6,340 6,227 6,182 6,135 1,241 1,255 1,315 1,241 1,255 1,315 363 11,267 1,241 1,259 1,315 326 11,315 1,365 1,371 1,201 1,257 1,241 1,259 1,315 326 11,315 1,267 1,241 1,259 1,315 326 11,315 1,267 1,241 1,259 1,315 326 11,315 326 11,315 326 11,315 326 11,315 326 12,41 12,559 1,315 326 11,315 326 12,41 12,559 1,315 326 12,55 13,55 326 326 326 326 327 326 | Thick second set a job | 758 | 630 | 670 | 596 | 600 | 676 | 570 |
| Black 7,613 7,630 7,431 7,561 7,497 7,471 7,445 Total not in labor force 7,613 7,630 7,431 7,561 7,497 7,471 7,445 Do not want a job now 6,249 6,259 6,115 6,340 6,227 6,182 6,134 Want a job now 1,385 1,371 1,201 1,267 1,241 1,259 1,315 Reason not looking: School attendance 422 413 346 327 316 327 328 324 <td< td=""><td>Other reasons'</td><td>830</td><td>817</td><td>900</td><td>888</td><td>821</td><td>928</td><td>892</td></td<> | Other reasons' | 830 | 817 | 900 | 888 | 821 | 928 | 892 |
| Total not in tabor force 7,613 7,630 7,431 7,581 7,497 7,471 7,445 Do not went a job now 6,249 6,259 6,115 6,340 6,227 6,162 6,134 Wart a job now 1,385 1,371 1,201 1,267 1,241 1,259 1,315 Beason not looking: School standarce 423 413 346 327 316 374 335 If neath, diability 166 169 197 187 270 228 206 308 315 270 212 343 Think cannot get a job 283 254 226 240 253 210 253 Other responsibilities 184 177 185 162 147 197 178 | Black | | | 1 | | | | |
| Do not want a job now 6,249 6,259 6,115 6,340 6,227 6,182 6,134 Want a job now 1,385 1,371 1,301 1,287 1,241 1,259 1,315 Reason not looking: School attendance 423 413 346 327 316 374 335 Ul neath, diability 169 169 197 187 270 226 206 Home responsibilities 336 339 308 315 270 212 343 Think cannot get a job 184 177 185 162 147 197 178 | Total not in labor force | 7,613 | 7,630 | 7,431 | 7,561 | 7,497 | 7,471 | 7,445 |
| Want a job now 1,385 1,371 1.301 1.287 1.241 1.256 1.315 Reason not looking: School attendance 423 413 346 327 316 374 335 Il heatt, disbility 169 169 197 167 217 208 208 Home responsibilities 336 339 308 315 270 212 343 Think cannot get a job 283 254 284 276 200 203 Other reasons ¹ 184 177 185 162 147 197 178 | Do not want a job now | 6,249 | 6.259 | 6,115 | 6,340 | 6,227 | 6,182 | 6,134 |
| Hains por for School attendance 423 413 346 327 316 374 335 Reason not looking: School attendance 169 169 167 217 206 206 III reacht, diabality 306 339 308 315 270 272 343 Home responsibilities 283 254 226 200 203 233 308 315 270 272 343 Think cannot get a job 283 254 284 276 290 210 253 Other responsibilities 184 177 185 162 147 197 178 | Mant a inth none | 1,365 | 1,371 | 1,301 | 1,267 | 1,241 | 1,259 | 1,315 |
| III reach, disability 199 199 197 187 217 208 206 Home responsibilities 306 339 308 315 270 272 343 Think cannot get a job 283 254 284 276 200 200 Other reasons ¹ 184 177 185 162 147 197 178 | Research ont looking: School stlendarce | 423 | 413 | 346 | 327 | 316 | 374 | 335 |
| Home responsibilities 306 339 308 315 270 272 343 Think cannot get a bb 283 254 264 276 290 210 253 Other responsibilities 184 177 185 162 147 197 178 | ill health disability | 169 | 189 | 197 | 187 | 217 | 206 | 206 |
| Think cannot get a job 283 254 284 276 290 210 253 Other reasons 184 177 185 162 147 197 178 | Home responsibilities | 306 | 339 | 308 | 315 | 270 | 272 | 343 |
| Other reasons' | Think cannot get a job | 283 | 254 | 264 | 276 | 290 | 210 | 253 |
| | Other reasons ³ | 184 | 177 | 185 | 162 | 147 | 197 | 178 |

Job-market factors include "could not find job" and "thinks no job available." * Personal factors include "employers think too young or old," "facks

education or training," and "other personal handicap." 1 Includes small number of men not looking for work because of "home responsibilities."

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Table 8-1. Employees on nonspricultural payrolls by industry (In thousands)

| | Rot | 84650Ne | lly adju | sted | Seesonally adjusted | | | | | |
|---|--|---|---|--|---|--|--|--|--|--|
| Industry | Mar. 1988 | Jan. 1989 | Feb. 1989g/ | Har. 1989 <u>8</u> / | Mar. 1988 | Nov. 1988 | Dec. 1988 | Jan. 1989 | Fab.' 1989g/ | Mar. 1989g/ |
| Tetel | 104,161 | 106,531 | 106.942 | 107,621 | 105,020 | 107.419 | 107,641 | 108.065 | 108.345 | 108.525 |
| Total private | 86.490 | 88.979 | 89,034 | \$9,633 | 87,700 | 89,855 | 90.100 | 90,506 | 90,718 | 90.895 |
| Goods_producing industries | 24,812 | 25.422 | 25, 317 | 25,448 | 25,330 | 23,849 | 25,889 | 26.048 | 26,014 | 25,928 |
| Mining Oil and gas extraction | 414.7 | 712 404.4 | 706 400.4 | 713 403.0 | 733 419 | 722 406 | 719 402 | 718 400 | 717 402 | 722 407 |
| Construction General building contractors | 4,787 1,290.6 | 1,351.3 | 4,958 | 1.317.7 | 5,192 1,383 | 5,413 1,406 | 5,430 1,414 | 3, 537 1, 444 | \$,515 1,435 | 1:411 |
| Manufacturing Production workers | 19,502 13,165 | 19,655 13,396 | 19,653 13,402 | 19.695 13,453 | 19,405 13,251 | 19,714 13,465 | 19,740 13,481 | 19,793 13,518 | 19.782 13,511 | 19,800 13,543 |
| Durable goods Production workers | 11.577 7.575 | 11.625 7,749 | 11,611 | 11,636 | 11,411 7,598 | 11.637 7.765 | ¹ ;;;; | 11,686 7,799 | 11.667 7,782 | 11:673 7:791 |
| Lumber and mode products | 734.9 534.4 571.0 774.6 280.5 1,432.9 2,105.4 2,105.5 2,030.9 840.3 704.7 379.9 | 749.4 542.1 571.9 796.5 280.9 1,480.7 12,198.2 12,119.9 12,062.0 863.5 726.7 377.1 | 743.4 545.0 568.9 795.7 1,480.6 2,206.4 2,109.9 2,055.1 455.6 727.2 380.6 | 745.7 543.7 576.9 797.5 280.6 1,482.4 2,214.7 2,104.1 2,104.1 2,057.3 84.3 | 755 534 585 772 281 1,439 2,099 2,115 2,025 705 382 | 767 541 590 796 282 1,474 2,185 2,135 2,135 2,050 721 383 | 771 540 592 794 280 1,479 2,190 2,123 2,051 858 726 385 | 775 540 593 796 281 1,487 2,198 2,118 2,066 872 727 386 | 748 542 593 794 281 1,683 2,204 2,114 2,049 858 728 387 | 766 544 591 794 281 1,689 2,208 2,110 2,051 857 730 387 |
| Nondurable goods Production workers | 7,925 5,590 | 8.030 5.647 | 8,042 5,666 | 8.059 5.686 | 7,994 5,653 | 8,077 5,700 | 8.089 5,705 | 8,107 5,719 | \$;113 \$;729 | 8.130 5.752 |
| Food and kindred products. Tobacco monvfactures Taxiis all products. Paper and alled products. Printing and publishing. Chesicas and alled products. Printing and publishing. Rubber and sitter products | 1,589.6 52.1 728.0 1,104.4 683.8 1,548.4 1,050.2 161.9 861.0 145.3 | 1,612.9 54.4 722.9 1,089.5 688.2 1,596.4 1,074.0 163.5 885.7 143.2 | 1,604.7 52.9 722.8 1,100.9 687.1 1,397.6 1,076.4 163.5 891.8 144.3 | 1,603.6 51.2 722.6 1,105.9 687.6 1,603.5 1,079.6 164.7 894.9 144.9 | 1,647 54 729 1,106 687 1,548 1,052 164 860 147 | 1,661 53 725 1,095 691 1,585 1,075 169 887 144 | 1,656 53 722 1,096 692 1,592 1,076 168 890 144 | 1,663 52 727 1,097 692 1,598 1,080 166 887 | 1,659 53 725 1,102 691 1,598 1,082 167 892 146 | 1,662 53 724 1,107 691 1,604 1,622 167 894 |
| Service-producing industries | 79,349 | 81,109 | \$1,625 | 82.173 | 79.690 | \$1,570 | \$1.752 | \$2.017 | 82,331 | \$2,537 |
| Transportation and public utilities Transportation Communication and public utilities | 5,473 3,239 2,234 | 5,629 3,389 2,240 | 5,636 3,396 2,240 | 5.638 3.397 2.241 | 5,530 3,285 2,245 | 5,638 3,407 2,251 | 5.670 3.422 2,248 | 5,692 3,441 2,251 | 5,706 3,455 2,251 | 5,697 3,445 2,252 |
| Wholesale trade Durable goods Nondurable goods | 6,016 3,573 2,443 | 6,285 3,777 2,508 | 6,304 3,793 2,511 | 6,334 5,812 2,522 | 6,061 3,591 2,470 | 6,275 3,758 2,517 | 6,301 3,779 2,522 | 6,352 3,796 2,536 | 6.360 3.816 2.544 | 6,385 3,335 2,550 |
| Ratail trade | 18,612 2,436.0 3,001.3 2,034.1 6,142.5 | 19,263 2,626.6 3,175.6 2,086.1 6,168.7 | 19,085 2,487.9 3.162.0 2,086.3 6,213.5 | 19,233 2,493.4 3,169.3 2,093.0 6,338.0 | 19,050 2,543 3,044 2,055 6,319 | 19,401 2,533 3,157 2,106 6,440 | 19,429 2,541 3,177 2,106 6,449 | 19.356 2.563 3,195 2,109 6,466 | 19,615 2,570 3,197 2,116 6,493 | 19,691 2,603 3,214 2,114 6,516 |
| Finance, insurance, and real estate Finance. Insurance. Real estate. | 6.599 3.295 2.058 1.248 | 6.679 3.313 2.094 1.272 | 6,687 3,313 2,100 1,274 | 6,705 3,319 2,101 1,285 | 6,651 3,306 2,060 1,285 | 6,725 3.314 2,092 1,319 | 6,741 3,325 2,101 1,315 | 6.733 3,320 2,096 1,317 | 6.755 5,330 2,102 1,523 | 6,758 3,332 2,103 1,323 |
| Services Business services | 24,978 5,345.4 7,081.4 | 25,701 5,499.0 7,478.6 | 26,005 5.520.9 7,522.7 | 26,270 5,555.1 7,582.4 | 23.078 5.405 7,088 | 21,947 5,563 7,414 | 26.070 5.605 7.466 | 26,145 5,583 7,494 | 26,268 5,622 7,545 | 26.376 5.617 7.598 |
| Government. Federal. Stata. Leesl. | 17,671 2,964 6,140 10,567 | 17,552 2,960 4,035 10,557 | 17,908 2,969 4,177 10,762 | 17,988 2,978 4,192 10,818 | 17,320 2,970 4,031 10,319 | 17,564 2,989 4,074 10,501 | 17,541 2,990 4,071 10,480 | 17.559 2.981 4.062 10,515 | 17.627 2.987 4,079 10,561 | 17.630 2.984 4.032 10.564 |

p * preliminary.

PSTABITSHNFUT DATA

Table 8-2. Average weakly hours of production or nonsupervisory workersly on private nonagricultural payrolls by industry Not sessonally adjusted Seesonally adjusted Industry Nor. 1989g/ Her. 1989e/ Nov. 1988 Dec. 1928 Jan. 1989 Fab. 1989g/ Her. 1988 Jan. Feb. Her. 1988 34.8 34.7 34.8 34.6 54.6 34.4 34.3 34.6 Total private..... 34.4 34 5 42.1 41.9 42.0 (2) (2) (2) (2) (2) (2) Hining..... 41.9 37.4 (2) (2) (2) (2) (2) (2) 37.4 36.4 36.1 Construction..... 40.8 41.1 41.1 40.9 49.9 41.2 Hanufacturing..... 40.9 41.0 40.8 48.9 41.7 41.5 41.9 41.5 41.8 41.7 41.6 Durable goods.... 41.6 41.7 41.5 4.0

 •.1

 40.3

 40.1

 42.6

 43.6

 44.9

 42.5

 40.4

 42.5

 40.4

 42.5

 40.4

 42.5

 42.5

 43.3

 41.6

 39.4

 Desrita hours Lucker and and fictures. Stone clay, and disc products. Friesry sets industries Blast furnaces and batic stoal products Blast furnaces and batic stoal products Rectings and alectronic equipment. Transportstion equipment. Return ale related products Hiscallaneous manufacturing. 39.7 39.9 43.6 44.6 41.5 44.6 40.2 44.3 44.3 45.3 41.1 39.3 40.1 39.3 42.3 43.7 442.9 442.4 442.4 442.4 4 42.4 4 39.2 40.3 39.2 42.4 43.7 41.7 42.3 40.4 42.9 42.9 38.9 39.5 39.9 42.3 43.7 41.5 43.0 43.7 43.0 43.7 43.5 9 43.5 4 43.7 5 4 39.9 40.2 42.3 44.1 41.6 42.6 42.6 42.6 42.8 43.6 43.6 39.3 39.6 39.3 43.7 44.9 42.6 41.9 42.6 41.9 42.7 43.6 59.2 39.0 39.3 41.1 43.6 43.7 41.5 42.6 43.8 43.8 43.8 41.4 39.2 39.9 59.0 43.7 41.7 442.9 442.0 442.0 439.0 39.9 3.6 48.2 3.7 39.9 3.5 40.1 3.6 40.2 40.1 40.0 Nendurable goods..... Overtime hours..... 40.0 40.0 59.8 3.5 40_6 (2) 41.0 37.0 43.1 37.8 42.4 (2) 41.7 37.3 40.5 (2) 40.5 36.6 43.1 37.7 42.3 (2) 41.2 37.7 40.1 (2) 40.9 37.0 43.1 38.0 42.4 (2) 41.7 38.3 40.3 (2) 40.7 57.2 43.2 38.0 42.4 (2) 41.7 38.8 Uvertime neural Food and Kindred products. Tobacco menufectures. Taxtile mill products. Appare and and other taxtile products. Paper and a deal information. Chamicals and selled products. Attroisum and così products. Rubber and size, plastica products. Leakter and leather products. 40.1 (2) 41.2 37.0 43.2 38.1 42.5 (2) 41.7 37.9 39.6 39.3 41.0 37.0 42.9 38.2 42.5 43.7 41.7 37.4 40.0 38.0 40.7 36.7 43.2 57.7 42.4 43.5 41.8 37.9 39,8 40.8 40.8 42.8 42.8 42.0 43.6 43.6 41.6 37.4 40.3 (2) 41.0 36.8 43.1 38.0 42.2 (2) 41.6 37.9 39.6 37.8 40.5 42.9 42.7 42.1 41.5 441.5 37.8 39.4 39.7 39.1 39.0 38.8 39.2 39.2 Transportation and public utilities..... 38.6 39.5 38.9 38.0 29.2 (2) 38.1 29.1 (2) 58.0 29:0 (2) 38.1 38.0 38.0 37.8 37.9 37.9 37.7 Wholewale trade..... 28.9 28.6 Retail trade..... 28.4 28.3 28.4 29.0 28.8 36.1 35.8 (2) (2) (2) Finance, insurance, and real estate...... 35.8 35.8 32.3 32.6 32.8 32.5 32.4 32.6 12 4 32.6 32.4 Services 32.3

¹ Bets relates to production worksow in minings and more relation to a production worksow in action relation and nonsupervisory worksow in transportation and public utilities worksomels and retain it transport incomes for approximative formation of the total context for approximative formation total context on private memory intervisor in total context on private memory intervisor in total context on private memory intervisor.

ESTABLISHMENT DATA

27 These series are not published scesonally adjusted since the seasonal component is small relative to the trand-cycle and/or irrepular components and consequently connot be sceer rated with sufficient precision. p = preliminery.

ESTABLISHMENT DATA

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Table 5-5. Average hourly and weakly earnings of production or nonsupervisory workersl/ on private nonspriculturel payrolls by industry

| | Ave | rege hou | rly earn | ings | Average weekly earnings | | | | |
|--|--|--|--|---|---|--|--|---|--|
| Industry | Mar. 1988 | Jan. 1989 | Feb. 1989g/ | Mar. 1989 <u>e</u> / | Mar. 1988 | Mar. Jan. 1988 1989 | | Mar. 1989g- | |
| Total privata | 49.18 - 9.16 | \$9.54 9.49 | \$9.54 9.50 | \$9.56 9.54 | #315.79 316.94 | +329.13 330.25 | + 327 . 22 328 . 70 | +328.86 330.08 | |
| Mining | 12.59 | 13.14 | 13.18 | 13.10 | 527.52 | 553.19 | 552.24 | 558.20 | |
| Construction | 12.87 | 13.22 | 13.17 | 13.26 | 481.34 | 441.21 | 675.44 | 495 92 | |
| Manufacturing | 10.07 | 10.37 | 10.37 | 10.40 | 411.86 | 425.17 | 423.10 | 425.36 | |
| Durable goods Furniture and mod products Furniture and firtures. Stons. clay, and class products. Fisary setal industries. Blact furneces and basic steel products. Machinery exceep folestical Fiscarical and alectronic equipment. Transportation equipment. Motor vehicles and exciment. Instruments and related products. Miscalleneous sanufacturing Mondurable goods. Food and kindred products. Tobacco manufactures. Tatlia till products. Feper and silied products. Perplage and silied products. Perplage and silied products. Perplage and silied products. Rubbar and ale. plastics products. Rubbar and ale. plastics products. | $\begin{array}{c} 10.59\\ 8.45\\ 7.76\\ 10.36\\ 12.07\\ 13.89\\ 10.14\\ 10.64\\ 10.64\\ 10.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 13.20\\ 10.44\\ 13.20\\ 10.44\\ 13.20\\ 10.45\\ 12.53\\ 14.98\\ 12.53\\ 14.98\\ 9.23\\ 14.98\\ 9.23\\ 14.98\\ 12.53\\ 14.98\\$ | 10.89 8.70 8.08 10.60 12.28 14.04 10.14 10.62 13.62 14.27 10.09 8.19 9.61 9.28 14.28 7.20 6.29 12.86 15.51 12.86 15.51 12.86 15.51 | 10.90 8.67 8.06 10.63 12.28 14.13 10.44 11.18 10.25 14.25 10.11 8.20 9.62 9.28 9.28 9.28 14.62 7.60 6.180 10.75 12.89 15.55 9.55 | 10.93 8.72 8.09 10.63 12.28 14.13 10.30 11.21 10.30 11.21 10.30 10.17 8.18 9.65 9.51 15.22 9.51 15.22 9.51 15.22 9.51 15.22 9.51 13.62 9.53 | 440.54 337.14 332.64 435.12 523.84 452.87 410.66 584.00 588.99 411.01 510.07 535.17 556.71 229.71 229.71 235.11 439.19 552.55 512.55 512.55 656.63 575.300 | 454, 11 344, 52 317, 54 439, 90 536, 64 417, 76 421, 776 421, 776 | 452, 35 314, 13 514, 74 433, 14 532, 75 532, 75 532, 75 532, 75 532, 75 532, 74 413, 55 321, 44 347, 49 532, 44 532, 44 532, 44 537, 46 231, 73 556, 22 405, 74 555, 755, 755, 755, 755, 755, 755, 755, | 455,78 346,18 322,79 446,46 535,41 623,92 434,30 476,43 418,18 530,98 417,99 321,47 335,04 536,01 370,54 534,01 310,08 232,21 536,32 2410,78 543,65 543,65 543,65 543,65 543,22 244,22 | |
| Transportation and public utilities | 12.19 | 12.47 | 12.50 | 12.48 | 470.53 | 490.07 | 486.25 | 486.72 | |
| Wholesale trade | 9.78 | 10.21 | 10.21 | 10.21 | 370.66 | 386.96 | 384.92 | 585.94 | |
| Retail trade | 6.24 | 6.47 | 6.46 | 6.46 | 178.46 | 183.75 | 182.82 | 183.46 | |
| Finance, insurance, and real estate | 8.97 | 9.46 | 9.46 | 9.47 | 321.13 | 341.51 | 338.67 | 339.03 | |
| Services | 8.80 | 9.24 | 9.25 | 9.27 | 284.24 | 301.ZZ | 299.70 | 299.42 | |

1/ See footnote 1, table 8-2.

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p = preliminary.

Table 3-4. Average hourly earnings of production or nonsupervisory workers/ on private nonspricultural payrolls by industry, seasonally edjusted

| Industry | Mar. 1988 | Nev. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989g/ | Mar. 1989g/ | Percent change from: Feb. 1989- Mar. 1989 |
|--|--|--|--|---|---|--|--|
| Total private: Current dollars. Construction Manufacturing. Excluding overtised. Texeluding overtised. Texeluding overtised. Texeluding the public utilities Retail trade. Finance, insurance, and real estate Services. | #9.14 4.83 12.90 10.05 9.61 12.21 9.66 6.22 8.90 8.75 | \$9.42 4.82 13.01 10.29 9.83 12.37 10.04 6.42 9.26 9.04 | \$9.45 4.82 13.09 10.31 9.84 12.36 10.08 6.42 9.37 9.09 | \$9.49 4.81 15.14 10.32 9.86 12.46 10.18 6.43 9.41 -9.14 | ¢9.50 4,80 13.18 10.35 9.87 12,45 10.15 6.43 9.16 | \$9.54 N.A. \$13.29 10.38 9.91 12.51 10.19 6.44 9.39 9.21 | 0.4 (4) .8 .3 .4 .5 .4 .5 .5 .5 |

1/ See footnote 1, table 8-2. 2/ Includes mining, not shown expansioly, because its seasonal reponent is too small to be separated out with sufficient

4/ Change was -0.2 percent from January to February 1988, the baset month available. (3/ Derived by assuming that overtime hours are paid at the rate of time and one-halt. N.A. = not evaluable. (9' - proteininary.)

component is too small to be separated out with sufficient precision. J/ The Consumer Price Index for Urban Wage Eamers and Clerical Workers (CPI-W) is used to definite this series.

ESTABLISHMENT DATA

Table 3-5. Indexes of approache weakly hours of production or nonsupervisory workers]/ on private nonspricultural payrells by industry (1977-100)

Seasonally adjusted Not sessonally adjusted Industry Mar. 1989g/ Feb. 1989g/ Feb. 1989g/ Mar. 1989g/ Mar. Nov. 1988 1988 Jan. 1989 Mar. Jan. Dec. 1988 121.0 124.5 123.9 125.2 123.6 127.1 127.2 128.3 127.8 127.9 Total private..... 101.6 104.5 103.5 104.4 104.2 104.2 98.6 100.6 99.5 101.2 de-producing industries..... 83.2 80.9 81.2 80.4 81.2 82.2 81.1 80.1 79.D 79.9 Mining..... 130.0 139.1 147.5 144.6 146.3 145.4 145.6 Construction..... 124.3 127.6 123.3 95.2 97.2 96.6 97.4 97.3 97.3 96.6 94.5 96.3 95.8 Henufacturing..... Indifecturing. Jumber and weed products. Jumber and text products. Stone, clay, and slass products. Finary wastal industries, taking products. Blast furneces and basis steel products. Blast furneces and basis steel products. Biotherry access to exclanate the second Rectinery access to exclanate the second Motor validles and results and the second Miscollaneous manifecturing. 92.5 94.9 99.4 100.4 111.6 114.7 84.4 85.6 67.4 77.2 90.4 94.3 91.2 93.4 101.8 103.1 98.4 100.7 87.1 90.9 105.9 109.4 83.5 82.0 95.3 102.8 116.2 88.2 69.5 54.4 95.7 99.8 99.1 109.3 86.0 95.2 103.8 117.6 88.5 549.5 549.5 93.9 95.4 101.4 99.7 89.6 108.3 85.4 94.2 97.8 114.3 82.1 69.6 93.2 95.5 101.2 100.6 109.1 83.2 95.1 100.2 116.5 85.3 70.1 93.6 94.4 101.2 101.2 102.0 108.9 84.4 100.5 103.2 67.5 80.6 85.8 101.3 139.4 100.3 84.1 127.2 57.3 Riscellaneous menuracurans. Feed and kindred products. Testie mill products. Apparel and other testile products. Paper and alled products. Printing and publishing...cts Chemicals and sold products. Rubber and misc plastics products. Lesther and lesther products.
 97.3
 98.3

 97.0
 97.9

 71.4
 71.5

 81.1
 79.7

 85.5
 83.9

 100.1
 100.9

 136.2
 137.4

 97.7
 29.4

 136.2
 137.4

 97.7
 29.4

 136.2
 126.3

 55.7
 55.7
 98.2 96.7 69.0 79.4 85.4 99.9 137.3 99.8 82.4 126.5 56.2 98.8 97.2 63.9 80.0 85.9 100.1 139.2 100.2 82.3 127.4 55.8 100.3 102.9 70.5 80.0 86.2 101.1 138.7 100.4 86.1 126.9 58.2 138.6 135.8 139.6 146.4 141.5 141.0 140.8 133.3 137.8 137.3 rvice-producing industries.....
 114.2
 111.2
 115.2
 116.2
 117.4
 116.0

 128.1
 125.6
 127.7
 128.1
 129.1
 129.3

 123.1
 124.8
 126.7
 127.8
 128.2
 127.7
 116.0 109.4 114.8 113.8 Transportation and public utilities..... 121.7 127.3 127.1 129.9 heleszle trode..... 119.9 123.2 121.4 127.8 138.2 140.7 139.3 139.5 139.6 140.4 140.0 142.1 140.7 140.9 as, insurance, and real estaté..... 163.9 157.2 163.2 164.1 165.6 164.9 165.1

1/ See feetnets 1, table B-2.

p = preliminary.

Table 3-6. Diffusion indexes of employment change, assessably adjusted (Percent)

| _ | Time span | Jan. | Fab. | Har. | Apr. | Hay | June | July | Aug. | Sept- | Oct. | Hev. | Dec. |
|------|--|--|------------------------|------------------------|---------------|--------------|---------------|--------------|----------------|----------------------|-----------------|----------------|-------------------|
| | | Private nemogricultural payrells, 349 industries]/ | | | | | | | | | | I | L |
| OVER | 1-MONTH SPAN: 1987 1988 | 57.4 60.3 65.0 | 58.3 64.6 57.2 | 59.9 64.9 8-56.7 | 13:1 | 61.3 54.9 | :: : | 68.6 62.3 | 60.6 56.2 | 62.3 54.0 | \$? :\$ | :: ; | \$! :9 |
| OVER | 3-MONTH SPAN: 1987 | 41.3 70.6 | 62.2 68.8 2/66.2 | 67.3 64.3 | #:] | 8:1 | 8:1 | 21:8 | 72.5 | 72.1 62.6 | 73.4 68.3 | 31: \$ | 53: 4 |
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NOTE: Figures are the paraent of industries with employment incre-nn-hall of the industries with unchanged employment, where 80 perc indicates an operat balance between industries with increasing and de imployment. eing

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Representative HAMILTON. Thank you very much, Commissioner Norwood. Without objection, the charts you referred to will be made part of the hearing record at this point. [The charts follow:]

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Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989 23

Chart 2. Civilian employment-population ratio, seasonally adjusted, 1948-89



Source: Bureau of Labor Statistics, April 7, 1989

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Chart 3. Unemployment rates for major age-sex groups, seasonally adjusted, 1948-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989



Chart 4. Civilian employment-population ratio for major age-sex groups, seasonally adjusted, 1948-89

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Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989
Chart 5. Unemployment rates for whites, blacks, and persons of Hispanic origin, seasonally adjusted, 1973-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989 33

Chart 6. Civilian employment-population ratio for whites, blacks, and persons of Hispanic origin, seasonally adjusted, 1973-89



Source: Bureau of Labor Statistics, April 7, 1989

Chart 7. Long-term unemployment, seasonally adjusted, 1948-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989

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Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, April 7, 1989 Representative HAMILTON. We thank you for your statement.

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One of the things that strikes me in looking at these figures over the past few months is that we've had a steady drop in the growth of payroll employment, 425,000 in January, 280,000 in February, 180,000 in March.

But, while we are having the slowdown in employment growth, we've also had a reduction in the unemployment rate, and a fairly significant one, from 5.4 percent in January to 5 percent this morning.

So you have these two trends. Are they giving us conflicting evidence about the strength of the economy, or are they consistent?

Mrs. NORWOOD. I think that they are consistent. We are seeing, because of demographic changes, a somewhat slower labor force growth.

We've had over the last year, for example, about 2.3 million people entering the labor force. That's somewhat lower than what we had seen years before. And since January, we've had fairly moderate labor force growth. We had a whopping growth in January, and then a negative growth in February.

We have had more moderate growth each month in employment. So I don't see any inconsistency there.

Representative HAMILTON. If the employment growth continues to weaken, will that be translated into a rise in the unemployment rate in time?

Mrs. NORWOOD. It depends on how much it weakens, of course. If the employment is not sufficient to take up the change in labor force growth, obviously, it will have an effect on the unemployment rate.

Representative HAMILTON. How much employment growth does it take to keep the unemployment rate from rising?

Mr. Bregger.

Mr. BREGGER. You need to have an employment growth that would essentially equal the labor force growth.

Mrs. Norwood. About 150,000 perhaps?

Mr. BREGGER. 150,000 a month, something like that.

Representative HAMILTON. In any event, the downward trend in the growth of payroll employment is not evidence to you—or is it evidence—of the slowing of the economy?

Mrs. NORWOOD. There's clearly a slowing in employment growth. I don't think there's any doubt about that. Employment in manufacturing, which had been growing pretty fast for several months, has now slowed the last couple of months, February and March. Manufacturing has been really almost unchanged.

And I think that that is clearly a slowdown. Employment growth in services, however, is still continuing. Business services had been producing one in every eight new jobs during much of the expansion. That's no longer true.

But, health service is still chugging along and retail trade as well.

Representative HAMILTON. There's a significant drop in the number of discouraged workers in your statistics?

Mrs. Norwood. Yes.

Representative HAMILTON. Maybe you could comment on the significance of that. Is that a particularly large decline? Is it consistent with the improvement in unemployment this month?

Mrs. Norwood. The number of discouraged workers is still, as always really, more than we would like to see; 100,000 is not a very large decline. It's barely a statistically different change, if that.

Representative HAMILTON. How good are you at identifying the discouraged workers? How do you do that anyway?

Mrs. Norwood. We asked people a series of questions on discouragement and we aggregate the response over a period of 3 months. We ask those who are not working and not looking for a job, if they want a job.

Then we ask them a series of questions about why they are not looking for a job.

Discouragement is difficult to measure because discouragement is really a state of mind. It's not a fact. And it is really for that reason that the several review commissions that have looked at the unemployment data have agreed with us that discouragement should not be included in the official unemployment rate because it's what we in the data business call soft data.

Nevertheless, we do publish a U-7 measure that I mentioned which does include them on a quarterly basis. And, of course, discouragement goes way up during a recession and then comes down after a recession.

Representative HAMILTON. Are the discouraged workers concentrated in any part of the country?

Mrs. Norwood. They are certainly disproportionately black. They are disproportionately located in pockets where people have difficulty getting employment. Certainly, central cities would be quite well represented among discouraged workers. Representative HAMILTON. Your charts on employment and un-

Representative HAMILTON. Your charts on employment and unemployment changes by region show that the East North-Central Region, which includes my State of Indiana, experienced the strongest job growth during the past year, and the second largest decline in employment.

What's happening in those States to explain that kind of performance?

Mrs. Norwood. Those charts, by the way, are not in that package. That is related, I believe, to the changes in industry that are going on. Manufacturing certainly was doing a lot better and the particular industries that are affected in those areas—machinery, in particular, Jack Bregger tells me—had an important effect.

Representative HAMILTON. Let me just ask a question or two about inflation. Then I'll turn to Congressman Solarz.

The Producer Price Index rose by 1 percent for the second month in a row. The Consumer Price Index rose by only 0.4 percent. Which of these two more accurately measures inflation?

Mrs. Norwoon. I think they measure different things. It's quite clear that some of the movement in the Producer Price Index brings some considerable cause for concern because what we can see in the PPI is the trend of inflation through various stages of processing.

The Consumer Price Index, and if you look I think at the third to the last chart in the package that I've given you, which has some bright red and blue on it, that shows the Consumer Price Index over time and you can see there what I think is one of the most interesting issues.

If you look at the blue part, that's the period of price controls that were instituted during President Nixon's administration and you can see that we are now getting perhaps a little bit above that point, which shows I think an important change in inflationary expectations in this country.

In those days in the early seventies, we were used to the very low inflation of the sixties and we worried about that.

Representative HAMILTON. Inflation went up during the price controls.

Mrs. Norwood. That's another interesting point. It didn't work very well.

The following chart is one which attempts to look at a kind of underlying rate of inflation by taking out the things that we know are quite volatile, like energy, food, and shelter.

In some ways, it seems to me that what we're seeing is that if people don't eat and they don't have a house to live in and they don't drive a car, then we'll know what their inflation is.

On the other hand, what this really does is to look at the basic commodities and services that are not affected so much by things like interest rates and weather and the oil embargo.

And if you look at that green line, you can see that in toward the end of that chart, in 1989, it seems to be heading upward. Slight, but it's there. It's an upward trend.

Representative HAMILTON. I'm always amused by this Consumer Price Index less food, shelter, and energy. If you want to get yourself laughed out of a public meeting sometime, you cite that statistic to them. You'll be lucky to walk out of the meeting with all your limbs intact.

Mrs. Norwood. That's why we put the two charts together because we recognize that it's pretty silly. Nevertheless, it is useful for economic analysis to be able to take out things like food and oil, which we have very little control.

Representative HAMILTON. I understand the reason for it. But there's a bit of a humorous aspect to it as well.

Congressman Solarz.

Representative SOLARZ. Thank you very much, Mr. Chairman.

Mrs. Norwood, I think that this committee is institutionally ill equipped to deal with such unrelenting optimism. Do you have any bad news for us? Are there any clouds on top of the silver lining?

Mrs. Norwoon. I think there are some areas that quite clearly need to be focused on. I think there are areas where improvement is needed. If you look at these charts and if you look at chart No. 5, you will see the trend in unemployment rates for blacks, Hispanics, and whites. And although that top red line, which is the unemployment rate for the black population, has come down, it's still very high. The chart shows the gap between the whites and the blacks.

Another way of looking at that, by the way, is the next chart, No. 6, which shows the employment-population ratio. That chart shows that Hispanics are doing considerably better, in terms of the proportion of the population that is employed. But, the blacks are still quite low. Representative SOLARZ. As I look at the chart that compares the unemployment rates for blacks, Hispanics, and whites, what strikes me most is the extent to which from 1973 through 1989 they seemed to more or less move in tandem.

In other words, when the unemployment rate goes up for one group, it goes up for the others. When it goes down for one, it more or less goes down for the others.

I think you would agree with that.

Mrs. Norwood. Yes.

Representative SOLARZ. I wonder if you could tell us why that should be the case. In other words, there appears to be a continuing differential in the unemployment relationship and ratio among these three groups at any given point, with blacks having the highest unemployment, then Hispanics and then whites.

And they seem to move up and down in tandem.

What are the main reasons?

Mrs. NORWOOD. First of all, I think one of the things that you can see from this chart is that if you go back to the very early seventies, the gap between those lines was somewhat narrower than it now is. It got very wide during the recession.

Generally speaking, the differences among the groups reflect the location of people, their education, their training, and perhaps some discrimination. Those are the things which affect these groups that generally have a very difficult time in the labor market.

Representative SOLARZ. Is it your feeling that of the several factors which contribute to this differential, that racism is the least significant? You happened to mention it last. I don't know whether that was because you accorded it a lesser significance, or was that just how it came out in relationship to education, location, and the other factors?

Mrs. NORWOOD. No, I would not consider it the least significant. Certainly, I think it is a very significant kind of problem. As you suggested, however, I read a book on the truly disadvantaged this past month. And I think there are some very real insights there into the problem.

As you will recall, the author makes a very definite point about the problem of the lack of jobs for black men in central cities. And I think that is a very serious problem and I think it shows up in some of these data.

Representative SOLARZ. Would you attribute the high-unemployment rate among blacks in central cities to racism or to other factors?

Mrs. Norwood. I really can't answer that question. There's certainly a lot of reasons for that. There's a lot of industry that has moved out of the central cities. And what you're getting in its place are services which require a considerable amount of education and training. And some of the black population in the central cities have not had the opportunity to get that kind of training.

Representative SOLARZ. He makes a distinction in the book, as you will recall, between historical discrimination and contemporary discrimination.

Do you by any chance have statistics on the unemployment rate in the inner cities as opposed to the national unemployment rate? Mrs. NORWOOD. We have some central city data.

Representative SOLARZ. In that book on the truly disadvantaged, as you know, he focused in on high poverty areas with large percentages of the population on welfare and the like, demonstrating a variety of social pathologies in those neighborhoods.

I'm interested in getting the sense of the extent to which this decline in the national unemployment rate is reflected in the unemployment rate in these inner-city areas.

Are you using central city the way I'm using inner city? By inner city, I mean ghetto-type areas, impoverished with a high welfare population, high crime rates, and so on.

Mrs. Norwood. We have some. Jack tells me that we have some poverty area data. But, you know, the poverty areas were determined when, in 1980.

Representative SOLARZ. When you talk about central cities, are you talking about the east side of Manhattan or Brooklyn Heights in Brooklyn? Or are you talking about——

Mr. BREGGER. Cities as opposed to the metropolitan areas.

Representative SOLARZ. Could you break out whatever data you have on the poverty areas, to the extent you have definitions for them in terms of the unemployment rate there, compared to the national unemployment rate?

Mr. BREGGER. We could do that but we have them only in the aggregate. We don't have them for individual cities.

Representative SOLARZ. Is it your impression that there has been a comparable and proportionate decline in the unemployment rate in poverty areas compared to the national unemployment rate?

Mrs. Norwood. There has been a clear decline in central city unemployment for the most part. There are some exceptions, but there has been a very real decline. There may be a lot of reasons for that, by the way. We may be missing some of those people in the census undercount.

Representative SOLARZ. I'm asking you to focus now on central cities and poverty.

Mrs. Norwood. I'm not sure. We will try. We'll take a look at what we have. I'm not sure we can get down to that level of aggregation.

The other problem is that, insofar as our data are determined, they're defined by the census of 1980, so that many of these areas that are in poverty now may not have been there then.

Representative SOLARZ. Do the best you can.

Mrs. Norwood. We'll try.

Representative SOLARZ. Do you have any figures on income distribution?

Mrs. NORWOOD. Those are developed by the Census Bureau, but I'm familiar with some of them.

Representative SOLARZ. I saw some indication the other day that the United States has the worst income distribution of any of the major industrialized countries in the world.

Is that true?

Mrs. NORWOOD. Our tax system is very different, and our fringe benefit system is also very different, since many of those countries have public kinds of child support and child care and family allowance systems. It's a little hard to account for that. It is true certainly that there is a wide disparity of income in this country.

Representative SOLARZ. Could you provide the comparative income distribution data of the OECD countries?

Mrs. Norwood. We certainly can try to get that.

Representative SOLARZ. Together with such explanations as you think may be necessary to illuminate the data.

But I'm interested in getting some sense of whether it is, in fact, true that fewer people have a greater share of the national income in our country than in the other industrialized democracies.

And if so, how much greater this maldistribution of income is.

Mrs. NORWOOD. We will certainly look into that. I do want to point out to you, however, that these kinds of comparisons are rather difficult because of the fact that you have, for example, in the United Kingdom, you have universal health insurance. In this country, you don't.

I'm not quite sure where you put those expenditures. It's things like that that worry me.

Representative SOLARZ. Well, do your best and then we'll evaluate your work.

Mrs. Norwood. We'll try.

Representative SOLARZ. You have chart No. 7, long-term unemployment versus short-term unemployment. These two also seem to move more or less in tandem. When the one goes up, the other goes up. When one goes down, the other goes down.

Mrs. Norwood. But, as you can see, it's really still quite high by historical standards.

Representative SOLARZ. My question is, does the fact that they seem to move in tandem indicate that the cures for unemployment, whether it's short term or long term, tend to be more or less the same, and that differential approaches to the two different problems may perhaps not make that much sense?

They both seem to respond to macroeconomic forces more or less in the same way.

Mrs. Norwoon. It's probably more that the macroeconomic forces which provide for the overall well-being of the economy are not able to get at some of these people over whatever the period of the expansion, because these are the people who have great difficulty in finding jobs.

They are not a tremendous number in terms of millions, but they are a significant number and they have a problem. And taking care of that issue really requires much more targeting. It cannot be done with macroeconomic policy.

I think that's what that chart says.

Representative SOLARZ. Do we have programs that deal specifically with the problems of long-term unemployment?

Mrs. Norwood. As you know, I am not an expert on program policy, but I am aware of a number of programs in the Department of Labor under the Job Training Partnership Act for training and for having the various groups in local areas trying to develop the kinds of training programs that are needed to get more people.

Representative SOLARZ. Do they seem to work?

Mrs. Norwood. In some places, they do.

Representative SOLARZ. Could you give us the comparative unemployment rate for Japan, the Federal Republic of Germany, the United Kingdom, France, and Canada in relationship to our own? Mrs. NORWOOD. Yes. For the month of February, the Canadians

Mrs. Norwood. Yes. For the month of February, the Canadians and the French, the Germans and the United Kingdom were well above our rate. Canada had 7.6, France had 10.1, Germany 6.4, and the United Kingdom 6.9.

The Scandinavian countries, like Sweden, have very low unemployment rates. They have a very different kind of economic system and Japan is also lower, about 2.4 percent. Although there are some definitional differences among these, they've been adjusted to be as comparable as possible. But there are still some differences, particularly in the retirement of people in Japan and discouragement.

Representative SOLARZ. How do you compare the kind of statistics which your Bureau provides to the comparable kinds of statistics provided by your bureaucratic counterparts in the other industrialized countries?

I assume each nation must have some organization more or less like yours. How do we do compared to that? Do they provide data that we don't, any of them?

Mrs. Norwood. We do rather well. I think our data are generally of quite high quality. There are some countries, like Canada, Japan, which have, I believe, a very significant and high-quality statistical system. The Japanese have more data than we have for small kinds of things. They have more family budget information than we do on a regular basis, some larger samples.

But, on the other hand, they don't have as much coverage of the employment for very small establishments and for the contracting out that they do. At least, not integrated into the system as well.

The British have been changing their system quite consistently and like the British, many of the countries of Europe tend to use unemployment insurance and people who come to the labor exchanges as a method for measuring unemployment. That eliminates a lot of people. And depending upon the way in

That eliminates a lot of people. And depending upon the way in which those data are tabulated, there are other kinds of problems. I have been chairing for about 10 years a working party of the OECD to try to bring together all of these countries to try to encourage the development of labor force surveys and comparative data.

And I think we've made a lot of progress.

Representative SOLARZ. What is your assessment of the inflationary situation in the country right now? And the prospects for a significant increase in inflation in the months ahead?

Mrs. NORWOOD. Well, as I discussed with the chairman, if you look at those two charts on prices, and perhaps if you look at the one behind it, the last chart—

Representative SOLARZ. Where is this?

Mrs. Norwood. If you look at the last chart right now, which is on your employment cost index, what you see is that blue dotted line, which is the cost of employee benefits to the employers. The employer cost for fringe benefits has gone up quite a bit. That was because of the Social Security increase, the employer cost of Social Security and health insurance, which is an increasing cost to employers, which is going to have some upward pressure certainly on prices.

The red line, which is wages and salaries, is going up but very, very slightly. Those are the basic data underlying all the discussion in the press these days about wage push.

There is clearly some increase in employer costs. There is some increase going on in wages and salaries. But it's really very little. The big push has been in fringe benefits.

Then, if you look at the preceding chart or perhaps two preceding ones, the ones with the little red and blue on it, you can see that the Consumer Price Index, while not way up where it was in the oil crises, nevertheless, has been trending upward a bit. It certainly bears watching, there's no doubt about it.

Representative SOLARZ. What impact do you think the increase in interest rates is likely to have on the employment situation?

Mrs. Norwood. I think we're already seeing some effects of that in the curtailment of employment in construction, in residential housing.

How much more of an effect, I don't know. It depends really on whether interest rates turn around. There is a lot of speculation about when that will occur.

I've always believed that anybody who could forecast interest rates really could make millions. It's very difficult to do.

Representative SOLARZ. If we annualized the increases in the cost of living for the last 2 months, the Consumer Price Index, what would the annual inflation rate be?

Mrs. Norwood. I don't know if we have 2 months' annual rate with us, but we have the 3 months' annual rate.

Mr. DALTON. The January and February numbers were 0.6 and 0.4 percent. That could come out to around seven.

Mrs. Norwood. Something like that.

Representative SOLARZ. We don't have March?

Mrs. Norwood. No. March will be out about the 20th or 21st of April.

Representative SOLARZ. Thank you very much, Mrs. Norwood.

Representative HAMILTON. I noted the article in the Wall Street Journal this past week about Mr. Boskin's interest in a special initiative to improve the quality of government economic statistics.

I think you had a meeting, did you not, with him? What can you tell us about that? What was the result of that?

Mrs. Norwood. I think that Mr. Boskin is concerned that, in the larger discussion of the budget, the statistical system not be forgotten. And he has had discussions with the President and with others in the system, certainly with Secretary Dole and Secretary Mosbacher, alerting them, sensitizing them to the fact that we have to be very careful about seeing to it that we have certainly efficiency, but also that we have quality of statistics.

Representative HAMILTON. Does this represent a concern on his part that there's been a decline in the quality of the statistics?

Mrs. Norwood. I think it represents more his reading of his role as Chairman of the Council of Economic Advisers. The law, the basic underlying law, suggests that one of his responsibilities is to pay some attention to statistics. I think it also represents his visit with your committee in which concerns were expressed. There is also a concern generally about the fast changes that are going on in the economy. And the fact that it is difficult for the statistical system to adjust to those changes.

As you know, we have a very well-developed set of data in almost every area of commodities.

Representative HAMILTON. So this special initiative he's calling for does not arise from a concern as a professional economist that there has been a decline in the quality of the statistics?

Mrs. Norwood. I'm sure he is aware of that. He's had meetings with professional association representatives. I've been present at some of those meetings.

Representative HAMILTON. Is there such a feeling among the professional economists in the country that the quality of the data is slipping?

Mrs. Norwood. There is concern about that.

Representative HAMILTON. Now, can we make these improvements without spending a lot more money?

Mrs. Norwoon. That's always difficult. It's hard to say. We have, for example, in the budget before the Congress a request for funds to begin the redesign of all the household surveys in the Government. It's essential that that work be begun because otherwise the data we're reporting to you will be out of date. That's a budget issue.

And depending on how the Congress deals with that, if, for example, there should be some across-the-board cut, then that gets cut as well as anything else.

Representative HAMILTON. What is your view with regard to circular A-130 and the reported plan by OMB to amend that circular to require OMB approval of statistical publications?

Mrs. NORWOOD. My view of that is a very strong one, that that was unfortunate and I am pleased to report to you that we have had some discussions with OMB and that they are revising that circular.

Representative HAMILTON. They're backing off. Is that it?

Mrs. Norwood. The're revising their position.

Representative HAMILTON. Well, they may revise it and make it tougher.

Mrs. Norwood. I do not believe they will.

Representative HAMILTON. So they're backing off. All right? [Laughter.]

Mrs. Norwood. Yes.

Representative HAMILTON. I'll use the phrase if you don't want to.

Now, the Paperwork Reduction Act is up for renewal this year. Do you have any suggestion with respect to that? That affects you, I presume, in the Bureau of Labor Statistics.

What ought we to do about that?

Mrs. NORWOOD. I do have some strong feelings about that. I think it is a great mistake to consider the burden on respondents for statistics in the same pool with the regulatory and other burdens that are placed upon them. And that's the tradeoff that that act now makes.

I object to that. We, for example, have the smallest burden in the Department of Labor, which is rather interesting.

Representative HAMILTON. The smallest what?

Mrs. Norwood. Burden on reporting.

Representative HAMILTON. I'm going to start applying the Paperwork Reduction Act to the JEC staff.

We've revised the Index of Leading Indicators and two of the components were dropped. What's the significance of all of that? Why were they dropped? Both of the ones that were dropped, I guess, relate to, well, one is average weekly hours of production, average weekly initial time for unemployment. Why were they dropped?

Mrs. Norwood. For several reasons. First, it was time to revise the Index of Leading Indicators because it was not up to date with what has been going on in the economy. For those two series, it's quite clear that production workers now are a smaller portion of the change in the economy, since so much of the growth is in services. The unemployment insurance benefits, as you know, now cover really a very small portion of the total unemployed, because there are so many entrants and reentrants to the work force, and people who haven't worked long enough to have UI coverage.

So those situations have changed from the earlier period—I don't know, 20 years ago or so—when the leading indicators index was set up.

Representative HAMILTON. The two that were dropped, do they usually point to a recession before one starts?

Do they give you advanced warning that way?

Mrs. Norwood. I don't believe so.

Representative HAMILTON. So you think there's an overall improvement in the leading indicators by dropping those two components.

Mrs. Norwood. Yes. I think this was done with great care by a very responsible committee, chaired by Geoffrey Moore, who was one of the leading business cycle analysts in the country.

Representative HAMILTON. Let me ask you a question pertaining to my own State. The unemployment rate in Indiana fell from 6.5 percent in January 1988 to 5.1 percent. That's a pretty sharp decline in the State's unemployment record.

What causes that large decline in the last year?

Mrs. Norwood. If you look at all of the States, you will find that many of them are having that kind of change. If you just look at the ones that we reported today, the 11 largest ones, the only thing that I can say is that I think the general overall health of the economy is moving to be more widespread and, in particular, that some of the machinery industries and manufacturing industries in particular that are located there have been doing much better in recent months.

Representative HAMILTON. That's very good.

Thank you very much, Mrs. Norwood. The committee stands adjourned.

[Whereupon, at 10:20 a.m., the committee adjourned, subject to the call of the Chair.]

EMPLOYMENT-UNEMPLOYMENT

FRIDAY, MAY 5, 1989

Congress of the United States, Joint Economic Committee,

Washington, DC.

The committee met, pursuant to notice, at 9:30 a.m., in room 2359, Rayburn House Office Building, Hon. Lee H. Hamilton (chairman of the committee) presiding.

Present: Representatives Hamilton and Snowe.

Also present: William Buechner and Chris Frenze, professional staff members.

OPENING STATEMENT OF REPRESENTATIVE HAMILTON, CHAIRMAN

Representative HAMILTON. The Joint Economic Committee will come to order.

This morning the Joint Economic Committee resumes its monthly hearings on the employment and unemployment situation with an examination of the data for April 1989.

We are very pleased to welcome Janet Norwood, the Commissioner of Labor Statistics and her colleagues.

The employment and unemployment figures released this morning seem to confirm the impression from other recent data that the economy is beginning to cool down.

In April the unemployment rate rose 0.3 to 5.3 percent of the civilian labor force, and the number of people unemployed rose by 420,000. The unemployment rate rose for all labor market groups, except blacks, with an especially large 1.8 percent increase among Hispanics.

Payroll employment rose by only 117,000 in April, the weakest job growth in almost 3 years. All the job growth occurred in service producing industries, with both construction and manufacturing showing no job growth since the beginning of the year.

The main question raised by today's data is whether the long expansion of the 1980's has come to an end.

The committee will now turn to Commissioner Norwood and her colleagues for their analysis of the employment and unemployment situation for April.

You may begin.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY THOMAS J. PLEWES, ASSOCIATE COMMISSION-ER, OFFICE OF EMPLOYMENT AND UNEMPLOYMENT STATIS-TICS; AND THOMAS R. TIBBETTS, ASSISTANT COMMISSIONER, OFFICE OF INDUSTRIAL PRICES AND PRICE INDEXES

Mrs. Norwood. Thank you very much, Mr. Chairman.

I have with me Thomas Tibbetts, our price expert, and Thomas Plewes, our unemployment expert.

Representative HAMILTON. Glad to have you, gentlemen.

Mrs. Norwood. We are very pleased to have an opportunity to explain a bit further some of the developments reported in our release this morning.

The Nation's job market weakened in April, as the unemployment rate rose and employment growth continued to slow. After 2 months of improvement, the civilian unemployment rate increased 0.3 of a percentage point to 5.3 percent, matching the rate of late last year.

The overall rate, which takes into account the resident Armed Forces, also rose by 0.3 of a percentage point.

Payroll employment, as measured by the Bureau's survey of business establishments, changed very little, by about 115,000. March's gain was 170,000. In rather sharp contrast, the average monthly gain over the 12 months ended in February was about 300,000.

The number of unemployed workers, which had declined in the prior 2 months, increased by about 420,000 to 6.5 million. Increases in joblessness primarily affected men and were distributed across the entire age range. The rate for men between the ages of 25 and 54 rose by 0.4 of a percentage point to 4.4 percent. The rate for white workers rose to 4.6 percent, and the Hispanic worker rate rose to 8.3. The rate for blacks was unchanged at 10.8 percent.

Our business survey shows that employment growth began to slow in March. In April, the only real strength was in the services industry. That industry gained 100,000 jobs, about in line with the average monthly growth over the past year for that industry.

Wholesale trade, which consistently had added 25,000 to 30,000 jobs a month since late 1987, had a very small increase in April. Employment in retail trade, which had expanded rapidly in the first quarter, was essentially unchanged, and finance, insurance, and real estate showed weakness in both real estate and mortgage banking.

In the goods-producing sector, only mining showed strength. Employment in oil and gas extraction has risen by 10,000 over the last 3 months. Construction employment was flat in April, following 2 months with a total decline of about 60,000. In manufacturing, the number of jobs changed little for the third consecutive month. This contrasted sharply with the 4 months from October through January during which the number of factory jobs grew by a quarter of a million.

Machinery had paced the manufacturing gains in 1988 but has shown essentially no growth over the past 2 months. An employment slide in the electrical and electronic equipment industry has gone on for 5 months, totaling about 25,000 jobs. Lumber and wood products has lost more than 15,000 jobs in 3 months.

And, while employment in automobile manufacturing ended a 2month downturn, that industry did not add significantly to its payroll employment in April.

Two other items are worth mentioning.

The rise of 0.4 an hour in the length of the workweek probably resulted from the inability of the current seasonal adjustment process to deal adequately with the changing presence or absence of religious holidays in the April survey week. Such movements are almost always offset or corrected with the next month's data. We are working on improved methods for handling this problem.

The establishment survey also shows quite a large increase in average hourly earnings in April-0.7 of a percent. Growth in this measure seems to occur in fits and starts, and I would caution against any temptation to annualize this increase. Over the prior 2 months, for example, hourly earnings rose by only 0.3 of a percent.

Mr. Chairman, after so many appearances before this committee, I can anticipate that you will want to know if the April rise in unemployment and the unusually slow job growth associated with it point to an end to this long period of expansion. Of course, you know that I always resist the temptation to specu-

late, but the question is a fair one. Let me try to put this month's data into some perspective.

First, the slowdown in employment in March and April is real. While we are not getting net job losses, we are creating far fewer jobs than we were even a few months ago, and a few industries are significantly expanding their employment. But some important industries had experienced unusually large employment increases earlier in the year.

It is important to note that employment growth can slow without heading sharply downward. Given the extraordinary buoyancy of the current expansion, some slowing of job growth is to be expected. In April, that slowdown was accompanied by a 400,000 increase in the labor force and the jobless rate went up.

We had two other occasions during this long expansion when the downward trend in the jobless rate was temporarily reversed by an increase of at least 0.3 of a percentage point.

So April's jobless rate movement, by itself, is not a definitive sign of change. The 2.3 million labor force increase over the past year was quite strong. Demographic data suggest, however, that the rate of labor force growth should be much slower in the future than it has been in the past.

This suggests that, even if employment continues to grow slowly, the unemployment rate need not necessarily rise. Thus, it is the magnitude, as well as the direction, of future changes that will determine the outcome.

In summary, the job market weakened in April, as payroll job growth continued to slow and the unemployment rate rose, returning to the level that prevailed during the last quarter of 1988.

Mr. Chairman, my colleagues and I will now be happy to try to answer any questions you may have. [The table attached to Mrs. Norwood's statement, together with

the Employment Situation press release, follows:]

| | | | X- | II ARIMA met | thod | | | X-11 method | 1 |
|----------------------|-------------------------|-----------------------|--------------------------------------|-------------------------|--------|-------|----------|-------------------------------------|-------------------------|
| Month and vear | Unad- justed rate | Official procedure | Concurrent (as first computed) | Concurrent (revised) | Stable | Total | Residual | (official method before 1980) | Range (cols. 2-8) |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1988 | | | | | | | 1 | | |
| April | 5.3 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | - |
| May | 5.4 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | .1 |
| June | 5.5 | 5.4 | 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | 5.3 | .1 |
| July | 5.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.4 | •1 |
| August | 5.4 | 5.6 | 5.6 | 5.5 | 5.5 | 5.6 | 5.6 | 5.6 | .1 |
| September | 5.2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | - |
| October | 5.0 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.4 | 5.3 | .1 |
| November | 5.2 | 5.4 | 5.4 | 5.3 | 5.4 | 5.3 | 5.4 | 5.4 | .1 |
| December | 5.0 | 5.3 | 5.3 | 5.4 | 5.3 | 5.3 | 5.4 | 5.4 | .1 |
| 1989 | | | | | | | | | |
| January | 6.0 | 5.4 | 5.4 | 5.4 | 5.5 | 5.4 | 5.3 | 5.5 | .2 |
| February | 5.6 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.0 | 5.2 | .2 |
| March | 5.2 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.8 | 5.0 | .2 |
| April | 1 5.1 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | - |

Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR

Bureau of Labor Statistics May 1989

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(1) Unadjusted rate. Unemployment rate for all civilian workers, not seasonally adjusted.

(1) <u>Unserprised into</u> <u>Comparison</u> into for all civilian written, we denote that of a second of the second second

(3) <u>Consurrout</u> (as first computed, X-11 ALDIA method). The official procedure for computation of the rate for all civilian workers using the 12 components is followed encopy that entropelated factors are not used at all. Each component is consonally adjusted with the X-11 ALDIA program acts ments on the meet resent data becomes visible. Rates for each month of the current year are shown as first computed; they are revised only ence each year, at the end of the year when data for the full year become available. For example, the test for Jeanary 1984 would be based, during 1984, on the adjustment of data from the period Jamary 1974 through Jamary 1984.

(4) <u>Concurrent (revised, X-11 ALDIA method</u>). The presedents used is identical to (3) above, and the rate for the current meth (the last meth displayed) will above be the same in the two columns. However, all provises meths are subject to revision each meth based on the seasonal adjustment of all the components with data through the current meth.

(3) Stable (X-11 ANDMA method). Each of the 12 civilism labor force components is em-using ANDMA models as in the efficial procedure and then run through the X-11 part of the program using the stable option. This option assumes that seasonal patterns are hesically constant from year-to-year and computer final seasonal fatters as unweighted averages of all the seasonal-irregular components for each much across the estire span of the period adjusted. As in the official procedure, factors are extrapolated in 6-much intervals and the sories are revised at the end of each year. The procedure for computations of the rate from the seasonally adjusted components is also identical to the efficial aroundary. its is enter The procedure for computation or two trees is also identical to the efficial procedure.

(6) Total (3-1) AIPIA method). This is one alternative aggregation procedure, in which total unseployment and civilias labor force levels are extended with ALDIA models and directly adjusted with methodic and the S-11 part of the program. The rate is compared by taking seasonally adjusted total unseployment as a percent of measurally adjusted total civilias labor force. Facture are extrapolated is immuch intervals and the series revised at the end of each year.

(7) <u>Revidual (X-1) ARDYA method</u>). This is easther alternative aggregation worked, in which total civilian gupleyment and civilian labor forms levels are extended using ARDYA models and then directly edjected with multiplicative adjustant metals. The essentily adjusted unsuppleyment level is derived by subtracting secondly adjusted employment from seasonally adjusted labor force. The rate is then sequently taking the derived sumpleyment level as a percent of the labor force level. Pasters extrapolated in 6-month intervals and the series revised at the end of each year.

(8) 2-11 worked (official marked before 1980). The method for computation of the official preceders is used encapt that the series are not entended with AEDA models and the factors are projected in 12-month intervals. The standard 2-11 program is used to perform the consensal adjustment.

Matheds of Adjustment: The Z-11 ARDMA method was developed at Statistics Canada by the Seasonal Adjustment and These Series Staff under the direction of Estals Des Degum. The method is described in The Z-11 ARDMA Seasonal Adjustment Method, by Estals Des Dagum, Statistics Canada Catalogue No. 13-5445, February 1960.

The standard X-11 method is described in X-11 Tariant of the Consum Mathod II Seasonal <u>Adjustment Program</u>, by Julium Shinkis, Alian Young and John Mangives (Yochmical Paper No. 15, Marcons of the Consume, 1997).



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TRANSMISSION OF MATERIAL IN THIS RELEASE IS EMBARGOED UNTIL 8:30 A.M. (EDT), FRIDAY, MAY 5, 1989

THE EMPLOYMENT SITUATION: APRIL 1989

Unemployment rose in April and payroll employment showed little growth, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall jobless rate was 5.2 percent and the civilian worker rate was 5.3 percent, each three-tenths of a point above March levels.

Nonagricultural payroll employment, as measured by the survey of business establishments, rose by 115,000 in April, the second straight month that the payroll survey has shown relatively small job gains. Total civilian employment, as measured by the survey of households, was about unchanged over the month.

Unemployment (Household Survey Data)

Both the number of unemployed persons and the civilian worker unemployment rate increased in April, after seasonal adjustment, offsetting much of the improvement that had occurred in February and March. The number of unemployed persons increased by 420,000 to a seasonally adjusted level of 6.5 million, and the civilian worker unemployment rate rose by 0.3 percentage point to 5.3 percent. The increase returned both figures to the levels that prevailed in the last quarter of 1988. (See table A-2.)

The unemployment rate for adult men rose four-tenths of a percentage point in April to 4.6 percent. The rate for whites also rose to 4.6 percent; the rate for Hispanics was up sharply over the month to 8.3 percent, reversing a decline of a similar magnitude in February. Jobless rates for adult women (4.7 percent), teenagers (14.4 percent), and blacks (10.8 percent) were little changed in April. (See tables A-2 and A-3.)

The median duration of unemployment, at 5.4 weeks, was unchanged from the previous month. The number of persons working part time for economic reasons--often referred to as the partially unemployed--edged up by 175,000 over the month to a seasonally adjusted level of 5.1 million. (See tables A-7 and A-4.)

Civilian Employment and the Labor Force (Household Survey Data)

Total civilian employment was unchanged in April, after seasonal adjustment, at 117.1 million, and the employment-population ratio--the proportion of the population that is employed--held steady at 63.0 percent, the record high reached in March. (See table A-2.)

The civilian labor force rose by 400,000 over the month to 123.7 million. The labor force participation rate rose to 66.5 percent, returning to the high reached in January. Over the year, the civilian labor force has grown by 2.3 million, three-fifths of which occurred among adult women. (See table A-2.)

Table A. Major indicators of labor market activity, seasonally adjusted

| | Quarte | erly Hes i | Mon | thly data | | Mar |
|--|-----------|---------------|------------------|-----------|----------|-------------|
| Quarta averac 2988 2988 1988 1988 10 HOUSEHOLD DATA Labor force 1/ | 1989 | | 1989 | | Apr. | |
| | IV : | I | Feb. | Mar. | Apr. | chang |
| HOUSEHOLD DATA | | | | | | |
| : | | Tho | <u>usands of</u> | persons | | |
| Labor force <u>1</u> / | 124,084 | 124,979 | 124,865 | 124,948; | 125,343 | 395 |
| Total employment 1/.: | 117,539 : | 118,588 | 118,537: | 118,820: | 118,797 | -23 |
| Civilian labor force: | 122,388 | 123,291 | 123,181: | 123,264 | 123,659 | 395 |
| Civilian employment. | 115,843 : | 116,900; | 116,853: | 117,136: | 117,113 | -23 |
| Unemployment | 6,545 | 6,391 | 6,328: | 6,128: | 6,546 | 418 |
| Not in labor force: | 62,865 : | 62,482 | 62,596: | 62,633; | 62,365 | -268 |
| Discouraged workers. | 951 : | 855 | N.A.: | N.A. : | N.A. | N.A. |
| | : | | | : | | ! |
| | | Pe | rcent of | labor for | ce. | |
| Unemployment rates: | | | i conte or | 10001 101 | <u></u> | : |
| All workers 1/ | 5.3 | 5.1 | 5.1 | 4.9 | 5.2 | 0.3 |
| All civilian workers | 5.3 | 5.2 | 5.1 | 5.0 | 5.3 | |
| Adult men | 4.7 | 4.5 | 4.5 | 4.2 | 4.6 | · • • • |
| Adult women | 4.7 | 4.6 | 4.5 | 4.6 | 4.0 | 1 |
| Teenagers | 14.6 | 15.0 | 14.8 | 13.7 | 14.4 | .7 |
| White | 4.6 | 4.4 | 4.3 | 4.2 | 4.6 | |
| Black | 11.3 | 11.6 | 11.9 | 10.9 | 10.8 | 1 |
| Hispanic origin | 7.8 | 7.2 | 6.8 | 6.5 | 8.3 | 1.8 |
| | , | | | | | |
| ESTABLISHMENT DATA | | | | | | |
| : | | Т | housands | of jobs | | |
| Nonfarm employment; | 107,344: | p108,306 | 108,341: | p108,512; | p108,629 | p117 |
| Goods-producing | 25,827: | p26,015; | 26,011: | p25,986 | p25,991 | p5 |
| Service-producing | · 81,517 | p82,291 | 82,330 | p82,526 | p82,638 | p112 |
| | | | / | ' | | |
| | | н | ours of w | ork | | |
| Average weekly hours: : | | | i | : | | |
| Total private | 34.8 | p34.7 | 34.6 | p34.6 | p35.0 | p0.4 |
| Manufacturing | 41.1: | p41.1 | 41.1: | p41.0; | p41.3 | p.3 |
| Overtime | 3.9: | p3.9 | 3.9 | n3.91 | n4.0 | n. 1 |

,

p=preliminary

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Industry Payroll Employment (Establishment Survey Data)

Employment growth in nonagricultural establishments continued to slow, as payroll jobs increased by 115,000 in April to a seasonally adjusted level of 108.6 million. Payroll employment gains have averaged only 145,000 for the last 2 months, compared to 300,000 per month in the prior 12 months. In addition to being relatively weak, employment growth in April was very narrowly concentrated; the services industry alone accounted for 100,000 of the over-the-month gain.

The number of jobs in the goods-producing sector was unchanged in April, following 2 months of decline. Manufacturing employment was flat for the third consecutive month, in contrast to the October-to-January period when it added some 250,000 jobs. Employment in machinery, which has accounted for a quarter of manufacturing's growth in the last 2 years, has shown little change over the last 2 months. The number of jobs in electrical equipment has fallen by 25,000 in the last 5 months. The lumber and wood products industry has also declined recently, as employment was down by about 15,000 since January, largely a reflection of recent weakness in the construction industry.

Construction employment was unchanged in April, seasonally adjusted, following back-to-back declines in February and March. Employment in mining rose for the second consecutive month, as oil and gas extraction added 10,000 jobs in the last 3 months, following 7 months of job losses.

In the service-producing sector, the only significant employment growth took place in the services industry. Employment in that industry grew by 100,000 in April, even though health services was not as strong as usual (up 35,000) and business services, following an erratic pattern recently, was also weak (up about 15,000). Above-average growth was reported in several other services industries. After rising rapidly in the first quarter, employment in retail trade was unchanged over the month. Wholesale trade added 10,000 jobs in April, much less than its average pace of more than 25,000 per month since the end of 1987. Except for a slight decline in the real estate component, employment in the finance, insurance, and real estate industry was about unchanged.

Weekly Hours (Establishment Survey Data)

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls showed an increase of 0.4 hour in April, seasonally adjusted, to 35.0 hours. Similarly, the manufacturing workweek increased 0.3 hour to 41.3 hours, while manufacturing overtime edged up 0.1 hour to 4.0 hours. These seasonally adjusted gains in weekly hours are overstated, however, because of the way the seasonal adjustment process is affected by the timing of the Easter week; historically, large April movements in hours (both increases and decreases) have been reversed in May. (See table B-2.) The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 129.5 (1977=100), climbed 1.1 percent in April, after seasonal adjustment. The manufacturing index rose 0.6 percent to 97.7. These increases were also affected by the overstatement in hours discussed above. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Average hourly earnings of private production or nonsupervisory workers increased 0.7 percent in April, seasonally adjusted, following increases totaling only 0.3 percent over the prior 2 months. Average weekly earnings climbed by 1.9 percent, largely reflecting the movement in the hours series. Before seasonal adjustment, average hourly earnings rose by 5 cents to \$9.60, and average weekly earnings jumped \$5.56 to \$334.08. Over the past year, hourly earnings have risen by 4.0 percent and weekly earnings were up 4.3 percent. (See tables B-3 and B-4.)

Revisions in the Establishment Survey Data

The Employment Situation news release of data for May will introduce revisions in the establishment-based series on nonagricultural payroll employment, hours, and earnings to reflect the regular annual benchmark adjustments and updated seasonal adjustment factors.

The Employment Situation for May 1989 will be released on Friday, June

2, at 8:30 A.M. (EDT).

Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 55,800 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (8LS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolls that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by BLS in cooperation with State agencies. The sample includes over 300,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job at which they worked the most hours.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather, disputes between labor and management, or personal reasons. Members of the Armed Porces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work at that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (civilian plus the resident Armed Forces). Table A-5 presents a special grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a civilian labor force base.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

 The household survey, although based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Forces;

- The household survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the establishment survey is not limited by age;

— The household survey has no duplication of individuals, because each individual is counted only once; in the establishmett survey, employees working at more than one job or otherwise appearing on more than one payroll would be counted separately for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon request.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the levels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each June is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can be adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in economic activity.

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours, and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BLS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-June period and again for the July-December period. The January revision is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 68 ou of 100 that an estimate based on the sample will differ by no more than the standard error from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence—the confidence limits used by 8LS in its analyses—the error for the monthly change in total employment is on the order of plus or minus 358.000; for total unemployment it is 224,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "true" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of teenagers. Specifically, the error on monthly change in the jobless rate for men is .25 percentage point; for teenagers, it is 1.29 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are revised. In other words, data for the month of September are published in preliminary form in October and November and in final form in December. To remove errors that build up over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks—comprehensive counts of employment—against which month-to-month changes can be measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments.

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in *Employment and Earnings*, published each month by sLS. It is available for \$8.50 per issue or \$25.00 per year from the U.S. Government Printing Office, Washington, DC 20204. A check or money order made out to the Superintendent of Documents must accompany all orders.

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M, O, P, and Q of that publication.

Table A-1. Employment status of the population, including Armed Forces in the United States, by sex

(Numbers in thousands)

| | Not set | ecnelly a | djusted | | 8 | essonally | adjusted' | | |
|--|--------------|--------------------|--------------------|--------------------|--------------------|--------------|--------------------|--------------------|--------------|
| Employment status and sex | Apr. 1988 | Mar. 1969 | Apr. 1989 | Apr. 1968 | Dec. 1968 | jan. 1969 | Feb. 1989 | Mar. 1989 | Apr. 1989 |
| TOTAL | | | | | | | | | |
| Noninstitutional population ⁴ | 185,964 | 167,581 123,907 | 187,708 124,260 | 165,964 123,060 | 187,098 124,259 | 187,340 | 187,481 124,865 | 187,581 124,948 | 187,708 |
| Participation rate ² | 65.6 | 86.1 | 66.2 | 66.2 | 66.4 | 66.8 | 66.6 | 66.6 | 65.8 |
| Total enclosed | 115,637 | 117,528 | 118,031 | 116,392 | 117,705 | 118,407 | 118,537 | 118,820 | 118,797 |
| Employment-occutation ratio" | 62.2 | 62.7 | 62.9 | 62.6 | 62.9 | 63.2 | 63.2 | 63.3 | 63.3 |
| Resident Armed Forces | 1,732 | 1,684 | 1,684 | 1,732 | 1,696 | 1,695 | 1,684 | 1,684 | 1,664 |
| Civilian employed | 113,905 | 115,644 | 116,347 | 114,660 | 116,009 | 116,711 | 116,653 | 117,136 | 117,113 |
| Agriculture | 3,193 | 2,934 | 3,116 | 3,187 | 3,193 | 3,300 | 3,223 | 3,206 | 3,104 |
| Nonegricultural industries | 110,712 | 112,911 | 113,231 | 111,479 | 112,816 | 113,411 | 113,630 | 113,930 | 114,009 |
| Unemployed | 6,359 | 6,378 | 6,229 | 6,669 | 6,554 | 6,716 | 6,328 | 6,126 | 6,546 |
| Unemployment rate ^a | 5.2 | 5.1 | 5.0 | 5.4 | 5.3 | 5.4 | 5.1 | 4.9 | 5.2 |
| Not in labor force | 63,968 | 63,674 | 63,445 | 62,904 | 62,839 | 62,216 | 62,596 | 62,633 | 62,365 |
| Men, 16 years and over | | | | | | | | | |
| Noninstitutional population? | 89,225 | 90,032 | 90,094 | 89,225 | 69,792 | 89,914 | 89,973 | 90,032 | 90,094 |
| Labor force' | 67,798 | 68,472 | 68,684 | 68,462 | 68,638 | 69,032 | 69,113 | 69,190 | 69,360 |
| Participation rate ¹ | 78.0 | 76.1 | 76.2 | 76.7 | 76.4 | 76.8 | 76.8 | 76.9 | 77.0 |
| Total employed | 64,268 | 64,875 | 65,185 | 64,868 | 65,055 | 65,322 | 65,572 | 65,920 | 65,767 |
| Employment-population ratio* | 72.1 | 72.1 | 72.4 | 721 | 72.5 | 72.6 | 72.0 | 73.2 | 73.0 |
| Resident Anned Forces | 1,569 | 1,521 | 1,521 | 1,569 | 1,534 | 1,532 | 1,521 | 1,521 | 1,521 |
| Civilian employed | 62,719 | 63,354 | 63,664 | 63,297 | 63,521 | 63,790 | 64,051 | 64,399 | 64,246 |
| Unemployed | 3,510 | 3,587 | 3,489 | 3,580 | 3,563 | 3./10 | 3,540 | 3,2/0 | 3,593 |
| Unemployment rate* | 5.2 | 5.3 | 5.1 | 5.3 | 5.2 | 0,4 | 3.1 | •./ | 5.2 |
| Women, 16 years and over | | | | | | | | | |
| Noninetitudionel com detion? | 96,739 | 97,550 | 97.614 | 96,739 | 97,306 | 97.427 | 97.488 | 97.550 | 97.614 |
| l shor force ² | 54,198 | 55,435 | 55.576 | 54,598 | 55.621 | 56.091 | 55.752 | 55,758 | 55,983 |
| Participation rate ² | 56.0 | 58.8 | 58.9 | 56.4 | 57.2 | 57.6 | 57.2 | 57.2 | 57.4 |
| Total employed | 51,349 | 52,654 | 52,846 | 51,526 | 52,650 | 53,085 | 52,965 | 52,900 | 53,029 |
| Employment-population ratio* | 53.1 | 54.0 | 54.1 | 53.3 | 54.1 | 54.5 | 54.3 | 54.2 | 54.3 |
| Resident Armed Forces | 163 | 163 | 163 | 163 | 162 | 164 | 163 | 163 | 163 |
| Civilian employed | 51,186 | 52,491 | 52,683 | 51,363 | 52,488 | 52,921 | 52,802 | 52,737 | 52,866 |
| Unemployed | 2,849 | 2,781 | 2,730 | 3,072 | 2,971 | 3,006 | 2,787 | 2,858 | 2,963 |
| Unemployment rate ² | 5.3 | 5.0 | 4.9 | 5.6 | 5.3 | 5.4 | 5.0 | 5.1 | ្រះរ |
| | | | L | <u> </u> | L | . . | 1 | | |

¹ The population and Armed Forces figures are not adjusted for easonal variation; therefore, identical numbers appear in the unadjusted of easeonally adjusted oothumms. ² Includes members of the Armed Forces stationed in the United Varian.

³ Labor force as a percent of the noninstitutional population. ⁴ Total employment as a percent of the noninstitutional population. ⁹ Unemployment as a percent of the labor force (including the resid Armed Forces).

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Table A-2. Employment status of the civilian population by sex and age

(Numbers in thousands)

| | Not se | econally a | betsuljb | Sessonally adjusted' | | | | | | |
|--|--------------|--------------|--------------|----------------------|--------------|--------------|--------------|--------------|--------------|--|
| Employment status, sex, and ege | Apr. 1968 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1968 | Jan. 1969 | Feb. 1989 | Mar. 1989 | Apr. 1989 | |
| TOTAL | | | | <u> </u> | | | | | | |
| Civilian noninstitutional population | 184 232 | 185 897 | 198.024 | 184 222 | | | | í | | |
| Civilian tabor force | 120 264 | 122 222 | 100,024 | 104,232 | 100,402 | 185,644 | 185,777 | 185,897 | 186,024 | |
| Participation rate | 65 3 | 85 7 | 122,5/0 | 121,328 | 122,563 | 123,428 | 123,181 | 123,264 | 123,659 | |
| Employed | 113 905 | 115 844 | 116 247 | 114 480 | | 00.5 | 66.3 | 66.3 | 66.5 | |
| Employment-population ratio ² | 61.8 | 62.3 | 82.6 | 42.2 | 110,009 | 110,711 | 116,853 | 117,136 | 117,113 | |
| Unemployed | 6,359 | 6.378 | 6 220 | 8 889 | 62.6 | 62.9 | 62.9 | 63.0 | 63.0 | |
| Unemployment rate | 5.3 | 5.2 | 5.1 | 5.5 | 5.3 | 5.4 | 6,326 | 6,128 | 6,548 | |
| Men, 20 years and over | | | | | | | | | | |
| Civilian noninstitutional acculation | 80.325 | 81 222 | | 00 000 | | | | | | |
| Civilian labor force | 62 4 42 | 61,333 | 61,413 | 80,328 | 81,001 | 81,162 | 81,256 | 81,333 | 81,413 | |
| Participation rate | 77 7 | 00,210 | 63,370 | 62,774 | 63,002 | 63,358 | 63,490 | 63,557 | 63,709 | |
| Employed | 50 504 | 60 101 | 11.0 | /8.1 | 77.8 | 78.1 | 76.1 | 78.1 | 78.3 | |
| Employment-population ratio ² | 74 1 | 74.0 | 00,430 | 59,833 | 60,049 | 60,420 | 60,636 | 60,869 | 60,757 | |
| Agriculture | 2 280 | 2 188 | 2 077 | /4.5 | /4.1 | 74.4 | 74.6 | 74.8 | 74.6 | |
| Nonagricultural industries | 57 224 | 58,006 | 2,211 | 2,259 | 2,292 | 2,277 | 2,320 | 2,317 | 2,252 | |
| Unemployed | 2 020 | 30,025 | 30,154 | 57,574 | 57,757 | 58,143 | 58,316 | 58,552 | 58,505 | |
| Unemployment rate | 4.7 | 4.8 | 4.6 | 2,941 | 2,953 | 2,938 | 2,853 | 2,688 | 2,952 | |
| Women, 20 years and over | | | | | | | | | | |
| Civilian noninstitutional occutation | 80.207 | 00.040 | | | | | | | | |
| Civilian tabor force | 68,307 | 90,242 | 90,318 | 89,307 | 89,954 | 90,072 | 90,153 | 90,242 | 90,318 | |
| Participation rate | 30,405 | 51,803 | 51,855 | 50,591 | 51,587 | 51,998 | 51,821 | 51,851 | 51,992 | |
| Employed | 30.5 | 57.4 | 57.4 | 56.6 | 57.3 | 57.7 | 57.5 | 57.5 | 57.6 | |
| Employment-population ratio? | 10,102 | 49,402 | 49,578 | 48,120 | 49,165 | 49,543 | 49,514 | 49,484 | 49,544 | |
| Acriculture | 00.0 | 34.8 | 54,9 | 53.9 | 54.7 | 55.0 | 54.9 | 54.8 | 54.9 | |
| Nonsoricultural industries | 47 636 | 10 000 | 600 | 653 | 646 | 715 | 666 | 664 | 615 | |
| Unemployed | 2,020 | 40,000 | 48,978 | 47,467 | 48,519 | 48,827 | 48,849 | 48,819 | 48,929 | |
| Unemployment rate | 4.6 | 4.5 | 4.4 | 2,471 | 2,422 | 2,455 | 2,306 | 2,367 | 2,448 | |
| Both sexes, 16 to 19 years | | | | | | | | | | |
| Civilian noninstitutional consistion | 14 509 | 14 202 | | | | | | | | |
| Civilian labor force | 7 357 | 7 210 | 7.253 | 14,046 | 14,447 | 14,410 | 14,367 | 14,323 | 14,293 | |
| Participation rate | · | 50.9 | 1,300 | 7,803 | 7,974 | 8,071 | 7,871 | 7,856 | 7,958 | |
| Employed | 6 230 | 8 100 | 8 336 | 34.5 | 50.2 | 56.0 | 54.8 | 54.9 | 55.7 | |
| Employment-population ratio* | 427 | 41.2 | 44.2 | 0,/0/ | 0,760 | 0,748 | 6,703 | 6,783 | 6,812 | |
| Agriculture | 276 | 174 | 240 | 40.8 | 4/.0 | 46.8 | 46.7 | 47.4 | 47.7 | |
| Nonegricultural industries | 5 082 | 4014 | 4 000 | 2/3 | 205 | 307 | 237 | 224 | 237 | |
| Unemployed | 1 1 18 | 1.018 | 1,010 | 0,432 | 0.540 | 6,441 | 6,466 | 6,559 | 6,575 | |
| Unemployment rate | 15.2 | 14.1 | 13.8 | 15.8 | 1,179 | 1,323 | 1,168 | 1,073 | 1,146 | |

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns. ² Civilian employment as a percent of the civilian noninstitutional population.

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. HOUSEHOLD DATA

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Table A-3. Employment status of the civilian population by race, eax, age, and Hispanic origin

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(Numbers in thousands)

| | Not see | sonally ac | peted | | 3 | essonally | adjusted' | | |
|---|--------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|
| Employment status, race, sex, age, and Hispanic origin | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1968 | Dec. 1968 | Jan. 1969 | Feb. 1989 | Mer. 1969 | Apr. 1989 |
| WHITE | | | | _ | | | | | |
| Chillion analogibilitational 000ulation | 157,943 | 159,020 | 159,098 | 157,943 | 158,705 | 158,865 | 158,947 | 159,020 | 159,098 |
| Civilian labor torge | 103,758 | 105,100 | 105,542 | 104,517 | 106,411 | 106,108 | 105,796 | 105,988 | 106,312 |
| Participation rate | 65.7 | 66.1 | 66.3 | 00.2 | 100.4 | 101 183 | 101 278 | 101 644 | 101.458 |
| Employed | 99,141 | 100,435 | 100,941 | 63.1 | 63.4 | 83.7 | 63.7 | 63.9 | 63.8 |
| Employment-population ratio" | 4 617 | 4 664 | 4 601 | 4,854 | 4.844 | 4,923 | 4.521 | 4,434 | 4,854 |
| Unemployed | 4.5 | 4.4 | 4.4 | 4.6 | 4.6 | 4.6 | 4.3 | 4.2 | 4.6 |
| | | | | | | | | | |
| Men, 20 years and over | 54,430 | *55.070 | 55,207 | 54,653 | 54,898 | 55,213 | 55,308 | 55,382 | 55,448 |
| Contraction rate | 78.1 | 78.2 | 78.3 | 78.4 | 78.2 | 78.5 | 78.6 | 78.6 | 78.7 |
| Emologi | 52,275 | 52,800 | 53,033 | 52,478 | 52,636 | 53,007 | 53,197 | 53,387 | 53,246 |
| Employment-occulation ratio ² | 75.0 | 75.0 | 75.2 | 75.3 | 75.0 | 75.4 | 75.6 | 75.8 | /5.5 |
| Unemployed | 2,155 | 2,270 | 2,173 | 2,1/5 | 2,202 | 2,205 | 2,111 | 1,000 | 2,202 |
| Unemployment rate | 4.0 | 4.1 | 3.9 | 4.0 | 4.1 | 4.0 | 3.8 | 3.6 | 4.0 |
| Women, 20 years and over | 42,882 | 43.767 | 43,954 | 42,955 | 43,644 | 43,938 | 43,770 | 43,780 | 44,016 |
| Civitian labor force | 56.2 | 56.9 | 57.1 | 56.3 | 56.9 | 57.2 | 56.9 | 56.9 | 57.2 |
| Perception fate | 41,297 | 42,115 | 42,291 | 41,233 | 41,930 | 42,201 | 42,177 | 42,115 | 42,207 |
| Employed | 54.1 | 54.7 | 54.9 | 54.0 | 54.6 | 54.9 | 54.8 | 54.7 | 54,8 |
| Unampioyed | 1,586 | 1,652 | 1,663 | 1,722 | 1,/14 | 1,/34 | 1,563 | 1,000 | 1,810 |
| Unemployment rate | 3.7 | 3.8 | 3.8 | 4.0 | 3.8 | 3.8 | 3.0 | 3.0 | ~. |
| Both sexes, 16 to 19 years | | | | | | | | | |
| Olvilian tabor force | 8,445 | 6,262 | 6,382 | 6,909 | 59.6 | 50.6 | 577 | 587 | 59.0 |
| Participation rate | 54.2 | 53.9 | 55.0 | 6.052 | A 001 | 5 975 | 5 904 | 6.052 | 6.005 |
| Employed | 0,009 | 47.5 | 48.4 | 50.1 | 51.2 | 51.1 | 50.7 | 52.1 | 51.8 |
| Employment-population ratio | 878 | 742 | 765 | 957 | 868 | 983 | 816 | 774 | 843 |
| Unemployed | 13.6 | 11.9 | 12.0 | 13.9 | 12.6 | 14.1 | 12.1 | 11.3 | 12.3 |
| | 14.1 | 13.8 | 12.7 | 14.4 | 13.4 | 16.4 | 14.0 | 123 | 13.1 |
| Women | . 13.1 | 9.8 | 11.2 | 13.3 | 11.8 | 11.7 | 10.2 | 10.2 | 11.5 |
| BLACK | | | | | | | ł | | |
| | 20,622 | 20,930 | 20,958 | 20,622 | 20,842 | 20,877 | 20,905 | 20,930 | 20,956 |
| Chillion labor force | 12,941 | 13,243 | 13,121 | 13,101 | 13,405 | 13,477 | 13,476 | 13,425 | 13,287 |
| Perticipation rate | . 62.6 | 63.3 | 62.6 | 63.5 | 64.3 | 64.6 | 64.5 | 64.1 | 63.4 |
| Employed | . 11,394 | 11,761 | 11,699 | 11,534 | 11,856 | 11,860 | 11,8/3 | 11,801 | 11,040 |
| Employment-population ratio* | . 55.3 | 56.2 | 55.6 | 1 547 | 1 6.40 | 1 617 | 1 403 | 1 484 | 1 442 |
| Unemployed | 1,54/ | 1403 | 10.8 | 12.0 | 11.8 | 12.0 | 11.9 | 10.9 | 10.8 |
| Unemployment rate | | | 1 | | | | | | |
| Men, 20 years and over | 6 142 | 6.187 | 6,165 | 6,151 | 6,179 | 6,226 | 6,199 | 6,230 | 6,171 |
| Civilian tabor toros | 75.1 | 74.3 | 73.9 | 75.2 | 74.6 | 75.0 | 74.6 | 74.8 | 74.0 |
| Periodeand | 5,467 | 5,541 | 5,515 | 5,510 | 5,561 | 5,576 | 5,549 | 5,620 | 5,554 |
| Employed | . 66.8 | 66.6 | 66.1 | 67.3 | 67.1 | 67.2 | 66.7 | 67.5 | 66.6 |
| Unemployed | . 675 | 646 | 650 | 641 | 518 | 650 | 10.5 | 1 00 | 100 |
| Unemployment rate | . 11.0 | 10.4 | 10.5 | 10.4 | 10.0 | 10.4 | 10.5 | 9.0 | 10.0 |
| Women, 20 years and over | | | 8 174 | 6 112 | 6 316 | 6 369 | 6 349 | 6.315 | 6.227 |
| Civilian labor force | 59 1 | 60.2 | 59.1 | 59.6 | 60.9 | 61.2 | 61.0 | 60.5 | 59.6 |
| Participation rate | 5.412 | 5,699 | 5,637 | 5,444 | 5,654 | 5,706 | 5,697 | 5,739 | 5,677 |
| Employee | . 52.7 | 54.6 | 54.0 | 53.1 | 54.5 | 54.8 | 54.7 | 55.0 | 54.3 |
| Employment | . 650 | 582 | : 536 | 668 | 662 | 663 | 651 | 576 | 550 |
| Unemployment rate | 10.7 | 9.3 | 6.7 | 10.9 | 10.5 | 10.4 | 10.3 | 9.1 | 8.8 |
| Both sexes, 16 to 19 years | | _ | | | | | | | |
| Civilian labor force | 737 | 77 | 783 | 838 | 910 | 881 | 921 | 880 | 889 |
| Participation rate | 33.6 | 35.0 | 35.0 | 38.5 | 0 41./ 0 844 | 67 | 627 | 602 | 615 |
| Employed | | 200 | 1 251 | 28.6 | 20 | 28 | 28.0 | 27.7 | 28.3 |
| Employment-population ratio" | - 221 | 25 | 236 | 254 | 26 | 30 | 30 | 278 | 274 |
| Unemployed | 30.0 | 321 | 30.2 | 30.8 | 29.6 | 3 34. | i 32.4 | 31.6 | 30.8 |
| | 24.8 | 29. | 3 33.6 | 27.9 | 29.6 | 36.1 | / 33. | 28.6 | 35.5 |
| Women | 35.6 | 36. | t 26.€ | 33.9 | 29.3 | 3 32.0 | 31.0 | 34.8 | 26.2 |
| | L | | | | J | | 1 | | |

See footnotes at end of table.

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HOUSEHOLD DATA

Table A-3. Employment status of the civilian population by race, sex, age, and Hispanic origin-Continued

(Numbers in thousands)

| | Not sea | sonatly e | djusted | • | 5 | iessonally | adjusted | | |
|---|--|--|--|--|--|--|--|--|---|
| Employment status, race, sex, age, and Hispanic orgin | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 |
| HISPANIC ORIGIN | | | | | | | | | |
| Civilian noninstitutional population Civilian noninstitutional population Participation rate Employed Employed Unemployed Unemployed Unemployed | 13,230 8,773 66.3 8,002 60.5 771 8,8 | 13,649 9,109 68.7 8,504 62.3 605 6.6 | 13,690 9,210 67,3 8,481 61.8 749 8,1 | 13,230 8,823 66.7 8,030 60.7 793 9.0 | 13,533 9,133 67.5 8,441 62.4 692 7.6 | 13,564 9,205 67,9 8,434 62,2 771 8,4 | 13,606 9,219 67.8 8,596 63.2 624 6.8 | 13,649 9,210 67.5 8,507 63.1 603 5.5 | 13,690 9,262 67,7 8,495 62,1 767 |

¹ The population figures are not adjusted for seasonal variation; nerefore, identical numbers appear in the unadjusted and seasonaby disisted columns. ² Ovtian employment as a percent of the civilian noninstitutional adin

population. NOTE: Detail for the above race and Hispanic-origin groups with not sum to tratis because date for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

HOUSEHOLD DATA

Table A-4. Selected employment indicators

(in thousands)

| | Not se | asonally a | djusted | | | Seasonally | y adjusted | ı – | |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Category | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 |
| CHARACTERISTIC | | | | | | | | | |
| Civilian employed 16 years and over | 113.905 | 115.844 | 116.347 | 114,660 | 116.009 | 116.711 | 116.853 | 117.136 | 117 113 |
| Married men spouse present | 40,338 | 40,754 | 40.726 | 40,494 | 40,483 | 40,925 | 40.928 | 41.083 | 40 890 |
| Married women, spouse present | 26.888 | 29.628 | 29.804 | 28,772 | 29.053 | 29,589 | 29.412 | 29,569 | 29.656 |
| Women who maintain families | 6,109 | 6,275 | 6,255 | 6,091 | 6,399 | 6,416 | 6,385 | 6,256 | 6,243 |
| MAJOR INDUSTRY AND CLASS OF WORKER | | | | | | | | | |
| Agriculture: | | | | | | | | | |
| Wage and salary workers | . 1,688 | 1,517 | 1,608 | 1,632 | 1,698 | 1,684 | 1,645 | 1,656 | 1,554 |
| Self-employed workers | . 1,356 | 1,298 | 1,385 | 1,390 | 1,349 | 1,387 | 1,419 | 1,403 | 1,419 |
| Unpaid family workers | . 149 | 119 | 123 | 152 | 149 | 189 | 150 | 138 | 124 |
| Nonagricultural industries: | 1 | | | | | | | | |
| Wage and salary workers | 101,897 | 104,143 | 104,301 | 102,562 | 103,904 | 104,510 | 104,797 | 104,982 | 104,985 |
| Government | . 17,236 | 17,625 | 17,403 | 17,012 | 17,423 | 17,393 | 17,311 | 17,382 | 17,180 |
| Private industries | . 84,660 | 86,518 | 86,898 | 85,550 | 86,481 | 87,117 | 87,486 | 87,600 | 87,806 |
| Private households | . 1.087 | 1,084 | 1.091 | 1,114 | 1,210 | 1,196 | 1,135 | 1,163 | 1,117 |
| Other industries | . 83,573 | 85,434 | 85,807 | 84,436 | 65,271 | 85,921 | 66,350 | 86,437 | 66,689 |
| Self-employed workers | . 8,533 | 8,420 | 8,636 | 8,567 | 8,602 | 8,718 | 8,517 | 8,645 | 8,671 |
| Unpaid family workers | . 263 | 347 | 293 | 2/2 | 266 | 298 | 285 | 332 | 261 |
| PERSONS AT WORK PART TIME' | | | | | | | | ł | |
| All industries: | | | | l | ł | | 1 | | |
| Part time for economic reasons | 4,851 | 4,784 | 4,783 | 5,212 | 5,321 | 5,097 | 4,981 | 4,968 | 5,143 |
| Slack work | . 2,167 | 2,306 | 2,266 | 2,264 | 2,549 | 2,302 | 2,303 | 2,232 | 2,373 |
| Could only find part-time work | . 2,287 | 2,204 | 2,204 | 2,519 | 2,410 | 2,352 | 2,333 | 2,393 | 2,425 |
| Voluntary part time | 16,082 | 16,510 | 16,676 | 14,949 | 15,363 | 15,401 | 15,126 | 15,561 | 15,498 |
| Nonagnoultural industries: | | 1 | | | | | | ļ | |
| Part time for economic reasons | . 4,624 | 4,572 | 4,600 | 4,953 | 5,033 | 4,837 | 4,697 | 4,709 | 4,930 |
| Slack work | . 2,053 | 2,148 | 2,158 | 2,131 | 2,377 | 2,144 | 2,105 | 2,048 | 2,243 |
| Could only find part-time work | . 2,196 | 2,155 | 2,146 | 2,426 | 2,307 | 2,283 | 2,272 | 2.317 | 2,369 |
| Voluntary part time | 15,540 | 16,095 | 16,205 | 14,441 | 14,928 | 14,970 | 14,689 | 15.127 | 15,060 |

Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

HOUSEHOLD DATA

Table A-6. Range of une d on varying d of u nd the leb or force, e ily adjusted e b nt r (Percent)

| _ | | | Quer | arly ave | ngee | | . Ma | onthiy de | ita |
|------|--|-----|------|----------|------|------|------|-----------|------|
| | Measure | | 19 | 68 | | 1969 | | 1989 | |
| | | | n | m | IV | | Feb. | Mar. | Apr. |
| Ų-1 | Persons unemployed 15 weeks or longer as a percent of the ovilian labor force | 1.4 | 1.3 | 1.3 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 |
| U-2 | Job losers as a percent of the civilian labor force | 2.6 | 2.5 | 2.5 | 25 | 2.4 | 2.3 | 23 | 2.4 |
| U-3 | Unemployed persons 25 years and over as a percent of the civilian lator force | 4.4 | 4.2 | 4.2 | 4.1 | 4.0 | 4.0 | 3.9 | 4.1 |
| U4 | Unemployed full-time jobsesters as a percent of the full-time civilian labor force | 5.3 | 5.1 | 5.1 | 5.0 | 4.0 | 4.8 | 4.8 | 5.0 |
| U-6i | t Total unemployed as a percent of the labor force, including the resident Armed Forces | 5.6 | 5.4 | 5.4 | 5.3 | 5.1 | 5.1 | 4.9 | 5.2 |
| U-91 | Total unemployed as a percent of the civilian labor force | 5.7 | 5.5 | 5.5 | 5.3 | 5.2 | 5.1 | 5.0 | 5.3 |
| U-6 | Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons as a percent of the chillen tabor force less 1/2 of the part-time tabor force | 7.9 | 7.6 | 7.6 | 7.5 | 7.2 | 7.2 | 7.1 | 7.4 |
| U-7 | Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for sconomic reasons plus discuraged workers as a percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force | 8.7 | 6.3 | 8.4 | 8.2 | 7.9 | N.A. | NA | N.A. |

N.A. = not available.

Table A-6. Selected unemployment indicators, seasonally adjust d

| Cetagory | unem (ir | Number of ployed per thousand | vons s) | | ı | Jnemployn | nent rates' | | |
|---|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Apr. 1968 | Mar. 1989 | Apr. 1989 | Apr. 1968 | Dec. 1968 | Jan. 1989 | Feb. 1989 | Mar. 1969 | Apr. 1969 |
| CHARACTERISTIC | | | | | | | | | |
| Total, 16 years and over | 6,668 | 6,128 3,270 | 6,546 | 5.5 5.4 | 5.3 | 5.4 | 5.1 6.2 | 5.0 | 5.3 |
| Men, 10 years and over | 2 941 | 2 688 | 2 952 | 47 | 47 | 4.6 | 45 | 4.2 | 4.6 |
| Man, 20 years and over | 3072 | 2 858 | 2 953 | 5.6 | 6.4 | 5.4 | 60 | | |
| Woman, 10 years and over | 2 471 | 2 367 | 2 448 | 49 | 47 | 47 | 4.5 | | 47 |
| Both sexes, 16 to 19 years | 1,256 | 1,073 | 1,146 | 15.8 | 14.8 | 16.4 | 14.8 | 13.7 | 14.4 |
| Married men, spouse present | 1,294 | 1,209 | 1,347 | 3.1 | 3.1 | 3.1 | 3.1 | 2.9 | 3.2 |
| Married women, spouse present | 1,143 | 1,074 | 1,247 | 3.8 | 3.7 | 3.6 | 3.4 | 3.5 | 4.0 |
| Women who maintain families | 566 | 533 | 513 | 8.5 | 8.2 | 8.0 | 8.0 | 7,9 | 7.6 |
| Full-time workers | 5,338 | 5,028 | 5,247 | 5.1 | 5.1 | 5.0 | 4.8 | 4.6 | 5.0 |
| Part-time workers | 1,311 | 1,120 | 1,295 | 7.5 | 7.0 | 7.9 | 7.3 | 6.2 | 7.2 |
| Labor force time lost' | | ~ | - | 6.2 | 6.3 | 6.2 | 5.9 | 5.8 | 6.0 |
| INDUSTRY | | | | | | | | | |
| Nonagricultural private wage and salary workers | 4,848 | 4,636 | 5,003 | 5.4 | 5.4 | 5.6 | 5.1 | 5.0 | 5.4 |
| Goods-producing industries | 1,895 | 1,710 | 1,753 | 6.5 | 6.4 | 6.4 | 6.1 | 5.8 | 6.0 |
| Mining | 67 | 51 | 42 | 8.1 | 7.7 | 6.1 | 8.0 | 7.0 | 5.6 |
| Construction | 6/4 | 610 | 616 | 10.6 | 10.4 | 10.4 | 10.0 | 9.4 | 9.7 |
| Manufacturing | 1,154 | 1,058 | 1,095 | 5.3 | 5.2 | 5.3 | 4.9 | 4.8 | 4.9 |
| Durable goods | 628 | 008 | 014 | 4.0 | 5.0 | 5.0 | 4.4 | 4.7 | 4.7 |
| Nondurable goods | 526 | 450 | 481 | 5.9 | 5.5 | 5.7 | 5.5 | 4.9 | 5.2 |
| Service-producing industries | 2,953 | 2,918 | 3,250 | 4.8 | 4.9 | 5.2 | 4.7 | 4.6 | 5.1 |
| Transportation and public utilities | 246 | 254 | 265 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 |
| Wholesale and retail trade | 1,335 | 1,294 | 1,381 | 5.9 | 6.3 | 6.3 | 5.6 | 5.6 | 5.9 |
| Finance and service industries | 1,372 | 1,371 | 1,604 | 4.3 | 4.1 | 4.7 | 4.3 | 4.1 | 4.8 |
| Government workers | 521 | 465 | 485 | 3.0 | 27 | 27 | 2.7 | 2.6 | 2.7 |
| Agricultural wage and salary workers | 202 | 161 | 183 | 11.0 | 8.8 | 9.5 | 8.9 | 6.9 | 10.5 |
| | L | | L | | | 1 | | 1 | 1 |

¹ Unemployment as a percent of the civilian labor force.
² Aggregate hours lost by the unemployed and persons on part time for

economic reasons as a percent of potentially available labor force hours.

Table A-7. Duration of unemployment

(Numbers in thousands)

| | Net sea | senally as | ljusted | Besonally adjusted | | | | | | |
|-----------------------|---------|------------|---------|--------------------|-------|-------|-------|-------|-------|--|
| Weeks of unemployment | Apr. | Mar. | Apr. | Apr. | Dec. | Jan. | Feb. | Mar, | Apr. | |
| | 1988 | 1888 | 1949 | 1968 | 1966 | 1989 | 1949 | 1989 | 1989 | |
| DURATION | | 1 | | } | | | | | | |
| Lose than 8 weeks | 2,781 | 2,786 | 2,778 | 3,083 | 3.029 | 3,181 | 3,247 | 3,085 | 3,090 | |
| | 1,781 | 2,072 | 1,804 | 1,869 | 8.029 | 2,081 | 1,865 | 1,821 | 8,034 | |
| | 1,827 | 1,650 | 1,847 | 1,642 | 1.485 | 1,512 | 1,304 | 1,210 | 1,425 | |
| | 963 | 851 | 878 | 768 | 758 | 767 | 665 | 648 | 689 | |
| | 864 | 899 | 789 | 828 | 737 | 765 | 639 | 663 | 737 | |
| | 14,4 | 12.9 | 13.6 | 13.6 | 12.8 | 12.7 | 12.1 | 12,4 | 12.7 | |
| | 8.8 | 6.6 | 6.3 | 5.8 | 5.8 | 6.7 | 6.3 | 6,4 | 5.4 | |
| PERCENT DISTRIBUTION | | | | | | | | | | |
| Total unemployed | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| | 43.7 | 43.2 | 44.8 | 48.6 | 48.2 | 47.0 | 60.6 | 49.4 | 47.2 | |
| | 27.5 | 32.5 | 29.0 | 29.6 | 31.1 | 30.7 | 29.1 | 29.4 | 31.1 | |
| | 28.7 | 24.3 | 26.4 | 23.8 | 22.8 | 22.3 | 20.3 | 21.2 | 21.6 | |
| | 15.1 | 13.3 | 14.1 | 11.4 | 11.5 | 11.2 | 10.4 | 10.5 | 10.5 | |
| | 13.8 | 11.0 | 12.3 | 12.4 | 11.2 | 11.1 | 10.0 | 10.7 | 11.3 | |

Table A-8. Reason for unemployment

(Numbers in thousands)

| | Not ee | sonally a | ljusted | | | Seasonally | edjusted | | |
|--|--------|-----------|---------|-------|-------|------------|----------|-------|-------|
| Reasons | Apr. | Mar. | Apr. | Apr. | Dec. | Jan. | Feb. | Mar. | Apr. |
| | 1988 | 1989 | 1989 | 1968 | 1968 | 1969 | 1989 | 1969 | 1989 |
| NUMBER OF UNEMPLOYED | | | | | | | | | |
| Job Iosers | 2,977 | 3,176 | 2,990 | 2,968 | 3,066 | 3,121 | 2,876 | 2,831 | 2,984 |
| | 785 | 996 | 787 | 844 | 819 | 827 | 774 | 608 | 847 |
| | 2,192 | 2,180 | 2,203 | 2,124 | 2,247 | 2,294 | 2,102 | 2,023 | 2,137 |
| | 895 | 850 | 889 | 965 | 998 | 985 | 985 | 685 | 978 |
| | 1,643 | 1,721 | 1,720 | 1,804 | 1,725 | 1,835 | 1,740 | 1,730 | 1,894 |
| | 843 | 631 | 630 | 886 | 799 | 780 | 765 | 713 | 671 |
| PERCENT DISTRIBUTION | | 1 | | | l | | | 1 | |
| Total unemployed | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 46.8 | 49.8 | 48.0 | 44.7 | 46.5 | 46.4 | 45.2 | 46.0 | 45.7 |
| | 12.3 | 15.6 | 12.6 | 12.7 | 12.4 | 12.3 | 12.2 | 13.1 | 13.0 |
| | 34.5 | 34.2 | 35.4 | 32.0 | 34.1 | 34.1 | 33.0 | 32.8 | 32.7 |
| | 14.1 | 13.3 | 14.3 | 14.6 | 15.1 | 14.7 | 15.5 | 14.4 | 15.0 |
| | 25.8 | 27.0 | 27.6 | 27.2 | 26.2 | 27.3 | 27.3 | 26.1 | 29.0 |
| | 13.3 | 9.9 | 10,1 | 13.3 | 12.1 | 11.6 | 12.0 | 11.6 | 10.3 |
| UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE | | - | | - 2. | | i | | | |
| Job losers | 2.5 | 2.6 | 2.4 | 2.4 | 2.5 | 2.5 | 2.3 | 2.3 | 2.4 |
| | .7 | .7 | .7 | .6 | .8 | .8 | .8 | .7 | .8 |
| | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.5 |
| | .7 | .5 | .5 | .7 | .7 | .6 | .6 | .6 | .5 |

•

Table A-9. Unemployed persons by sex and ege, associally adjusted

| 5 | t unem; (in | lumber of ployed per thousands | sons | Unemployment rates | | | | | | |
|--------------------------|-------------------|--------------------------------------|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--|
| Sex and age | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 | |
| | | 6 129 | 6 546 | 5.5 | 5.3 | 5.4 | 5.1 | 5.0 | 5.3 | |
| Total, 16 years and over | 2 6 1 8 | 2 182 | 2 744 | 11.2 | 10.9 | . 11.9 | 10.5 | 9.8 | 10.5 | |
| 16 to 24 years | 1 366 | 1072 | 1 146 | 15 A | 14.6 | 16.4 | 14.8 | 13.7 | 14.4 | |
| 16 to 19 years | 590 | 477 | 463 | 17.7 | 16.6 | 18.3 | 18.2 | 15.3 | 14.9 | |
| 15 to 17 years | 450 | 507 | 667 | 14 1 | 13.3 | 15.4 | 12.7 | 12.5 | 13.8 | |
| 18 to 19 years | 1 363 | 1 100 | 1 198 | 87 | 87 | 93 | 8.1 | 7.7 | 8.4 | |
| 20 to 24 years | 1,202 | 2,021 | | 4.2 | 41 | 41 | 40 | 3.9 | 41 | |
| 25 years and over | 0,144 | 3,821 | 2.761 | | | | 42 | A 1 | 44 | |
| 25 to 54 years | 3,090 | 3,342 | 3,761 | 20 | 30 | 31 | 31 | 28 | 29 | |
| 55 years and over | 400 | 380 | 431 | 3.0 | 0.0 | 0.1 | | | C | |
| Men. 16 years and over | 3,596 | 3,270 | 3,593 | 5.4 | 5.3 | 5.5 | 5.2 | 4.8 | 5.3 | |
| 16 th 24 years | 1,321 | 1,128 | 1,238 | 11.2 | 11.1 | 12.8 | 11.1 | 9.7 | 10.7 | |
| 16 to 19 years | 655 | 582 | 641 | 15.9 | 15.4 | 18.6 | 16.7 | 14.2 | 15.5 | |
| 16 to 17 years | 300 | 258 | 274 | 178 | 17.3 | 20.6 | 19.6 | 15.8 | 17.0 | |
| | 355 | 330 | 368 | 14.7 | 13.5 | 17.9 | 15.1 | 13.2 | 14.6 | |
| 20 to 24 years | 666 | 546 | 597 | 8.7 | 8.7 | 9.6 | , 8.1 | 7.2 | 8.0 | |
| 20 to 24 years and over | 2,270 | 2,136 | 2,344 | 4.1 | 4.1 | • 4.0 | 4.0 | 3.8 | 4.2 | |
| 25 to 54 ware | 1,994 | 1,890 | 2,076 | 4.3 | 4.3 | 4.2 | 4,1 | 4.0 | 4.4 | |
| 55 years and over | 281 | 246 | 283 | 3.2 | 3.3 | 3.0 | 3.4 | 2.8 | 3.2 | |
| Manual 18 under and put | 3.072 | 2,858 | 2,953 | 5.6 | 5.4 | 5.4 | 5.0 | 5.1 | 5.3 | |
| | 1,197 | 1.054 | 1,106 | 11.1 | 10.7 | 10.9 | 9.7 | 10.0 | 10.4 | |
| 10 10 24 998813 | 601 | 491 | 505 | 15.6 | 14.2 | 14.0 | , 12.8 | 13.1 | 13.2 | |
| 10 10 19 90019 | 280 | 219 | 189 | 17.7 | 15.6 | 15.9 | 16.8 | 14.8 | 12.7 | |
| 10 10 17 years | 303 | 267 | 299 | 13.5 | 13.1 | 12.7 | 10.0 | 11.7 | 12.8 | |
| 10 LO 19 YBBIS | 596 | 563 | 601 | 8.6 | 8.7 | 9.1 | 8.0 | 8.3 | 8.9 | |
| 20 to 24 years | 1 874 | 1 784 | 1.847 | 4.3 | 4.1 | 4,1 | 3.9 | 4.0 | 4.1 | |
| 25 years and over | 1 702 | 1 652 | 1 685 | 4.6 | 4.4 | 4.3 | 4.2 | 4.3 | 4.4 | |
| 25 to 54 years | 179 | 151 | 169 | 2.8 | 2.6 | 3.1 | 2.5 | 2.3 | 2.6 | |

' Unemployment as a percent of the civilian labor force.

Table A-10. Employment status of black and other workers

(Numbers in thousands)

| Employment status | Not set | isonally ac | ijusted | Sessonally adjusted | | | | | | | |
|------------------------------------|--|--|---|--|--|--|--|---|---|--|--|
| | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1969 | Mar. 1989 | Apr. 1989 | | |
| Colian noninstitutional population | 26,289 16,506 62.8 14,764 56.2 1,742 10.6 9,783 | 26,877 17,123 63,7 15,409 57,3 1,714 10,0 9,754 | 26,926 17,034 63.3 15,406 57.2 1,628 9,8 9,892 | 26,289 16,777 63.8 14,998 57,1 1,779 10.6 9,512 | 26,697 17,172 64.3 15,457 57.9 1,715 10.0 9,525 | 26,779 17,283 64.5 15,449 57,7 1,833 10.6 9,496 | 26,830 17,386 64.8 15,540 57.9 1,846 10.6 9,444 | 26,877 17,347 64.5 15,651 58.2 1,696 9.8 9,530 | 26,926 17,319 64.3 15,656 58.1 1,664 9,6 9,607 | | |

The population figures are not adjusted for seasonal vanation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

² Civilian employment as a percent of the civilian noninstitutional population.

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Table A-11. Occupational status of the employed and unemployed, not sessonally adjusted

(Numbers in thousands)

| | Civilian | employed | Unem | ployed | Unemployment rate | | |
|---|--------------|--------------|--------------|--------------|-------------------|--------------|--|
| Occupation | Apr. 1968 | Apr. 1989 | Apr. 1988 | Apr. 1989 | Apr. 1968 | Apr. 1989 | |
| Total, 16 years and over' | 113,905 | 116,347 | 6,359 | 6,229 | 5.3 | 5.1 | |
| Managerial and professional specialty | 29,238 | 30,568 | 511 | 556 | 1.7 | 1.8 | |
| Executive, administrative, and managerial | 14,152 | 14,777 | 278 | 296 | 1.9 | 2.0 | |
| Professional specialty | 15,066 | 15,791 | 233 | | 1.5 | | |
| Technical, sales, and administrative support | 35,401 | 35,837 | 1,301 | 1,347 | 3.5 | 3.6 | |
| Technicians and related support | 3,476 | 3,575 | 94 | 86 | 2.6 | 23 | |
| Sales occupations | 13,617 | 13,820 | 586 | 600 | 4.1 | 4.2 | |
| Administrative support, including clerical | 18,308 | 18,441 | 620 | 661 | 3.3 | 3.5 | |
| Service occupations | 15,114 | 15,204 | 1.032 | 1,149 | 6.4 | 7.0 | |
| Private household | 632 | 640 | 56 | 66 | 6.3 | 7.3 | |
| Protective service | 1,838 | 1,918 | 64 | 80 | 3.4 | 40 | |
| Service, except private household and protective | 12,444 | 12,446 | 911 | 1,003 | 6.6 | 7.5 | |
| Precision production, craft, and repair | 13,552 | 13,560 | 762 | 797 | 5.3 | 5.6 | |
| Mechanics and receivers | 4,522 | 4,555 | 153 | 205 | 3.3 | 4.3 | |
| Construction trades | 4,972 | 4,905 | 416 | 439 | 7.7 | 8.2 | |
| Other precision production, craft, and repair | 4,058 | 4,099 | 193 | 153 | 4.5 | 3.6 | |
| Operators, fabricators, and laborers | 17,196 | 17,886 | 1.621 | 1,503 | 6.6 | 7.8 | |
| Machine operators, assemblers, and inspectors | 7,855 | 8,257 | 678 | 650 | 7.9 | 7.3 | |
| Transportation and material moving occupations | 4,627 | 4,770 | 283 | 302 | 5.8 | 5.9 | |
| Handlers, equipment cleaners, helpers, and laborers | 4,714 | 4,859 | 659 | 552 | 12.3 | 10.2 | |
| Construction laborers | 739 | 755 | 208 | 157 | 22.0 | 17.2 | |
| Other handlers, equipment cleaners, helpers, and laborera | 3,975 | 4,104 | 451 | 394 | 10.2 | 8.8 | |
| Farming, forestry, and fishing | 3,404 | 3,292 | 230 | 221 | 6.3 | 6.3 | |

¹ Persons with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total.

Table A-12. Employment status of male Vistnam-era veterans and nonveterans by age, not seasonally adjusted

(Numbers in thousands)

| Veteran status and age | Gwl | ian | Civitian labor force | | | | | | | | | |
|---------------------------|-------------------|-------------------|----------------------|----------------|--------------|--------------|--------------|--------------|---------------------------|--------------|--|--|
| | noninsti poput | tutional ation | | • | | | Unemployed | | | | | |
| | | | Total | | Employed | | Number | | Percent of labor force | | | |
| | Apr. 1988 | Apr. 1969 | Apr. 1988 | Apr. 1989. | Apr. 1968 | Apr. 1989 | Apr. 1988 | Apr. 1989 | Apr. 1988 | Apr. 1989 | | |
| VIETNAM-ERA VETERANS | | | | | | | | | | | | |
| Total, 30 years and over | 7,891 | 7,918 | 7,290 | 7,212 | 6,981 | 6,939 | 309 | 273 | 4.2 | 3.8 | | |
| 30 to 44 years | 5,984 | 5,590 | 5,712 | 5,270 | 5,452 | 5,048 | 260 | 222 | 4.6 | 4.2 | | |
| 30 to 34 years | 2 25A | 1 840 | 2 152 | 1 731 | 2 071 | 1 639 | 39 | 92 | 3.5 | 53 | | |
| 40 to 44 years | 2,978 | 3.221 | 2.853 | 3.057 | 2,733 | 2,961 | 120 | 96 | 4.2 | 3.1 | | |
| 45 years and over | 1,907 | 2,328 | 1,578 | 1,942 | 1,529 | 1,891 | 49 | 51 | 3.1 | 2.6 | | |
| NONVETERANS | | | | | | | | | | | | |
| Total, 30 to 44 years | 20,206 | 21,259 | 19,025 | 20,100 | 18,221 | 19,239 | 804 | 861 | 4.2 | 4.3 | | |
| 30 to 34 years | 8,993 | 9,303 | 8,495 | 8,840 | 8,114 | 8,438 | 381 | 402 | 4.5 | 4.5 | | |
| 35 to 39 years | 6,71B 4,495 | 7,302 4,654 | 6,351 4,179 | 6,924 4,336 | 3,993 | 4,177 | 237 186 | 300 159 | 4.5 | 4,3 | | |

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data are limited to

those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

Table A-13. Employment status of the civilian population for eleven large States

(Numbers in thousands)

| | Not see | eonelly adj | usted' | | | Sessonally adjusted | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| State and employment statue | Apr. 1988 | Mar. 1969 | Apr. 1989 | Apr. 1988 | Dec. 1985 | Jan. 1969 | Feb. 1989 | Mar. 1969 | Apr. 1989 | |
| California | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force | 20,777 13,959 13,253 595 5.0 | 21,037 14,092 13,434 657 4.7 | 21,059 14,051 13,328 724 5.1 | 20,777 14,002 13,278 724 5.2 | 20,973 14,196 13,524 674 4.7 | 20,994 14,220 13,505 715 5.0 | 21,016 14,117 13,406 712 5.0 | 21,037 14,120 13,480 640 4.5 | 21,059 14,096 13,339 757 5,4 | |
| Florida | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force | 9,643 6,045 5,740 304 5.0 | 9,681 6,161 5,671 290 4.7 | 9,902 6,197 5,880 316 5.1 | 9,643 6,095 5,762 313 5.1 | 9,819 6,085 5,755 330 5,4 | 9,539 6,155 5,793 362 5.9 | 9,880 6,086 5,762 324 5.3 | 9,681 6,179 5,680 299 4.8 | 9,902 6,245 5,922 323 5,2 | |
| | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployed Unemployment rate | 8,729 5,656 5,237 419 7.4 | 8,702 5,894 5,531 363 6.2 | 6,699 5,680 5,544 337 5.7 | 6,729 5,731 5,327 404 7.0 | 8,712 5,817 5,429 388 6,7 | 8,709 5,837 5,491 346 5.9 | 8,706 5,976 5,663 313 5,2 | 6,702 5,963 5,648 335 5.6 | 8,699 5,960 5,640 320 5,4 | |
| Massachusetta | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployment rate | 4,595 3,133 3,041 91 2,9 | 4,598 3,156 3,028 128 4,1 | 4,598 3,178 3,061 118 3.7 | 4,595 3,151 3,058 93 3.0 | 4,598 3,150 3,043 107 3,4 | 4,598 3,166 3,063 103 3,3 | 4,598 3,205 3,094 111 3.5 | 4,598 3,160 3,051 109 3,4 | 4,598 3,197 3,077 120 3.8 | |
| Michigan | 1 | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployed Unemployment rate | 7,007 4,528 4,187 341 7.5 | 7,081 4,568 4,243 324 7,1 | 7,087 4,537 4,259 278 6.1 | 7,007 4,561 4,221 340 7.5 | 7,063 4,648 4,306 342 7,4 | 7,069 4,667 4,364 323 6.9 | 7,075 4,668 4,382 296 6.1 | 7,081 4,620 4,316 304 6.5 | 7,087 4,573 4,296 277 6,1 | |
| New Jersey | i . | | | ĺ | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate | 6,031 3,953 3,828 125 3.2 | 6,055 4,003 3,867 138 3,4 | 6,057 3,960 3,818 142 3.6 | 6,031 3,969 3,826 143 3.6 | 6,050 4,043 3,875 168 4.2 | 6,051 4,046 3,888 158 3.9 | 6,053 4,043 3,664 159 3,9 | 6,055 4,010 3,890 120 3.0 | 6,057 3,977 3,816 161 4.0 | |
| New York | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployed North Carolina | 13,792 8,238 7,955 283 3,4 | 13,806 8,491 8,099 392 4.6 | 13,807 8,647 - 6,166 480 5.6 | 13,792 8,426 8,113 313 3.7 | 13,807 8,580 8,177 403 4.7 | 13,806 8,621 8,196 423 4.9 | 13,807 8,701 8,258 443 5,1 | 13,808 8,540 8,173 367 4.3 | 13,807 8,841 8,328 513 5.8 | |
| | 4 890 | 4.983. | 4.991 | 4,690 | 4,959 | 4.967 | 4.975 | 4983 | 4.991 | |
| Critian Itor International population Critian Labor force Employed Unemployed Unemployment rate | 3,266 3,158 110 3.4 | 3,379 3,269 110 3.2 | 3,424 3,288 136 4.0 | 3,320 3,197 123 3.7 | 3,371 3,254 117 3.5 | 3,435 3,302 133 3.9 | 3,390 3,283 107 3.2 | 3,415 3,311 104 3.0 | 3,478 3,330 148 4.3 | |
| Ohio | | | 1 | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployment rate | 8,228 5,281 4,964 317 6.0 | 8,298 5,375 5,068 307 5.7 | 8,303 5,357 5,085 273 5.1 | 8,228 5,301 4,970 331 6.2 | 6,281 5,355 5,060 295 5.5 | 8,286 5,426 5,094 332 6.1 | 8,292 5,432 5,152 280 5.2 | 8,298 5,428 5,144 284 5,2 | 8,303 5,381 5,093 288 5,4 | |

See footnotes at end of table.

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Table A-13. Employment status of the civilian population for eleven large States-Continued

(Numbers in thousands)

| State and employment statue | Not sea | sonally adj | usted' | Seasonally adjusted' | | | | | | | |
|--------------------------------------|--------------|--------------|--------------|----------------------|--------------|--------------|--------------|--------------|--------------|--|--|
| | Apr. 1988 | Mar. 1989 | Apr. 1989 | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1969 | Apr. 1989 | | |
| Pennaytvania | | | | | | | | | | | |
| Civilian noninstitutional population | 9,355 | 9,413 | 9,418 | 9,355 | 9,400 | 9,404 | 9,409 | 9,413 | 9,416 | | |
| Civitian labor force | 5,680 | 5,892 | 5,840 | 5,778 | 5,816 | 5,947 | 5,932 | 6,012 | 5.940 | | |
| Employed | 5,419 | 5,642 | 5,606 | 5,490 | 5,543 | 5,689 | 5,679 | 5,778 | 5.677 | | |
| Unemployed | 261 | 250 | 234 | 288 | 273 | 258 | 253 | 234 | 263 | | |
| Unemployment rate | 4.6 | 4.2 | 4.0 | 5.0 | 4.7 | 4.3 | 4.3 | 3.9 | 4.4 | | |
| Texas | | | | | | | i | | | | |
| Civilian noninstitutional population | 12,013 | 11,991 | 11,968 | 12,013 | 12,000 | 11,997 | 11,994 | 11,991 | 11,988 | | |
| Civitian labor force | 8,204 | 6,160 | 8,242 | 8,305 | 8,284 | 8,303 | 8,254 | 6,263 | 8.350 | | |
| Employed | 7,629 | 7,642 | 7,666 | 7,686 | 7,693 | 7,713 | 7,703 | 7,768 | 7,725 | | |
| Unemployed | 575 | 518 | 576 | 619 | 591 | 590 | 551 | 495 | 621 | | |
| Unemployment rate | 7.0 | 6.3 | 7.0 | 7.5 | 7.1 | 7,1 | 6.7 | 6.0 | 7.4 | | |

These are the official Bureau of Labor Statistics' estimates used in the administration of Federal fund allocation programs.
 The population figures are not adjusted for seasonal variation; therefore,

identical numbers appear in the unadjusted and the seasonally adjusted columns.

ESTABLISHMENT DATA

Table 3-1. Employees on nonagricultural payrolls by industry (In thousands)

| | Not | seasona | lly adju | sted | Seasonally adjusted | | | | | | |
|--|--|---|---|--|--|--|--|--|--|--|--|
| Industry | Apr. | Feb. | Mar. | Apr. | Apr. | Dec. | Jan. | Feb. | Mar. | Apr. | |
| | 1988 | 1989 | 1989 <u>e</u> / | 1989 <u>e</u> / | 1988 | 1988 | 1939 | 1989 | 1989 <u>e</u> / | 1989g/ | |
| Total | 105.159 | 106,937 | 107,606 | 108,496 | 105,281 | 107,641 | 108.065 | 108.341 | 108.512 | 108 629 | |
| Total private | 87,505 | 89.041 | 89,635 | 90,544 | 87,973 | 98,100 | 90.506 | 98,725 | 90,898 | 91,029 | |
| Goods_producing industries | 25.180 | 25.314 | 25,444 | 25,726 | 25,435 | 25.889 | 26.048 | 26,011 | 25,986 | 25,991 | |
| Mining | 729 | 705 | 711 | 720 | 737 | 719 | 718 | 716 | 720 | · 728 | |
| Oil and gas extraction | 414.9 | 400.2 | 401.8 | 404.3 | 421 | 402 | 400 | 401 | 406 | | |
| Censtruction | 5,081 | 4,957 | 5,052 | 5,320 | 5,238 | 5,430 | 5.537 | 5,514 | 5,479 | 5,485 | |
| General building contractors | 1,348.0 | | 1,321.1 | 1,354.6 | 1,400 | 1,414 | 1.444 | 1,437 | 1,414 | 1,407 | |
| Manufacturing | 19.370 | 19.652 | 19,681 | 19,686 | 19,460 | 19,740 | 19,793 | 19,781 | 19,787 | 19,778 | |
| Production workers | 13.213 | 13.398 | 13,425 | 13,431 | 13,280 | 13,481 | 13,518 | 13,510 | 13,512 | 13,501 | |
| Durable goods | 11,433 | 11,610 | 11.619 | 11,619 | 11,459 | 11.651 | 11.686 | 11,667 | 11.653 | 11.646 | |
| Production workers | 7,618 | 7,734 | 7,744 | 7,746 | 7,632 | 7,776 | 7,799 | 7,781 | 7,766 | | |
| Lumber and wead products. Furniture and fixtures. Stone. clay, and glass resolution. Primery wests industries. Fabricated estal products. Fabricated estal products. Elactrical and elactronic suupmant. Mator whiches and exupment. Instruments and related products. Miscollameous manufacturing. | 743.7 534.4 583.8 775.7 280.9 1,439.2 2,115.1 2,108.4 2,044.8 848.4 705.7 381.9 | 744.0 542.6 569.6 280.6 1.479.1 2,206.0 2.109.5 2,053.9 859.3 727.7 381.6 | 744.5 543.0 576.8 798.4 281.2 1,479.3 2,210.9 2,102.4 854.0 729.9 384.9 | 744.3 544.9 587.4 798.3 280.7 1,477.2 2,210.1 2,045.3 2,045.3 853.1 730.2 385.7 | 758 535 587 773 281 1,444 2,111 2,117 2,045 848 706 383 | 771 540 592 280 1,479 2,190 2,123 2,051 858 726 385 | 775 540 593 796 281 1.487 2.198 2.118 2.086 727 727 386 | 769 542 593 794 281 1,487 2,204 2,114 2,04 2,114 2,114 2,04 2,114 3858 388 | 765 544 591 795 281 1,485 2,204 2,109 2,042 849 731 387 | 759 545 590 281 1,482 2,206 2,104 2,104 2,104 852 731 387 | |
| Nondurable goods | 7.937 | 8.042 | 8,062 | 8,067 | 8,001 | 8,089 | 8.107 | 8,114 | 8,134 | 8,132 | |
| Production workers | 5.595 | | 5,681 | 5,685 | 5,648 | 5,705 | 5,719 | 5,729 | 5,746 | 5,741 | |
| Food and kindred products | 1,590.8 50.5 726.5 1,101.8 684.0 1,555.5 1,052.7 164.1 865.6 145.1 | 1,605.0 52.9 723.8 1,101.5 687.1 1,596.4 1,077.0 163.5 891.2 143.8 | 1,604.4 51.3 724.3 1,107.2 688.4 1,600.7 1,080.9 164.8 895.7 144.2 | 1,608.0 48.2 725.2 1,105.3 688.1 1,604.3 1,082.5 167.4 894.8 143.4 | 1,648 54 727 1,100 687 1,554 1,056 165 864 146 | 1,656 53 722 1,096 692 1,592 1,076 1,076 168 890 144 | 1.663 52 727 1.097 692 1.598 1.080 166 887 145 | 1.660 53 726 1,103 691 1,596 1,082 167 891 145 | 1,663 53 726 1,108 692 1,601 1,083 1,083 1,083 1,67 895 146 | 1,666 51 726 1,103 1,603 1,686 1,686 1,686 1,686 1,686 1,686 | |
| Service-producing industries | 79,979 | 81,623 | 82,162 | 82,770 | 79,846 | 81,752 | 82,017 | 82,330 | 82,526 | 82,638 | |
| Transportation and public utilities | 5,511 | 5,635 | 5,642 | 5,685 | 5,543 | 5,670 | 5,692 | 5,705 | 5.701 | 5,718 | |
| Transportation | 3,275 | 3,596 | 3,401 | 3,439 | 3,298 | 3,422 | 3,441 | \$,455 | 3.449 | 3,463 | |
| Communication and public utilities | 2,236 | 2,239 | 2,241 | 2,246 | 2,245 | 2,248 | 2,251 | 2,250 | 2.252 | 2,255 | |
| Nholezale trade | 6,065 | 6.305 | 6,337 | 6,373 | 6,089 | 6,301 | 6,332 | 6,361 | 6,388 | 6,399 | |
| Dursble goods | 3,603 | 3,794 | 3,815 | 3,828 | 3,610 | 3,779 | 3,796 | 3.817 | 3,838 | 3,836 | |
| Nondurable goods | 2,462 | 2,511 | 2,522 | 2,545 | 2,479 | 2,522 | 2,556 | 2,544 | 2,550 | 2,563 | |
| Retail trade | 18,883 | 19,089 | 19,236 | 19,477 | 19,093 | 19,429 | 19,556 | 19.619 | 19,689 | 19.694 | |
| Oenaral merchandise stores. | 2,448.9 | 2,487.5 | 2,483.3 | 2,500.0 | 2,546 | 2,544 | 2,563 | 2,570 | 2,592 | 2.599 | |
| Food stores. | 3,015.1 | 3,166.9 | 3,178.5 | 3,185.8 | 3,049 | 3,177 | 3,195 | 3,202 | 3,224 | 3.221 | |
| Automotive dealers and service stations. | 2,055.4 | 2,085.2 | 2,094.5 | 2,112.0 | 2,064 | 2,106 | 2,109 | 2.115 | 2,116 | 2.120 | |
| Esting and drinking places | 6,313.3 | 6,213.5 | 6,338.0 | 6,514.6 | 6,326 | 6,449 | 6,466 | 6,493 | 6,514 | 6.528 | |
| Finance, insurence, and real estate | 6,628 | 6,689 | 6.708 | 6.732 | 6,650 | 6,741 | 6,733 | 6.757 | 6,761 | 6.755 | |
| Finance. | 3,292 | 3,312 | 3,318 | 3.320 | 3,302 | 3,325 | 3,320 | 3.329 | 3,331 | 3,330 | |
| Insurance | 2,063 | 2,101 | 2,101 | 2.101 | 2,065 | 2,101 | 2,096 | 2.103 | 2,103 | 2,103 | |
| Real estate | 1,273 | 1,276 | 1,289 | 1.311 | 1,283 | 1,315 | 1,317 | 1.325 | 1,327 | 1,322 | |
| Services. | 25,238 | 26,009 | 26,268 | 26.551 | 25.163 | 26,070 | 26,145 | 26.272 | 26,373 | 26.472 | |
| Business services. | 5,381.9 | 5,519.5 | 5,554.8 | 5,590.6 | 5.420 | 5,605 | 5,583 | 5.621 | 5,617 | 5,630 | |
| Health services. | 7,112.1 | 7,524.8 | 7,580.3 | 7,614.3 | 7.126 | 7,466 | 7,494 | 7,547 | 7,596 | 7,630 | |
| Government | 17.654 | 17.896 | 17.971 | 17.952 | 17,308 | 17,541 | 17.559 | 17,616 | 17.614 | 17,600 | |
| Federal. | 2,963 | 2.969 | 2.973 | 2.974 | 2,963 | 2,990 | 2.981 | 2,987 | 2.979 | 2,974 | |
| State. | 4,150 | 4,177 | 4,194 | 4,197 | 4,041 | 4,071 | 4.063 | 4,079 | 4.084 | 4,087 | |
| Local. | 10,541 | 10,750 | 10,804 | 10.781 | 10,304 | 10,420 | 10.515 | 10,550 | 10.551 | 10,539 | |

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p • preliminary.

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ESTABLISHMENT DATA

Table 3-2. Average weekly hours of production or nonsupervisory workersl/ on private nonspricultural payrolls by industry

| | Kot | | ily edju | sted | Seesonally adjusted | | | | | |
|---|---|---|--|---|--|---|--|--|--|---|
| Industry | | Feb. 1989 | Har. 1989g/ | Apr. 1989gr | Apr. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 <u>p</u> / | Apr. 1989 <u>p</u> / |
| ⁷ stal privata | 34.7 | 34.3 | 34.4 | 34.8 | 34.9 | \$4.7 | 34.8 | 34.6 | 34.6 | 35.0 |
| Rining | 42.8 | 41.7 | 41.9 | 43.0 | (2) | (2) | (2) | (2) | (2) | (2) |
| Construction | 37.9 | 36.1 | 37.3 | 37.7 | (2) | (2) | (2) | (2) | (2) | (2) |
| Manufacturing. Dvertime hours. | 41.9 3.7 | 40.8 3.8 | 40.9 3.8 | 41.9 3.7 | 41.2 | 40.8 3.9 | 41.1 3,9 | 41:1 | 41.0 3.9 | 41.3 4.0 |
| Dursble goeds Qvertime hours | 41.7 4.0 | 41.5 4.0 | 41.7 4.0 | 41.7 3.9 | 42.0 4.2 | 41.5 4.1 | 41.1 | 41.7 | 41.6 | 42.0 4.1 |
| Lumber and used products. Turniture and fiture | 40.6 39.1 42.5 43.5 43.5 41.7 42.4 40.4 42.9 41.5 39.9 3.4 39.5 38.5 38.5 38.5 38.5 38.0 38.0 38.0 38.0 43.0 38.0 | 39.6 39.1 41.1 43.4 43.4 42.6 42.6 42.6 43.0 42.6 43.0 41.5 39.8 39.8 37.5 39.6 37.5 39.6 37.5 39.6 37.5 39.6 37.5 34.6 42.9 37.7 42.4 42.6 42.6 42.5 39.1 39.1 39.1 39.6 37.5 37.5 37.5 37.5 37.5 37.7 47.6 47.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 3 | 39.8 39.6 42.0 43.5 41.6 42.5 42.5 43.3 41.4 43.3 43.3 41.1 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 3.5 3.5 41.0 5 5 41.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 40.3 39.4 42.8 43.4 41.6 42.4 41.6 42.8 43.2 41.1 39.9 39.9 39.9 39.1 39.1 39.1 39.1 3 | 40.6 39.5 42.5 43.5 42.0 42.0 42.0 42.0 43.0 41.2 43.0 41.2 43.0 41.3 3.6 40.5 3.6 40.1 (2) 41.6 37.4 43.3 42.1 (2) | 40.3 39.2 42.4 43.4 43.4 41.7 41.7 41.7 41.7 42.7 42.7 42.4 43.0 41.0 39.9 3.6 40.5 36.1 37.7 40.5 36.4 43.1 40.5 36.1 37.7 42.3 42.4 43.4 43.0 41.0 43.4 43.0 43.0 43.0 43.0 43.0 43.0 43 | 40.3 40.1 42.6 43.6 41.9 40.8 40.8 40.8 40.8 40.1 40.1 40.1 40.9 37.6 40.1 40.9 37.6 40.1 40.9 37.6 40.1 40.9 37.6 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 | 39.9 39.7 42.1 43.3 41.8 40.9 43.7 41.6 40.9 43.7 41.6 40.2 3.7 40.3 40.2 3.7 40.3 40.2 3.7 40.3 40.2 40.7 3.7 40.3 40.2 40.7 43.2 40.2 40.2 40.2 40.2 40.2 40.2 40.2 40 | 40.0 39.9 42.3 43.4 41.6 40.5 40.5 40.5 40.9 43.5 40.1 3.8 40.1 3.8 40.1 3.8 40.1 3.8 40.2 41.2 36.9 41.2 35.9 42.3 42.3 42.3 42.3 42.3 42.3 42.3 42.3 | 40.3 39.8 42.8 43.4 43.0 41.9 41.2 43.4 44.0 41.4 45.0 41.4 40.5 3.8 40.5 41.6 43.5 41.6 43.5 41.6 43.5 41.6 43.5 37.7 41.6 43.5 42.6 41.6 43.5 41.6 43.5 41.6 43.5 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 |
| Leather and leather products | 39.2 | 39.1 | 39.3 | 39.5 | 39.5 | 39.4 | 39.7 | 39.3 | 39.5 | 39.8 |
| Helenia Ande | | | 17.4 | | 4.5 | 54.0 | 34.1 | 38.0 | 38.0 | 38.2 |
| Rholesble Treme | 1 | | | | | | | | | 1 |
| Retail trade | 28.9 | 28.3 | 28.3 | 28.9 | 29.2 | 1 49.2 | 49.4 | 20.7 | 20.9 | 1 |
| Finance, insurance, and real estate | 36.2 | 35.8 | 35.8 | 36.4 | (2) | (2) | (2) | (2) | (2) | |
| Services | 32.6 | 32.4 | 32.4 | 32.8 | 32.7 | 32.6 | 32.8 | 32.5 | 32.5 | 32.9 |

1' Dots relate to production works in mining and manufacturing constraint works in constructions and nonsupervisory workers in transportation and public utilities, which also and explicit itrade; framework insurance, and real apiets and springs. These proper sectors on private nonspiral transle severals...

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ESTABLISHMENT DATA

2/ These series are not published seasonally adjusted since the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be sepe-rated with sufficient precision. p = preliminary.

ESTABLISHMENT DATA

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Table 8-3. Average hourly and weekly earnings of production or nonsupervisory workers]/ on private nonsericultural payrolls by industry

| | Ave | age hou | rly earn | ings | Average weekly earnings | | | | |
|--------------------------------------|--|--|---|---|--|--|--|---|--|
| Industry | Apr. 1988 | Feb. 1989 | Mar. 1989 <u>e</u> / | Apr. 1989 <u>e</u> / | Apr. 1988 | Feb. 1989 | Mar. 1989 <u>e</u> ⁄ | Apr. 1989g/ | |
| Total private Seasonally adjusted | \$9.23 9.23 | \$9.54 9.50 | \$9.55 9.52 | \$9.60 9.59 | \$320.28 322.13 | \$327.22 328.70 | \$328.52 329.39 | \$334.08 335.65 | |
| Mining | 12.60 | 13.16 | 13.09 | 13.05 | 539.28 | 548.77 | 548.47 | 561.15 | |
| Construction | 12.88 | 13.17 | 13.22 | 13.29 | 488.15 | 475.44 | 493.11 | 501.03 | |
| Manufacturing | 10.12 | 10.37 | 10.39 | 10.40 | 414.92 | 423.10 | 424.95 | 426.40 | |
| Durable goods | $\begin{array}{c} 10.65\\ 8.50\\ 7.81\\ 10.41\\ 12.11\\ 13.94\\ 10.22\\ 10.88\\ 10.09\\ 7.92\\ 9.57\\ 9.14\\ 14.98\\ 7.92\\ 9.57\\ 6.04\\ 14.98\\ 14.98\\ 11.60\\ 10.40\\ 10.40\\ 12.57\\ 15.00\\ 9.29\\ 15.00\\ 6.29\\ 10.00$ | $\begin{array}{c} 10.90\\ 8.68\\ 10.63\\ 12.28\\ 14.13\\ 12.28\\ 14.13\\ 10.44\\ 11.19\\ 10.25\\ 13.64\\ 10.11\\ 8.20\\ 9.627\\ 14.62\\ 9.27\\ 14.62\\ 9.27\\ 14.62\\ 9.27\\ 15.52\\ 9.27\\ 15.52\\ 9.27\\ 6.51\\ \end{array}$ | 10.92 8.66 8.10 10.62 112.28 14.14 10.45 11.21 10.45 10.15 8.19 9.54 15.18 7.59 6.31 11.82 10.80 12.29 6.55 | $ \begin{array}{c} 10.94 \\ 8.76 \\ 8.09 \\ 10.72 \\ 12.37 \\ 14.26 \\ 10.49 \\ 11.21 \\ 10.49 \\ 11.21 \\ 10.23 \\ 8.19 \\ 9.31 \\ 15.56 \\ 7.62 \\ 6.31 \\ 15.56 \\ 11.78 \\ 10.76 \\ 15.56 \\ 7.62 \\ 6.54 \end{array} $ | 444,11 345,10 305,37 442,43 526,79 613,36 426,17 463,49 411,67 569,71 621,57 410,44 309,67 373,86,09,67 373,86,09,67 373,86,73 361,03 576,73 373,86,00 395,20 529,220 666,00 395,20 529,220 666,00 377,87 77 232,73 | $\begin{array}{c} 452 \\ 338 \\ 52 \\ 338 \\ 52 \\ 532 \\ 5$ | 455.36 344.67 320.76 446.04 534.18 622.16 434.72 476.43 434.72 476.43 417.17 321.87 322.78 633.83 417.17 321.87 322.67 551.03 311.19 232.84 409.32 546.52 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 668.25 66 | 456.20 353.03 318.79 458.82 536.86 450.29 458.82 475.30 420.45 358.88.82 475.30 420.45 323.51 323.51 323.51 323.51 323.51 323.51 323.51 324.42 506.56 67.3.82 545.65 67.3.82 545.65 67.3.82 545.65 67.3.82 545.65 545.55 55 | |
| Transportation and public utilities | 12.27 | 12.51 | 12.48 | 12.56 | 480.98 | 489.14 | 490.46 | 496.12 | |
| Nholesale trade | 9.88 | 10.21 | 10.19 | 10.32 | 377.42 | 384.92 | 385.18 | 393.19 | |
| Retail trade | 6.26 | 6.46 | 6.46 | 6.48 | 180.91 | 182.82 | 184.11 | 187.27 | |
| Finance, insurance, and real estate | 9.03 | 9.47 | 9.43 | 9.55 | 326.89 | 339.03 | 337.59 | 347.62 | |
| Services | 8.82 | 9.26 | 9.26 | 9.30 | 287.53 | 300.02 | 300.02 | 305.04 | |

1/ See footnote 1, table 8-2.

ESTABLISHMENT DATA

p = preliminary.

Table B-4. Avarage hourly earnings of production or nonsupervisory workers]/ on private nonsericultural payrolls by industry, seasonally adjusted

. :

| Industry | Арг. 1988 | Dec. 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 <u>e</u> / | Apr. 1989 <u>p</u> / | Percent change from: Mar. 1989- Apr. 1989 |
|--|---|--|--|--|--|--|---|
| Total private2. Current dollars, Construction. Manufacturing. Excluding overtime2. Transportation and public utilities Retail trade. Finance, insurance, and real estate Services. | \$9.23 4.85 12.93 10.11 9.65 12.29 9.88 6.25 8.99 8.81 | \$9.45 4.82 13.09 10.31 9.84 12.36 10.08 6.42 9.37 9.09 | \$9.49 4.81 13.14 10.32 9.86 12.46 10.18 6.43 9.14 | \$9.50 4.80 13.18 10.35 9.88 12.46 10.15 6.43 9.35 9.17 | \$9,52 4.79 \$13.25 10.37 9.90 12.51 10.17 6.44 9.36 9.20 | \$9.59 N.A. \$13.34 10.39 9.92 12.59 10.32 6.47 9.50 9.29 | 0:7 (4) .2 .6 1.5 1.5 1.5 |

4/ Change was -0.2 percent from February to March 1989,

4/ Change was 0.2 percent from -eorusity to Mazon 1989, the tasts month available. 5/ Derived by assuming that overtime hours are paid at the rate of time and one-half. N.A. = not available. g/= preliminary.

1/ See tootnots 1; table B-2. 2/ Includes mining, not shown separately, because its sessonal component is too small to be separated out with sufficient practision. 3/ The Consume Price Index for Uthan Wage Eamers and Clerical Workers (CP-HV) is used to datios this series.

ESTABLISHMENT DATA ESTABLISHMENT DATA ESTABLISHMENT DATA ESTABLISHMENT DATA (approximate the estimation of production or nonsupervisory workers)/ on private nonagriculturel (1977-100)

| | Not | | nally ad | justed | [| s | essona | lly ad | justed | |
|--|---|--|---|---|---|---|---|---|--|--|
| Industry | Apr. 1988 | Feb. 1989 | Mar. 1989 <u>e</u> / | Apr. 1989 ₈ / | Apr. 1988 | Dec. 1988 | Jan. 1949 | Feb. 1989 | Mar. 1989 <u>e</u> / | Apr. 1989g/ |
| Total private | 123.6 | 123.9 | 125.4 | 128.0 | 125.1 | 127.2 | 128.3 | 127.8 | 128.1 | 129.5 |
| Goods-producing industries | 100.8 | 99.4 | 101.1 | 102.9 | 102.7 | 103.5 | 104.4 | 104.2 | 104.1 | 104.8 |
| Mining | 83.8 | 78.4 | 79.7 | 83.1 | 85.9 | 81.2 | 80.4 | 80.7 | 81.8 | 85.1 |
| Construction | 135.4 | 123.2 | 130.4 | 140.3 | 141.1 | 144.6 | 1~6.3 | 145.4 | 145.8 | 146.0 |
| Manufacturing | 94.9 | 95.8 | 96.4 | 96.5 | 96.1 | 96.6 | 97.4 | 97.3 | 97.1 | 97.7 |
| Durable goods. Furniture and fixtures. Furniture and fixtures. Primary metal industries. Primary metal industries. Paricated estal products. Faricated estal products. Fischica and electronic equipment. Fischica and electronic equipment. Instruments and related products. Miscellaneous anufacturing. Nondurable goods. Food and kindred products. Textie and lectronic equipment. Textie and products. Apparel and other textil products. Printing and publishing. Chemicals and aliaed products. Rubber and misc plastics products. Rubber and misc plastics products. Rubber and leater and l | 93.4 102.5 111.9 87.7 54.7 91.4 101.4 100.0 105.3 84.0 105.3 84.0 97.2 95.0 105.3 85.0 100.2 136.3 197.2 136.3 197.2 136.3 197.2 136.3 197.2 136.3 197.2 136.3 197.2 136.3 197.2 136.3 197.2 122.7 122.7 122.7 122.7 122.7 125.4 8 | 94.2 97.9 114.0 82.3 93.1 95.5 101.3 100.6 95.5 100.6 96.7 109.3 83.3 98.2 98.2 98.2 98.2 105.5 100.0 79.3 100.0 79.3 100.0 79.3 100.0 79.3 100.0 79.3 100.0 79.3 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 100.0 79.5 70.5 100.0 79.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70 | 94.8 100.2 115.7 70.0 54.8 93.1 100.4 1101.0 91.0 108.5 98.8 97.4 63.8 80.3 108.7 108.7 100.1 100.1 100.7 138.7 100.1 100.7 127.1 | 94.9 101.4 114.9 88.7 54.7 95.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.5 100.6 100.5 100.6 100.5 1000 | 94.0 104.7 113.2 88.3 67.6 91.8 91.5 102.8 100.0 89.8 106.5 73.8 82.2 101.0 73.8 8.6 22.2 101.4 156.5 97.1 18.4 97.1 18.6 55.5 | 94.8 105.2 1113.9 69.6 93.7 94.3 102.3 98.7 98.7 108.3 99.2 7 79.1 84.2 101.3 7 79.1 137.5 99.2 101.3 7 84.2 101.3 137.5 137.5 125.6 | 95.7 116.2 116.2 149.5 159.5 194.7 95.1 102.2 99.9 1102.3 109.6 1109.6 109.9 102.3 109.6 100.1 100.3 100.3 100.1 1100.3 84.1 126.2 57.0 | 95.3 103.0 115.3 88.4 69.2 54.4 99.3 99.5 102.1 109.6 85.8 100.2 102.9 100.2 102.9 100.2 102.9 100.2 85.8 100.2 102.9 100.1 1138.7 1138.7 1138.7 1138.7 158.9 126.9 558.2 | 94.8 103.8 116.3 69.3 95.6 95.6 100.6 85.6 100.3 103.6 103.6 103.6 103.7 86.1 103.7 86.1 103.7 138.6 103.6 103.7 103.6 10.5 103.6 100.6 10 | 95.6 103.6 116.2 89.5 69.5 54.8 94.0 95.8 102.1 100.6 86.5 100.8 100.5 10 |
| Service-producing industries | 136.1 | 137.5 | 138.8 | 141.9 | 137.4 | 140.4 | 141.5 | 140.9 | 141.4 | 143.2 |
| Transportation and public utilities | 111.9 | 114.5 | 115.0 | 116.3 | 113.5 | 116.2 | 117.4 | 116.5 | 117.0 | 118.0 |
| Wholesale trade | 123.8 | 127.1 | 128.1 | 129.8 | 124.8 | 128.1 | 129.1 | 129.3 | 129.8 | 130.7 |
| Retail trace | 123.2 | 121.4 | 123.1 | 126.3 | 126.0 | 127.8 | 128.2 | 127.7 | 128.2 | 129.5 |
| Finance, insurance, and real estate | 140.6 | 139.4 | 139.6 | 142.5 | 141.1 | 140.0 | 142.1 | 140.7 | 141.0 | 143.3 |
| Services | 158.8 | 162.5 | 164.2 | 168.3 | 159.0 | 164.1 | 165.6 | 164.9 | 165.6 | 168.1 |

1/ See footnote 1, table 3-2.

p = preliminary.

ESTABLISHMENT DATA

| | Time span | Jan. | Feb. | Her. | Apr. | Hay | June | July | Aug. | Sept | Oct. | Nov . | Dec. |
|------|--|------------------------|------------------------|------------------------|------------------------|--------------|--------------|--------------|--------------|------------------|----------------|--------------|----------------|
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 ${\bf y}$ linesd on seasonally adjusted data for 1-, 3-, and 5-month spars and adjusted data for the 12-month spars. Data are cartiared within the spar. ${\bf y}^{\prime}$ = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus ne-half of the industries with unchanged employment, where 50 percent victates an equal balance between industries with increasing and decreasing imployment. ind

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Representative HAMILTON. Well thank you very much.

This change that you've reported to us this morning with respect to the civilian unemployment rate increasing 0.3 of a percentage point to 5.3, together with other recent data that has come out, does it confirm the fact that the economy is beginning to cool down? Is that a fair statement?

Mrs. Norwood. That's absolutely correct.

Representative HAMILTON. Now the broader question, of course, which you raised and I raised in the opening statement, is whether the long expansion of the 1980's has come to an end and, as I understand your statement, you don't want to speculate on that. I would be glad to have you speculate on it if you would like to.

Mrs. NORWOOD. No, I think it's too soon really to know. But, as you can see, the unemployment rate rose in April. In part, that was a result of slower employment growth. It was also the result of the 400,000 increase in the labor force.

Over the prior 2 months the labor force had grown very little. In fact, in February it was down 250,000, and in March up only 80,000. It tends to grow in fits and starts. So we had a 400,000 increase, which more or less corrected for the February and March period.

There are many approaches that one can take to the unemployment data. One is that essentially there have been few ups and downs, but that we have been at or near a plateau, oh, for a good part of the end of last year and into this year. The rate, for example, for the first quarter of this year was 5.2 percent, the civilian rate. April's rate is 5.3 percent.

I think the more important area to focus on is the employment growth, and that clearly has slowed. There is still some, and we are not plunging downward. I think it's important to recognize that.

Representative HAMILTON. That's the payroll employment you're talking about?

Mrs. Norwood. Yes.

Representative HAMILTON. Up only 117,000?

Mrs. NORWOOD. Yes, which is pretty flat really.

Representative HAMILTON. That's the weakest in 3 years?

Mrs. Norwood. Yes, that's right.

Representative HAMILTON. Now the jump of 0.3 percent breaks the pattern, doesn't it, of recent months where it has been very flat.

Mrs. Norwood. Yes.

Representative HAMILTON. But, as you say in your statement, it is not unprecedented. It has happened two times in this expansion; is that correct?

Mrs. Norwood. That's right.

Representative HAMILTON. This expansion has run how may months now?

Mrs. Norwood. Well, we have data for 77 months. In July 1984 and February 1986 we had a jump in the unemployment rate for a bit and then it plateaued, and then the expansion picked up again.

Representative HAMILTON. If you look at a lot of the financial papers in recent days, what has impressed me at least is that there is so much uncertainty right now about the outlook for the economy. You can read, for example, in the same paper one article suggesting inflationary pressures are increasing and another article suggesting that there is less pressure on prices and so forth.

Does the significance of the report this morning change that so that we now have a little clearer idea in which direction the economy is tending?

Mrs. Norwood. It's very clear that the monetary restraint that was imposed by the Fed some months ago is beginning to work. I think that the data this morning really confirmed that. Prices are going up at roughly a 5-percent range, and maybe slightly higher, and that's a pretty hefty rate of price increase. It may well be that the slowing of the economy is necessary to reduce that rate of increase.

Representative HAMILTON. Do you see any regional aspects to this change, this economic slowing down, if you would? Does your data, for example, indicate that the economy is slowing more in the Northeast than other parts of the country?

Mrs. NORWOOD. I think there is slowing generally, but it is true that the South and the North Central regions had a bit more employment growth in February and April than did the Northeast.

Řepresentative HAMILTON. Of the two which is the fastest growing, Southern or North Central, or is there much of a difference? Mrs. Norwood. We will look that up for you.

Representative HAMILTON. All right.

Now the other thing I would like to check with you on is the employment situation among blacks. You have a rise in unemployment for almost all groups except blacks.

Mrs. Norwood. Yes.

Representative HAMILTON. And the unemployment rate actually declined for blacks. The unemployment for whites rose because of an increase I guess in the number of whites looking for jobs, but the question is why the unemployment rate for blacks declined in April while unemployment is rising for other groups?

Mrs. Norwoop. Well, first, the unemployment rate for blacks really is not very different in April from what it was in March. It's a small group of the population and really requires a fairly large change to be a change.

Representative HAMILTON. What is that rate?

Mrs. Norwoop. The black rate of unemployment is 10.8 percent, it was 10.9 in March, and it needs to be about 0.8 or 0.9 percent in order to be statistically significant.

The point is, however, and your point I think was quite well taken, that the blacks have not had their unemployment experience deteriorate as did the Hispanics and the whites.

The blacks really have had somewhat more success in recent months. Certainly during this recovery they had, for example, a 15percent increase in the labor force, more than for the whites, which was only about 10 percent, and suggesting that perhaps they see the economy as providing jobs for them and many of them are getting employment. But I would point out that 10 or 11 percent is not a very low rate of unemployment.

Representative HAMILTON. It's very high still, isn't it.

Mrs. Norwood. And if you get to black teenagers, you're up in the 31 percent range.

Representative HAMILTON. Now the civilian labor force grew by 395,000 in April. The subcategories show an increase for the number of whites, up 325,000, the number of blacks declined by 140,000 and the number of Hispanics rose by 50,000. That doesn't add up to 395,000. What happens there? Mrs. Norwood. I'll let Mr. Plewes answer that one.

Representative HAMILTON. We have about 140,000 missing.

Mr. PLEWES. That's correct. We individually seasonally adjust the parts, and when we do that they don't always add up to the total.

Representative HAMILTON. Two and two doesn't always make four here?

Mr. PLEWES. Well, in this regard it doesn't. There are parts of it that do add up.

Representative HAMILTON. So the answer is there are seasonal adjustments basically; is that right?

Mr. PLEWES. In this case that is the major explanation.

Mrs. NORWOOD. Yes. I might point out, Mr. Chairman, that this is always a problem in any program when you seasonally adjust. You get much better results if you take each of the pieces separately. You could seasonally adjust the aggregate, but the individual estimates then are not as good. Once in a while we get some sharp user who recognizes that they don't add up and it becomes rather difficult.

Representative HAMILTON. What other categories do you have of workers, other than whites, blacks, and Hispanics. Are there other categories?

Mrs. Norwood. Age groups, male and female.

Representative HAMILTON. But there are no other racial groups? Mrs. Norwood. No. The other groups of the population are much too small still for us to measure separately with the size of the household survey we have. That is part of the reason that whites and blacks do not add to the total.

Representative HAMILTON. Now, among other things, we find that the wages of nonunionized workers are rising faster than for unionized workers.

Mrs. Norwood. Yes, that's true.

Representative HAMILTON. So what's happening here?

Mrs. Norwood. It's quite clear that there are several things happening there.

First, the unions have traditionally been strongest in manufacturing, and weakest in services except for government. The increase in employment that we have been seeing during the period of this expansion has been primarily in services.

The unions, therefore, are spending more of their time I believe being concerned about job security since we are seeing a lot of plant closedowns and displacement, and putting less emphasis on earnings.

In addition, of course, as manufacturing has had difficulty in competing, there has been more pressure by employers to keep labor costs low. And, interestingly, the cost that appears to be increasing most is the employer cost of the benefits that are provided to workers, and those are more prevalent in the union establishments, in manufacturing than elsewhere, things like health insurance.

Representative HAMILTON. Now let me turn your attention to the inflation rate just for a moment. During the first quarter the CPI went up 6.1 percent and the Producer Price Index at a rate of 10.2 percent. Do these figures represent an increase in the inflation rate above the inflation rate of last year?

Mrs. Norwood. Yes, indeed. Representative HAMILTON. What do they tell us about the current inflation situation and about the outlook, can you make any judgment about that?

Mrs. Norwood. Well, let me try. It's clear that we are seeing some heating up of prices. Some of it is energy, but not all of it is energy. Where we will be heading is very difficult to determine in part because we do anticipate from things that have already happened that there will be some increase in energy costs, and I'm sure Mr. Tibbetts can say something more about that.

Mr. TIBBETTS. A little bit perhaps. In addition to the energy runup, what is worrying I think is the broad-based characteristic of the first quarter rise. We took some comfort from the third month of that quarter slowing down in industrial prices, and now, as the Commissioner has mentioned, press reports for the succeeding months suggest a faster rise in energy.

I have been looking at the reports as they come in, and I think that is confirmed. So that we can't take too much comfort from that lower rate at the end of the first quarter, but it looks like we're going to return unless there is something very unexpected happening in the foods and agriculture area, which have been published by the Agriculture Department as being somewhat soft. So there will be some offset, but in general I think the outlook is for a return not quite to the first quarter levels, but certainly above last vear.

Mrs. Norwood. And that's because of energy prices which we already know about.

Representative HAMILTON. So the outlook is for something less than the 6.1 percent; is that right? Is that what you just said?

Mr. TIBBETTS. I was speaking with respect to industrial prices in comparison with the 10.2 percent. Now the 6.1 percent at the consumer level is a little less clear. That survey information is not available.

Representative HAMILTON. I see. You were focusing on the Producer Price Index.

Mr. TIBBETTS. Yes.

Mrs. Norwood. But I might point out that one of the changes we have noted is that when there is an event having to do with oil, wherever it is, an explosion in the North Sea or a fire in a refinery, it used to be that it would take some time for that to get to the retail pump. There now seems to be a psychology I'm told, and I've talked to several of the chief economists of oil companies recently, there seems to be a more instant reaction. So you read about it and a few days later the pump price of gasoline goes up.

Mr. TIBBETTS. And we saw that definitely in the CPI, which has already included part of the effect of the oil spill, whereas the PPI has not.

Representative HAMILTON. I see.

Mr. TIBBETTS. You would expect the lead to be on the other side. Representative HAMILTON. Now some of the papers reported that the Soviet grain purchases would increase the cost of our grain 20 or 30 percent. What is the outlook on food prices, or is that in your category?

Mr. TIBBETTS. We have read those same reports, and whether the numbers are exactly right, there will be large increases and they will have an upward impact on the index. Other food reports that are coming in for the same period are on the downside. So the average for food may in fact be quite flat in spite of this runup in grain prices.

Representative HAMILTON. Congresswoman Snowe.

Representative SNOWE. Thank you, Mr. Chairman.

Mrs. Norwood, when was the last time we had this kind of an increase in the unemployment rate? You mentioned late last year. Did it equal this 0.3 of a percentage point?

Mrs. Norwood. We have a 0.5-percent increase, larger than what we have now in February 1986, and a 0.3-percent increase in July 1984, and shortly after each of those the expansion picked up.

Representative SNOWE. So this would be somewhat of the highest increase since 1982, the highest point?

Mrs. Norwood. Since 1986. Now, of course, this follows 2 months of declines. We had, if we look at the civilian unemployment rate, 5.4, 5.3, and 5.4 percent, and then we went to 5.1 and 5.0 percent, and now we are back up to 5.3 percent. So you never know whether what you're looking at is the 2 months that went down, that perhaps were an aberration, or the 1 month that is up, with the one important point, that what we are seeing very clearly on the employment side is a very real slowdown in March and April.

Representative SNOWE. What about job creation, that obviously had slowed down in recent months. Do you have any numbers on that?

Mrs. Norwood. Yes. We have created in the 77 months of the expansion 19,900,000 jobs.

Representative SNOWE. How does that compare with our last recovery in the 1970's?

Mrs. Norwood. Of course, it's a little difficult to compare it with the 1970's recovery because this expansion is so much longer. It's the longest expansion really in peacetime history. So it's a little hard to compare it. We had very vigorous job creation then, and we, of course, have a much larger labor force now. So we have to create jobs in order to keep going. It's a very good performance. There is no doubt about that.

Representative SNOWE. Who makes up the 400,000 increase in the labor force? Do we know where they are coming from and who they are?

Mrs. Norwood. We know something about them. They were about half adult men and adult women, there were very few teenagers, and most of them were white, very few black and I guess there weren't many Hispanic.

Representative SNOWE. You mentioned that construction employment remained flat for this last month which contrasted with the previous 2 months where there was a decline in construction employment.

Mrs. Norwood. That's right.

Representative SNOWE. Is there anything that we can discern from that because I know there has been some analysis that this would indicate a slowdown in the economy because of building declining?

Mrs. Norwood. The housing market has been quite weak. Housing starts have been down, interest rates, of course, have been up and people have been reluctant in many areas to undertake mortgages at fairly significant rates. As a result, there has been a clear effect on the construction industry.

Mr. PLEWES. This month we saw some increases in highways and other kinds of construction that offset the residential decline.

Representative SNOWE. So we can't really see this as a positive sign of any kind?

Mrs. Norwood. Well, not yet. It depends, of course, on whether this will really have much effect on interest rates, because it's the interest rates that are affecting the housing market, and one of the reasons I suppose one might say for the Fed's determination to take some steps to restrain the economy has resulted in higher interest rates, and perhaps there may be some easing of all that now that the economy has slowed. I just don't know.

Representative SNOWE. So you think it's too early to draw any conclusion from this percentage increase in the unemployment rate?

Mrs. Norwood. Well, I certainly always believe that you have to wait for more than 1 month's data. It would be very dangerous to draw any definitive conclusions from this 1 month's data.

I think what we can say is that we have had a couple of months of slowing employment growth, that's very clear, but we have not had any declines in employment growth. We still have growth, small, but it's there. It's just that we have been used to having a 300,000 employment increase a month for years, and that is clearly slowing. Now the question, of course, is, is this going to be a tempo-rary slowdown and is it going to go on slower. There are some economists who forecast slow growth and lower GNP, but, nevertheless, positive. I don't know of anyone who at this point at least without these data, of course, is forecasting any real turnaround vet.

Representative SNOWE. What have been the fastest growing occupational categories over the last 12 months?

Mrs. Norwood. They have been professional categories and technical kinds of jobs, those that require considerable education. And, by the way, women have been better represented among those kinds of jobs.

Representative SNOWE. Thank you.

Thank you, Mr. Chairman.

Mrs. Norwood. Mr. Chairman, we do have an answer to the regional question you asked.

Representative HAMILTON. OK, thank you. Mr. PLEWES. Just some quick figuring here. We took over the year because that's probably a better way to look if you're comparing two regions because seasonal patterns differ. The growth in the East North Central and the South Atlantic are almost the same, 700,000 in East North Central, which is the industrialized Midwest, and the South grew by about 600,000. Their employment numbers are fairly close to being the same. So we have seen some resurgence, I guess it's fair to say in the East North Central.

Representative HAMILTON. All right. Thank you.

We have seen a trend that two-worker families have experienced larger income gains during the 1980's than single-earner families, and there has been a long-term growth I guess in the number of two-earner families; is that right? Mrs. Norwood. Yes, certainly. There are now, if we look at mul-

Mrs. NORWOOD. Yes, certainly. There are now, if we look at multiearner families, that is married couple families, 57 percent of those households are now multiearner.

Representative HAMILTON. Why have the incomes of two-earner families risen so much faster than one-income families?

Mrs. NORWOOD. Well, I think there are several reasons. One is partly where they are located and the kind of education that they have.

Representative HAMILTON. They tend to be professionals often, don't they?

Mrs. Norwood. Well, many of them certainly are. The singleperson family, remember, tends to be concentrated either in very poor areas of the country or in central cities, and the female heading the household tends to be somewhat younger than the married couple household and earns less, has less experience and less education.

Representative HAMILTON. The data also suggest that most of the unemployed live in a family where there is at least one full-time employed worker. Does that mean that unemployment hits single people hardest?

Mrs. NORWOOD. Yes. Unemployment hits anybody, everyone. If you don't have a job, you personally are affected.

Representative HAMILTON. Sure.

Mrs. NORWOOD. If you mean in terms of economic hardship for the family, obviously if there is some other person working in the family—

Representative HAMILTON. That helps to alleviate it somewhat, doesn't it?

Mrs. Norwood. That helps, and the single-parent family rarely has another person working in the family.

Representative HAMILTON. Now in the productivity statistics, they rose at 3.5 percent overall in the first quarter of 1989, but productivity in the nonfarm economy rose only 0.5 of a percent. That's a big discrepancy, isn't it?

Mrs. Norwood. Yes, it's a big discrepancy, and it is all based on the method that was used by the Bureau of Economic Analysis in the determination essentially of farm activity taking account of the drought and then the response after the drought.

Representative HAMILTON. Why is it that productivity has increased and that we have had such a good record on improving productivity in the manufacturing sector, but not elsewhere?

Mrs. Norwood. That's the real question that faces this country, and I don't really know the answer to it. There are probably a number of reasons. One is that clearly we're seeing much more employment growth in the services, and if you look at manufacturing, what we have seen is the elimination of some of the inefficient production facilities and we have seen employment being held fairly tight. So that you would expect to see some efficiencies as the result of the competition from abroad.

In services there are a number of measurement problems as well. It's much easier to determine how many cars you produce, or how many washing machines, than it is to determine what banking services is or, even more important right now given the effect on our gross national product, how do you really measure medical care and what is the output of a hospital or a physician. There are difficulties there.

Representative HAMILTON. Where has the growth in productivity in the manufacturing sector gone and who has benefited from that? Has the consumer benefited with lower prices or has the worker benefited with higher wages, or can you tell?

Mrs. Norwood. There have been some, but very few wage increases. Some of the cost of manufacturers has gone into increased costs of the fringe benefits like health insurance. Some of it has gone into not price reductions, but restraint on price increases. We did see for quite a while, for example, that manufacturers held the line on export prices.

Representative HAMILTON. Did it go to profits then?

Mrs. Norwood. Well, I'm not familiar with all the profit figures, but I would expect that there has been an increase in profits, certainly.

Representative HAMILTON. On the issue of statistics that I bring up with you occasionally, we had Professor Kline here from Wharton, and he expressed some concern about the decline in the quality of U.S. economics statistics. Are you satisfied with the quality of data being produced by the Bureau of Labor Statistics? Do you think there has been any decline in it?

Mrs. Norwood. We do a pretty good job.

Representative HAMILTON. That's a given, right? [Laughter.]

Mrs. Norwood. Well, we do a pretty good job, and many of our data series are as good as we could possibly make them. We have, however, in recent years with budget restraint been forced to cut down on some of the quality measures that we normally take to find out about what we have.

For example, when we collect data we should be out there recollecting the data for small samples so that we can measure whether the data collector has really first been there and, second, whether they have done the correct job. We aren't doing very much of that.

Representative HAMILTON. Have professionals who use your Bureau of Labor Statistics data expressed any concern to you about the quality of the data?

Mrs. Norwood. There is increasing concern I think about the quality of data, but I must tell you that my experience is that what users want is for BLS to put out something and put its name on it and they really don't think much about the quality. They leave that to us, and that's quite a problem.

Representative HAMILTON. Say that again. You mean they don't care whether you're right or wrong and you're accurate?

Mrs. Norwood. Well, certainly thay would speak up if they thought we were very wrong, but for the most part if we produce a wage series or an employment series and it's a BLS product, given our reputation, they expect that it is of high quality. You know, quality is relative. It's a judgment that people make, and different people can put that judgment at a different place.

I do believe that we are doing a pretty good job, but that we need to shore up some of the quality measures, and I must tell you that it is hard to get funding for things like that. We can get funding if we come out and say to you, Mr. Chairman, we are going to give you a new measure of wages every month or we'll give you a lot of additional detail, but if we tell you that we need a million dollars to be sure that what we are getting is correct, we don't get anywhere. So it's a basic problem.

I should report to you, however, that as the result I believe of a hearing that this committee had with the Chairman of the Council of Economic Advisers there is a real initiative going on in the Government to look at not just the quantity, but also the quality of economic statistics, and I was at a meeting yesterday in which some of this was discussed.

Representative HAMILTON. We are not at a point where policymakers should be concerned that we're making policy on the basis of unreliable data?

Mrs. NORWOOD. No, I don't think so, but I think there are some holes in the data. We're spending 11 percent or more of GNP on health care, and we have very little information on the prices of health care. We have a little bit in the Consumer Price Index, but that's just out-of-pocket consumer cost. There is a great deal more that needs to be done.

It's those kinds of things that we're not getting done because we don't have the resources to put on some of the newer kinds of things that need development. It's the developmental work as well as the quality checking that doesn't get done.

Representative HAMILTON. Thank you very much. We appreciate your appearance.

Mrs. Norwood. Thank you very much.

Representative HAMILTON. The committee stands adjourned.

[Whereupon, at 10:10 a.m., the committee adjourned, subject to the call of the Chair.]

EMPLOYMENT-UNEMPLOYMENT

FRIDAY, JUNE 2, 1989

CONGRESS OF THE UNITED STATES, JOINT ECONOMIC COMMITTEE, Washington, DC.

The committee met, pursuant to notice, at 9:36 a.m., in room SD-628; Dirksen Senate Office Building, Hon. Paul S. Sarbanes (vice chairman of the committee) presiding.

Present: Senators Sarbanes and Roth.

Also present: William Buechner and Chris Frenze, professional staff members,

OPENING STATEMENT OF SENATOR SABBANES, VICE CHAIRMAN

Senator SARBANES. The committee will come to order.

On behalf of the members of the Joint Economic Committee, I am very pleased once again to welcome Commissoner Janet Norwood, along with her colleagues at the Bureau of Labor Statistics, for her monthly testimony on the employment and unemployment situation. We will turn to that, obviously, in the questioning period, but I want to address a somewhat related issue.

Last year the Bureau of Labor Statistics issued a release on the small proportion of temporary workers who are covered by health and pension benefits in the United States, and you discussed those figures at some length during the employment situation hearing actually just a year ago. The issue has recently been raised again in an article by Robert Kuttner in the Post on May 24, entitled "Business' New Craving for Cheap, Disposable Labor Won't Make the U.S. Competitive."

As this morning's release indicates, 21 million people work part time, including 5 million who want full-time jobs. According to the Kuttner article, an additional 2 million work in temporary jobs in business and government and these jobs generally pay far less than full-time jobs and, perhaps more importantly, come without health and retirement benefits. Many are increasingly coming to the view that the fact that health and retirement benefits are provided in the United States by employers rather than on a universal basis, is an incentive, perhaps a powerful incentive, to convert potentially good full-time jobs into part-time contingent jobs. This is in contrast to other industrial countries where health and retirement benefits are universal and, therefore, this incentive to parcel fulltime jobs into part-time ones does not exist.

Kuttner observed competitiveness on the cheap will not work. Low wage, unskilled labor equals lower productivity and lower living standards. Real competitiveness requires more productive, more expensive, better trained workers and a wealthier economy. The "temporary" solution is just that, and this is a subject that I will try to get into, but in the question period.

Finally, before turning to Commissioner Norwood's testimony, the Joint Economic Committee would like officially and on the record this morning to recognize your Associate Commissioner for Productivity and Technology, Jerry Mark, who is retiring from the BLS at the end of this month after 38 years of distinguished service to the Bureau and to the American people. Throughout the years, Mr. Mark has always been very helpful to this committee whenever we have needed assistance on productivity issues. He is a recognized expert, not only in this country but internationally. He is an example, I think, of the career dedication that has made the Federal service work and work well on behalf of the American people, and we will miss him, as we will wish him well in his retirement.

And Commissioner, if you have no objection, we would like to ask Mr. Mark to come up and join you and your colleagues at the witness table, and a little later on in this hearing, I will have a few questions for him [laughter] on productivity, so we can get that from him before he departs. We are pleased to have you here this morning.

I am delighted that Senator Roth is with us. I know he has an opening statement, and I would be happy to yield to him before we hear your presentation.

OPENING STATEMENT OF SENATOR ROTH

Senator ROTH. Thank you, Mr. Vice Chairman. I welcome you, Mrs. Norwood, and your companions. I, too, want to join the vice chairman in congratulations to Mr. Mark for his fine public service. I am sorry to see you leave, but I hope you have an enjoyable retirement, whatever that may be.

Today's employment release confirms that the economic expansion continues to benefit American workers. Employment is up, and the civilian unemployment rate declined one-tenth of a percentage point to 5.2 percent. This year the unemployment rate has fallen to a rate lower than in any year since 1974.

The employment-population ratio—an important measure of the economy's ability to create enough new jobs—remains at a record high of 63 percent. The employment to population ratio for adult women also is at a historically high level.

Now in its 79th month, the economic expansion has created 20 million new jobs. However, the recent pace of job growth seems to have slowed with the economy, in keeping with the policy objective of the Federal Reserve. A more moderate rate of economic and employment growth is viewed as containing inflationary pressures. Nonetheless, the economy continues to expand, generating additional employment opportunities for all Americans. Moreover, these opportunities are good ones. Over the last 12 months more than 50 percent of the new jobs have been in managerial and professional occupations. These are the highest paid occupation categories. A transition to high-quality jobs, which would require more education, skills, and training, is already well underway. Overall, the healthy state of the economy is reflected in a good labor market characterized by relatively low unemployment rates. Some would argue that the unemployment rate is too low for our own good. I am not of that opinion, but it is encouraging to see that economic conditions have improved to the point where there can be such debate.

As policymakers, our task is to avoid measures which can cut the expansion short, and start the unemployment rate going in the opposite direction. Economic conditions are never perfect, but the employment report today reflects a positive tone in the economy. Thank you, Mr. Vice Chairman.

Senator SARBANES. Thank you very much, Senator Roth. Commissioner, we are very happy to hear from you.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY KENNETH V. DALTON, ASSOCIATE COMMIS-SIONER, OFFICE OF PRICES AND LIVING CONDITIONS; THOMAS J. PLEWES, ASSOCIATE COMMISSIONER, OFFICE OF EMPLOY-MENT AND UNEMPLOYMENT STATISTICS; JEROME A. MARK, AS-SOCIATE COMMISSIONER, OFFICE OF PRODUCTIVITY AND TECHNOLOGY; AND GEORGE L. STELLUTO, ASSOCIATE COM-MISSIONER, OFFICE OF COMPENSATION AND WORKING CONDI-TIONS

Mrs. NORWOOD. Mr. Vice Chairman and members of the committee, once again, I would like to thank you for the opportunity to discuss developments in employment and unemployment with this committee this morning.

The Nation's jobless rate was little changed in May, and employment followed its recent pattern of slowing growth. The civilian unemployment rate was 5.2 percent and the total rate including the resident Armed Forces was 5.1 percent.

Most of the major demographic groups maintained their jobless rates of the month earlier. Adult men, however, showed a decline, reversing their movement of the prior month. Another positive note in the data for May is the fact that the number of workers employed part time who would have preferred full-time work declined by about 300,000 to 4.8 million. Also, the number of persons unemployed for at least half a year fell to only about 600,000, the lowest level since 1980.

However, payroll job growth was quite slow. May showed an increase of only 100,000. In fact, over the last 3 months, an average of only 160,000 jobs a month were added to business payrolls. Through 1987 and 1988, that figure was a robust 270,000 a month.

Those who follow these data regularly will note that we had previously reported job growth during 1987 and 1988 as a bit higher about 300,000 per month. The new and slightly lower level is the result of our annual benchmark revision for the business survey. The benchmark represents the complete count of employment obtained principally from the State unemployment insurance administrative records. Quite often, the survey estimating procedures hit the benchmark right on the nose. With this benchmark, however, we had a small revision in the data of just about 0.3 percent per year. These revisions have lowered our estimate of employment growth over the 2 years since March 1987 by about 600,000. I should note also that the new seasonal factors introduced today raised the March-to-April seasonally adjusted job growth to a little over 205,000, still well below the growth rate for last year.

One result of these revisions is that they reduce the difference in employment growth between the two surveys that we report on each month. Later on this year, we expect to know more about possible changes in the rate of dual job holding, a development that may help to explain some of the remaining divergence between the two surveys. Last month, the Bureau of Labor Statistics sponsored a supplement to the labor force survey in which people were asked whether they held more than one job during the survey week. Those data were last collected in 1985. An increase in dual job holding could account for some of the widening gap between the employment count in the two surveys, since multiple jobholders are counted only once in the household survey but are counted in each of the jobs they hold in the business survey.

Let me return to the details of the May employment data. Not only was payroll job growth very slow, but it was confined to a narrow range of industries. We recently began publishing two new diffusion indexes that measure the breadth of employment growth. The one that has the broadest coverage, 349 industries, indicated that in May only slightly more industries registered employment gains than registered losses. That 53 percent is the lowest figure that we have had in that series since mid-1986 and one of the lowest of the expansionary period.

Employment in the goods-producing industries, which had experienced some strength between October and January, slowed considerably between February and April and then edged down by about 35,000 in May. In fact, employment in both construction and manufacturing in May was at about the same level as it was in January. For the last 2 months, the manufacturing diffusion index has been below 50 percent, which means that more of the individual industries were losing jobs than were gaining them. The number of mining jobs was up slightly in March and April but was little changed in May.

Even in the service-producing industries, the overall growth of about 135,000 jobs from April to May was quite slow, and none of the major industry divisions showed particular strength. This sector is especially important in analysis of employment developments now, since it employs 8 out of every 10 nonfarm workers. Retail hiring has been quite sluggish for the past 3 months; job gains in wholesale trade have dropped way off after nearly 2 strong years, and even growth in services was quite slow. The 65,000 increase in employment in that industry was among the smallest of the last 6 years. In the entire service-producing sector, only a few industries, such as transportation and health services, could be said to be maintaining a solid rate of growth.

In summary, the employment situation that I was describing to you today is very similar to that which I described last month. We saw payroll jobs grow in May but that growth was slow. In fact, employment increases in the past few months have been much smaller than during the prior 2 years. The rate of unemployment, at just above 5 percent, seems to be fluctuating within a fairly narrow range.

My colleagues and I would be glad to try to answer any questions

you may have. [The table and charts attached to Mrs. Norwood's statement, to-gether with the Employment Situation press release, follow:]

| ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | | | X-1 | | X-11 method | | | | |
|-----------------------------------|--------|-----------------|------------|------------|---------------|-------|----------|--------------|--------|
| Month | Unad- | | Concurrent | | | | | (official | Range |
| and | iusted | Official | (as first | Concurrent | Stable | Total | Residual | method | (cols. |
| vear | rate | procedure | computed) | (revised) | | | | before 1980) | 2-8) |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| | | , | | | | | } | | |
| 1988 | ł | | | | | | | | ļ |
| | | | | | | | | | |
| Mav | 5.4 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | .1 |
| June | 5.5 | 5.4 | 5.4 | 5.3 | 5.3 | 5.4 | 5.4 | 5.3 | .1 |
| Julv | 5.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.4 | .1 |
| August | 5.4 | 5.6 | 5.6 | 5.6 | 5.5 | 5.6 | 5.6 | 5.6 | .1 |
| September | 5.2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | - |
| October | 5.0 | 5.3 | 5.3 | 5.4 | 5.3 | 5.3 | 5.4 | 5.3 | 1.1 |
| November | 5.2 | 5.4 | 5.4 | . 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | .1 |
| December | 5.0 | 5.3 | 5.3 | 5.4 | 5.3 | 5.3 | 5.4 | 5.4 | .1 |
| | | | | | |] | | | |
| 1989 | | | | | | | | | |
| January | 6.0 | 5.4 | 5.4 | 5.4 | 5.5 | 5.4 | 5.3 | 5.5 | .2 |
| February | 5.6 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.0 | 5.2 | .2 |
| March | 5.2 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.8 | 5.0 | 1.2 |
| April | 5.1 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | - |
| May | 5.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.3 | 5.1 | .2 |

Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR Bureau of Labor Statistics June 1989 - i

(1) Unadjusted rate. Unemployment rate for all civilian workers, not seasonally adjusted.

(2) Official procedure (X-11 ARDA method). The published seasonally adjusted rate for all civilian workers. Each of the 3 major civilian labor force components--agricultural employment, nonagricultural employment and unemployment-for 4 agrees groups--males and females, ages 16-19 and 20 years and over--are seasonally adjusted independently using data from January 1974 forward. The data series for each of these 12 components are extended by a year at each end of the original series using ARDMA (Auto-Ragreesive, Integrated, Moving Average) models chosen specifically for each series. Each extended series is then seasonally adjusted with the X-11 portion of the X-11 ARDMA program. The 4 detaused with the additive adjustement model, while the other components are adjusted with the multiplicative model. The unemployment rate is computed by summing all 12 seasonally adjusted components. All the seasonally adjusted are rested at the end of each year: Extrapolated factors for Juny-December are computed in the middle of the year; extrapolated factors for Juny-December are computed in the middle of the year; extrapolated factors for Juny-December are computed in the middle of the year; extrapolated factors for Juny-December are computed at the segment, in the June data become available. Each set of 6-month factors are published in advance, in the January and July

(3) <u>Concurrent (as first computed, X-11 ARDA method)</u>. The official procedure for computation of the rate for all civilian workers using the 12 components is followed except that extrapolated factors are not used at all. Each component is seasonally adjusted with the X-11 ARDA program each wonth as the most recent data become available. Rates for each month of the current year are shown as first computed; they are revised only once each year, at the end of the year when data for the full year become available. For example, the rate for January 1984 would be based, during 1984, on the adjustment of data from the period January 1974 through January 1984.

(4) <u>Concurrent (revised, X-11 ARDMa method)</u>. The procedure used is identical to (3) above, and the rate for the current month (the last month displayed) will always be the same in the two columns. However, all previous months are subject to revision each month based on the seasonal adjustment of all the components with data through the current month.

(5) Stable (X-11 ARIMA method). Each of the 12 civilian labor force components is extended using ARIMA models as in the official procedure and then run through the X-11 part of the program using the stable option. This option assumes that seasonal patterns are basically constant from year-to-year and computes final seasonal factors as unweighted averages of all the seasonal-irregular components for each month across the entire span of the period adjusted. As in the official procedure, factors are extrapolated in 6-month intervals and the series are revised at the end of each year. The procedure for computation of the rate from the seasonally adjusted components is also identical to the official procedure.

(6) Total (X-11 ARIMA method). This is one alternative aggregation procedure, in which total unemployment and civilian labor force levels are extended with ARIMA models and directly adjusted with multiplicative adjustment models in the X-11 part of the program. The rate is computed by taking sessonally adjusted total unemployment as a percent of seasonally adjusted total civilian labor force. Factors are extrapolated in 6-month intervals and the series ervised at the end of each year.

(7) <u>Residual (X-11 ARDMA method</u>). This is another alternative aggregation method, in which total civilian employment and civilian labor force levels are attended using ARDMA models and then directly adjusted with multiplicative adjustment models. The seasonally adjusted unemployment level is derived by subtracting seasonally adjusted employment from seasonally adjusted labor force. The rate is then computed by taking the derived unemployment level as a percent of the labor force level. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(8) <u>X-11 method (official method before 1980)</u>. The method for computation of the official procedure is used except that the series are not extended with ARIMA models and the factors are projected in 12-month intervals. The standard X-11 program is used to perform the seasonal adjustment.

<u>Mathods of Adjustment</u>: The X-11 ARDMA method was developed at Statistics Canada by the <u>Seasonal Adjustment and Fimes Series Staff under the direction of Estels Bee Dagum.</u> The mathod is described in <u>The X-11 ARDMA Seasonal Adjustment Method</u>, by Estels Bee Dagum, Statistics Canada Catalogue No. 12-364E, February 1980.

The standard X-11 method is described in X-11 Variant of the Census Method XI Seasonal Adjustment Program, by Julius Shiskin, Allan Young and John Musgrave (Technical Paper No. 15, Bureau of the Census, 1967).





Note: Snaced areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989

Chart 2. Civilian employment-population ratio, seasonally adjusted, 1948-89



Source: Bureau of Labor Statistica, June 2, 1989





Note: Shaded areas represent recessions Source: Bureau of Labor Statistica, June 2, 1969

Chart 4. Civilian employment-population ratio for major age-sex groups, seasonally adjusted, 1948-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989 93

Chart 5. Unemployment rates for whites, blacks, and persons of Hispanic origin, seasonally adjusted, 1973–89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989 94

Chart 6. Civilian employment-population ratio for whites, blacks, and persons of Hispanic origin, seasonally adjusted, 1973-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989 95

Chart 7. Long-term unemployment, seasonally adjusted, 1948-89



Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989



Chart 8. Labor force participation rates for adult men and women, seasonally adjusted, 1948-89

Note: Shaded areas represent recessions Source: Bureau of Labor Statistics, June 2, 1989



United States Department of Labor



Bureau of Labor Statistics

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THE EMPLOYMENT SITUATION: MAY 1989

523-1913

Employment and unemployment were little changed in May, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall unemployment rate was 5.1 percent and the civilian worker rate was 5.2 percent. This compares with 5.2 and 5.3 percent, respectively, in the previous month.

Nonagricultural payroll employment--as measured by the survey of business establishments--edged up by 100,000 in May, after seasonal adjustment, and total civilian employment--as measured by the household survey--showed little growth. Results from both surveys indicate that the pace of employment growth has moderated in recent months.

Unemployment (Household Survey Data)

Both the number of unemployed persons and the civilian worker unemployment rate were little changed in May, after seasonal adjustment. A total of 6.4 million persons were unemployed; the civilian worker jobless rate was 5.2 percent. Both figures are somewhat below those of a year earlier. (See table A-2.)

Jobless rates for adult women (4.8 percent), teenagers (15.2 percent), blacks (11.0 percent), whites (4.4 percent), and Hispanics (7.9 percent) all held about steady from April to May. An exception to this pattern was a three-tenths of a percentage point decrease in the jobless rate for adult men to 4.3 percent; this followed an increase of a similar magnitude in April. (See tables A-2 and A-3.)

Average (mean) duration of unemployment, at 11.8 weeks, declined nearly a full week over the month, as the number of very long-term unemployed—those who are jobless for 6 months or more—declined by 125,000. Median duration, at 5.3 weeks, was about unchanged. (See table A-7.)

The number of persons working part time for economic reasons--often referred to as the partially unemployed--decreased by about 300,000 in May to 4.8 million. (See table A-4.)

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment was little changed over the month at a seasonally adjusted level of 117.2 million. The employment-population ratio--the proportion of the population that is employed-maintained its record high 63.0 percent for the third consecutive month. (See table A-2.)

| | Quarte | rly : | Mor | thly data | L | Apr |
|------------------------|----------|----------|-----------|-----------|----------|----------|
| Category | 1988 : | 1989 | | 1989 | | May |
| | IV : | I | Mar. | Apr. | May | change |
| HOUSEHOLD DATA | | | | | | |
| 1 | | The | usands of | persons | | |
| Labor force 1/ | 124,084; | 124,979: | 124,948 | 125,343 | 125,283 | -60 |
| Total employment 1/; | 117,539; | 118,588; | 118,820; | 118,797 | 118,888 | 91 |
| Civilian labor force | 122,388; | 123,291 | 123,264 | 123,659 | 123,610 | -49 |
| Civilian employment; | 115,843: | 116,900; | 117,136 | 117,113 | 117,215 | 102 |
| Unemployment | 6,545; | 6,391; | 6,128 | 6,546 | 6,395 | -151 |
| Not in labor force | 62,865: | 62,482: | 62,633 | 62,365 | 62,571 | 206 |
| Discouraged workers: | 951 : | 855 : | N.A. | N.A. | N.A. | N.A. |
| 1 | | | | | | ; |
| | | Pe | rcent of | labor for | œ | |
| Unemployment rates: | | | Ì | | | ! |
| All workers <u>1</u> / | 5.3: | 5.1: | 4.9: | 5.2 | 5.1 | 0.1 |
| All civilian workers | 5.3: | 5.2; | 5.0: | 5.3 | 5.2 | :1 |
| Adult men | 4.7: | 4.5: | 4.2: | 4.6 | 4.3 | :3 |
| Adult women | 4.7: | 4.6 | 4.6 | 4.7 | . 4.8 | : .1 |
| Teenagers | 14.6 | 15.0: | 13.7: | 14.4 | 15.2 | 8. |
| White | 4.6 | 4.4 | 4.2: | 4.6 | 4.4 | :2 |
| Black | 11.3 | 11.6; | 10.9 | 10.8 | 11.0 | : .2 |
| Hispanic origin; | 7.8: | 7.2: | 6.5 | 8.3 | 7.9 | 4 |
| | | | ! | | | <u> </u> |
| ESTABLISHMENT DATA 2/ | | _ | | | | • |
| No-6 | 100 2001 | T | housands | of jobs | | |
| Nontarm employment | 106,799; | 107,680 | 107,888 | p108,094 | p108,195 | p101 |
| Goods-producing | 25,452; | 25,634 | 25,646 | p25,664 | p25,631 | p-33 |
| service-producing | 81,346 | 82,047 | 82,242 | p82,430 | p82,564 | p134 |
| | <u>'</u> | | | i | | i |

Table A. Major indicators of labor market activity, seasonally adjusted

| , | Hours of work | | | | | | | | | | |
|------------------------------------|---------------|--------|----------|---------|--------------|--|--|--|--|--|--|
| Average weekly hours: | | 1 | 1 | | | | | | | | |
| Total private | 34.7: | 34.7: | 34.7 | p34.9 | p34.6: p-0.3 | | | | | | |
| Manufacturing | 41.1 | 41.1; | 41.0: | 741.2 | p41.0; p2 | | | | | | |
| Overtime | 3.9 | 3.9 | 4.0 | p4.0 | p3.8 p2 | | | | | | |
| $\frac{1}{2}$ Includes the resider | nt Armed E | orces. | <u>.</u> | N.A.=no | t available. | | | | | | |

2/ Establishment data have been revised to reflect March 1988 benchmarks and updated seasonal adjustment factors.

p=preliminary.

After rising substantially in the prior month, the civilian labor force was little changed in $M_{2,Y}$ at 123.6 million. Over the year, the civilian labor force rose by 2.4 million, with adult women accounting for 1.7 million of the gain and adult men 800,000. (See table A-2.)

Industry Payroll Employment (Establishment Survey Data)

Growth in nonagricultural employment continued to slow in May, as the number of payroll jobs edged up by 100,000 to a level of 108.2 million, seasonally adjusted. (See table B-1.) Averaging 160,000 over the last 3 months, payroll employment gains have been well off their average pace of 275,000 in the prior 12-month period. Virtually all of May's modest employment growth occurred in the service-producing sector, as the goods-producing industries experienced a small job decline.

Employment in the goods sector lost what small gains it had made between February and April, with a decline of 35,000 in May. Manufacturing employment, off by 30,000 in the last 2 months, returned to its January level. The weakness in manufacturing was widespread, as the number of jobs in most of its major industry groups declined slightly or showed little change. Employment in the electrical equipment industry declined for the sith consecutive month. Construction hiring was just short of seasonal expectations, and, as a result, the number of construction jobs decreased slightly on a seasonally adjusted basis. Construction employment has shown no consistent growth since January. The number of mining jobs, which had edged up in March and April, was unchanged in May.

Job gains in the service-producing sector have also slowed in recent months. Employment in wholesale trade showed no change in May, following a gain of only 10,000 in April; this is in contrast to monthly gains averaging 20,000 in the prior year. Retail trade has also shown little or no job growth in the last 2 months, after posting strong gains in late 1988 and early this year. Employment in the services industry rose by 65,000 in May, well below its monthly average of about 110,000 over the prior year. Gains in business services (up only 10,000 in May and 40,000 over the last 3 months) have been well off the pace sustained throughout most of the expansion. In contrast, health services, with a job gain of 35,000 in May, has shown steady monthly growth. Another consistent job gainer has been the transportation industry, where a May increase of 15,000 was about average for that industry. Slight employment expansion continued to be registered in finance, insurance, and real estate.

Weekly Hours (Establishment Survey Data)

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls decreased 0.3 hour to 34.6 hours in May, after seasonal adjustment. This marked a return to the levels prevailing in February and March, following an overstated increase in April. Similarly, both the factory workweek and overtime fell 0.2 hour, to 41.0 and 3.8 hours, respectively. (See table B-2.) The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 127.5.(1977=100), fell 0.9 percent in May, on a seasonally-adjusted basis, reversing a similar increase in April. The manufacturing index declined by 0.7 percent to 96.5. Both movements were responses to the April overstatement in hours. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Following a sizable increase in April, average hourly earnings of private production or nonsupervisory workers were about unchanged in May, seasonally adjusted. Reflecting the drop in the hours series, average weekly earnings showed a seasonally adjusted decline of 0.8 percent. Prior to seasonal adjustment, average hourly earnings were little changed, while average weekly earnings rose 1.0 percent. Over the past year, hourly earnings have risen by 3.7 percent and weekly earnings by 3.4 percent. (See tables B-3 and B-4.)

Revisions in the Establishment Survey Data

In accordance with annual practice, the establishment survey data have been revised to reflect complete counts of employment (benchmarks). These counts are principally derived from unemployment insurance tax records for March 1988. The effects of the benchmark revision on current data are shown in table B, which presents data for February 1989. February data are used because they represent the last month of final published estimates prior to this benchmark revision.

Also in accordance with usual practice, seasonal adjustment factors have been recalculated to incorporate the experience through March 1989. As a result, seasonally adjusted series for the past 5 years are subject to revision. The BLS uses the X-11 ARMA (Auto-Regressive Integrated Moving Average) seasonal adjustment methodology to seasonally adjust establishment-based employment, hours, and earnings data. In the past, the X-11 ARMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead. This year, the Bureau is introducing a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are now calculated only for the first 6 months after benchmarking. A second set of projected seasonal factors, for use during the subsequent period, will be computed based upon data through September and introduced with the release of data for October. Revisions of historical data for the most recent 5 years will continue to be made

The ELS is also working on an extension to X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period (as well as for the occasional effects of Labor Day in the September survey reference period). If this research proves successful, this extension will be introduced for the computation of the seasonal adjustment factors to be published in November 1989.

All unadjusted establishment data series from April 1987 forward and all seasonally adjusted series from January 1984 forward are affected by the annual revisions announced today. The June 1989 issue of Employment and Earnings will contain a discussion of the effects of the benchmark revisions, revised seasonal adjustment factors to be used during April-September 1989, and an explanation of the seasonal adjustment methodology. This issue will also present revised estimates for all regularly published tables containing national establishment survey data on employment, hours, and earnings. All of the revised historical series will be published in a special supplement to Employment and Earnings, which is expected to be issued in July. This supplement, when combined with the historical volume, Employment, Hours, and Earnings, United States, 1909-84 (HLS Bulletin 1312-12), will comprise the full historical series on national data obtained from the establishment survey.

Table B. Establishment survey employment estimates for February 1989, not seasonally adjusted

(In thousands)

| Industry | February employ estimat | Difference | |
|--------------------------------------|-------------------------------|---------------|----------------------------|
| | Before revision | As revised | e 6 7 8 9 1 |
| Total nonfarm employment | 106,937 | 106,342 | -595 |
| Total private | 89,041 | 88,463 | -578 |
| Mining | 705 | 696 | -9 |
| Construction | 4,957 | 4,747 | -210 |
| Manufacturing | 19,652 | 19,518 | -134 |
| Transportation and public utilities. | 5,635 | 5,597 | -38 |
| Wholesale trade | 6,305 | 6,115 | -190 |
| Retail trade | 19,089 | : 18,937 | -152 |
| Finance, insurance, and real estate. | 6,689 | 6,698 | 9 |
| Services | 26,009 | 26,155 | 146 |
| Government | 17,896 | 17,879 | -17 |
| Federal | 2,969 | : 2,969 | 0 |
| State | 4,177 | : 4,189 | 12 |
| Local | 10,750 | : 10,721 | : -29 |

The Employment Situation for June 1989 will be released on Friday, July 7, at 8:30 A.M. (EDT).

Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 55,800 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (BLS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolls that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by BLS in cooperation with State agencies. The sample includes over 300,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job as which they worked the most hours.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather; disputes between labor and management, or personal reasons. Members of the Armed Forces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work at that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (civilian plus the resident Armed Force). Table A-5 presents a special grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a civilian labor force base.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

— The household survey, although based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Porces;

- The bousehold survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the establishment survey is not limited by age;

— The household survey has no duplication of individuals, because each ladividual is counted only once; in the establishment survey, employees working at more than one job or otherwise appearing on more than one payroll woeld be counted exparately for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon request.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the ievels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Recause these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each June is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can be adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in economic activity

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours, and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BLS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-June period and again for the July-December period. The January revision is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 68 out of 100 that an estimate based on the sample will differ by no more than the standard error from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence—the confidence limits used by 8LS in its analyses—the error for the monthly change in total employment is on the order of plus or minus 358,000; for total unemployment it is 224,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "true" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of treenagers. Specifically, the error on monthly change in the jobless rate for men is .25 percentage point; for teenagers, it is 1.29 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are revised. In other words, data for the month of September are published in preliminary form in October and November and in final form in December. To remove errors that build up over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks—comprehensive counts of employment-against which month-to-month changes can be measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments.

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in *Employment and Earnings*, published each month, by BLS. It is available for \$8.50 per issue or \$25.00 per year from the U.S. Government Printing Office, Washington, DC 20204. A check or money order made out to the Superintendent of Documents must accompany all orders.

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M, O, P, and Q of that publication.

HOUSEHOLD DATA

Table A-1. Employment status of the population, including Arm ed Forces in the United States, by sex

(Numbers in thousands)

| | Not ee | econally a | djusted | Sessonally adjusted' | | | | | | |
|---|--------------|--------------|-------------|----------------------|--------------|--------------|--------------|--------------|-------------|--|
| Employment status and sex | Mary 1968 | Apr. 1989 | May 1969 | May 1988 | Jan. 1989 | Feb. 1969 | Mar. 1989 | Apr. 1989 | May 1989 | |
| TOTAL | | | | | | | | | | |
| Noninstitutional population ² | 186.068 | 187,708 | 187,854 | 186.068 | 187.340 | 187.461 | 187.581 | 167.708 | 187.854 | |
| Labor force ¹ | 122,489 | 124,260 | 124,869 | 122.917 | 125,124 | 124,865 | 124.948 | 125.343 | 125,283 | |
| Participation rate ³ | 65.6 | 68.2 | 66.5 | 66.1 | 66.8 | 66.6 | 66.6 | 66.8 | 66.7 | |
| Total employed" | 115,936 | 118.031 | 118,712 | 116,117 | 118,407 | 118,537 | 118.820 | 118,797 | 116,688 | |
| Employment-population ratio" | 62.3 | 62.9 | 63.2 | 62.4 | 63.2 | 63.2 | 63.3 | 63.3 | 63.3 | |
| Resident Armed Forces | 1.714 | 1.684 | 1.673 | 1.714 | 1.696 | 1.684 | 1.684 | 1.684 | 1.673 | |
| Civilian employed | 114.222 | 116.347 | 117.039 | 114,403 | 116,711 | 116,853 | 117,138 | 117.113 | 117,215 | |
| Agriculture | 3,292 | 3,118 | 3,284 | 3,110 | 3,300 | 3.223 | 3,206 | 3,104 | 3,112 | |
| Nonagricultural industries | 110,930 | 113,231 | 113,755 | 111,293 | 113,411 | 113,630 | 113,930 | 114.009 | 114.102 | |
| Unemployed | 6,553 | 6,229 | 6,156 | 6,600 | 6,716 | 6.328 | 6,128 | 6.546 | 6.395 | |
| Unemployment rate ⁴ | 5.3 | 5.0 | 4.9 | 5.5 | 5.4 | 5.1 | 4.9 | 5.2 | 5.1 | |
| Not in labor force | 63,599 | 63,448 | 62,965 | 63,171 | 62,216 | 62,596 | 62,633 | 62.365 | 62.571 | |
| Men. 16 years and over | | | | | | | | | | |
| Noninstitutional cooutation? | 89 287 | 90.094 | 90 167 | 89 297 | 89.914 | 89 973 | 90.032 | 90.094 | 90 167 | |
| Labor force ² | 68 272 | 68.684 | 68,980 | 68,409 | 69.032 | 69 113 | 69 190 | 69 360 | 69 114 | |
| Participation rate? | 76.5 | 78.2 | 78.5 | 76.6 | 76.6 | 76.8 | 78.9 | 77.0 | 767 | |
| Total employed* | 64.696 | 65,185 | 65,731 | 64.672 | 65.322 | 65.572 | 65,920 | 65 767 | 65 713 | |
| Employment-population ratio* | 72.5 | 72.4 | 72.9 | 72.4 | 72.6 | 72.9 | 73.2 | 73.0 | 72.8 | |
| Resident Armed Forces | 1.553 | 1.521 | 1.511 | 1.553 | 1.532 | 1.521 | 1.521 | 1.521 | 1.511 | |
| Civilian employed | 63,143 | 63,664 | 64,220 | 63.119 | 63,790 | 64.051 | 64,399 | 64,248 | 64.202 | |
| Unemployed | 3.575 | 3,499 | 3.249 | 3,737 | 3,710 | 3.540 | 3.270 | 3,593 | 3,401 | |
| Unemployment rate* | 5.2 | 5.1 | 4.7 | 5.5 | 5.4 | 5.1 | 4.7 | 5.2 | 4.9 | |
| Women, 15 years and over | | | | | | | | | | |
| Moninetiti dinnel non detino ⁷ | 00 001 | 07.814 | 07 007 | 00 001 | 07.077 | 077.400 | 07.660 | | | |
| Labor fores ² | 54 214 | 55 574 | 55 894 | 54 600 | 54.004 | 65 75 2 | 87,000 | 87,014 | 64.100/ | |
| Perticipation rate ² | 58.0 | 580 | 57 3 | 54.00 | 57.0 | 57 0 | 57.0 | 67 4 | 874 | |
| Total ampired [#] | 51 240 | 52 848 | 52 081 | 51 446 | 63 085 | 57.2 | 57.2 | 52 000 | 57.5 | |
| Employment.non dation ratio ⁴ | 620 | 641 | 64 2 | 52.1 | 64.6 | 54.9 | 32,000 | 55,029 | 03,175 | |
| Resident Armed Formes | 181 | 183 | 182 | 161 | 184 | 103 | 182 | 182 | 142 | |
| Civilian employed | 51 079 | 52 683 | 52 810 | 51 284 | 52 021 | 62 802 | 62 727 | 62 000 | 62 012 | |
| Unemployed | 2 976 | 2 730 | 2 907 | 3 063 | 3,008 | 2 797 | 2 858 | 2 062 | 2004 | |
| Unemployment rate* | 5.5 | 4.9 | 5.2 | 5.6 | 5.4 | 5.0 | -6.1 | 5.3 | . 5.3 | |

Armed Forces figures are not adjusted for re, identical numbers appear in the unadjusted n: 1

y adjusted columns. members of the Armed Forces stationed in the United

⁵ Labor force as a percent of the noninstitutional population.
⁶ Total employment as a percent of the noninstitutional population.
⁹ Unemployment as a percent of the labor force (including the real mod Force).

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Table A-2. Employment status of the civilian population by sex and age

(Numbers in thousands)

| | Not ee | secondly a | djusted ' | | Seconal | | | adjustad' | | | |
|--|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--|--|
| Employment status, sex, and age | May 1968 | Apr. 1989 | May 1969 | Mary 1988 | Jan. 1989 | Feb. 1989 | Mar. 1969 | Apr. 1989 | May 1969 | | |
| TOTAL | | | | | | | | | | | |
| Ovilian noninstitutional population | 184,374 | 166.024 | 186,181 | 184,374 | 185.644 | 185.777 | 185,897 | 185.024 | 186.181 | | |
| Civilian labor force | 120,775 | 122.576 | 123,198 | 121,203 | 123.428 | 123.181 | 123 284 | 123.650 | 123 610 | | |
| Participation rate | 65.5 | 65.9 | 66.2 | 65.7 | 66.5 | 66.3 | 66.3 | 66.5 | 88.4 | | |
| Employed | 114,222 | 116.347 | 117.039 | 114,403 | 116,711 | 118.853 | 117,136 | 117 118 | 117 218 | | |
| Employment-population ratio* | 620 | 62.5 | 62.9 | 62.0 | 62.9 | 62.9 | 63.0 | 63.0 | | | |
| Unemployed | 6.553 | 6,229 | 6,156 | 6,800 | 6,718 | 6326 | 6 128 | 6 546 | 6 306 | | |
| Unemployment rate | 5.4 | 5.1 | 5.0 | 5.6 | 5.4 | 5.1 | 5.0 | 5.3 | 5.2 | | |
| Men, 20 years and over | | | | | | | | | | | |
| Chillian contractitutional operation | 80.402 | 01 413 | a1 574 | 80.400 | | | | | | | |
| Chillion labor forme | 60,402 | 61,413 | 61,024 | 80,402 | 01,102 | 81,200 | 61,333 | 61,413 | 81,524 | | |
| Participation rate | 22,000 | 03,370 | 63,500 | 04,721 | 63,356 | 63,490 | 63,007 | 63,709 | 63,503 | | |
| Employed | 10.0 | | 11.8 | 10.0 | /6.1 | /8.1 | /8.1 | 78.3 | 77.9 | | |
| Employed | 08,743 | 60,430 | 60,699 | 39,000 | 80,420 | 60,636 | 60,869 | 60,757 | 60,798 | | |
| | 2000 | 142 | /4./ | /4.2 | /4.4 | /4.6 | 74.8 | 74.8 | 74,6 | | |
| Nonextination instruction | \$7,400 | 2.211 | 2,365 | 2,238 | 2,211 | 2,320 | 2,317 | 2,252 | 2,264 | | |
| I frameword | 07,408 | 30,134 | 36,014 | 57,418 | 56,143 | 56,316 | 58,552 | 58,505 | 58,614 | | |
| Unemployment rate | 4.7 | 2,940 | 2,602 | 3,005 | 2,938 | 2,853 | 2,688 | 2,962 | 2,706 | | |
| Women, 20 years and over | | | | | | | | | | | |
| Civilian noninstitutional population | 89 382 | 90.318 | 00.432 | 80 382 | 90.072 | 00 152 | 00.242 | 00.010 | ~ ~ ~ | | |
| Civilian labor force | 50.428 | 61 855 | 52 078 | 50 532 | 51 008 | 61 821 | 51 861 | 51,000 | 80,432 | | |
| Participation rate | 58.4 | 57.4 | 57.8 | 68.5 | 57.7 | 57.5 | 51,651 | 01,002 | 34,171 | | |
| Employed | 48.018 | 49 578 | 49 692 | 48 040 | 49 642 | 40 614 | 10 494 | 10,10 | 40 000 | | |
| Employment-occulation ratio ² | 537 | 54.0 | 54.0 | 527 | 55.0 | 54.0 | | 40,044 | 48,080 | | |
| Acriculture | 644 | 800 | 000 | 804 | 715 | 884 | 34.0 | | 04.8 | | |
| Noneoricultural instastrine | 47 979 | 48.078 | 40 012 | 47 438 | 49 927 | 49.840 | 40 000 | 40,000 | | | |
| Unemployed | 9 400 | 3 977 | 3 304 | 2 492 | 2 455 | 0,040 | 40,010 | 10,020 | 40,002 | | |
| Unemployment rate | 4.8 | 4.4 | 4.6 | 4.9 | 4.7 | 4.5 | 4.6 | 4.7 | 4.8 | | |
| Both sexus, 16 to 19 years | | | | | | | | | | | |
| Civilian noninstitutional consistion | 14 590 | 14 293 | 14 924 | 14 600 | 14 410 | 14 397 | 14 999 | 14 000 | | | |
| Civilian labor force | 7.652 | 7.350 | 7.617 | 7 950 | 8.071 | 7 871 | 7 854 | 7 064 | 7 000 | | |
| Perticipation rate | 52.4 | 51.4 | 53.4 | 54.6 | 58.0 | 548 | 4,000 | 1,000 | 1,36,90 | | |
| Employed | 6.459 | 6 334 | 6450 | 6 707 | 8 749 | 8 702 | 8 785 | 8 810 | | | |
| Employment-copulation ratio? | 44.3 | 44.2 | 45.4 | 48.0 | 48.0 | 48 7 | 47 4 | 47.5 | 474 | | |
| Aaroutum | 312 | 240 | 222 | 268 | 307 | 70./ | | | | | |
| Nonecricultural industries | 6 147 | A 000 | 8 227 | 8,430 | 8 441 | 8 498 | 4 6 6 6 0 | 23/ | 200 | | |
| Unemployed | 1 193 | 1 012 | 1 150 | 1 242 | 1 9 9 9 | 1,169 | 1,070 | 0,0/0 | 0,020 | | |
| Unemployment rate | 15.6 | 13.8 | 15.2 | 15.6 | 18.4 | 14.8 | 13.7 | 14.4 | 15.2 | | |
| | | | | | | | | | | | |

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonably adjusted columns.

* Civilian employment as a percent of the civilian noninstitutional population.

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Table A-3. Employment status of the civilian population by race, eex, age, and Hispanic origin

(Numbers in thousands)

| | Not ee | sonally a | djusted | | 8 | leasonally | adjusted | | |
|---|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Employment status, race, sox, age, and Hispanic origin | May 1988 | Apr. 1989 | Mary 1989 | May 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 | Mary 1989 |
| WHITE | | | | | | | | | |
| Civilian noninstitutional population | 158.034 | 159,098 | 159,200 | 158,034 | 158,885 | 158,947 | 159,020 | 159,098 | 159,200 |
| Civilian labor force | 104,125 | 105,542 | 105,898 | 104,433 | 108,106 | 105,798 | 105,988 | 106,312 | 106,164 |
| Participation rate | 65.9 | 68.3 | 66.5 | 66.1 | 66.8 | 66.6 | 68.7 | 66.8 | 66.7 |
| Employed | 99,414 | 100,941 | 101,412 | 99,508 | 101,183 | 101,278 | 101,554 | 101,458 | 101,465 |
| Employment-population ratio" | 4 711 | 4 601 | 4 488 | 4 925 | 4 923 | 4.521 | 4434 | 4 854 | 4 600 |
| Unemployment rate | 4.5 | 4.4 | 4.2 | 4.7 | 4.6 | 4.3 | 4.2 | 4.6 | 4.4 |
| Nen, 20 years and over Chillian labor force | 54 703 | 55,207 | 55,265 | 54,722 | 55,213 | 55,308 | 55.382 | 55.448 | 55 249 |
| Participation rate | 78.4 | 78.3 | 78.3 | 78.4 | 78.5 | 78.6 | 78.6 | 78.7 | 78.3 |
| Employed | 52,523 | 53,033 | 53,354 | 52,443 | 53,007 | 53,197 | 53,387 | 53,248 | 53,248 |
| Employment-population ratio ² | 75.3 | 75.2 | 75.6 | 75.2 | 75.4 | 75.6 | 75.8 | 75.5 | 75.5 |
| Unemployed | 2,180 | 2,173 | 1,911 | 2,279 | 2,205 | 2,111 | 1,995 | 2,202 | 2,001 |
| Unemployment rate | 4.0 | 3.9 | 3.5 | 4.2 | 4,0 | 3.8 | 3.0 | 4.0 | 3.6 |
| Women, 20 years and over | 42 808 | 42.054 | 44 000 | 47 888 | 43 036 | 43 770 | 43 780 | 44.018 | 44 084 |
| Participation rate | 56.0 | 57.1 | 57 1 | 56.1 | 57.2 | 56.9 | 56.9 | 57.2 | 57.2 |
| Employed | 41,145 | 42,291 | 42,324 | 41,124 | 42,201 | 42,177 | 42,115 | 42,207 | 42,202 |
| Employment-population ratio ¹ | 53.9 | 54.0 | 54.9 | 53.6 | 54.9 | 54.8 | 54.7 | 54.8 | 54.9 |
| Unemployed | 1,663 3.9 | 1,663 | 1,716 | 1,744 | 1,734 | 1,593 | 1,665 | 1,810 | 1,803 |
| Both sexes, 16 to 19 years | | | | | 1 | | | | |
| Civilian labor force | 6,614 | 6,382 | 6,593 | 8,843 | 6,958 | 6,720 | 6,826 | 6,848 | 6,631 |
| Participation rate | 55.7 | 55.0 | 57.0 | 57.8 | 59.6 | 57.7 | 58.7 | 59.0 | 59.0 |
| Employee | 0,740 | 48.4 | 5,734 | 500 | 51 1 | 507 | 52 1 | 51.8 | 61.3 |
| Unemployed | 868 | 765 | 659 | 902 | 963 | 816 | 774 | 843 | 695 |
| Unemployment rate | 13.1 | 12.0 | 13.0 | 13.2 | 14,1 | 12.1 | 11.3 | 12.3 | 13.1 |
| Men | 13.0 | 12.7 | 13.0 | 14.0 | 18.4 | 14.0 | 12.3 | 13.1 | 14.8 |
| | 10.2 | ···- | | 1 | | | | | |
| BLACK | - | - | - | | | | | - | |
| Civilian lehor forme | 13.042 | 13 121 | 13,372 | 13,102 | 13,477 | 13 476 | 13,425 | 13,287 | 13,444 |
| Participation rate | 63.2 | 62.6 | 63.7 | 63.4 | 64.6 | 64.5 | 64.1 | 63.4 | 64.1 |
| Employed | 11,440 | 11,699 | 11,682 | 11,514 | 11,860 | 11,873 | 11,981 | 11,848 | 11,968 |
| Employment-population ratio* | 55.4 | 55.8 | 56.6 | 55.8 | 56.8 | 56.8 | 57.1 | 58.5 | 57.0 |
| Unemployed | 1,602 | 1,422 | 1,491 | 1,588 | 1,617 | 1,603 | 1,464 | 1,442 | 1,476 |
| Man 20 years and over | | | | | | | | | |
| Civilian tabor force | 6,123 | 6,165 | 6.222 | 6,107 | 6.226 | 6,199 | 6,230 | 6,171 | 6,207 |
| Participation rate | 74.7 | 73.9 | 74.5 | 74.5 | 75.0 | 74.6 | 74.8 | 74.0 | 74.9 |
| Employed | 5,465 | 5,515 | 5,616 | 5,469 | 5,576 | 5,549 | 5,620 | 5,554 | 5,522 |
| Employment-population ratio* | 66.7 | 66.1 | 67.2 | 68.7 | 67.2 | 66.7 | 67.5 | 66.6 | 67.3 |
| Unemployee | 10.7 | 10.5 | 9.7 | 10.4 | 10.4 | 10.5 | 9.8 | 10.0 | 9.4 |
| Women, 29 years and over | | | | | | | | | ŀ |
| Civilian labor force | 6,061 | 6,174 | 6,293 | 6,099 | 6,369 | 6,349 | 6,315 | 6,227 | 6,340 |
| Participation rate | 59.0 | 59.1 | 60.2 | 59.4 | 61.2 | 61.0 | 60.5 | 59.6 | 60.6 |
| Employed | 527 | 540 | 54.4 | 53 1 | 54.9 | 54.7 | 55.0 | 54.3 | 54.0 |
| Unemployed | 647 | 536 | 599 | 646 | 663 | 651 | 576 | 550 | 600 |
| Unemployment rate | 10.7 | 8.7 | 9.5 | 10.6 | 10.4 | 10.3 | 9.1 | 8.8 | 9.5 |
| Both sexes, 16 to 19 years Chillion labor force | 857 | 783 | 957 | 804 | 894 | 0.00 | 880 | 900 | 807 |
| Participation rate | 39.3 | 38.0 | 39.4 | 41.1 | 40.5 | 42.7 | 40.5 | 40.9 | 41.3 |
| Employed | 560 | 546 | 572 | 592 | 577 | 627 | 602 | 615 | 606 |
| Employment-population ratio ³ | 25.7 | 25.1 | 26.3 | 27.2 | 26.5 | 28.8 | 27.7 | 28.3 | 27.9 |
| Unemployed | 297 | 236 | 285 | 304 | 304 | 301 | 278 | 274 | . 291 |
| Unemployment rate | 34.6 | 30.2 | 33.3 | 33.9 | 34.5 | 32.4 | 31.6 | 30.8 | 32.4 |
| Men | 33.1 | 33.6 | 37.0 | 33.2 | 36.7 | 33.1 | 28.6 | 35.5 | 36.9 |
| | 30.7 | 20.8 | 28.5 | 34.8 | 32.0 | 31.6 | 34.8 | 20.2 | 20.4 |
| | · | | • | • | • | | | | |

See footnotes at end of table.

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Table A-3. Employment status of the civilian population by race, sex, age, and Hispanic origin-Continu

(Numbers in thousands)

| | | | | | | | _ | | |
|--|---------|------------|---------|--------|--------|-----------|-----------|--------|--------|
| | Not sea | sonally ac | ljusted | | s | essonally | adjusted' | | |
| Employment statua, race, sex, age, and | May | Apr. | May | May | Jan. | Feb. | Mar. | Apr. | May |
| Hispanic origin | 1988 | 1989 | 1989 | 1988 | 1989 | 1989 | 1989 | 1989 | 1969 |
| HISPANIC ORIGIN Civilian noninstitutional population Civilian habor force Participation rate Employed Employed Unemployed Unemployed | 13,268 | 13,690 | 13,731 | 13,268 | 13,564 | 13,606 | 13,649 | 13,690 | 13,731 |
| | 8,819 | 9,210 | 9,334 | 8,910 | 9,205 | 9,219 | 9,210 | 9,262 | 9,428 |
| | 66.5 | 67.3 | 68.0 | 67,2 | 67.9 | 67.8 | 67.5 | 67.7 | 68.7 |
| | 6,058 | 8,461 | 8,606 | 8,128 | 8,434 | 8,596 | 6,607 | 8,495 | 8,696 |
| | 60.7 | 61.8 | 62.7 | 61.3 | 62.2 | 63.2 | 63.1 | 62.1 | 63.3 |
| | 762 | 749 | 725 | 782 | 771 | 624 | 603 | 767 | 742 |
| | 8.6 | 8.1 | 7.8 | 8,8 | 8.4 | 6.8 | 6.5 | 8.3 | 7,9 |

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.
population.
NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

Table A-4. Selected employment indicators

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(in thousands)

| | Not se | sonally a | djusted | | 1 | Seasonally | , adjusted | , | |
|--|-------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|------------------|
| Category | May 1988 | Apr. 1989 | May 1989 | May 1988 | Jan. 1989 | Feb. 1989 | Mar. 1969 | Apr. 1989 | May 1989 |
| CHARACTERISTIC | | | | | | | | | |
| Chillion analysis of 16 years and over | 114 222 | 116.347 | 117.039 | 114.403 | 116,711 | 116.653 | 117,138 | 117,113 | 117,215 |
| Weiter employed, to your and over | 40 388 | 40.726 | 40,984 | 40.317 | 40,925 | 40.928 | 41,083 | 40,890 | 40,902 |
| Married man, spouse present | 28 681 | 29 804 | 29,798 | 28.632 | 29,589 | 29,412 | 29,569 | 29,656 | 29,739 |
| Women who maintain families | 6,034 | 6,255 | 6,356 | 6,000 | 6,416 | 6,385 | 6,256 | 6,243 | 6,331 |
| MAJOR INDUSTRY AND CLASS OF WORKER | | | | | | | | • | |
| | | l | | | | | | | 3 ⁷ ' |
| Mana and point workers | 1.685 | 1.608 | 1.718 | 1.574 | 1,684 | 1,645 | 1,658 | 1,554 | 1,610 |
| Call ampired writers | 1,419 | 1.385 | 1.411 | 1,365 | 1,387 | 1,419 | 1,403 | 1,419 | 1,358 |
| Linneid family workers | 188 | 123 | 155 | 155 | 189 | 150 | 138 | 124 | 127 |
| Negeria dara industrias | | | | | | | | | |
| Winne and agint writers | 101,786 | 104.301 | 104,878 | 102,145 | 104,510 | 104,797 | 104,982 | 104,965 | 105,245 |
| Government | 17.090 | 17,403 | 17,368 | 16,946 | 17,393 | 17,311 | 17,382 | 17,180 | 17,230 |
| Brivete industries | 84.696 | 66,696 | 87,510 | 65,199 | 87,117 | 87,486 | 87,600 | 87,806 | 88,015 |
| Private households | 1,160 | 1,091 | 1,158 | 1,152 | 1,196 | 1,135 | 1,163 | 1,117 | 1,128 |
| Other industries | 83.516 | 85,807 | 86,352 | 84,047 | 85,921 | 88,350 | 66,437 | 86,689 | 86,887 |
| Self-employed workers | 8,846 | 6,636 | 8,559 | 8,816 | 8,718 | 8,517 | 8,645 | 8,671 | 8,516 |
| Unpeld family workers | 297 | 293 | 318 | 301 | 298 | 285 | 332 | 281 | · 322 |
| PERSONS AT WORK PART TIME' | | | | | | | | | 1 |
| All inclustries | | | | | | | | | |
| Bert time for economic respons | 4.874 | 4,783 | 4,624 | 4,878 | 5,097 | 4,981 | 4,968 | 5,143 | 4,837 |
| Slock work | 2,096 | 2,266 | 2,115 | 2,267 | 2,302 | 2,303 | 2,232 | 2,373 | 2,296 |
| Could only find part-time work | 2,215 | 2,204 | 2,200 | 2,353 | 2,352 | 2,333 | 2,393 | 2,425 | 2,343 |
| Voluntary part time | 15,544 | 16,676 | 16,082 | 14,813 | 15,401 | 15,126 | 15,561 | 15,498 | 15,316 |
| Necessie du mai industrian | 1 | | 1 | 1. | | | 1 | | ŀ |
| Bert time for economic reasons | 4.484 | 4.600 | 4,411 | 4,676 | 4,837 | 4,697 | 4,709 | 4,930 | 4,609 |
| Slack work | 2,008 | 2,158 | 1,970 | 2,136 | 2,144 | 2,105 | 2,048 | 2,243 | 2,102 |
| Could only find part-time work | 2,126 | 2,148 | 2,142 | 2,278 | 2,283 | 2,272 | 2,317 | 2,369 | 2,301 |
| Voluntary cart time | 15,012 | 16,205 | 15,650 | 14,376 | 14,970 | 14,688 | 15,127 | 15,060 | 14,976 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

* Excludes persons "with a job but not at work" during the survey period for such reasons as vecation, illness, or industrial dispute.

HOUSEHOLD DATA

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Table A-5. Range of unemployment measures based on varying definitions of unemployment and the labor force, seesonally adjusted (Percent)

| | | | Quar | terly av | rages | | M | onthiy d | eta |
|------|--|-----|------|----------|-------|------|------|----------|-----|
| | Measure | | | 968 | | 1989 | | 1969 | |
| | | | | _m | | | | 4 | |
| U-1 | Persons unemployed 15 weeks or longer as a percent of the civilian labor force | 14 | | | | | | | |
| U-2 | Job losers as a percent of the civilian labor force | 2.6 | 2.5 | 2.5 | 2.5 | 24 | 2.9 | 1.2 | 1.1 |
| U-3 | Unemployed persons 25 years and over as a percent of the olvilian labor force | 4.4 | 42 | 42 | 4.1 | 4.0 | 10 | | |
| U-4 | Unemployed full-time jobseekers as a percent of the full-time civilian labor force | 5.3 | 6.1 | 6.1 | 6.0 | 4.9 | 4.9 | | |
| U-6e | Total unemployed as a percent of the labor force, including the resident Armed Forces | 5.6 | 5.4 | 84 | 6.2 | | | | |
| U-66 | Total unemployed as a percent of the civilian labor force | 5.7 | 6.5 | 5.5 | 5.3 | 5.2 | 5.0 | 5.3 | 6.1 |
| U-8 | Total full-time jobseekars plus 1/2 part-time jobseekars plus 1/2 total on part time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force | 7.9 | 7.8 | 7.8 | 7.5 | 7.2 | 7.1 | 7.4 | 7.1 |
| U-7 | Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons plus discouraged workers as a persent of the chillan labor force plus discouraged workers less 1/2 of the part-time labor force | 8.7 | 6.3 | 8.4 | 8.2 | 7.9 | N.A. | NA | NA |

N.A. - not available.

Table A-6. Selected unemployment indicators, seasonally adjusted

| Cetegory | uner Q | Number o nployed pe in thousand | ni araona dis) | | | Unemployment retee* | | | | | | |
|---|--|--|--|--|---|---|---|--|---|--|--|--|
| | May 1988 | Apr. 1989 | May 1989 | May 1968 | Jan. 1989 | Feb. 1989 | . Mar. 1989 | Apr. 1989 | Mey 1980 | | | |
| CHARACTERISTIC | | | | | | - | <u> </u> | <u> </u> | t | | | |
| Total, 18 years and over Men, 18 years and over Men, 20 years and over Women, 20 years and over Both searse, 16 to 19 years Married men, spouse present Married men, spouse present Women who maintain families Full-time workers Full-time workers Labor force time lost | 6,800 3,737 3,065 3,063 2,492 1,243 1,365 1,174 5,413 1,342 | 8,646 3,503 2,952 2,953 2,448 1,148 1,347 1,247 513 5,247 1,295 | 6,395 3,401 2,705 2,994 2,460 1,210 1,221 1,189 576 5,104 1,242 | 5.6 5.6 4.9 5.6 4.9 15.6 3.3 3.9 6.4 5.2 7.7 6.4 | 5.4 5.5 4.6 5.4 4.7 18.4 3.1 3.6 8.0 5.0 7.9 6.2 | 5.1 6.2 4.5 5.0 4.5 14.8 3.1 3.4 8.0 4.8 7.3 5.9 | 5.0 4.8 4.2 5.1 4.6 13.7 2.9 3.5 7.9 4.8 6.2 5.8 | 6.3 6.3 6.3 4.7 14.4 3.2 4.0 7.8 6.0 7.2 6.0 | 5.2 5.0 4.3 6.9 4.8 15.2 2.9 3.8 6.3 4.8 6.9 5.9 | | | |
| INDUSTRY Nonepricultural private wage and salary workers Goods-producing industries Maining Construction Marufacturing Durable goods Nondurable goods Service-producing industries Transportation and public utitises Transportation and public utilities Apricultural wage and salary workers | 5,089 1,901 74 659 1,168 635 533 3,168 272 1,429 1,467 512 222 | 5,003 1,753 42 616 1,095 614 481 3,250 266 1,381 1,604 486 183 | 4,832 1,704 38 568 1,078 577 500 3,128 252 1,292 1,573 520 186 | 5.6 6.5 9.4 10.5 5.3 4.9 5.2 4.2 6.3 4.6 2.9 12.4 | 5.6 8.4 6.1 10.4 5.3 5.7 5.2 3.8 6.3 4.7 2.7 9.5 | 5.1 8.0 10.0 4.9 4.4 5.5 4.7 3.9 5.6 4.3 2.7 8.9 | 5.0 5.8 9.4 4.8 4.7 4.9 4.6 3.9 5.6 4.1 2.6 8.9 | 5.4 6.0 5.8 9.7 4.9 4.7 5.2 5.1 4.0 5.9 4.8 2.7 10.5 | 5.2 5.6 4.5 9.3 4.9 4.5 5.5 4.9 4.0 5.5 4.9 4.0 5.5 4.7 2.9 10.3 | | | |

¹ Unemployment as a percent of the civilian labor force. ² Aggregate hours lost by the unemployed and persons on part time for

economic reasons as a percent of potentially available labor force hours.

Table A-7. Duration of unemployment

(Numbers in thousands)

| | Not se | secnally a | djusted | | | Seasonalt | y adjusted |) | |
|-----------------------|--|--|--|--|--|--|--|--|--|
| Weeks of unemployment | May 1968 | Apr. 1989 | May 1989 | Mary 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 | May 1969 |
| DURATION | | | | | | | | | |
| Less than 5 weeks | 3,035 1,753 1,765 691 874 14.4 5.9 | 2,778 1,804 1,647 878 769 13.5 6.3 | 3,008 1,708 1,440 792 648 12.4 5.3 | 3,072 2,068 1,614 789 825 13.8 5.9 | 3,181 2,081 1,512 757 755 12.7 5.7 | 3,247 1,865 1,304 665 639 12,1 5,3 | 3,055 1,821 1,310 848 663 12,4 5,4 | 3,090 2,034 1,428 689 737 12.7 5.4 | 3,041 2,017 1,313 702 611 11.8 5.3 |
| Total unemployed | 100.0 46.3 26.8 26.9 13.6 13.3 | 100.0 44.6 29.0 26.4 14.1 12.3 | 100.0 48.9 27.7 23.4 12.9 10.5 | 100.0 45.5 30.6 23.9 11.7 12.2 | 100.0 47.0 30.7 22.3 11.2 11.1 | 100.0 50.6 29.1 20.3 10.4 10.0 | 100.0 49.4 29.4 21.2 10.5 10.7 | 100.0 47.2 31.1 21.8 10.5 11.3 | 100.0 47.7 31.7 20.6 11.0 9.6 |

Table A-8. Reason for unemployment

(Numbers in thousands)

-

| | Not see | sonally a | Queted | | 1 | Seconally | / adjusted | | |
|----------------------|---------|-----------|--------|-------|-------|-----------|------------|-------|-------|
| Reasons | May | Apr. | May | May | Jan. | Feb. | Mar. | Apr. | May |
| | 1988 | 1969 | 1989 | 1988 | 1989 | 1989 | -1989 | 1969 | 1989 |
| NUMBER OF UNEMPLOYED | | | | | | | | | |
| Job Iosen | 3,058 | 2,990 | 2,601 | 3,201 | 3,121 | 2,876 | 2.831 | 2,984 | 2,724 |
| | 698 | 787 | 681 | 806 | 827 | 774 | 808 | 847 | 790 |
| | 2,360 | 2,203 | 1,920 | 2,395 | 2,294 | 2,102 | 2,023 | 2,137 | 1,934 |
| | 820 | 689 | 965 | 942 | 985 | 985 | 885 | 978 | 1,114 |
| | 1,835 | 1,720 | 1,880 | 1,804 | 1,835 | 1,740 | 1,730 | 1,894 | 1,852 |
| | 841 | 630 | 710 | 811 | 780 | 765 | 713 | 671 | 683 |
| PERCENT DISTRIBUTION | • | | | | | | | | |
| Total unemployed | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 46.7 | 48.0 | 42.3 | 47.4 | 46.4 | 45.2 | 46.0 | 45.7 | 42.7 |
| | 10.7 | 12.6 | 11.1 | 11.9 | 12.3 | 12.2 | 13.1 | 13.0 | 12.4 |
| | 36.0 | 35.4 | 31.2 | 35.4 | 34.1 | 33.0 | 32.8 | 32.7 | 30.3 |
| | 12.5 | 14.3 | 15.7 | 13.9 | 14,7 | 15.5 | 14.4 | 15.0 | 17.5 |
| | 26.0 | 27.6 | 30.5 | 28.7 | 27.3 | 27.3 | 28.1 | 29.0 | 29.1 |
| | 12.8 | 10.1 | 11.5 | 12.0 | 11.6 | 12.0 | 11.6 | 10.3 | 10.7 |
| Job losen | 2.8 | 2.4 | 2.2 | 2.6 | 2.5 | 2.3 | 2.3 | 2.4 | 2.2 |
| | .7 | .7 | .6 | .8 | .8 | .8 | .7 | .8 | .9 |
| | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.5 |
| | .7 | .5 | .6 | .7 | .6 | .6 | .6 | .5 | .6 |

Table A-0. Unamployed persons by sex and age, assessmally adjusted

| HOUSEHOLD DAT | ΓA. |
|---------------|-----|
|---------------|-----|

| Sex and ace | unen (J | Number of ployed per thousand | sons s) | Unemployment rates* | | | | | | | |
|--------------------------|-------------|-------------------------------------|--------------|---------------------|--------------|--------------|--------------|--------------|--------------|--|--|
| | May 1988 | Apr. 1989 | Mary 1989 | May 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 | Mary 1989 | | |
| Total 16 years and over | 6.800 | 6.548 | 6.395 | 5.6 | 5.4 | 5.1 | 5.0 | 5.3 | 5.2 | | |
| 16 to 24 years | 2.513 | 2.344 | 2,303 | 11.2 | 11.9 | 10.5 | 9.8 | 10.5 | 10.4 | | |
| 16 to 19 years | 1.243 | 1,146 | 1,210 | 15.6 | 16.4 | 14.8 | 13.7 | 14.4 | 15.2 | | |
| 16 to 17 years | 536 | 483 | 500 | 16.7 | 18.3 | 18.2 | 15.3 | 14.9 | 18.2 | | |
| 18 to 19 years | 700 | 667 | 701 | 14.8 | 15.4 | 12.7 | 12.5 | 13.6 | 14.5 | | |
| 20 to 24 years | 1,270 | 1,198 | 1.093 | 8.8 | 9.3 | 6.1 | 7.7 | 84 | 77 | | |
| 25 years and over | 4.253 | 4,191 | 4.074 | 4.3 | 4.1 | 4.0 | 3.9 | 41 | 40 | | |
| 25 to 54 years | 3,765 | 3 761 | 3.626 | 4.5 | 42 | 42 | 4.1 | 44 | 12 | | |
| 55 years and over | 498 | 451 | 453 | 3.3 | 3.1 | 3.1 | 2.6 | 2.9 | 2.9 | | |
| Men, 16 years and over | 3,737 | 3,593 | 3,401 | 5.8 | 5.5 | 5.2 | 4.8 | 5.3 | 5.0 | | |
| 18 to 24 years | 1,352 | 1,238 | 1,270 | 11.5 | 12.8 | 11.1 | 9.7 | 10.7 | 11.0 | | |
| 16 to 19 years | 672 | 841 | 696 | 16.3 | 18.6 | 16.7 | 14.2 | 15.5 | 17.0 | | |
| 16 to 17 years | 291 | 274 | 301 | 17.4 | 20.6 | 19.6 | 15.8 | 17.0 | 18.0 | | |
| 18 to 19 years | 377 | 368 | 390 | 15.3 | 17.9 | 15.1 | 13.2 | 14.6 | 15.7 | | |
| 20 to 24 years | 680 | 597 | 574 | 8.9 | 9.6 | 8.1 | 7.2 | 8.0 | 7.7 | | |
| 25 years and over | 2,348 | 2,344 | 2,099 | 4.3 | 4.0 | 4.0 | 3.8 | 4.2 | 3.7 | | |
| 25 to 54 veers | 2.051 | 2,076 | 1.845 | 4.4 | 4.2 | 4.1 | 4.0 | 4.4 | 3.9 | | |
| 55 years and over | 304 | 283 | 258 | 3.5 | 3.0 | 3.4 | 2.8 | 3.2 | 2.9 | | |
| Women, 16 years and over | 3,063 | 2,953 | 2,994 | 5.6 | 5.4 | 5.0 | 5.1 | 5.3 | 5.3 | | |
| 16 to 24 years | 1,161 | 1,106 | 1,034 | 10.9 | 10.9 | 9.7 | 10.0 | 10.4 | 9.8 | | |
| 16 to 19 years | 571 | 505 | 514 | 15.0 | 14.0 | 12.8 | 13.1 | 13.2 | 13.4 | | |
| 16 to 17 years | 245 | 189 | 199 | 16.0 | 15.9 | 16.8 | 14.8 | 12.7 | 13.4 | | |
| 18 to 19 years | 323 | 299 | 311 | 14.2 | 12.7 | 10.0 | 11.7 | 12.8 | 13.3 | | |
| 20 to 24 years | 590 | 601 | 520 | 8.6 | 9.1 | 8.0 | 8.3 | 8.9 | 7.7 | | |
| 25 years and over | 1,905 | 1.847 | 1.975 | 4.4 | 4.1 | 3.9 | 4.0 | 4.1 | 4.4 | | |
| 25 to 54 years | 1.714 | 1.685 | 1.782 | 4.6 | 1 4.3 | 4.2 | 4.3 | 4.4 | 4.6 | | |
| 55 years and over | 194 | 169 | 195 | 3.1 | 3.1 | 2.5 | 2.3 | 2.6 | 3.0 | | |
| | | 1 | | | 1 | 1 | 1 | 1 |) | | |

' Unemployment as a percent of the civilian labor force.

Table A-10. Employment status of black and other works -

(Numbers in thousands)

| | Not se | econally a | djusted | | 1 | iensonally | adjusted | | |
|--|--|---|---|--|--|--|---|---|---|
| Employment status | May 1968 | Apr. 1969 | Mary 1969 | May 1968 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 | Mary • 1989 |
| Cvilian noninstitutional population Cvilian labor force Particlosition rate Employment-population rate Unemployed Unemployment rate Not in labor force | 26,340 16,650 63.2 14,807 56.2 1,843 11.1 9,690 | 26,928 17,034 63.3 15,406 57.2 1,628 9,8 9,892 | 26,961 17,298 64.1 15,627 57.9 1,671 9,7 9,683 | 26,340 16,711 63,4 14,852 56,5 1,829 10,9 9,629 | 28,779 17,283 64.5 15,449 57.7 1,833 10.8 9,496 | 26,830 17,386 64.8 15,540 57.9 1,846 10.6 9,444 | 26,877 17,347 64.5 15,651 58.2 1,696 9.8 9,530 | 26,926 17,319 64.3 15,656 58.1 1,654 9,6 9,607 | 25,961 17,364 64,4 15,707 58,2 1,657 9,5 9,517 |

The population figures are not adjusted for seasonal variation; store, identical numbers appear in the unadjusted and seasonally ited columns.

³ Civilian employment as a percent of the civilian noninstitutional population.

Table A-11. Occupational statue of the employed and unemployed, not associatly adjusted

(Numbers in thousands)

| · · | Civilian | employed | Unem | ployed | Unemplo | Unemployment rate | | |
|---|----------|--------------|-------------|-------------|-------------|-------------------|--|--|
| Occupation: | 1988 | Mary 1989 | May 1988 | May 1989 | May 1988 | Mary 1989 | | |
| Total, 16 years and over' | 114,222 | 117,039 | 6,553 | 6,156 | 5.4 | · 5.0 | | |
| Managerial and professional speciality | 29 113 | 30 627 | 400 | 589 | | | | |
| Executive, administrative, and managerial | 14 289 | 15.041 | 200 | 222 | | 1.5 | | |
| Professional specialty | 14,824 | 15,586 | 200 | 265 | 1.3 | 1.7 | | |
| Technical, sales, and administrative support | 34,740 | 35,786 | 1 477 | 1.470 | | | | |
| Technicians and related support | 3.363 | 3.613 | 105 | 88 | 30 | 2.0 | | |
| Seles occupations | 13 463 | 14.005 | 637 | 504 | 3.0 | 20 | | |
| Administrative support, including ciercal | 17,914 | 18,168 | 734 | 779 | 3.9 | 4.1 | | |
| Service occupations | 15 250 | 15.434 | 1 1 14 | 1 090 | | 1 | | |
| Private household | 905 | 878 | 51 | 1,008 | 0.0 | 0.0 | | |
| Protective service | 1 684 | 1 916 | | | | 3./ | | |
| Service, except private household and protective | 12,461 | 12,640 | 970 | 930 | 7.2 | 6.9 | | |
| Precision production, craft, and repair | 13,859 | 13.551 | 749 | 721 | | | | |
| Mechanics and repairers | 4.553 | 4,650 | 163 | 154 | 3.4 | | | |
| Construction trades | 5,180 | 4,949 | 364 | 385 | 6.6 | 72 | | |
| Other precision production, craft, and repair | 4,126 | 3,953 | 223 | 182 | 5.1 | 4.4 | | |
| Operators, fabricators, and laborers | | 16.037 | 1.596 | 1 342 | | | | |
| Machine operators, assessiblers, and inspectors | 7,988 | 8,312 | 842 | 641 | 74 | 7.2 | | |
| Transportation and material moving occupations | 4,823 | 4,925 | 283 | 208 | 5.5 | 1 40 | | |
| Handlers, equipment cleaners, helpers, and laborers | 4,729 | 4,800 | 671 | 493 | 124 | 0.3 | | |
| Construction laborers | 717 | 713 | 166 | 126 | 20.6 | 15.0 | | |
| Other handlers, equipment cleaners, helpers, and taborers | 4,011 | 4,087 | 485 | 366 | 10.8 | 8.3 | | |
| Farming, forestry, and fishing | 3,720 | 3,604 | 242 | 205 | 6.1 | 5.4 | | |
| ¹ Persons with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total. | | 1 | 1 | | | · · · · · | | |

Table A-12. Employment status of male Vietnam-era veterane and nonveterane by age, not seasonally adjusted

(Numbers in thousands)

| • | Civilian | | | Civilian labor force | | | | | | | | | |
|--|--|--|--|--|--|--|-------------------------------------|------------------------------------|--|--|--|--|--|
| Veteran status and age | noninsi popu | itutional fation | | | | | | Unemp | ployed | | | | |
| | | | To | stæl | Emp | loyed | Nurr | iber | Percent of | | | | |
| | May 1988 | May 1989 | 1988 | May 1989 | May 1988 | May 1989 | May 1988 | May 1989 | May 1988 | May 1989 | | | |
| VIETNAM-ERA VETERANS | | | | | | | | | | | | | |
| Total, 30 years and over 30 to 44 years 30 to 54 years 35 to 39 years 40 to 44 years 40 to 44 years 40 to 44 years | 7,900 5,975 718 2,214 3,043 1,925 | 7,927 5,570 505 1,789 3,276 2,357 | 7,290 5,696 677 2,095 2,924 1,594 | 7,231 5,278 460 1,685 3,133 1,953 | 6,984 5,440 818 2,005 2,817 1,544 | 7,012 5,106 430 1,621 3,055 1,906 | 306 256 59 90 107 50 | 219 172 30 64 78 47 | 4.2 4.5 8.7 4.3 3.7 3.1 | 3.0 3.3 6.5 3.8 2.5 2.4 | | | |
| NONVETERANS | | | | ĺ | | | i | | | | | | |
| Total. 30 to 44 years 30 to 34 years 35 to 39 years 40 to 44 years | 20,264 9,048 6,751 4,485 | 21,342 9,348 7,358 4,636 | 19,115 8,539 6,409 4,167 | 20,218 8,922 6,973 4,321 | 18,334 8,167 6,167 4,000 | 19,474 8,567 6,721 4,188 | 781 372 242 167 | 742 355 252 135 | 4.1 4.4 3.8 4.0 | 3.7 4.0 3.6 3.1 | | | |

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonvetorans are men who have never served in the Armed Forces; published data are limited to

those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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HOUSEHOLD DATA

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Table A-13. Employment status of the civilian population for eleven large States

(Numbers in thousands)

| | Not sessenally adjusted' | | | Sessonally adjusted* | | | | | | | |
|--------------------------------------|--------------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|------------------|--|--|
| State and employment status | May. 1988 | Apr. 1980 | Mary. 1980 | May. 1968 | Jan. 1969 | Feb. 1969 | Mar. 1969 | Apr. 1969 | May. 1989 | | |
| California | | | | | | | | | | | |
| Civilian noninettutional population | 20,803 13,981 | 21,059 14,051 | 21,085 14,259 | 20,803 14,057 | 20,994 14,220 | 21,016 14,117 | 21,037 14,120 | 21,059 14,098 | 21,085 14,331 | | |
| Employed | 13,171 | 13,326 | 13,524 | 13,193 | 13,505 | 13,405 | 13,480 | 13,339 | 13,546 | | |
| Unemployed | 5.8 | 5.1 | /36 5.2 | 6.1 | 5.0 | 5.0 | 4.5 | 5.4 | 765 | | |
| Fiorida | | | | | | | | | | | |
| Civilian noninstitutional population | 9,885 | 9,902 | 9,924 | 9,665 | 9,639 | 9,880 | 9,661 | 9,902 | 9,924 | | |
| Civilian labor force | 6,115 | 6,197 | 6,247 | 6.095 | 6,155 | 6,086 | 6,179 | 6,245 | 6,227 | | |
| Employed | 5,828 | 5,880 | 5,861 | 6,793 | 5,793 | 6,762 | 5,880 | 5,922 | 5,827 | | |
| Unemployed | 289 | 316 | 387 | 303 | 362 | 5324 | 299 | 323 | 400 | | |
| | | | | | • | | | | | | |
| | | | | | | | | | | | |
| Civitian noninstitutional population | 6,726 | 5,569 5,580 | 5,696 | 6,726 | 5,837 | 5,976 | 5,963 | 5,860 | 5,699 | | |
| Employed | 6.307 | 5.544 | 5.530 | 5.336 | 5,491 | 5,663 | 5,648 | 5,640 | 5.563 | | |
| . Unemployed | 392 | 337 | 348 | 380 | 346 | 313 | 335 | 320 | 336 | | |
| Unemployment rate | 6.9 | 5.7 | 5.9 | 6.6 | 5.9 | 5.2 | 5.6 | 5.4 | 6.7 | | |
| Massachusette | | | | | | | | | | | |
| Ovilian noninstitutional population | 4,598 | 4,598 | 4,698 | 4,598 | 4,598 | 4,598 | 4,598 | 4,596 | 4,596 | | |
| Civilian labor force | 3,103 | 3,178 | 3,170 | 3,127 | 3,166 | 3,205 | 3,160 | 3,197 | 3,196 | | |
| Linempioyed | 3,019 | 3,061 | 3,062 | 3,035 | 3,063 | 3,094 | 3,051 | 3,077 | 3,060 | | |
| Unemployment rate | 27 | 3.7 | 3.4 | 2.9 | 3.3 | 3.5 | 3.4 | 3.8 | 3.6 | | |
| Michigan | | | | | | | | | | | |
| Chillian noninstitutional population | 7.014 | 7.087 | 7.095 | 7.014 | 7.089 | 7.075 | 7.061 | 7.087 | 7.095 | | |
| Civilian labor force | 4,525 | 4.537 | 4,578 | 4,525 | 4,667 | 4,668 | 4,620 | 4,573 | 4,581 | | |
| Employed | 4,229 | 4,259 | 4,285 | 4,215 | 4,364 | 4,382 | 4,316 | 4,296 | 4,273 | | |
| Unemployed | 296 | 278 | 293 | 310 | 323 | 206 | 304 | 277 | 306 | | |
| Manu Janaan | | | | | | | | . . | | | |
| | | | | | | | | | | | |
| Chilen labor forme | 1.004 | 3.960 | 3 972 | 3 645 | 4,048 | 4.043 | 4,000 | 3,977 | 3 952 | | |
| Employed | 3,617 | 3,818 | 3.652 | 3,796 | 3,666 | 3,664 | 3,890 | 3,816 | 3.834 | | |
| Unemployed | 149 | 142 | 120 | 147 | 158 | 159 | 120 | 161 | 118 | | |
| Unemployment rate | 3.6 | 3.6 | 3.0 | 3.7 | 3.9 | 3.9 | 3.0 | 4.0 | 3.0 | | |
| New York | | | | | | | | | | | |
| Civilian noninstitutional population | 13,794 | 13,807 | 13,809 | 13,794 | 13,806 | 13,807 | 13,806 | 13,807 | 13,809 | | |
| Cryster tecor torce | 7 9 4 2 | . 6,04/ | 6,067 | 8,462 | 8,621 | 8,701 | 8,540 | 8,041 | 8,770 | | |
| Unemployed | 341 | 480 | 448 | 353 | 423 | 443 | 367 | 513 | 463 | | |
| Unemployment rate | 4.1 | . 5.6 | 5.2 | 42 | 4.9 | 5.1 | 4,3 | 5.8 | · 5.3 | | |
| North Carolina | | | • | | | | | | | | |
| Civilian noninstitutional population | 4,699 | 4,991 | 5,000 | 4,899 | 4,987 | 4,975 | 4,983 | 4,991 | 5,000 | | |
| Civitian labor force | 3,308 | 3,424 | 3,441 | 3,331 | 3,435 | 3,390 | 3,415 | 3,478 | 3,467 | | |
| Linempioyed | 110 | 134 | 118 | 118 | 133 | 3,203 | 3,311 | 148 | 127 | | |
| Unemployment rate | 3.3 | 4.0 | 3.4 | 3.5 | 3.9 | 3.2 | 3.0 | 4.3 | 3.7 | | |
| Ohio | | | | ł | | | | | | | |
| Civilian noninstitutional population | 8,235 | 8,303 | 8,310 | 8,235 | 8,286 | 8,292 | 8,298 | 8,303 | 8,310 | | |
| Civilian labor force | 5,259 | 5,357 | 5,419 | 5,284 | 5,426 | 5,432 | 5,428 | 5,381 | 5,434 | | |
| Employed | 4,966 | 5,065 | 5,143 | 4,960 | 5,094 | 5,152 | 5,144 | 5,093 | 5,138 | | |
| Unemployed | 5.8 | 5.1 | 5.1 | 8,1 | 8.1 | 250 | 5.2 | ∣ 208 5.4 | 200 | | |
| | | L | 1 | L | | L | | | | | |

See footnotes at end of table.

HOUSEHOLD DATA

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HOUSEHOLD DATA

Table A-13. Employment status of the civilian population for eleven large States-Continued

(Numbers in thousands)

| | Not se | sonally adj | usted ¹ | • | | Seasonally | ionally adjusted ⁴ | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| State and employment status | Mary. 1988 | Apr. 1989 | Mary. 1989 | Mary. 1988 | Jan. 1989 | Feb. 1969 | Mar. 1969 | Apr. 1989 | Mary. 1989 | | | |
| Pennsylvania | | | | | | | | | | | | |
| Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployment rate | 9,361 5,661 5,380 281 5.0 | 9,418 5,840 5,606 234 4.0 | 9,424 5,854 5,598 258 4,4 | 9,381 5,724 5,430 294 5.1 | 9,404 5,947 5,689 258 4,3 | 9,409 5,932 5,679 253 4,3 | 9,413 6,012 5,778 234 3.9 | 9,418 5,940 5,877 283 4,4 | 9,424 5,920 5,649 271 4.6 | | | |
| Texas | | | | | | | | | | | | |
| Civilian noninstitutionsi population Civilian labor force | 12,012 8,300 7,598 602 7.3 | 11,968 8,242 7,666 576 7.0 | 11,987 8,233 7,744 489 5.9 | 12,012 8,323 7,721 602 7,2 | 11,997 8,303 7,713 590 7.1 | 11,994 8,254 7,703 551 6.7 | 11,991 6,283 7,788 495 6.0 | 11,988 8,350 7,729 621 7,4 | 11,987 8,250 7,762 488 5,9 | | | |

¹ These are the official Bureau of Labor Statistics' estimates used in the administration of Federal lund ellocation programs.
² The population figures are not adjusted for seasonal variation; therefore,

identical numbers appear in the unadjusted and the seasonally adjusted columns.

HOUSEHOLD DATA

ESTABLISHMENT DATA .

Table 8-1. Employees on nonegricultural payrolls by industry (In thousands)

| | Not seasonally adjusted Seasonally adj | | | | | | / adjust | justed | | |
|---|---|--|--|--|--|---|--|---|--|--|
| Industry | May | Mar. | Apr. | May | May | Jan. | Feb. | Mar. | Apr., | Nay |
| | 1988 | 1989 | 1989 <u>8</u> / | 1989 <u>e</u> / | 1988 | 1989 | 1989 | 1989 | 1989 <u>8</u> 4 | 1969g/ |
| . Total | 105.533 | 107,017 | 107,936 | 108,629 | 105,091 | 107.442 | 107,711 | 107.888 | 108.094 | 108.195 |
| Total private | 87.861 | 89.052 | 89,971 | 90,633 | 87,756 | 89,897 | 90,124 | 90,291 | 90.472 | 90.541 |
| Geeds_producing industries | 25.171 | 25,095 | 25,404 | 25,622 | 25.179 | 25,626 | 25,629 | 25,646 | 25,664 | 25,631 |
| Rining | 722 | 702 | 711 | 716 | 725 | 711 | 711 | 714 | 720 | 719 |
| Oil and gas extraction | 406.8 | 390.5 | 394.1 | 393.9 | 412 | 393 | 394 | 397 | 401 | 399 |
| Construction | 5,141 | 4,837 | 5,117 | 5,303 | 5,100 | 5,267 | 5,270 | 5,252 | 5,275 | 5,261 |
| General building contractors | 1,362.7 | 1,287.3 | 1,330.4 | 1,368.9 | 1,367 | 1,404 | 1,398 | 1,380 | 1,376 | 1,373 |
| Manufacturing Production workers | 19,308 | 19,556 13,348 | 19,576 13,363 | 19,603 13,590 | 19,354 13,221 | 19,648 13,423 | 19,648 13,426 | 19,680 13,442 | 19.669 | 19.651 13.428 |
| Dureble goods | 11,395 | 11,550 | 11,570 | 11,580 | 11,599 | 11,605 | 11,594 | 11.604 | 11,599 | 11,584 |
| Production workers | 7,612 | 7,710 | 7,728 | 7,741 | 7,610 | 7,758 | 7,749 | 7,749 | 7,745 | |
| Lumber and wood products. Furniture and fatures products. Stone. clay, and class products. Blast furnaces and basic steel products. Fabricated estal products. Fabricated estal products. Fabricated estal products. Fabricated estal products. Fabricated estal products. Fabricated established established Mater which and a estimater. Thatruments and related products. | 761.2 526.7 604.3 769.9 277.5 1,423.9 12,070.3 12,070.3 12,056.2 12,056.8 859.3 741.7 584.0 | 735.0 534.8 592.2 789.6 276.4 1,451.3 12,147.2 2,051.7 2,051.7 2,054.6 868.6 774.0 387.9 | 757.4 534.6 603.0 788.3 275.0 11.449.4 12.147.1 2.048.4 2.076.3 877.5 775.9 389.8 | 770.8 530.1 609.6 784.3 274.4 1.451.4 2.148.8 2.041.9 2.076.0 881.5 776.6 390.7 | 742 529 769 278 1.426 2.067 2.054 2.054 384 384 | 784 532 607 786 276 1,458 2,134 2,045 2,045 2,079 882 770 390 | 778 534 608 786 276 1,458 2,138 2,067 2,067 7,871 772 391 | 777 535 607 788 276 1,457 2,143 2,143 2,040 2,071 869 776 390 | 772 536 603 748 275 1,454 2,143 2,059 2,074 876 876 777 391 | 772 533 404 784 275 1,453 2,145 2,052 2,074 876 778 391 |
| Nondurable goods | 7.913 | 8,006 | \$.806 | 8.023 | 7,955 | 8,043 | 8,034 | 8,076 | 8,070 | 8,065 |
| Production workers | 5.574 | 5,638 | 5.635 | 5,649 | 5,611 | 5,665 | 5,677 | 5,693 | 5,688 | 5,688 |
| Faad and kindred products | 1,592.8 51.8 732.7 1,099.2 690.1 1,553.5 1,058.5 162.4 827.5 144.7 | 1,598.6 54.5 727.2 1,102.3 693.1 1,599.8 1,084.4 158.1 845.5 142.4 | 1,600.4 51.2 727.0 1,099.5 692.3 1,601.7 1,086.4 161.2 844.6 141.6 | 1,614,8 49.4 729.0 1,098.0 694.3 1,608.9 163.7 842.1 142.2 | 1,632 55 732 1,095 692 1,555 1,061 161 827 145 | 1,650 56 728 1,092 696 1,595 1,084 160 839 143 | 1,650 56 728 1,096 1,595 1,085 161 843 | 1,655 56 729 1,101 697 1,600 1,088 161 845 | 1,657 54 728 1,097 696 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 1,600 | 1,655 53 728 1,094 676 1,602 1,091 163 841 142 |
| Service-producing industries | 80,362 | 81,922 | 82,532 | 83,007 | 79,912 | \$1,816 | 82,082 | \$2,242 | \$2,430 | 82,564 |
| Transportation and public utilities | 5,522 | 5,607 | 5,649 | 5,693 | 5,522 | 5,654 | 3,667 | 3.666 | 5,682 | 5,694 |
| Transportation | 3,312 | 3,404 | 3,443 | 3,485 | 3,308 | 5,439 | 3,453 | 3.452 | 3,447 | 3,482 |
| Communication and public utilities | 2,210 | 2,203 | 2,206 | 2,208 | 2,214 | 2,215 | 2,214 | 2.214 | 2,215 | 2,212 |
| Mholesale trade | 5,998 | 6.154 | 6.187 | 6,204 | 6,001 | 6,146 | 6,171 | 6,197 | 6,207 | 6,209 |
| Durable goods | 3,545 | 3,658 | 3,663 | 3,679 | 3,544 | 3,638 | 3,657 | 3,676 | 3,675 | 3,679 |
| Nondurable goods | 2,453 | 2,496 | 2,519 | 2,525 | 2,457 | 2,508 | 2,514 | 2,521 | 2,532 | 2,530 |
| Retail trads. | 19.040 | 19,059 | 19,277 | 19,508 | 19,036 | 19,497 | 19,460 | 19,488 | 19,491 | 19.508 |
| General merchandime stores. | 2.384.3 | 2,398.0 | 2,407.5 | 2,414.3 | 2,457 | 2,472 | 2,481 | 2,490 | 2,495 | 2,489 |
| Food stores. | 3.052.9 | 3,184.3 | 3,195.0 | 5,217.5 | 3.069 | 3,200 | 3,212 | 3,223 | 3,231 | 3,234 |
| Automotive dealers and service stations. | 2.078.3 | 2,129.4 | 2,147.4 | 2,157.2 | 2.075 | 2,143 | 2,150 | 2,155 | 2,158 | 2,153 |
| Esting and drinking places. | 6.385.6 | 6,164.2 | 6,316.0 | 6,460.6 | 6,271 | 6,323 | 6,332 | 6,322 | 6,355 | 6,346 |
| Finence, insurancé, and real estate | 4.452 | 6,723 | 6.754 | 6.788 | 6.654 | 6,746 | 6,763 | 6,774 | 6.781 | 6.788 |
| Finence. | 3.277 | 3,306 | 3.308 | 3.313 | 3.284 | 3,308 | 3,311 | 3,316 | 5.318 | 3,320 |
| Insurance | 2.073 | 2,115 | 2.116 | 2.122 | 2.074 | 2,109 | 2,116 | 2,117 | 2,118 | 2,122 |
| Real estate. | 1.302 | 1,302 | 1.330 | 1.353 | 1.296 | 1,329 | 1,336 | 1,341 | 1,345 | 1,346 |
| Services | 25.478 | 26,414 | 26,700 | 26,818 | 25,364 | 26,318 | 26,434 | 26,520 | 26,647 | 26,711 |
| Business services | 5.515.4 | 5,678.2 | 5,718.0 | 5,750,9 | | 5,707 | 5,729 | 5,736 | 5,758 | 5,768 |
| Health services | 7.067.7 | 7,480.1 | 7,513.0 | 7,548.6 | | 7,396 | 7,442 | 7,488 | 7,528 | 7,564 |
| Government. | 17.672 | 17,965 | 17.963 | 17,996 | 17.335 | 17,545 | 17,587 | 17.597 | 17.622 | 17,654 |
| Federal | 2.969 | 2,976 | 2.973 | 2,970 | 2.962 | 2,978 | 2,982 | 2.982 | 2.975 | 2,964 |
| State | 6.118 | 4,213 | 4.222 | 4,200 | 4.059 | 4,084 | 4,095 | 4.102 | 4.111 | 4,138 |
| Local | 10.585 | 10,776 | 10.768 | 10,826 | 10.314 | 10,483 | 10,510 | 10,513 | 10,536 | 10,552 |

p - prefiminary.

NOTE: Data have been revised to reflect March 1988 benchmarks and updated seasonal edjustment factors.

ESTABLISHMENT DATA -

ESTABLISHMENT DATA

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ESTABLISHMENT DATA

Table 8-2. Average weekly hours of production or nonsupervisory workers1/ on private nonspricultural payrolls by industry

| | Nat | seasona | lly adju | sted | Seasonally adjusted | | | | | | | |
|--|---|--|--|--|---|---|--|--|--|--|--|--|
| Industry | May 1988 | Mar. 1989 | Apr. 1989g/ | May 1989g/ | May 1988 | Jan. 1989 | Feb. 1989 | Her. 1989 | Apr. 1989 <u>e</u> / | May 1989 <u>p</u> / | | |
| Total private | 34.6 | 34.4 | 34.8 | 34.5 | 34.7 | 34.8 | 54.6 | 34.7 | 34.9 | 34.6 | | |
| Mining | 42.2 | 42.0 | 42.9 | 41.9 | (2) | (2) | (2) | (2) | (2) | (2) | | |
| Censtruction | 38.3 | 37.4 | 37.9 | 37.7 | (2) | (2) | (2) | (2) | (2) | (2) | | |
| Manufacturing Övertime hours | 41.0 3.7 | 41.0 3.8 | 41.8 3.8 | 40.9 3.7 | 41.1 3.9 | 41.1 3.9 | 41.1 3.9 | 41.0 4.0 | 41.2 4.0 | 41.8 | | |
| Durable goods Overtime hours | 41.7 4.0 | 41.7 4.0 | 41.7 | 41.5 3.8 | 41.8 4.2 | 41.8 4.1 | 41.8 4.1 | 41.7 4.1 | 41.8 | 41.5 | | |
| Lumber and used products. Stone, clay, and glass products. Furnitive and fixtures and intervention of the store of the s | 48.5 39.1 43.6 43.6 41.8 42.6 41.8 42.7 44.2 39.1 39.9 3.6 40.0 39.4 40.0 39.4 40.0 39.4 40.0 39.4 40.0 39.4 40.0 39.4 40.1 37.5 37.5 | 39.8 39.6 41.9 43.5 46.7 42.5 40.5 40.5 43.5 41.2 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 39.9 3.6 3.5 37.9 43.2 43.2 43.2 43.2 43.2 43.2 43.2 43.2 | 40.3 39.3 42.7 43.3 43.7 41.6 40.7 43.7 43.0 43.7 43.0 43.7 43.0 43.7 43.0 43.7 43.0 43.7 43.0 43.7 43.0 43.7 43.7 43.0 43.7 43.7 43.7 43.7 43.7 43.7 43.7 43.7 | 40.1 39.1 42.6 43.3 40.5 44.1 41.4 40.5 40.5 42.3 42.3 42.3 42.3 42.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40 | 40.1 39.6 42.3 43.7 43.9 42.0 42.6 41.0 42.8 43.7 40.0 3.4 5.6 40.1 (2) 40.1 (2) 40.1 (2) 43.3 37.8 42.1 (2) 43.3 37.8 42.1 (2) 43.3 37.8 | 40.5 39.4 42.5 43.6 43.6 43.6 43.6 40.9 42.8 43.6 40.9 42.8 43.6 40.9 42.8 43.6 40.1 3.6 40.1 3.6 40.1 3.7 0 37.0 37.0 37.0 38.0 42.5 40.9 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 3.6 40.1 40.1 3.6 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 | 39.6 39.7 42.2 43.4 41.9 42.6 40.9 43.1 43.1 43.1 43.1 43.1 43.1 43.1 43.1 | 40.0 39.8 42.2 43.5 44.1 41.8 42.5 40.4 43.7 41.1 3.8 40.4 43.7 41.1 3.8 40.4 43.7 41.1 3.8 40.4 43.7 41.1 3.8 40.4 41.1 3.8 40.4 (2) 41.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 | 40.3 39.9 42.6 43.4 43.4 41.8 41.8 41.8 41.8 41.0 41.8 43.3 39.8 40.4 3.8 40.7 (2) 41.6 43.3 40.7 (2) 47.6 42.6 (2) 42.6 (2) 42.6 (2) 43.4 40.4 38.3 40.7 (2) 42.6 40.4 45.4 40.4 38.3 40.7 (2) 42.6 40.4 45.4 45.4 45.4 45.4 45.4 45.4 45.4 | 39.7 39.3 42.1 43.4 41.8 42.1 42.2 40.8 42.1 42.2 39.7 40.2 5.7 40.6 (2) 40.6 (2) 41.6 42.2 42.2 37.7 40.6 (2) 41.6 42.3 (2) 41.6 42.3 (2) 42.5 (2) 42.1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) | | |
| Transportation and public utilities | 39.1 | 39.2 | 39.7 | 39.5 | 39.3 | 39.6 | 39.4 | 39.4 | 40.0 | 39.7 | | |
| Wholesale trade | 38.0 | 37.9 | 38.2 | 38.0 | 38.0 | 38.1 | 38.1 | 38.1 | 38.3 | 58.0 | | |
| Retail trade | 28.9 | 28.5 | 28.9 | 28.8 | 29.0 | 29.1 | 28.9 | 28.9 | 29.1 | 28.9 | | |
| Finance, insurance, and real estate | 35.8 | 35.8 | 36.3 | 35.6 | (2) | (Z) | (2) | (2) | (2) | (2) | | |
| Services | 32.4 | 32.4 | 32.8 | 32.4 | 32.5 | 32.7 | 32.5 | 32.6 | 32.8 | 32.5 | | |

eluction workers in mining and manufacturing; construction rr; and nonexpervisory workers in transportation and public d retail trade; finance, insurance, and real estats; and ps account for aspectimately low-filthe of the total nonegricultural payrolit. yо

published associatly adjusted alnos the associate to the trans-cycle and/or imagular components and eperated with sufficient practision. 2/ T conent is en

consequency cannot be explained and remaining provide the second second

ESTABLISHMENT DATA

ESTABLISHMENT DATA

Table B-3. Average hourly and weekly earnings of production or nonsupervisory workers]/ on private nonsepricultural payrolls by industry

| | Ave | age hou | rly marn | ings | Average weekly earning | | | | |
|--------------------------------------|--|---|--|------------------------|---|---|---|--|--|
| Industry | | Mar. 1989 - | Apr. 1989 <u>p</u> / | May 1989 <u>e</u> / | Hay 1988 | Mar. 1989 | Apr. 1989 <u>p</u> / | May 1989 <u>e</u> / | |
| Total private Semsonally adjusted | \$9.26 9.26 | 09.56 9.54 | \$9.61 9.60 | \$9.60 9.61 | \$320.40 321.32 | \$328.86 331.04 | \$334.43 335.04 | *331.20 332.51 | |
| Mining | 12.60 | 13.15 | 13.17 | 13.10 | 531.72 | 552.30 | 564.99 | 548.89 | |
| Construction | 12.91 | 13.26 | 13.30 | 13.33 | 494.45 | 495.92 | 504.07 | 502.54 | |
| Manufacturing | 10.14 | 10.41 | 10.41 | 10.41 | 415.74 | 426.81 | 426.81 | 425.77 | |
| Durable goods | 10.68 8.54 7.89 10.44 12.12 13.95 10.94 14.03 9.90 7.97 9.14 9.14 15.58 7.31 6.07 11.66 10.43 12.58 14.67 11.66 10.43 12.58 14.86 12.58 | $ \begin{array}{c} 10.93 \\ 8.63 \\ 110.62 \\ 12.27 \\ 14.13 \\ 10.50 \\ 13.65 \\ 14.25 \\ 14.25 \\ 14.25 \\ 14.25 \\ 14.25 \\ 10.17 \\ 8.23 \\ 15.34 \\ 10.17 \\ 9.33 \\ 15.34 \\ 10.79 \\ 6.34 \\ 10.79 \\ 12.91 \\ 15.46 \\ 10.79 \\ 12.91 \\ 15.46 \\ 554 \end{array} $ | $ \begin{array}{c} 10.93\\ 8.76\\ 8.11\\ 10.72\\ 12.27\\ 14.06\\ 10.49\\ 10.22\\ 8.23\\ 9.50\\ 15.80\\ 15.80\\ 7.61\\ 6.33\\ 15.80\\ 7.61\\ 6.33\\ 15.80\\ 7.61\\ 6.33\\ 12.90\\ 15.49\\ 9.54\\ 9.55\\ \end{array} $ | | 445.36 345.87 308.50 446.83 528.43 612.41 428.45 463.86 401.88 570.18 570.18 520.13 407.88 311.63 314.26 357.02 374.26 355.50 307.27 522.53 391.13 529.62 -55.53 391.13 529.62 -55.53 392.53 529.53 -55.53 392.53 529.53 529.53 529.53 529.53 53.54 529.53 53.54 53.54 53.55 55.55 55.55 55.55 55.55 55.55 55.55 55.55 55.55 55.5 | 455.78 345.46 321.95 434.98 533.75 621.72 436.60 479.25 436.60 479.25 591.65 591.65 591.65 591.65 591.65 591.65 314.18 419.10 324.26 85.42 35.22 35.22 408.99 546.09 667.87 357.22 408.99 546.09 667.87 357.24 408.99 546.09 546.09 667.87 | 455.78 353.03 318.72 457.74 531.27 478.55 435.97 478.55 435.97 478.55 435.97 478.55 91 326.91 325.91 326.91 372.00 614.62 313.53 234.84 538.26 405.59 538.25 64.66 538.68 405.59 548.25 548.25 | 453.60 352.83 318.67 455.82 531.27 476.72 476.72 417.55 572.77 417.55 326.67 337.44 619.22 417.55 326.67 337.44 417.55 327.44 327.44 327.54 327.44 347.44 32 | |
| Transportation and public utilities | 12.28 | 12.46 | 12.51 | 12.51 | 480.15 | 488.43 | 496.65 | 494.1 | |
| Hholemale trade | 9.90 | 10.21 | 10.35 | 10.24 | 376.20 | 386.96 | 395.37 | 389.12 | |
| Retail trade | 6.28 | 6.48 | 6.51 | 6.51 | 181.49 | 184.68 | 188.14 | 187.4 | |
| Finance, insurance, and real estate | 9.08 | 9.43 | 9.59 | 9.53 | 325.06 | 337.59 | 348.12 | 339.27 | |
| Services | 8.85 | 9.29 | 9.33 | 9.31 | 286.74 | 301.00 | 306.02 | 301.64 | |

1/ See footnote 1, table B-2. p = preliminary.

NOTE: Data have been revised to reflect March 1988 benchmarks a pdated Beasonal adjustment factors. updated in

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Table B-4. Average hourly earnings of production or nonsupervisory workers]/ on private nonspricultural payrolls by industry, seasonally adjusted

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| Industry | Мжу 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 <u>p</u> / | May 1989g. | Percent chenge from: Apr. 1989- May 1989 |
|---|---|---|---|--|--|--|---|
| Total private2/: Current dollars. Constant (1977) dollars1/ Construction Manufacturing. Excluding overtime2/ Transportation and public utilities Wholessis trads. Finance insurance, and real estate Sarvices. | \$9.26 4.85 12.94 10.14 9.69 12.34 9.90 6.28 9.06 8.88 | \$9.49 4.81 13.18 10.33 9.87 12.45 10.19 6.44 9.40 .9.15 | \$9.52 4.81 13.22 10.37 9.89 12.48 10.18 6.45 9.35 9.19 | \$9.54 4.80 13.26 10.40 9.92 12.50 10.21 6.47 9.36 9.24 | \$9.60 4.80 \$13.33 10.40 9.92 12.52 10.35 6.50 9.31 | \$9.61 N.A. \$13.37 10.41 9.96 12.56 10.24 6.51 9.50 9.34 | 0.1 (4) .3 .4 .3 -1.1 .2 4 .3 |

1/. See footnote 1, table B-2.
 2/ Includes mining, not shown separately, because its associal component is too analis to be separated out with sufficient precision.
 3/ The Consume Prior Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to define this series.
 4/ Real earnings were unchanged from March to April 1989, the latest month evailable.

g/ Derived by sesuring that overtime hours are paid at the rate of time and one-half.
NA. - not available.
p a preliminary.
MOTE: Data have been revised to reflect March 1988 benchmarks and updated seesonal adjustment factors.

ESTABLISHMENT DATA

ESTABLISHMENT DATA

Table 8-5. Indexes of appropriate weekly hours of production or nonsupervisory workers)/ on private nonspricultural payrolls by industry

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(1977=188)

| Industry | | 80880 | nelly ed | justed | Seasonally adjusted | | | | | |
|---|--|--|---|--|---|--|---|--|--|--|
| | | Mar. 1989 | Apr. 1989 <u>p</u> / | May 1989 <u>p</u> / | May 1988 | Jan. 1989 | Feb. 1989 | Mar. 1989 | Apr. 1989 <u>e</u> / | May 1989g/ |
| Total private | 124.0 | 124.7 | 127.4 | 127.5 | 124.0 | 127.4 | 127.2 | 127.6 | 128.7 | 127.5 |
| Goods-producing industries | 101.2 | 99.8 | 101.8 | 102.5 | 101.1 | 103.0 | 102.9 | 102.9 | 103.4 | 102.3 |
| Mining | 81.9 | 78.5 | 81.8 | 80.2 | 82.5 | 79.9 | 80.1 | \$1.1 | 83.6 | 80.8 |
| Construction | 139.4 | 125.1 | 135.8 | 141.2 | 136.0 | 141.2 | 140.5 | 140.3 | 140.8 | 137.6 |
| Manufacturing | 94.7 | 95.9 | 96.2 | 96.0 | 95.2 | 96.7 | 96.7 | 96.7 | 97.2 | 96.5 |
| Durable geode | 93.3 104.7 109.9 91.5 54.0 99.0 100.9 99.0 100.9 91.7 110.3 84.4 96.8 96.7 69.6 80.7 884.7 | 94.4 101.5 113.6 87.5 69.1 53.8 91.7 94.2 98.1 101.9 92.5 115.1 85.2 98.1 97.4 80.7 85.7 1010 | 94.7 103.4 12.7 91.6 53.0 91.3 93.4 93.5 102.5 116.0 86.3 97.7 66.5 81.1 85.7 | 94.3 104.8 109.9 92.1 63.4 91.5 93.5 93.5 97.7 100.4 115.1 86.6 98.5 99.8 65.0 81.4 85.2 | 93.4 104.0 112.4 89.4 53.9 90.9 90.9 90.3 111.2 85.1 97.8 97.8 100.2 77.8 1.1 26.7 81.1 84.6 | 95.2 107.0 113.8 91.4 55.8 93.0 93.0 100.2 101.0 91.8 115.3 85.9 98.9 101.5 73.6 80.6 84.9 | 95.0 104.5 113.7 90.9 95.7 95.4 92.8 95.7 99.9 101.0 91.1 115.6 86.4 99.3 102.2 74.1 80.4 85.5 | 94.9 105.3 114.3 90.5 68.9 92.5 92.5 93.4 98.8 101.5 98.8 101.5 115.0 86.1 99.5 102.9 69.6 81.0 85.4 | 95.2 105.4 91.2 68.8 92.5 92.0 93.7 101.2 91.2 116.7 101.2 116.7 105.8 74.5 74.5 74.5 74.5 | 94:4 164.8 113.2 90.0 48:4 52:9 92.1 93.7 98.9 99.3 88:9 116.1 87.2 99.5 103.5 70.9 85.1 |
| Frinting and publishing. Chancels and allied products Potroleum and coal products. Rubber and size Jlastics products. Lepther and leather products. | 134.0 97.1 83.4 117.0 55.8 | 138.7 100.1 78.4 120.1 54.6 | 138.6 100.6 83.2 119.8 55.0 | 137.2 100.4 84.3 118.9 54.3 | 134.9 97.3 83.1 117.2 55.7 | 138.3 99.9 81.2 119.5 56.1 | 138.4 100.0 83.3 120.0 57.0 | 138.5 100.4 82.2 119.9 56.1 | 102.1 138.4 100.9 84.3 119.6 56.2 | 102.6 138.2 100.5 84.5 118.8 53.8 |
| Service-producing industries | 136.6 | 138.5 | 141.6 | 141.3 | 136.6 | 140.9 | 140.6 | 141.2 | 142.6 | 141.4 |
| Transportation and public utilities | 112.2 | 114.3 | 116.9 | 117.1 | 112.6 | 116.4 | 116.2 | 116.Z | 118.4 | 117.7 |
| Whelessle trade | 122.0 | 124.6 | 126.2 | 126.4 | 122.0 | 125.3 | 125.9 | 126.4 | 127.2 | 126.2 |
| Retail trade | 124.2 | 122.1 | 125.2 | 126.6 | 124.6 | 127.2 | 126.7 | 126.9 | 127.7 | 126.9 |
| Finance, insurance, and real estate | 139.7 | 140.3 | 143.0 | 141.4 | 140.3 | 142.1 | 140.8 | 141.8 | 143.9 | 141.9 |
| Services | 160.0 | 165.5 | 169.3 | 167.7 | 159.4 | 166.4 | 166.1 | 167.3 | 168.9 | 147.5 |

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)/ See fectado 1, table B-2. p = proliminary.

NOTE: Data have been revised to pdated seasonal adjustment factors. ch 1988 b the end шO

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ESTABLISHMENT DATA

Table 3-6. Diffusion indexes of employment change, seasonally adjusted (Percent)

Feb. Har. Apr. Hey June July Aug. Sapt Oot. Nev. Time epen Jan. Dee. Private nonsprioultural payrells, 349 industrias/ Over 1-month spen: 1987..... 1988..... 1989..... 55.6 60.7 59.3 43.5 61.0 63.0 61.0 41.9 62.8 58.6 59.7 11.1 60.6 S8.0 63.0 67.8 44.5 **11**-7 Dver 3-menth mpan: 1987..... 1988...... 60.7 64.8 71.6 62.0 63.6 64.4 61.1 65.2 70.2 65.8 71.1 65.9 71.9 67.8 71.2 71.1 71.2 72.5 70.9 £1:2 Ovar 6-month span: 1987.... 1988..... 1989..... 67.3 69.9 74.4 65.8 70.2 64.8 71.3 **55.** 73.9 67.6 73.9 69.5 71.3 70.2 73.5 73.2 71.5 73.5 71.8 31:I Over 12-month span: 1987..... 1988..... 1989.... 76.9 66.6 76.2 68.2 76.1 68.2 74.8 71.8 71.9 72.5 72.2 74.1 75.4 72.5 73.8 Manufacturing payrolls, 143 industries Over 1-month span: 1987..... 1988..... 1988..... 53.9 56.0 53.5 55.7 59.9 8/48.9 55.3 58.5 p/45.0 44.3 58.5 62.4 54.3 55.0 54.3 61.7 62.8 59.6 59.9 51.1 63.8 39.9 62.8 65.6 56.4 58.5 Over 3-month epen: 1987..... 1988..... 1989..... 52.1 63.1 51.4 61.0 63.8 59.6 62.4 61.3 64.9 8/47.5 58.5 67.4 62.8 67.0 71.6 68.4 62.1 70.4 *****7.7 64.3 70.0 Over 6-month span: 1987.... 1988..... 1988..... 57.4 66.3 56.7 66.3 55.5 67.7 62.4 69.5 64.9 66.7 67.0 67.4 66.0 70.6 71.3 69.5 69.5 71.6 **#**:1 Over 12-month span: 1987.... 1988.... 1989.... 58.5 **₽**69:3 72.3 55.3 73.8 58.5 63.5 71.6 46.3 72.0 67.4 69.9 71.6 72.7 69.1 71:6 69.1 p/69.9

]/ Based on seasonally adjusted data for 1-, 3-, and 8-month spans and nadjusted data for the 12-month span. Data are centered within the span. p - preliminary. NOTE: Figures are the parcent of industries with employment increasing

ed employment, where 60 percent les with increasing and decreasing lest Merch 1963 beachmarks and al of the in th und indic e an equal balance between indu ment. Data have been revised to emp

Senator SARBANES. Thank you very much, Commissioner.

First of all, I want to just clear up in my own mind references Senator Roth made to the increase in jobs in the managerial and professional categories.

Is that a self-assessed description in your surveys, or is that an objective criteria. Do you place people in that category, or do people place themselves as a manager or as a professional?

Mrs. NORWOOD. In the household survey, which is where these data come from, it is a self-described occupation.

Senator SARBANES. In other words, it is a characterization that the individual himself attaches to his job?

Mrs. Norwood. That is correct.

Senator SARBANES. So it may or may not coincide with objective criteria. We just don't know.

Mrs. Norwood. Well, that's true. However, we do have some data from our occupational wage programs and some data from our Federal-State programs which are collected from business establishments, and it seems clear that there is an increase in managerial professional and technical jobs.

Senator SARBANES. By their characterization?

Mrs. Norwood. Yes.

Senator SARBANES. Is there a tendency to upgrade job titles in our society?

Mrs. Norwood. There may well be. I think that one of the things that is happening in some business establishments now is a new approach to using workers, and so there is a kind of blending of occupations. It is a very small proportion of establishments that are doing that now, but it is a trend that is emerging, so that the employer can make better use of the total skills of the individual.

Senator SARBANES. I think we are even aware of some of the pressure. A secretary would not be a managerial-professional category.

Mrs. Norwood. No.

Senator SARBANES. Would an executive assistant be a managerial-professional category?

Mrs. Norwood. Yes.

Senator ROTH. What about an executive secretary?

Mr. PLEWES. No. It would be classified as a secretary still.

Senator SARBANES. That would have to be an executive assistant to cross the line.

Mr. PLEWES. That is correct. They go into the administrative category at that point.

Senator ROTH. Maybe there is a little lack of classification in some of those jobs, I can say from experience.

Senator SARBANES. I want to pursue the survey of the dual jobholders which you mentioned in your report. As I understand it, during the past couple of years the payroll survey has reported many more new jobs than has the household survey.

Mrs. Norwood. Correct.

Senator SARBANES. And I take it, there is now the hypothesis that some of this difference is due to the growth of dual job holding because the person holds more than one job. The payroll survey counts each job, whereas the household survey counts a person only once, that person as being employed. Are any of the results of your survey in, and if not, when will they be available?

Mrs. Norwood. They are not in. This is a supplement to the current population survey, which is the only way at the moment that we can do household surveys, and it will take some months.

Senator SARBANES. Do you know when?

Mr. PLEWES. We will have the data, in September, and have analyzed it by a month or so after, sir.

Mrs. Norwood. There is a long leadtime for these kinds of things. That is one of the reasons why I have been interested in trying to develop a capability to do quick response surveys on the household side as well as on the business side where we already have done them.

Senator SARBANES. Concerning the issue of health and retirement benefits which I raised in this morning's opening statement, will this survey review in any way the extent to which part-time employees receive normal work-related benefits such as health insurance or pensions?

Mrs. Norwood. This survey will not do that, but we do have information from our regular labor force survey which gives us data on coverage of people and whether they get health insurance from their employers. We also have in our benefits surveys of business establishments, a good deal of information on who is covered and in what kinds of business establishments. Obviously, the larger establishments have a great deal of coverage. The very small establishments have much less.

Senator SARBANES. This is on the part-time workers?

Mrs. Norwood. It would include both.

Mr. STELLUTO. It now includes only the full time. We are moving into the part-time area within the next 2 years.

Senator SARBANES. With respect to full-time workers, what is the extent of coverage with respect to the benefits? Do you have any rough figures on that?

Mr. STELLUTO. The survey covers what we call intermediate or large establishments, those with employment of 100 workers or more. Full-time employment in these establishments is about 31 million. As far as health insurance, where the employer pays some part of it, either all or some part of it, that is fairly widespread. Probably over 90 percent coverage. This is for full-time workers.

Senator SARBANES. Some coverage, but we don't know the extent of the coverage.

Mr. STELLUTO. Well, we get into pretty much the details of the coverage—hospitalization, surgical schedules, inpatient, and outpatient services. This survey gets into all of the very fine details of those kinds.

Mrs. Norwood. Let me point out that half of the people in this country work in establishments that have 100 or less.

Senator SARBANES. And there you don't have the figure?

Mrs. NORWOOD. No, but we are moving in that direction.

Senator SARBANES. How about on pensions?

Mr. STELLUTO. On pensions, the coverage is somewhat less than health insurance. It is probably in the area of 75 percent or so in defined benefit plans. Senator SARBANES. Again, you're talking about the half of the population employed in these intermediate and large establishments.

Mr. STELLUTO. Yes, along with State and local governments.

Senator SARBANES. Not the other half.

Mrs. Norwood. That is pensions other than Social Security.

Mr. STELLUTO. Yes. And what we have seen in the pension area, there has been an increase in what they are calling now defined contribution plans. This is where employers are setting aside money as opposed to defined benefit plans where you actually get an annuity based on some formula.

Senator SARBANES. Is it reasonable to presume that in the establishments of under 100, in other words, below the intermediate categories, the coverage for full-time employees would drop off considerably——

Mr. STELLUTO. I would consider that a reasonable assumption. We have not yet surveyed those areas.

Senator SARBANES. In the Kuttner article, is it correct that when you shift from full-time employees to part-time employees, the drop off in coverage on health and pension benefits would be very substantial, indeed?

Mr. STELLUTO. I am not sure it would be substantial. I think there would be a drop off.

Mrs. NORWOOD. We did a survey of the temporary help industry, which hires workers and places them for temporary periods of time. And we found that there were a larger number, than we had thought at least, that worked for these companies week after week and who did receive the fringe benefits, but it is still far less than those in the larger establishments. There is no doubt about that. Senator SARBANES. Mr. Plewes.

Mr. PLEWES. If I could just add, the Pension Benefit Guaranty Corporation has sponsored a supplement to the Current Population Survey which gives some of this information on full-time and parttime employment. I do not know they are available yet, but we can make them available, certainly, to the committee, if you would like.

Senator SARBANES. I think it would be helpful to do that.

Mr. PLEWES. We will certainly do that.

[The following information was subsequently supplied for the record:]

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U.S. Department of Labor

Commissioner for Bureau of Labor Statistics Washington, D.C. 20212



JUN 221989

Honorable Paul Sarbanes United States Senate Washington, D.C. 20510

Dear Senator Sarbanes:

At our June 2 Joint Economic Committee hearing, you raised a question about the relative benefit coverages of fulland part-time workers. To answer at least a part of your question, we have tabulated some summary date from the March 1988 Current Population Survey (CPS). These data show the extent to which the persons who worked during 1987 were covered by employer-sponsored or other types of health insurance plans. As shown, the persons who worked part time were much less likely to have employer-sponsored coverage than were full-time workers.

Much more detailed data on the extent and nature of benefits for full- and part-time workers will soon be available from a special CPS supplement conducted in May 1988 under the sponsorship of the Department of Labor and the Employee Benefits Research Institute. In the meantime, I hope that the enclosed table will shed some light on this issue.

If I may be of further assistance in this area, please let me know.

Sincerely yours,

Janet

JANET L. NORWOOD Commissioner

Enclosure

| | | and the second se |
|---|--------------------------------|---|
| Health insurance status | Usually worked full-time | Usually worked part time |
| Total | . 100.0 | 100.0 |
| Percent with employer- or union- sponsored group health plan | . 64.2 | 16.1 |
| Percent with health insurance coverage through a relative | . 11.6 | 40.1 |
| Percent with other coverage | . 11.1 | 27.1 |
| Percent with no coverage whatsoever | . 13.1 | 16.7 |

Health insurance status of persons with employment in 1987, by whether they usually worked full or part time

SOURCE: March 1988 Current Population Survey

Senator SARBANES. I am going to yield to Senator Roth here in just a second, although I have a couple of other major areas that I want to go into. But I did want to ask you, on the inflation question, about a Wall Street Journal article on May 26, with the headline being "Personal Inflation Can Top U.S.'s Rates: Official Data Failed To Measure Many Living Costs." And then it goes on to cast some doubt on the CPI. "Consumers who think that the rise in their own personal cost of living is pinching more harshly than government statistics indicate may be right."

What is your response to someone who says that the prices he or she pays have been going up much faster than the inflation rate measured by the CPI, and therefore, seek to cast doubt on the CPI?

Mrs. Norwoon. My response is that the CPI is clearly defined as an average, and to the extent that an individual differs from the average in his or her expenditures or the stores they go into or the quality of items that they buy, their experience is going to differ from the average. If, for example, someone happens to have three children going through university, their college tuition in their expenditures will be—and that family's expenditures will be much higher than the average. People have different spending habits, and we do have a consumer expenditure survey in which we can look at the buying habits of different kinds of people, different groups, but we have really only two CPI's. One that relates to wage earners and clerical workers and the other to all urban consumers. There are not great differences between them.

Senator SARBANES. Well, now, I think that is a good response, and actually, one of the examples used here was an elderly person with very high medical bills or a middle-aged parent with children in college, both of whom you can say is not the typical case. But they do make the argument that the housing costs, which are a component, are understated because they do not take into account the adjustable rate mortgages which are now still a minority but fairly prevalent.

So that leads to the question, are there major living costs or prices that households incur which are not included in the CPI or included in the CPI in such a way that they would be consistently understated?

Mrs. NORWOOD. Our research has shown that probably the most difficult aspect is the need to look at the quality of the particular item and to measure items of the same quality from one year to the next. The work that was done some years ago by BLS has shown that if there were bias, the bias was not in one direction. It was both up and down.

On the housing issue, some years ago we made a change, in part because of adjustable rate mortgages, in order to reflect what we think properly belongs in the CPI, which is the cost of the shelter that is actually used by the consumer and to eliminate the investment costs. We think we have a pretty good measure of the cost of shelter through a rental equivalent. It is not perfect, but we think that it does really a pretty good job. It would be possible, of course, to look at the development of the CPI for various groups of the population. And in fact, we have thought about that.

If you look at the elderly, for example, however you define them, and that is a big issue, you may or may not have a difference. It is true that older people spend more of their income on medical costs, and on the other hand, a much larger proportion may be paid through Medicare. But quite apart from that, they also spend less money on gasoline and gasoline prices have been rising very steadily. So it is really not just the difference in the expenditure patterns but also the relative differences in price changes among the categories that would affect the index. It would be very expensive to develop separate indexes for each group of the population, and we would not know whether when we got all through, we really had an index that was at all statistically different from the average.

Senator SARBANES. Well, I have some other areas, but I will defer to Senator Roth and come back to them after he has had his round. Senator Roth. Thank you, Mr. Vice Chairman.

Going back to the question of mandated benefits, I have to say that I share the concern of the vice chairman that there are large groups that go unprotected, but I think one of the problems in Europe where many of these benefits are mandated—isn't that correct—pensions and your health insurance?

Mrs. Norwood. Yes. In Europe, most of those are paid for out of tax revenue.

Senator ROTH. That is the good news, but the bad news is that they have not had the employment growth that this country has enjoyed.

Mrs. Norwood. That is true. There are lots of reasons for that, I think.

Senator ROTH. And obviously, there is no single reason. I understand that. But the fact is that their unemployment is significantly higher than in this country; is that correct?

Mrs. Norwood. In many—in some countries that is true. Japan, for example, and the Scandinavian countries, of course, have very low unemployment.

Senator Roth. What about Germany and France?

Mrs. NORWOOD. We have a lower unemployment rate now than France—even than Germany, and certainly lower than the United Kingdom.

Senator ROTH. Now the Federal Reserve made no secret of its desire to slow the economy. Would you say that the data released this morning is consistent with the hypothesis that the Fed has succeeded in slowing down the economy?

succeeded in slowing down the economy? Mrs. NORWOOD. The economy—certainly, the labor market certainly has slowed. There is no doubt about that. The employment growth has slowed considerably.

Senator Roth. Going back to the unemployment rate now, the United States is 5.2 percent. Do you have the figures for France, Germany, and the United Kingdom, and Italy?

Germany, and the United Kingdom, and Italy? Mrs. Norwood. Yes. Let's see. Canada is 7.7 percent. These are data for April. Japan is about 2.4 percent for the last quarter of last year. France has a 10 percent rate. Germany is 6.3 percent. Italy, the first quarter was 7.6 percent. The United Kingdom was 6.6 percent and Sweden was 1.6 percent. Senator Rorth. In the case of Japan, it has been my understand-

Senator ROTH. In the case of Japan, it has been my understanding that while their lifetime employment with many benefits of the large companies, the fact is that the way they take care of unemployment is that there are many employees or many individuals employed by small companies that move up and down as required, so that their situation isn't quite as positive as it on the surface appears to be.

Mrs. NORWOOD. That is correct, Senator. The data that I quoted to you had been adjusted to the extent that we can find data to use to adjust them to U.S. concepts.

In the case of Japan, in part because of the custom of people retiring at a fairly early age and the differences between temporary and permanent workers, if you use the definition of discouragement that we use when we measure discouraged workers which we do not include in the unemployment rate, if you apply that kind of a definition both to Japan and to the United States, our work shows that the Japanese rate would be much closer to that of the United States. These people are not looking for work.

Senator ROTH. I see. Yes.

Mrs. Norwood, what is the most comprehensive measure of employee compensation and how much has this measure increased since 1981?

Mrs. NORWOOD. The best measure, we believe, is the Bureau of Labor Statistics employment cost index, and since 1981, it has gone up about 7 percent.

Senator ROTH. Why is this a better measure than real hourly earnings? What items are left out of the index?

Mrs. NORWOOD. First of all, the ECI includes employer cost of fringe benefits as well as wages and salaries. Hourly earnings do not include the employer cost of fringes.

Second, the ECI is a sample survey that is designed essentially to be to wages and compensation what the CPI is to prices. It measures earnings by occupation and it is base weighted, so that you can see the differences. We no longer publish the hourly earnings index, but the hourly earnings data are useful because they are the only data that we have each month that give us the dollars and cents paid to workers. It is not really a cost, but the earnings exclusive of the cost of fringe benefits. That can be looked at for a broad group of industries. In addition, the hourly earnings data do not reflect the increasing tendency for employers to bargain with employees and to provide for a lump-sum payment. Lump-sum payments are included in the employment cost index. They are excluded from the hourly earnings data.

We have looked at that, because the hourly earnings data are used so extensively, to see whether it would be possible for us to develop an approach to including lump-sum payments since they seem to be an increasing method of remuneration of employees. We are doing some pilot work, but it could be expensive to get at this, and it would be very hard to obtain it every month. In any case, we would have to have an annual way of doing it. So, there are uses for the monthly hourly earnings figures, but people should understand how they are defined and what they are. As a general indicator of wage and compensation trends in the economy as a whole, the ECI is a better measure.

Senator Roth. Going back to your 7 percent figure since 1981, is that gain real or nominal?

Mrs. Norwood. I'm sorry. I gave you the wrong figure. It is—

Mrs. Norwood. I apologize. 47.3.

Senator ROTH. That is nominal.

Mrs. Norwood. Nominal; that's right.

Senator ROTH. And what is the real gain?

Mrs. Norwood. About 7 percent, for private industry workers. Senator Roth. About 7 percent. OK. Thank you, Mrs. Norwood, and thank you, Mr. Vice Chairman.

Senator SARBANES. That is 7 percent over 8 years; right? Mrs. Norwood. Right.

Senator SARBANES. It is a little less than 1 percent a year.

Mrs. Norwood. Over the last year it has been negative.

Senator SARBANES. It is negative in this last year by what margin?

Mrs. Norwood. It's about four-tenths.

Senator SARBANES. So in other words, average compensation has actually declined in real terms in the last year?

Mrs. Norwood. Yes.

Senator SARBANES. I want to ask-

Senator ROTH. Would the vice chairman yield?

Senator SARBANES. Sure. I think it is an important point.

Senator ROTH. How does this compare with the rate of increase from 1977 to 1980?

Mrs. Norwood. Do you have that, George?

Mr. STELLUTO. In real terms?

Senator ROTH. In real terms.

Mr. STELLUTO. I will have to look it up.

Mrs. Norwood. I think we will have to supply that for the record. We have only data back to 1980 here.

Senator ROTH. Did it go up or did it decline in that period, do you know that?

Mrs. Norwood. I would expect—I don't know but I do know that there was a huge CPI in 1979 and 1980, which was somewhat exag-gerated, we believe, because of the old treatment of home ownership that would affect those data, but in the seventies, certainly, the early seventies, the increases were pretty fast, and then they slowed down during that period. I can supply that for the record. Senator Rotн. OK. Thank you.

[The following information was subsequently supplied for the record:]

The ECI movement in real terms (wages and salaries for private industry workers adjusted by the CPI-U) was 7.1 for the period March 1977 to March 1981; and 4.0 percent for March 1981 to March 1989.

Senator SARBANES. Commissioner, when Michael Boskin was before the committee for the annual report, we brought up with him the subject of the statistical infrastructure of the National Government and got out of him a commitment to undertake an initiative in that area and to assume some responsibility to bring it personally to the President's attention. I understand that within the last month the Bush administration has established an interagency working group to implement this commitment that Mr. Boskin made to this committee to improve the quality of U.S. economic statistics.

I gather you are part of that working group, and I wonder if you could give us a brief overview of what kind of progress it is making and the issues it is looking at.

Mrs. Norwoon. First, let me tell you that Mr. Boskin has, as he told you he would, visited with the President and the Chairman of the Fed, the Secretary of Commerce and the Secretary of Labor to emphasize the importance of good statistical information and that has been very helpful, I think. The working group has just been set up, has had one meeting, and will be having another shortly. It is looking at some of the criticisms that have been made of the statistical system, and it is looking both at the issue of quality and the issue of areas where data are not adequate. That is where there are no data and should be. What will happen with that, I cannot tell you at this point, but that is the direction in which it is heading.

Senator SARBANES. Is the working group going to have regular meetings where they interact with the public or those interested in this particular infrastructure in the private sector in any way, as it develops its agenda?

Mrs. Norwood. I believe so. I don't know what the exact plans are, but I certainly will report at the meeting next week on our discussion and indicate that that was the question that was raised. I do believe that Mr. Boskin expects to have some discussions with the public, and as a matter of fact, he has already been out and talked to a number of groups about his concerns.

talked to a number of groups about his concerns. Senator SARBANES. Well, we may give some thought as to how the committee may interact more directly with the interagency working group. We are very anxious that its agenda prove to be a positive one.

Do you have any information on whether we are going to get a nominee for the Director of the Bureau of the Census?

Mrs. Norwood. I have no information at all. No one has talked to me about that in any way.

Senator SARBANES. Just in the abstract, what do you think are the important qualifications that a Director of the Bureau of the Census should have, just as a hypothetical?

Mrs. Norwood. I believe—–

Senator SARBANES. I thought we would test you a little bit here this morning before the summer vacation.

Mrs. Norwood. I believe very strongly that the Director of the Bureau of the Census should be someone who is outside of politics. It is particularly important. Because of the data the Bureau is responsible for, I would like to see someone who understands and knows something about statistics as well as management, and I hope that there is action pretty quickly. I think it is very important at this stage of the decennial census program, and may I say, it is extremely important for us at the Bureau of Labor Statistics, because the labor force survey for us is done by the Census Bureau. So we have a very direct interest in seeing to it that the quality of work at the Census Bureau is maintained.

Senator SARBANES. On the Paperwork Reduction Act, there has been a tendency, I think, to see the effort to gain information for statistics in the same way that one sees regulatory requirements which I think completely misses the point. I think there is a very sharp distinction between the two, and I wondered what the developments are there. I gather that the OMB has receded from some proposals that they have previously put forward in this area; is that correct?

Mrs. Norwood. OMB has receded from several proposals that were put forward to restrict the dissemination of information. I think they have recognized that they were going down the wrong road and the Statistical Office at OMB that has been reconstituted has been extremely helpful in that regard. There are, as you probably know, hearings being held on the Paperwork Reduction Act and its need to be relegislated, and I am going to be testifying next week on our experience under it.

I agree that the existing act, by definition, relates regulation burdens to statistical information burdens. That can be useful or not useful, depending on where you happen to be as an agency. The Department of Labor, for example, has a very large regulatory responsibility. The Bureau of Labor Statistics has less than 3 percent of the total hours burden of the Department of Labor, and yet our whole business is collecting information. So the regulatory burden really completely swamps the statistical information burden, and I think that the provision in the act which requires a 5-percent reduction every year could, if it were fully implemented, and were implemented in a way to apply to statistical agencies, could be a very serious problem for us.

I don't see, for example, how we could reduce the samples of the CPI, if we need to reduce burden, when we consider the uses of the CPI in many of our other programs. But, it is a problem that we have been able to work within the confines of that act so far.

Senator SARBANES. I guess it is important to get the private sector to develop within its own membership a greater understanding that furnishing statistical information has important benefits for the private sector. They, in effect, ought to view it in a somewhat different light than these other requirements, because without it a lot of information that is very important to business and corporate planning in their future developments will not be available to them.

Mrs. Norwoon. That is correct, and that is really our approach at BLS. I am probably the only statistical agency head that believes strongly in voluntary reporting. My view is that the data we collect are, of course, tremendously important to the public, but they should also be useful to the companies and the people who are providing the data to us. It should be our responsibility to help people to use our data, and that gets a little bit difficult when much of our information resources have been eliminated from our budget. We have retained a small number of them. Our regional offices, for example, spend a good deal of time as do our people in Washington, helping other people to make use of the data that we provide. And I spend a lot of time out in the country talking to people about why the BLS data are important to the country as a whole and to them individually. And I think we need to do a better job of getting that across.

Senator SARBANES. Are the unemployment figures that you gave earlier to Senator Roth for those various countries comparable figures? Mrs. NORWOOD. They have been adjusted to U.S. definitions to the extent that it has been possible for us to do, yes.

Senator SARBANES. Am I correct that in most of those countries the level of unemployment assistance is significantly higher than in this country?

Mrs. Norwood. It is often for a much longer period, and in some countries, it is a higher proportion of their salaries and certainly a much larger group of people are eligible for unemployment benefits than in this country, in most cases.

Senator SARBANES. In fact, what percent of the unemployed in this country are now receiving unemployment compensation?

Mrs. Norwood. It generally has been running about one-third. I can give you the exact figure in a moment. If we look at total unemployed, unemployment insurance as a percentage of the total unemployed in the current population survey, it is 31.2 percent for the week of the 13th of May.

Senator SARBANES. Wasn't it even in this country at one point well above half?

Mrs. Norwood. Yes. Back in 1975, it was 67, 67.2 percent.

Senator SARBANES. So in 1975, 67 percent of the unemployed were drawing unemployment compensation?

Mrs. Norwood. Yes.

Senator SARBANES. And today that has been cut to 31 percent of the unemployed; is that correct?

Mrs. Norwood. Yes. That is correct. Now, of course, some of that is because of a difference in economic conditions, but some of it is also because of the tightening of UI eligibility in the administration of the laws.

Senator SARBANES. Now in these European countries, in addition to having a much higher percentage of their workers covered by unemployment insurance, it is my understanding that they are covered at a higher percentage of their wages than in this country. So you have more people covered, and the people covered are covered at a higher percentage. They, of course, continue to be covered for health care, do they not, since the system is structured differently? Mrs. Norwood. I believe so. I am not up on that, however, but

Mrs. Norwood. I believe so. I am not up on that, however, but they do, because, for the most part, in most Western European countries, in any case, and certainly in Scandinavia, the health benefits are not job related.

Senator SARBANES. Right.

Mrs. Norwood. So they would continue to have health benefits, yes.

Senator SARBANES. Now a question was asked about why employment growth in those countries was less than in this country, and the response was given that there were a number of reasons for that. But we never were able to lay on the record what those reasons were, and I would be interested in putting those on the record.

Mrs. Norwood. The point I was trying to make is that I do not believe that the basic reason was the increased tax costs of health insurance. I think that part of it is the labor force itself. Their labor force has been growing very slowly compared to ours, and they have a very special problem with their youth, and as a result, there hasn't been the push for jobs that we have had. Senator SARBANES. Let me ask you this question. If the country has a stable or declining population—

Mrs. Norwood. Yes.

Senator SARBANES [continuing]. Why would it have any growth in jobs? Suppose you have a country with a stable or declining population. Let's assume it has a low-unemployment rate. Why wouldn't it, without any increase in the number of jobs, be able to continue to have a low-unemployment rate in each subsequent year?

Mrs. Norwoon. That was the point that I was making. The labor force increases tend to push job creation. So we had enormous job creation in the seventies, as we had the numbers of people coming into the labor force. On the other hand, it is true that economic policies have a lot to do with it too. I was in Germany a couple of years ago with a group of people discussing labor market issues with a tripartite group of labor, government, and business. And their view was that they had to keep a very tight lid on what was happening in Germany, and above all, not create jobs unless they were extremely productive jobs. I think our view is that jobs are important. We want them to be productive, but it is better for somebody to be working than not working at all. There was a real difference, I think, in that.

Now one of the things that is going to be happening in the future is that Europe is now beginning to get the kinds of labor force pressures that we have been through. Their women are beginning to come more and more into the labor force although their participation rates are still lower than ours. They have new minority groups because their guest workers have stayed. The people who came, stayed and had children, and now these people are growing up. So I think that many of the kinds and issues and problems that we have had in the past, Europe is going to be facing in the future.

Senator SARBANES. Let us turn to productivity for just a few minutes, if we can.

Mrs. Norwood. All right.

Senator SARBANES. Mr. Mark, you have worked on productivity issues at the BLS now for almost four decades, and I give you a very open-ended question. What are your thoughts on what has caused the slowdown in the productivity growth in the American economy since the early 1970's? First of all, is it correct that there has been a discernible slowdown in productivity in the American economy since the early 1970's?

Mr. MARK. I think there is no question about it.

First of all, before I start, I want to thank you for your opening remarks, Senator Sarbanes.

There is no question that there has been a slowdown. There has been some recovery since the 1982 recession. This has been largely cyclical, but there has been in manufacturing, perhaps, a longer term impact, which is more positive. But in general, in the early seventies, we started to have a tremendous slowdown, a dropoff from the golden age of the fifties and the sixties, where we were running at the rate of about 3 percent per year down to less than one-half percent per year. We have come back to about 1 percent per year, which is still not anything like the period that we had before.

As far as the causes of it, I think it is a bit of a puzzle still. There have been many causes mentioned. If you add them all up, they sometimes overexplain the slowdown, and yet each one of them alone does not seem to indicate that this is the major source, but I think it is probably the cumulative effect of a lot of changes which were taking place in the early seventies, including the energy price increases and the increased government regulations which were useful for social purposes, but as far as productivity was concerned, they were somewhat costly.

The specific impact of each of these was not particularly great, but I think when you add them up, and the uncertainties that the price increases during the seventies created in terms of dislocations throughout the economy, I think you had a continuing pressure for smaller productivity gains.

The one area which I think has gone through a change in my view is the service sector. For many years, I never thought that the service sector alone was a source of the productivity deceleration. This has been argued many times, and the data that we are looking at did not seem to support it. However, I would say that I think the movement to service has had more of an impact in the recent years than it did previously.

Senator SARBANES. Why do you think that is the case? Mr. MARK. I don't know. I think that in some of the high productivity service areas, there has been probably a tapering off of growth and the traditionally low productivity growth service areas have been increasing in importance, so that this is affecting the service sector probably more than anything. I am optimistic a little bit about the future in the sense that I do think that many of the factors that have been operating will probably have less of an impact over the next decade than they had over the previous decade, but I do not believe that we are going to come back to the period where we had everything going for us as we did in the fifties and sixties.

Senator SARBANES. In your examination of productivity in other countries, have you ever come upon any programs or approaches that seem positive for them that might work here to improve U.S. productivity?

Mr. MARK. Not really. I think the other countries—in part, it is a function of the economic climate to a very large extent, and the stimulation of the introduction of the technology and the facilitating of that. Now in many countries, this is fairly easy, in other countries, it is more difficult. I think-I haven't seen anything, even the worker productivity centers for the last 40 years has not had an awful lot of impact in terms of the overall pattern of productivity improvement. I think it is mostly the major factors of increasing the education of the work force, facilitating the impact and the development and use of new technology, and the improvement of investment, so that capital can have a greater role. These are the three things that have major impacts. The conditions that lend to the improvement of these things, I think, are the sources of the productivity growth.

Senator SARBANES. A month ago, BLS reported that nonfarm productivity rose half a percent.

Mr. MARK. Right.

Senator SARBANES. At an annual rate in the first quarter of 1989. Then just yesterday, the Bureau issued revised figures that, in fact, it had declined in the first quarter at an annual rate of 1.1 percent. Mr. MARK. That's right.

Senator SARBANES. You also revised the productivity growth in manufacturing from 3.8 percent to 2.1 percent. I am interested, obviously, in what accounts for this substantial revision in the productivity figures for the first quarter.

Mr. MARK. The major source was a downward revision in the GNP data which came from later information that they received, so that there was a drop in nonfarm business output from a previously reported 3.6 percent annual rate in the first quarter to 2.2 percent. That was enough to shift the productivity growth from a positive half a percent per year to a negative 1 percent.

positive half a percent per year to a negative 1 percent. Senator SARBANES. That is the Commerce Department's figure? Mr. MARK. That is right. We start with the GNP data, and we take out those parts of the GNP, real GNP, for which we feel you really cannot derive productivity measures. For example, some parts of the national accounts—which they have to include to get a complete framework sometimes use input measures of output. Government is a good case in point. The output measure of general government is wages and salaries of government employees which, in real terms, is the change in employment times the base of wages and salaries. There is an implied cost of productivity assumption underlying that.

So therefore, we don't feel that that would be a realistic picture, if we were to include it. So we take it out. That is why we only have the largest level of aggregation being the business sector, and we exclude households and institutions for that reason and general government. And there are parts of the national accounts that they have to develop measures for, for which they get income or production, like income from abroad, but we don't have the labor components associated with that generation of the income. So we take that out. We do, of course, have domestic products excluding households and institutions and general government.

For those reasons, we have a limited measure, and there are revisons within that business sector measure which take place because they get later data on overtime, and then they revise the data down like they did in this case, downward, because the labor input adjustment was very small. It was 3.1 and 3.4. So there was a very small difference in the two measures as far as the input side was concerned. It was entirely from the output. As far as the input side was concerned, it was entirely from hours.

As far as manufacturing is concerned, the same thing took place. There was a revision in the output growth downward from 4.6 to 2.8, which is very substantial and caused the fallout from the manufacturing productivity growth.

ufacturing productivity growth. Senator SARBANES. Well, Commissioner, I think this is an object lesson for the interagency task force. It is a matter of some concern, if the revision is as extensive as it has had to be here because of the revision in the GNP figures. In the meantime, you are operating on one set of assumptions about the economy and how it is working, and then all of a sudden, those assumptions get literally turned around. It seems to me that for Mr. Boskin and his group, it is an instance that could be corrected by the commitment of more resources into the statistical agencies.

Mrs. Norwood. Not entirely. I think part of the problem is that the GNP estimates are issued and must be issued before all of the data for the quarter to which they were referred are in. I know on the price side, they have 1 or 2 months' data, and they don't have the third month. So they are forced to revise this afterwards.

Senator SARBANES. Shouldn't we either get the data sooner or not issue the figure as quickly, if the gap is going to be this great? And do other countries do the same thing?

Mrs. Norwoon. It is certainly possible, but when you have started and you have a program which says that you are going to release data at particular times and you have a lot of people in and out of the Government who say we don't really care whether you have to revise it, we need it early even if it isn't complete, it is very difficult. But the Commerce Department has eliminated the so-called "flash GNP estimate," which really had almost no data in it or very little, and I think they have a very difficult job. The Boskin working group is looking at the question of what

The Boskin working group is looking at the question of what data are needed to improve the national accounts. In many cases, however, those data are not very easy to develop, and part of it is cost, but it is not entirely cost. There are a lot of things that we really don't know how to do very well. We have products in our case, for example, we have a lot of products which have fast-shifting technology, and it is very difficult, say, in the medical care area to determine how to develop measures of output that are realistic, and that is true of much of the price measurement in the serviceproducing area.

So what we need to do is to develop more data, but we also need to try to find out better approaches to—and do research on the conceptual needs for data as well.

Senator SARBANES. Mr. Mark, let me put this final question to you.

What, in your view, would be the most effective things that the U.S. Government could do to improve productivity?

Mr. MARK. The Government's role, I think, is to create an economic climate. I think that is the principal Government role, in my view, to enhance productivity growth, that a climate which is stable and a climate which is one in which expectations can be realistic and would encourage business and labor to hasten the introduction of new technology, because basically, the major source of productivity growth, the largest growth by far is improved technology. And anything that stimulates that is going to be a source and if the Government creates a climate in various ways, an economic climate of stability that would be the most important thing that we could do.

Senator SARBANES. Earlier, you said on improving productivity that new technology, worker training, as I recall, and there was one other item——

Mr. MARK. There are three things, it seems to me, which are the sources of long-term productivity growth—new technology, the education and quality of the work force, basically, is the second one, and the third is the extent, the amount and the quality of the capital that is available, that the work force has available to work with. That, in conjunction with the technology, the new technology, it seems to me, are the major sources that we are going to have for enhancing productivity growth.

Senator SARBANES. When you talk about the education and quality of the work force, are you including management in that as well as the workers?

Mr. MARK. Yes.

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Senator SARBANES. Because I think there is a tendency to overlook that. I don't know how episodic this evidence is, but there are often stories about how the same workers and roughly the same capital plant, a new management turns around the whole productivity performance in a particular facility. And so I was curious about that.

Mr. MARK. Yes. Of course, because management is part of the generation of outputs, we feel that it is very important, and also, the quality of the management determines how the technology is going to be utilized. So it is very central, the whole argument about short-term horizons that management has to operate under in this country, I think, has some validity to it, but also it is not the longer term things to me. The longer term is the general quality of the work force in general and the quality of the management.

Senator SARBANES. Well, we thank you very much. We wish you well in your retirement.

And Commissioner, we are most appreciative to you and your colleagues for being with us today.

Mrs. Norwood. Thank you very much.

Senator SARBANES. The committee stands adjourned.

[Whereupon, at 10:47 a.m., the committee adjourned, subject to the call of the Chair.]

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