

# News

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## THE EMPLOYMENT SITUATION: JULY 1988

Payroll employment continued to increase in July and unemployment was little changed, the Bureau of Labor Statistics of the U. S. Department of Labor reported today. Both the overall and the civilian worker jobless rates were 5.4 percent.

Nonagricultural payroll employment, as measured by the survey of business establishments, rose by 285,000 in July, seasonally adjusted. By contrast, total civilian employment, as measured by the household survey, was about unchanged, after increasing by an unusually large amount in June.

### Unemployment (Household Survey Data)

The number of unemployed persons in July totaled 6.6 million, seasonally adjusted, and the unemployment rate for civilian workers was 5.4 percent. Both figures were little changed from June. Since July of last year, the number of unemployed persons has fallen by 630,000, and the jobless rate has declined six-tenths of a percentage point.

A large part of the over-the-year improvement in unemployment occurred among adult men. Their jobless rate for July (4.5 percent) and that for adult women (5.1 percent) were essentially unchanged, while the rate for teenagers rose by 1.6 percentage points to 15.2 percent, near its May level. The rates for whites (4.7 percent) and blacks (11.4 percent)--including black teenagers (31.1 percent)--were little changed from June. The rate for Hispanics fell to 8.0 percent. (See tables A-2 and A-3.)

### Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment was essentially unchanged at 115.1 million in July, following large swings in recent months. The employment-population ratio held at a high of 62.3 percent. The civilian labor force edged upward by 210,000 in July to 121.7 million. This was 1.8 million above the July 1987 level. (See table A-2.)

Industry Payroll Employment (Establishment Survey Data)

Employment in nonagricultural establishments rose by 285,000 in July. This increase, coupled with a substantial upward revision of the preliminary June estimates, brought the number of payroll jobs to 106.3 million, seasonally adjusted. Strong gains occurred in manufacturing and several industries in the service-producing sector. (See table B-1.)

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

Category	Quarterly averages		Monthly data			June-July change
	1988		1988			
	I	II	May	June	July	
HOUSEHOLD DATA	Thousands of persons					
Labor force <u>1/</u> .....	122,882	122,968	122,692	123,157	123,357	200
Total employment <u>1/</u> ..	115,954	116,352	115,909	116,703	116,732	29
Civilian labor force...	121,142	121,258	120,978	121,472	121,684	212
Civilian employment..	114,214	114,642	114,195	115,018	115,059	41
Unemployment.....	6,928	6,616	6,783	6,455	6,625	170
Not in labor force.....	62,825	63,131	63,396	63,090	63,045	-45
Discouraged workers..	1,027	910	N.A.	N.A.	N.A.	N.A.
	Percent of labor force					
Unemployment rates:						
All workers <u>1/</u> .....	5.6	5.4	5.5	5.2	5.4	0.2
All civilian workers.	5.7	5.5	5.6	5.3	5.4	.1
Adult men.....	5.0	4.7	4.9	4.6	4.5	-.1
Adult women.....	5.0	4.9	4.9	4.9	5.1	.2
Teenagers.....	16.0	15.0	15.6	13.6	15.2	1.6
White.....	4.8	4.6	4.7	4.5	4.7	.2
Black.....	12.5	12.0	12.4	11.5	11.4	-.1
Hispanic origin....	7.9	9.1	9.0	9.0	8.0	-1.0
ESTABLISHMENT DATA	Thousands of jobs					
Nonfarm employment.....	104,670	p105,597	105,489	p106,021	p106,304	p283
Goods-producing.....	25,260	p25,497	25,466	p25,590	p25,672	p82
Service-producing....	79,410	p80,100	80,023	p80,431	p80,632	p201
	Hours of work					
Average weekly hours:						
Total private.....	34.7	p34.8	34.7	p34.7	p34.9	p0.2
Manufacturing.....	41.0	p41.1	41.0	p41.1	p41.1	p0
Overtime.....	3.8	p3.9	3.9	p3.9	p3.9	p0

1/ Includes the resident Armed Forces.  
p=preliminary.

N.A.=not available.

Manufacturing continued to display vigorous employment growth, as the number of factory jobs rose by 70,000 to reach 19.6 million. As in the previous month, most of this increase was in durable goods manufacturing, especially machinery. Elsewhere in the goods sector, employment in construction rose very slightly in July, after increasing by 70,000 in June. While jobs in general building contracting have shown little strength this summer, there have been strong gains in the special trades (plumbing, electrical, masonry, etc.).

Employment in the service-producing sector rose by about 200,000 in July. Retail trade gained 80,000 jobs, equaling June's strong growth; recent increases have been widespread throughout the industry, except for general merchandise stores. Employment in the fast-growing services division was up by a relatively modest 65,000 in July but has gained about 360,000 jobs since April. Wholesale trade continued to exhibit strong job growth with an increase of 25,000, entirely in durable goods distribution.

#### Weekly Hours (Establishment Survey Data)

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls rose by 0.2 hour to 34.9 hours in July, seasonally adjusted. While the factory workweek and overtime were unchanged at 41.1 and 3.9 hours, respectively, they remained very high by historical standards. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 126.3 (1977=100), rose by 0.7 percent, seasonally adjusted. The index for manufacturing rose by 0.6 percent to 96.7. (See table B-5.)

#### Hourly and Weekly Earnings (Establishment Survey Data)

Average hourly earnings of private production or nonsupervisory workers rose 0.4 percent in July to \$9.32, seasonally adjusted, and average weekly earnings rose by 1.0 percent, reflecting the increases in hourly earnings and in the length of the workweek. Prior to seasonal adjustment, average hourly earnings rose by 2 cents to \$9.25, and average weekly earnings increased by \$1.63 to \$324.68. (See table B-3.)

#### The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 178.9 (1977=100) in July, seasonally adjusted, an increase of 0.5 percent from June. For the 12 months ended in July, the increase was 3.6 percent. In dollars of constant purchasing power, the HEI decreased 0.5 percent during the 12-month period ending in June. The HEI is computed so as to exclude the effects of two types of changes unrelated to underlying wage rate movements--fluctuations in manufacturing overtime and interindustry employment shifts. (See table B-4.)

Beginning in 1989, the Hourly Earnings Index will no longer be published in this release. For further information, see "Employment Cost Index Series to Replace Hourly Earnings Index," Monthly Labor Review, July 1988, pp. 32-34. ECI data are currently published quarterly in a news release, in the Monthly Labor Review, and in Current Wage Developments.

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The Employment Situation for August 1988 will be released on Friday, September 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 (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 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 (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 establishment 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 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 BLS 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 BLS. It is available for \$8.50 per issue or \$22.00 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

## HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status and sex	Not seasonally adjusted			Seasonally adjusted <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>TOTAL</b>									
Noninstitutional population <sup>2</sup> .....	184,605	186,247	186,402	184,605	185,847	185,964	186,088	186,247	186,402
Labor force <sup>2</sup> .....	123,825	124,713	125,561	121,610	122,639	123,055	122,692	123,157	123,357
Participation rate <sup>3</sup> .....	67.1	67.0	67.4	65.9	66.0	66.2	65.9	66.1	66.2
Total employed <sup>2</sup> .....	116,372	117,894	118,739	114,359	115,839	116,445	115,909	116,703	116,732
Employment-population ratio <sup>4</sup> .....	63.0	63.3	63.7	61.9	62.3	62.6	62.3	62.7	62.6
Resident Armed Forces .....	1,720	1,685	1,673	1,720	1,736	1,732	1,714	1,685	1,673
Civilian employed .....	114,652	116,209	117,066	112,639	114,103	114,713	114,195	115,018	115,059
Agriculture .....	3,754	3,546	3,541	3,212	3,204	3,228	3,035	3,085	3,046
Nonagricultural industries .....	110,898	112,663	113,524	109,427	110,899	111,485	111,160	111,933	112,014
Unemployed .....	7,453	6,819	6,823	7,251	6,801	6,610	6,783	6,455	6,625
Unemployment rate <sup>5</sup> .....	6.0	5.5	5.4	6.0	5.5	5.4	5.5	5.2	5.4
Not in labor force .....	60,779	61,534	60,841	62,995	63,208	62,909	63,396	63,090	63,045
<b>Men, 16 years and over</b>									
Noninstitutional population <sup>2</sup> .....	88,534	89,367	89,445	88,534	89,168	89,225	89,287	89,367	89,445
Labor force <sup>2</sup> .....	69,338	69,624	70,205	67,671	68,148	68,445	68,318	68,429	68,521
Participation rate <sup>3</sup> .....	78.3	77.9	78.5	76.4	76.4	76.7	76.5	76.6	76.6
Total employed <sup>2</sup> .....	65,375	65,996	66,676	63,711	64,332	64,892	64,583	64,934	65,002
Employment-population ratio <sup>4</sup> .....	73.8	73.8	74.5	72.0	72.1	72.7	72.3	72.7	72.7
Resident Armed Forces .....	1,561	1,523	1,512	1,561	1,573	1,569	1,553	1,523	1,512
Civilian employed .....	63,814	64,473	65,164	62,150	62,759	63,323	63,030	63,411	63,490
Unemployed .....	3,963	3,628	3,529	3,960	3,816	3,553	3,736	3,495	3,519
Unemployment rate <sup>5</sup> .....	5.7	5.2	5.0	5.9	5.6	5.2	5.5	5.1	5.1
<b>Women, 16 years and over</b>									
Noninstitutional population <sup>2</sup> .....	96,071	96,880	96,957	96,071	96,679	96,739	96,801	96,880	96,957
Labor force <sup>2</sup> .....	54,488	55,089	55,356	53,939	54,491	54,610	54,374	54,728	54,836
Participation rate <sup>3</sup> .....	56.7	56.9	57.1	56.1	56.4	56.5	56.2	56.5	56.6
Total employed <sup>2</sup> .....	50,998	51,898	52,063	50,648	51,507	51,553	51,327	51,769	51,730
Employment-population ratio <sup>4</sup> .....	53.1	53.6	53.7	52.7	53.3	53.3	53.0	53.4	53.4
Resident Armed Forces .....	159	162	161	159	163	163	161	162	161
Civilian employed .....	50,839	51,736	51,902	50,489	51,344	51,390	51,166	51,607	51,569
Unemployed .....	3,490	3,191	3,294	3,291	2,985	3,057	3,047	2,960	3,106
Unemployment rate <sup>5</sup> .....	6.4	5.8	6.0	6.1	5.5	5.6	5.6	5.4	5.7

<sup>1</sup> The population and Armed Forces figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

<sup>2</sup> Includes members of the Armed Forces stationed in the United States.

<sup>3</sup> Labor force as a percent of the noninstitutional population.

<sup>4</sup> Total employment as a percent of the noninstitutional population.

<sup>5</sup> Unemployment as a percent of the labor force (including the resident Armed Forces).

## HOUSEHOLD DATA

## HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status, sex, and age	Not seasonally adjusted			Seasonally adjusted <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>TOTAL</b>									
Civilian noninstitutional population .....	182,885	184,562	184,729	182,885	184,111	184,232	184,374	184,562	184,729
Civilian labor force .....	122,105	123,028	123,888	119,890	120,903	121,323	120,978	121,472	121,684
Participation rate .....	66.8	66.7	67.1	65.6	65.7	65.9	65.6	65.8	65.9
Employed .....	114,652	116,209	117,066	112,639	114,103	114,713	114,195	115,018	115,059
Employment-population ratio <sup>2</sup> .....	62.7	63.0	63.4	61.6	62.0	62.3	61.9	62.3	62.3
Unemployed .....	7,453	6,819	6,823	7,251	6,801	6,610	6,783	6,455	6,625
Unemployment rate .....	6.1	5.5	5.5	6.0	5.6	5.4	5.6	5.3	5.4
<b>Men, 20 years and over</b>									
Civilian noninstitutional population .....	79,625	80,526	80,608	79,625	80,260	80,326	80,402	80,526	80,608
Civilian labor force .....	62,645	63,134	63,320	62,106	62,497	62,791	62,662	62,667	62,769
Participation rate .....	78.7	78.4	78.6	78.0	77.9	78.2	77.9	77.8	77.9
Employed .....	59,458	60,350	60,622	58,783	59,407	59,883	59,590	59,797	59,954
Employment-population ratio <sup>2</sup> .....	74.7	74.9	75.2	73.8	74.0	74.5	74.1	74.3	74.4
Agriculture .....	2,556	2,416	2,454	2,333	2,253	2,255	2,181	2,208	2,247
Nonagricultural industries .....	56,902	57,934	58,168	56,450	57,154	57,627	57,409	57,588	57,706
Unemployed .....	3,187	2,784	2,697	3,323	3,089	2,909	3,072	2,870	2,815
Unemployment rate .....	5.1	4.4	4.3	5.4	4.9	4.6	4.9	4.6	4.5
<b>Women, 20 years and over</b>									
Civilian noninstitutional population .....	88,632	89,502	89,588	88,632	89,261	89,307	89,382	89,502	89,588
Civilian labor force .....	49,564	50,420	50,426	49,886	50,542	50,612	50,441	50,642	50,775
Participation rate .....	55.9	56.3	56.3	56.3	56.6	56.7	56.4	56.6	56.7
Employed .....	46,811	47,972	47,783	47,206	48,132	48,170	47,960	48,169	48,199
Employment-population ratio <sup>2</sup> .....	52.8	53.6	53.3	53.3	53.9	53.9	53.7	53.8	53.8
Agriculture .....	749	704	650	620	656	692	587	616	542
Nonagricultural industries .....	46,062	47,268	47,133	46,586	47,476	47,478	47,373	47,553	47,657
Unemployed .....	2,753	2,448	2,643	2,680	2,411	2,442	2,481	2,473	2,576
Unemployment rate .....	5.6	4.9	5.2	5.4	4.8	4.8	4.9	4.9	5.1
<b>Both sexes, 16 to 19 years</b>									
Civilian noninstitutional population .....	14,628	14,534	14,533	14,628	14,591	14,598	14,590	14,534	14,533
Civilian labor force .....	9,896	9,474	10,143	7,898	7,865	7,919	7,875	8,163	8,141
Participation rate .....	67.6	65.2	69.8	54.0	53.9	54.2	54.0	56.2	56.0
Employed .....	8,383	7,887	8,661	6,650	6,564	6,660	6,645	7,051	6,907
Employment-population ratio <sup>2</sup> .....	57.3	54.3	59.6	45.5	45.0	45.6	45.5	48.5	47.5
Agriculture .....	448	425	438	259	295	280	267	260	257
Nonagricultural industries .....	7,934	7,461	8,223	6,391	6,269	6,380	6,378	6,791	6,650
Unemployed .....	1,513	1,588	1,482	1,248	1,301	1,259	1,230	1,112	1,234
Unemployment rate .....	15.3	16.8	14.6	15.8	16.5	15.9	15.6	13.6	15.2

<sup>1</sup> The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.



## HOUSEHOLD DATA

## HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	Not seasonally adjusted			Seasonally adjusted <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>WHITE</b>									
Civilian noninstitutional population .....	157,058	158,166	158,279	157,058	157,868	157,943	158,034	158,166	158,279
Civilian labor force .....	104,987	106,015	106,381	103,248	104,171	104,574	104,209	104,691	104,603
Participation rate .....	66.8	67.0	67.2	65.7	66.0	66.2	65.9	66.2	66.1
Employed .....	99,609	101,069	101,432	97,917	99,274	99,751	99,297	99,932	99,725
Employment-population ratio <sup>2</sup> .....	63.4	63.9	64.1	62.3	62.9	63.2	62.8	63.2	63.0
Unemployed .....	5,378	4,946	4,949	5,331	4,897	4,824	4,913	4,759	4,878
Unemployment rate .....	5.1	4.7	4.7	5.2	4.7	4.6	4.7	4.5	4.7
<b>Men, 20 years and over</b>									
Civilian labor force .....	54,625	55,085	55,196	54,198	54,522	54,699	54,618	54,662	54,732
Participation rate .....	78.9	78.8	78.9	78.3	78.2	78.5	78.3	78.2	78.3
Employed .....	52,250	53,016	53,182	51,670	52,245	52,538	52,314	52,491	52,603
Employment-population ratio <sup>2</sup> .....	75.5	75.9	76.1	74.7	75.0	75.4	75.0	75.1	75.2
Unemployed .....	2,375	2,069	2,014	2,528	2,277	2,161	2,304	2,171	2,129
Unemployment rate .....	4.3	3.8	3.6	4.7	4.2	4.0	4.2	4.0	3.9
<b>Women, 20 years and over</b>									
Civilian labor force .....	41,927	42,742	42,568	42,241	42,841	42,986	42,827	42,921	42,887
Participation rate .....	55.3	55.9	55.7	55.7	56.2	56.3	56.1	56.2	56.1
Employed .....	39,975	41,018	40,671	40,343	41,183	41,297	41,104	41,183	41,040
Employment-population ratio <sup>2</sup> .....	52.7	53.7	53.2	53.2	54.0	54.1	53.8	53.9	53.7
Unemployed .....	1,951	1,724	1,897	1,898	1,658	1,689	1,723	1,738	1,847
Unemployment rate .....	4.7	4.0	4.5	4.5	3.9	3.9	4.0	4.0	4.3
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force .....	8,436	8,188	8,617	6,809	6,807	6,889	6,764	7,108	6,983
Participation rate .....	70.5	69.0	72.6	56.9	57.2	58.0	57.0	59.9	58.9
Employed .....	7,384	7,034	7,579	5,904	5,845	5,916	5,879	6,258	6,081
Employment-population ratio <sup>2</sup> .....	61.7	59.3	63.9	49.3	49.1	49.8	49.5	52.7	51.3
Unemployed .....	1,051	1,154	1,038	905	962	973	885	850	902
Unemployment rate .....	12.5	14.1	12.0	13.3	14.1	14.1	13.1	12.0	12.9
Men .....	12.1	14.2	12.9	13.5	15.7	14.5	13.8	12.8	14.6
Women .....	12.8	13.9	11.1	13.1	12.4	13.7	12.4	11.1	11.1
<b>BLACK</b>									
Civilian noninstitutional population .....	20,373	20,683	20,715	20,373	20,596	20,622	20,650	20,683	20,715
Civilian labor force .....	13,468	13,231	13,700	13,039	13,098	13,078	13,069	12,989	13,293
Participation rate .....	66.1	64.0	66.1	64.0	63.6	63.4	63.3	62.8	64.2
Employed .....	11,645	11,597	12,031	11,381	11,420	11,482	11,452	11,489	11,774
Employment-population ratio <sup>2</sup> .....	57.2	56.1	58.1	55.9	55.4	55.7	55.5	55.5	56.8
Unemployed .....	1,823	1,634	1,669	1,658	1,678	1,597	1,617	1,500	1,519
Unemployment rate .....	13.5	12.4	12.2	12.7	12.8	12.2	12.4	11.5	11.4
<b>Men, 20 years and over</b>									
Civilian labor force .....	6,159	6,128	6,161	6,061	6,127	6,163	6,107	6,064	6,070
Participation rate .....	76.3	74.6	74.9	75.1	75.0	75.3	74.5	73.8	73.8
Employed .....	5,463	5,518	5,569	5,384	5,429	5,511	5,449	5,458	5,492
Employment-population ratio <sup>2</sup> .....	67.7	67.2	67.7	66.7	66.4	67.3	66.5	66.5	66.8
Unemployed .....	696	610	592	677	699	652	658	606	578
Unemployment rate .....	11.3	10.0	9.6	11.2	11.4	10.6	10.8	10.0	9.5
<b>Women, 20 years and over</b>									
Civilian labor force .....	6,104	6,043	6,284	6,116	6,136	6,093	6,059	6,074	6,307
Participation rate .....	60.2	58.7	61.0	60.4	59.9	59.4	59.0	59.0	61.2
Employed .....	5,388	5,405	5,616	5,417	5,465	5,407	5,414	5,421	5,650
Employment-population ratio <sup>2</sup> .....	53.2	52.5	54.5	53.5	53.3	52.7	52.7	52.7	54.8
Unemployed .....	716	638	668	699	671	686	645	652	657
Unemployment rate .....	11.7	10.6	10.6	11.4	10.9	11.3	10.6	10.7	10.4
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force .....	1,205	1,061	1,254	862	834	822	903	852	917
Participation rate .....	55.6	48.6	57.4	39.8	38.3	37.7	41.4	39.0	42.0
Employed .....	794	673	846	580	526	564	589	610	632
Employment-population ratio <sup>2</sup> .....	36.6	30.8	38.7	26.8	24.2	25.9	27.0	28.0	28.9
Unemployed .....	411	387	409	282	308	258	314	242	285
Unemployment rate .....	34.1	36.5	32.6	32.7	36.9	31.4	34.8	28.4	31.1
Men .....	33.9	35.1	32.3	32.4	39.0	27.6	33.3	30.4	30.4
Women .....	34.3	38.2	32.9	33.1	35.0	35.5	36.6	25.9	31.8

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—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	Not seasonally adjusted			Seasonally adjusted <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>HISPANIC ORIGIN</b>									
Civilian noninstitutional population .....	12,887	13,306	13,344	12,887	13,192	13,230	13,268	13,306	13,344
Civilian labor force .....	8,583	9,132	9,133	8,447	8,803	8,828	8,859	9,027	8,984
Participation rate .....	66.6	68.6	68.4	65.5	66.7	66.7	66.8	67.8	67.3
Employed .....	7,883	8,334	8,396	7,762	8,079	8,010	8,058	8,219	8,264
Employment-population ratio <sup>2</sup> .....	61.2	62.6	62.9	60.2	61.2	60.5	60.7	61.8	61.9
Unemployed .....	700	798	737	685	724	818	801	809	720
Unemployment rate .....	8.2	8.7	8.1	8.1	8.2	9.3	9.0	9.0	8.0

<sup>1</sup> The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional

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

(In thousands)

Category	Not seasonally adjusted			Seasonally adjusted					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>CHARACTERISTIC</b>									
Civilian employed, 16 years and over .....	114,652	116,209	117,066	112,639	114,103	114,713	114,195	115,018	115,059
Married men, spouse present .....	40,402	40,606	40,657	40,262	40,481	40,459	40,267	40,485	40,535
Married women, spouse present .....	27,744	28,426	28,138	28,283	28,805	28,859	28,567	28,713	28,654
Women who maintain families .....	6,031	6,055	6,127	6,033	6,160	6,055	5,957	6,085	6,145
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>									
Agriculture:									
Wage and salary workers .....	1,967	1,862	1,853	1,625	1,648	1,678	1,526	1,562	1,539
Self-employed workers .....	1,572	1,466	1,482	1,424	1,423	1,385	1,346	1,359	1,346
Unpaid family workers .....	215	217	207	153	142	155	159	167	148
Nonagricultural industries:									
Wage and salary workers .....	102,350	103,780	104,659	100,825	102,279	102,538	101,927	103,000	103,133
Government .....	16,355	16,672	16,433	16,876	16,908	17,015	16,887	17,064	16,959
Private industries .....	85,996	87,108	88,226	83,949	85,371	85,523	85,040	85,935	86,174
Private households .....	1,353	1,227	1,251	1,212	1,175	1,092	1,156	1,150	1,123
Other industries .....	84,643	85,881	86,975	82,737	84,196	84,431	83,884	84,786	85,051
Self-employed workers .....	8,279	8,568	8,605	8,216	8,366	8,637	8,917	8,577	8,528
Unpaid family workers .....	269	315	259	266	248	281	307	301	255
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>									
All industries:									
Part time for economic reasons .....	6,219	5,785	6,141	5,428	5,343	5,194	4,844	5,317	5,382
Slack work .....	2,387	2,251	2,450	2,429	2,520	2,236	2,227	2,364	2,490
Could only find part-time work .....	3,452	3,059	3,309	2,683	2,535	2,502	2,315	2,637	2,581
Voluntary part time .....	11,826	13,013	12,357	14,437	14,603	15,016	14,790	14,507	15,070
Nonagricultural industries:									
Part time for economic reasons .....	5,848	5,492	5,869	5,154	5,106	4,924	4,623	5,076	5,185
Slack work .....	2,203	2,098	2,292	2,261	2,325	2,121	2,120	2,199	2,351
Could only find part-time work .....	3,290	2,935	3,214	2,599	2,475	2,397	2,236	2,566	2,545
Voluntary part time .....	11,324	12,520	11,911	13,953	14,141	14,592	14,338	14,083	14,669

<sup>1</sup> Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

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Table A-5. Range of unemployment measures based on varying definitions of unemployment and the labor force, seasonally adjusted

(Percent)

Measure	Quarterly averages					Monthly data		
	1987			1988		1988		
	II	III	IV	I	II	May	June	July
U-1 Persons unemployed 15 weeks or longer as a percent of the civilian labor force .....	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.3
U-2 Job losers as a percent of the civilian labor force .....	3.0	2.8	2.7	2.6	2.5	2.7	2.5	2.5
U-3 Unemployed persons 25 years and over as a percent of the civilian labor force .....	4.8	4.6	4.5	4.4	4.2	4.3	4.1	4.2
U-4 Unemployed full-time jobseekers as a percent of the full-time civilian labor force .....	5.9	5.6	5.5	5.4	5.1	5.2	4.9	5.0
<b>U-5a Total unemployed as a percent of the labor force, including the resident Armed Forces</b> .....	6.2	5.9	5.8	5.6	5.4	5.5	5.2	5.4
<b>U-5b Total unemployed as a percent of the civilian labor force</b> .....	6.3	6.0	5.9	5.7	5.5	5.6	5.3	5.4
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 .....	8.5	8.2	8.1	8.0	7.6	7.6	7.5	7.6
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 percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force .....	9.3	9.0	8.8	8.8	8.3	N.A.	N.A.	N.A.

N.A. = not available.

Table A-6. Selected unemployment indicators, seasonally adjusted

Category	Number of unemployed persons (in thousands)			Unemployment rates <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>CHARACTERISTIC</b>									
Total, 16 years and over .....	7,251	6,455	6,625	6.0	5.6	5.4	5.6	5.3	5.4
Men, 16 years and over .....	3,960	3,495	3,519	6.0	5.7	5.3	5.6	5.2	5.3
Men, 20 years and over .....	3,323	2,870	2,815	5.4	4.9	4.6	4.9	4.6	4.5
Women, 16 years and over .....	3,291	2,960	3,106	6.1	5.5	5.6	5.6	5.4	5.7
Women, 20 years and over .....	2,680	2,473	2,576	5.4	4.8	4.8	4.9	4.9	5.1
Both sexes, 16 to 19 years .....	1,248	1,112	1,234	15.8	16.5	15.9	15.6	13.6	15.2
Married men, spouse present .....	1,611	1,311	1,268	3.8	3.4	3.0	3.3	3.1	3.0
Married women, spouse present .....	1,240	1,117	1,212	4.2	4.0	3.8	3.9	3.7	4.1
Women who maintain families .....	620	515	577	9.3	7.5	8.7	8.4	7.8	8.6
Full-time workers .....	5,852	5,111	5,174	5.7	5.3	5.1	5.2	4.9	5.0
Part-time workers .....	1,393	1,345	1,443	8.1	7.7	7.4	7.7	7.8	8.1
Labor force time lost <sup>2</sup> .....	--	--	--	6.9	6.5	6.2	6.4	6.3	6.4
<b>INDUSTRY</b>									
Nonagricultural private wage and salary workers .....	5,454	4,878	4,955	6.1	5.6	5.3	5.7	5.4	5.4
Goods-producing industries .....	2,037	1,758	1,833	7.1	6.5	6.5	6.6	6.0	6.3
Mining .....	68	51	42	7.9	7.9	8.4	10.4	6.7	5.3
Construction .....	674	654	630	10.8	10.7	10.6	10.5	10.2	10.2
Manufacturing .....	1,295	1,054	1,161	6.0	5.2	5.3	5.4	4.8	5.2
Durable goods .....	773	569	657	6.0	5.2	4.8	4.9	4.4	5.0
Nondurable goods .....	522	485	504	5.9	5.3	6.0	6.0	5.4	5.6
Service-producing industries .....	3,417	3,120	3,122	5.6	5.2	4.7	5.2	5.1	5.0
Transportation and public utilities .....	276	273	223	4.4	4.2	3.8	4.4	4.1	3.5
Wholesale and retail trade .....	1,548	1,351	1,415	6.8	6.8	5.9	6.3	5.9	6.2
Finance and service industries .....	1,593	1,497	1,484	5.1	4.2	4.1	4.6	4.6	4.5
Government workers .....	601	499	538	3.4	2.8	3.0	2.9	2.8	3.1
Agricultural wage and salary workers .....	198	168	186	10.9	11.0	10.6	13.9	9.7	10.8

<sup>1</sup> Unemployment as a percent of the civilian labor force.

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

<sup>2</sup> Aggregate hours lost by the unemployed and persons on part time for

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Table A-7. Duration of unemployment

(Numbers in thousands)

Weeks of unemployment	Not seasonally adjusted			Seasonally adjusted					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>DURATION</b>									
Less than 5 weeks .....	3,415	3,661	3,164	3,186	3,009	3,125	3,075	3,066	2,965
5 to 14 weeks .....	2,276	1,631	2,186	2,144	2,101	1,956	2,110	1,890	2,078
15 weeks and over .....	1,762	1,527	1,473	1,920	1,722	1,540	1,609	1,512	1,629
15 to 26 weeks .....	787	732	685	945	887	725	784	727	838
27 weeks and over .....	975	795	788	975	835	816	825	785	791
Average (mean) duration, in weeks .....	13.4	12.5	12.7	14.2	13.7	13.4	13.8	12.9	13.6
Median duration, in weeks .....	5.9	4.7	5.6	6.6	6.6	5.6	5.9	6.0	6.3
<b>PERCENT DISTRIBUTION</b>									
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	45.8	53.7	46.4	43.9	44.0	47.2	45.3	47.4	44.4
5 to 14 weeks .....	30.5	23.9	32.0	29.6	30.8	29.5	31.1	29.2	31.1
15 weeks and over .....	23.6	22.4	21.6	26.5	25.2	23.3	23.7	23.4	24.4
15 to 26 weeks .....	10.6	10.7	10.0	13.0	13.0	10.9	11.5	11.2	12.6
27 weeks and over .....	13.1	11.7	11.5	13.4	12.2	12.3	12.1	12.1	11.9

Table A-8. Reason for unemployment

(Numbers in thousands)

Reasons	Not seasonally adjusted			Seasonally adjusted					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
<b>NUMBER OF UNEMPLOYED</b>									
Job losers .....	3,385	2,848	2,957	3,529	3,139	2,916	3,236	3,059	3,087
On layoff .....	839	726	781	916	899	821	793	863	852
Other job losers .....	2,546	2,122	2,176	2,613	2,240	2,095	2,443	2,196	2,235
Job leavers .....	1,068	884	975	989	1,075	993	926	944	904
Reentrants .....	1,911	1,876	1,880	1,930	1,756	1,784	1,789	1,723	1,901
New entrants .....	1,089	1,210	1,011	844	887	915	807	777	776
<b>PERCENT DISTRIBUTION</b>									
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	45.5	41.7	43.3	48.4	45.8	44.1	47.9	47.0	46.3
On layoff .....	11.3	10.6	11.4	12.6	13.1	12.4	11.7	13.3	12.8
Other job losers .....	34.2	31.1	31.9	35.8	32.7	31.7	36.2	33.8	33.5
Job leavers .....	14.3	13.0	14.3	13.6	15.7	15.0	13.7	14.5	13.6
Reentrants .....	25.6	27.5	27.5	26.5	25.6	27.0	26.5	26.5	28.5
New entrants .....	14.6	17.8	14.8	11.6	12.9	13.8	11.9	11.9	11.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>									
Job losers .....	2.8	2.3	2.4	2.9	2.6	2.4	2.7	2.5	2.5
Job leavers .....	.9	.7	.8	.8	.9	.8	.8	.8	.7
Reentrants .....	1.6	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.6
New entrants .....	.9	1.0	.8	.7	.7	.8	.7	.6	.6

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Table A-9. Unemployed persons by sex and age, seasonally adjusted

Sex and age	Number of unemployed persons (in thousands)			Unemployment rates <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
Total, 16 years and over .....	7,251	6,455	6,625	6.0	5.6	5.4	5.6	5.3	5.4
16 to 24 years .....	2,701	2,341	2,468	11.8	11.7	11.2	11.3	10.3	10.9
16 to 19 years .....	1,248	1,112	1,234	15.8	16.5	15.9	15.6	13.6	15.2
16 to 17 years .....	586	512	569	17.5	17.6	17.8	16.1	15.4	17.5
18 to 19 years .....	624	627	630	13.9	15.8	14.2	15.3	12.9	13.0
20 to 24 years .....	1,453	1,229	1,234	9.7	9.1	8.7	8.9	8.4	8.5
25 years and over .....	4,538	4,077	4,150	4.7	4.2	4.1	4.3	4.1	4.2
25 to 54 years .....	4,078	3,654	3,691	5.0	4.5	4.3	4.5	4.4	4.4
55 years and over .....	462	442	461	3.1	2.9	2.9	3.5	2.9	3.1
Men, 16 years and over .....	3,960	3,495	3,519	6.0	5.7	5.3	5.6	5.2	5.3
16 to 24 years .....	1,415	1,247	1,334	11.9	12.1	11.2	11.6	10.5	11.3
16 to 19 years .....	637	625	704	15.9	17.8	15.8	16.2	14.7	16.6
16 to 17 years .....	292	290	302	17.1	18.5	17.2	16.7	17.0	17.9
18 to 19 years .....	307	360	370	13.7	17.3	14.7	15.8	14.2	14.7
20 to 24 years .....	778	622	630	9.9	9.1	8.8	9.1	8.2	8.4
25 years and over .....	2,535	2,235	2,174	4.7	4.3	4.1	4.3	4.1	3.9
25 to 54 years .....	2,238	1,940	1,906	4.9	4.5	4.2	4.4	4.2	4.1
55 years and over .....	300	279	275	3.4	3.4	3.1	3.7	3.2	3.1
Women, 16 years and over .....	3,291	2,960	3,106	6.1	5.5	5.6	5.6	5.4	5.7
16 to 24 years .....	1,286	1,094	1,134	11.7	11.3	11.3	11.0	10.0	10.5
16 to 19 years .....	611	487	530	15.7	15.2	16.0	15.0	12.4	13.6
16 to 17 years .....	294	222	267	18.0	16.6	18.4	15.5	13.7	17.0
18 to 19 years .....	317	267	260	14.1	14.2	13.7	14.7	11.6	11.2
20 to 24 years .....	675	607	604	9.5	9.1	8.7	8.8	8.7	8.7
25 years and over .....	2,003	1,842	1,976	4.7	4.1	4.2	4.3	4.2	4.5
25 to 54 years .....	1,840	1,714	1,785	5.0	4.4	4.5	4.5	4.6	4.7
55 years and over .....	162	163	186	2.6	2.3	2.7	3.2	2.6	3.0

<sup>1</sup> 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 seasonally adjusted			Seasonally adjusted <sup>1</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988	July 1988
Civilian noninstitutional population .....	25,826	26,396	26,451	25,826	26,243	26,289	26,340	26,396	26,451
Civilian labor force .....	17,118	17,013	17,508	16,611	16,779	16,733	16,698	16,735	17,021
Participation rate .....	66.3	64.5	66.2	64.3	63.9	63.7	63.4	63.4	64.4
Employed .....	15,043	15,140	15,633	14,725	14,853	14,939	14,818	15,017	15,319
Employment-population ratio <sup>2</sup> .....	58.2	57.4	59.1	57.0	56.6	56.8	56.3	56.9	57.9
Unemployed .....	2,076	1,873	1,874	1,886	1,926	1,795	1,879	1,718	1,701
Unemployment rate .....	12.1	11.0	10.7	11.4	11.5	10.7	11.3	10.3	10.0
Not in labor force .....	8,708	9,383	8,943	9,215	9,464	9,556	9,642	9,661	9,430

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

## HOUSEHOLD DATA

## HOUSEHOLD DATA

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

(Numbers in thousands)

Occupation	Civilian employed		Unemployed		Unemployment rate	
	July 1987	July 1988	July 1987	July 1988	July 1987	July 1988
Total, 16 years and over <sup>1</sup>	114,652	117,066	7,453	6,823	6.1	5.5
Managerial and professional specialty	27,692	29,006	698	677	2.5	2.3
Executive, administrative, and managerial	13,696	14,541	310	316	2.2	2.1
Professional specialty	13,997	14,465	388	361	2.7	2.4
Technical, sales, and administrative support	35,308	35,880	1,589	1,537	4.3	4.1
Technicians and related support	3,525	3,659	67	89	1.9	2.4
Sales occupations	13,602	13,926	681	626	4.8	4.3
Administrative support, including clerical	18,181	18,295	840	822	4.4	4.3
Service occupations	15,330	15,635	1,250	1,173	7.5	7.0
Private household	1,004	992	62	60	5.8	5.7
Protective service	1,972	2,028	85	79	4.2	3.7
Service, except private household and protective	12,354	12,615	1,103	1,034	8.2	7.6
Precision production, craft, and repair	13,892	14,134	788	676	5.4	4.6
Mechanics and repairers	4,478	4,623	208	141	4.4	3.0
Construction trades	5,251	5,364	387	338	6.9	5.9
Other precision production, craft, and repair	4,163	4,146	194	198	4.5	4.6
Operators, fabricators, and laborers	18,102	18,432	1,760	1,445	8.9	7.3
Machine operators, assemblers, and inspectors	8,289	8,211	774	640	8.5	7.2
Transportation and material moving occupations	4,766	4,900	335	277	6.6	5.4
Handlers, equipment cleaners, helpers, and laborers	5,047	5,321	651	527	11.4	9.0
Construction laborers	867	971	161	124	15.7	11.4
Other handlers, equipment cleaners, helpers, and laborers	4,180	4,350	490	403	10.5	8.5
Farming, forestry, and fishing	4,328	3,979	258	255	5.6	6.0

<sup>1</sup> 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 nonveterans by age, not seasonally adjusted

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
	July 1987	July 1988	July 1987	July 1988	July 1987	July 1988	July 1987	July 1988	July 1987	July 1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over	7,843	7,905	7,260	7,281	6,877	7,044	383	237	5.3	3.3
30 to 44 years	6,210	5,910	5,956	5,653	5,623	5,455	333	198	5.6	3.5
30 to 34 years	915	685	871	646	786	621	85	25	9.8	3.9
35 to 39 years	2,589	2,142	2,484	2,034	2,348	1,957	136	77	5.5	3.8
40 to 44 years	2,706	3,083	2,601	2,973	2,489	2,877	112	96	4.3	3.2
45 years and over	1,633	1,995	1,304	1,628	1,254	1,589	50	39	3.8	2.4
<b>NONVETERANS</b>										
Total, 30 to 44 years	19,510	20,450	18,474	19,358	17,665	18,630	809	728	4.4	3.8
30 to 34 years	8,869	9,159	8,494	8,735	8,103	8,385	391	350	4.6	4.0
35 to 39 years	6,231	6,810	5,882	6,451	5,643	6,210	239	241	4.1	3.7
40 to 44 years	4,410	4,481	4,098	4,172	3,919	4,035	179	137	4.4	3.3

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.

## HOUSEHOLD DATA

## HOUSEHOLD DATA

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

(Numbers in thousands)

State and employment status	Not seasonally adjusted <sup>1</sup>			Seasonally adjusted <sup>2</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May. 1988	June 1988	July 1988
<b>California</b>									
Civilian noninstitutional population .....	20,562	20,972	21,012	20,562	20,860	20,894	20,931	20,972	21,012
Civilian labor force .....	13,960	14,176	14,299	13,799	13,976	14,077	14,142	14,105	14,131
Employed .....	13,123	13,405	13,461	13,037	13,272	13,362	13,251	13,315	13,374
Unemployed .....	837	771	838	762	704	715	891	790	757
Unemployment rate .....	6.0	5.4	5.9	5.5	5.0	5.1	6.3	5.6	5.4
<b>Florida</b>									
Civilian noninstitutional population .....	9,443	9,671	9,693	9,443	9,609	9,628	9,648	9,671	9,693
Civilian labor force .....	5,987	6,142	6,199	5,890	6,066	6,093	6,086	6,115	6,102
Employed .....	5,631	5,847	5,886	5,581	5,771	5,773	5,780	5,831	5,837
Unemployed .....	356	295	313	309	295	320	306	284	265
Unemployment rate .....	5.9	4.8	5.1	5.2	4.9	5.3	5.0	4.6	4.3
<b>Illinois</b>									
Civilian noninstitutional population .....	8,742	8,781	8,786	8,742	8,770	8,773	8,776	8,781	8,786
Civilian labor force .....	5,911	5,808	5,869	5,801	5,749	5,746	5,733	5,709	5,760
Employed .....	5,489	5,405	5,507	5,378	5,330	5,332	5,352	5,332	5,394
Unemployed .....	422	404	362	423	419	414	381	377	366
Unemployment rate .....	7.1	6.9	6.2	7.3	7.3	7.2	6.6	6.6	6.4
<b>Massachusetts</b>									
Civilian noninstitutional population .....	4,589	4,603	4,604	4,589	4,599	4,599	4,600	4,603	4,604
Civilian labor force .....	3,143	3,217	3,200	3,080	3,190	3,163	3,124	3,188	3,137
Employed .....	3,063	3,106	3,085	3,000	3,096	3,072	3,036	3,076	3,020
Unemployed .....	80	110	116	80	94	91	88	112	117
Unemployment rate .....	2.6	3.4	3.6	2.6	2.9	2.9	2.8	3.5	3.7
<b>Michigan</b>									
Civilian noninstitutional population .....	6,935	6,993	6,999	6,935	6,977	6,981	6,986	6,993	6,999
Civilian labor force .....	4,601	4,594	4,658	4,536	4,488	4,556	4,498	4,553	4,587
Employed .....	4,194	4,267	4,296	4,159	4,117	4,220	4,205	4,253	4,251
Unemployed .....	407	326	362	377	371	336	293	300	336
Unemployment rate .....	8.8	7.1	7.3	8.3	8.3	7.4	6.5	6.6	7.3
<b>New Jersey</b>									
Civilian noninstitutional population .....	6,005	6,039	6,042	6,005	6,029	6,032	6,034	6,039	6,042
Civilian labor force .....	4,037	4,024	4,053	3,950	3,985	3,969	3,922	3,955	3,969
Employed .....	3,855	3,878	3,884	3,790	3,826	3,831	3,776	3,810	3,825
Unemployed .....	182	147	168	160	159	138	146	145	144
Unemployment rate .....	4.5	3.6	4.2	4.1	4.0	3.5	3.7	3.7	3.6
<b>New York</b>									
Civilian noninstitutional population .....	13,759	13,774	13,777	13,759	13,770	13,769	13,770	13,774	13,777
Civilian labor force .....	8,659	8,556	8,714	8,474	8,465	8,363	8,429	8,516	8,537
Employed .....	8,267	8,266	8,350	8,086	8,142	8,072	8,071	8,220	8,171
Unemployed .....	393	289	365	388	323	291	358	296	366
Unemployment rate .....	4.5	3.4	4.2	4.6	3.8	3.5	4.2	3.5	4.3
<b>North Carolina</b>									
Civilian noninstitutional population .....	4,814	4,883	4,889	4,814	4,864	4,869	4,875	4,883	4,889
Civilian labor force .....	3,369	3,343	3,411	3,295	3,296	3,300	3,297	3,318	3,332
Employed .....	3,210	3,227	3,302	3,150	3,171	3,177	3,183	3,213	3,235
Unemployed .....	159	116	109	145	125	123	114	105	97
Unemployment rate .....	4.7	3.5	3.2	4.4	3.8	3.7	3.5	3.2	2.9
<b>Ohio</b>									
Civilian noninstitutional population .....	8,159	8,199	8,203	8,159	8,188	8,190	8,194	8,199	8,203
Civilian labor force .....	5,341	5,325	5,336	5,252	5,369	5,277	5,248	5,271	5,252
Employed .....	4,981	5,002	5,064	4,886	4,958	4,945	4,922	4,959	4,973
Unemployed .....	359	323	272	366	411	332	326	312	279
Unemployment rate .....	6.7	6.1	5.1	7.0	7.7	6.3	6.2	5.9	5.3

See footnotes at end of table.

## HOUSEHOLD DATA

## HOUSEHOLD DATA

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

(Numbers in thousands)

State and employment status	Not seasonally adjusted <sup>1</sup>			Seasonally adjusted <sup>2</sup>					
	July 1987	June 1988	July 1988	July 1987	Mar. 1988	Apr. 1988	May. 1988	June 1988	July 1988
<b>Pennsylvania</b>									
Civilian noninstitutional population .....	9,293	9,322	9,325	9,293	9,314	9,315	9,317	9,322	9,325
Civilian labor force .....	5,794	5,786	5,882	5,633	5,728	5,753	5,661	5,702	5,735
Employed .....	5,458	5,461	5,568	5,311	5,435	5,477	5,375	5,410	5,433
Unemployed .....	335	325	315	322	293	276	286	292	302
Unemployment rate .....	5.8	5.6	5.3	5.7	5.1	4.8	5.1	5.1	5.3
<b>Texas</b>									
Civilian noninstitutional population .....	12,028	12,067	12,072	12,028	12,056	12,058	12,061	12,067	12,072
Civilian labor force .....	8,493	8,597	8,492	8,289	8,252	8,334	8,372	8,518	8,277
Employed .....	7,752	7,911	7,930	7,600	7,582	7,711	7,770	7,926	7,757
Unemployed .....	741	686	562	689	670	623	602	592	520
Unemployment rate .....	8.7	8.0	6.6	8.3	8.1	7.5	7.2	6.9	6.3

<sup>1</sup> These are the official Bureau of Labor Statistics' estimates used in the administration of Federal fund allocation programs.

<sup>2</sup> The population figures are not adjusted for seasonal variation; therefore,

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



## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

Table B-1. Employees on nonagricultural payrolls by industry

(In thousands)

Industry	Not seasonally adjusted				Seasonally adjusted					
	July 1987	May 1988	June 1988p/	July 1988p/	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988p/	July 1988p/
Total.....	102,212	105,956	106,882	106,098	102,430	105,020	105,281	105,489	106,021	106,301
Total private.....	86,057	88,268	89,459	89,607	85,421	87,700	87,973	88,139	88,661	88,921
Goods-producing industries.....	24,997	25,470	25,900	25,896	24,788	25,330	25,435	25,466	25,590	25,671
Mining.....	727	735	742	744	722	733	737	739	740	74
Oil and gas extraction.....	406.7	418.2	421.4	422.6	408	419	421	425	425	42
Construction.....	5,288	5,289	5,507	5,628	4,997	5,192	5,238	5,237	5,305	5,31
General building contractors.....	1,392.9	1,388.9	1,452.3	1,464.5	1,320	1,383	1,400	1,394	1,411	1,38
Manufacturing.....	18,982	19,446	19,651	19,524	19,069	19,405	19,460	19,490	19,545	19,61
Production workers.....	12,893	13,271	13,425	13,289	13,006	13,251	13,280	13,302	13,341	13,40
Durable goods.....	11,127	11,476	11,581	11,505	11,190	11,411	11,459	11,477	11,514	11,57
Production workers.....	7,352	7,655	7,730	7,654	7,432	7,598	7,632	7,649	7,677	7,74
Lumber and wood products.....	759.5	756.0	775.9	774.4	740	755	758	757	758	75
Furniture and fixtures.....	510.0	534.4	535.8	529.0	524	534	535	537	537	54
Stone, clay, and glass products.....	589.2	591.3	599.8	598.1	579	585	587	585	587	58
Primary metal industries.....	741.5	778.4	785.8	779.3	751	772	773	776	781	79
Blast furnaces and basic steel products.....	272.3	281.0	283.0	283.3	272	281	281	281	282	28
Fabricated metal products.....	1,387.9	1,447.8	1,462.0	1,447.4	1,404	1,439	1,444	1,448	1,456	1,46
Machinery, except electrical.....	2,011.9	2,125.1	2,145.9	2,150.1	2,020	2,099	2,111	2,121	2,135	2,15
Electrical and electronic equipment.....	2,064.3	2,106.6	2,125.9	2,115.1	2,075	2,115	2,117	2,115	2,120	2,12
Transportation equipment.....	2,006.6	2,048.1	2,050.5	2,025.0	2,032	2,025	2,045	2,048	2,046	2,05
Motor vehicles and equipment.....	826.0	853.1	856.6	838.6	842	835	848	851	849	85
Instruments and related products.....	694.4	707.6	714.5	712.4	695	705	706	709	712	71
Miscellaneous manufacturing.....	361.2	381.1	385.1	376.4	370	382	383	381	382	38
Nondurable goods.....	7,855	7,970	8,070	8,019	7,879	7,994	8,001	8,013	8,031	8,04
Production workers.....	5,541	5,616	5,695	5,635	5,574	5,653	5,648	5,653	5,664	5,66
Food and kindred products.....	1,667.4	1,603.3	1,650.9	1,684.6	1,629	1,647	1,648	1,643	1,648	1,64
Tobacco manufactures.....	51.4	49.2	49.7	49.5	55	54	54	52	53	5
Textile mill products.....	717.1	728.6	730.6	715.8	730	729	727	728	727	72
Apparel and other textile products.....	1,081.0	1,103.0	1,106.9	1,055.6	1,116	1,106	1,100	1,100	1,096	1,08
Paper and allied products.....	679.1	687.0	697.0	691.5	678	687	687	689	691	69
Printing and publishing.....	1,506.3	1,557.1	1,565.6	1,564.6	1,510	1,548	1,554	1,559	1,564	1,56
Chemicals and allied products.....	1,031.6	1,057.9	1,072.1	1,077.1	1,025	1,052	1,056	1,060	1,066	1,07
Petroleum and coal products.....	168.1	167.2	169.4	170.7	165	164	165	166	166	167
Rubber and misc. plastics products.....	812.6	870.1	879.8	871.7	824	860	864	870	874	88
Leather and leather products.....	139.9	146.3	147.9	137.4	147	147	146	146	146	144
Service-producing industries.....	77,215	80,486	80,982	80,202	77,642	79,690	79,846	80,023	80,431	80,632
Transportation and public utilities.....	5,377	5,559	5,611	5,593	5,373	5,530	5,543	5,556	5,578	5,593
Transportation.....	3,134	3,315	3,348	3,322	3,151	3,285	3,298	3,308	3,328	3,342
Communication and public utilities.....	2,243	2,244	2,263	2,271	2,222	2,245	2,245	2,248	2,250	2,251
Wholesale trade.....	5,908	6,110	6,178	6,204	5,874	6,061	6,089	6,115	6,145	6,169
Durable goods.....	3,467	3,635	3,676	3,700	3,450	3,591	3,610	3,635	3,658	3,682
Nondurable goods.....	2,441	2,475	2,502	2,504	2,424	2,470	2,479	2,480	2,487	2,487
Retail trade.....	18,636	19,130	19,367	19,391	18,543	19,050	19,093	19,130	19,213	19,295
General merchandise stores.....	2,379.7	2,462.6	2,482.7	2,488.2	2,437	2,543	2,546	2,541	2,546	2,549
Food stores.....	2,975.8	3,040.8	3,089.0	3,112.5	2,962	3,044	3,049	3,053	3,080	3,100
Automotive dealers and service stations.....	2,031.8	2,076.4	2,099.3	2,117.6	2,007	2,055	2,064	2,070	2,076	2,092
Eating and drinking places.....	6,296.7	6,450.2	6,566.5	6,550.4	6,128	6,319	6,326	6,336	6,357	6,378
Finance, insurance, and real estate.....	6,660	6,657	6,740	6,771	6,570	6,651	6,650	6,656	6,676	6,678
Finance.....	3,321	3,292	3,325	3,335	3,288	3,306	3,302	3,299	3,305	3,302
Insurance.....	2,034	2,067	2,078	2,081	2,024	2,060	2,065	2,067	2,072	2,071
Real estate.....	1,305	1,298	1,337	1,355	1,258	1,285	1,283	1,290	1,299	1,305
Services.....	24,479	25,342	25,663	25,752	24,273	25,078	25,163	25,216	25,459	25,522
Business services.....	5,214.8	5,432.2	5,504.7	5,530.0	5,179	5,405	5,420	5,443	5,477	5,492
Health services.....	6,870.9	7,146.0	7,235.2	7,287.8	6,836	7,088	7,126	7,153	7,206	7,252
Government.....	16,156	17,688	17,423	16,491	17,009	17,320	17,308	17,350	17,360	17,375
Federal.....	2,983	2,969	2,986	2,988	2,941	2,970	2,963	2,957	2,951	2,947
State.....	3,752	4,107	3,913	3,830	3,965	4,031	4,041	4,050	4,030	4,049
Local.....	9,421	10,612	10,524	9,673	10,103	10,319	10,304	10,343	10,379	10,379

p = preliminary.

Table B-2. Average weekly hours of production or nonsupervisory workers<sup>1/</sup> on private nonagricultural payrolls by industry

Industry	Not seasonally adjusted				Seasonally adjusted					
	July 1987	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>
Total private.....	35.0	34.6	35.0	35.1	34.8	34.6	34.9	34.7	34.7	34.9
Mining.....	42.0	42.2	42.6	42.2	(2)	(2)	(2)	(2)	(2)	(2)
Construction.....	38.6	38.2	38.7	38.5	(2)	(2)	(2)	(2)	(2)	(2)
Manufacturing.....	40.6	40.9	41.2	40.7	41.0	40.9	41.2	41.0	41.1	41.1
Overtime hours.....	3.6	3.7	3.9	3.8	3.8	3.7	3.9	3.9	3.9	3.9
Durable goods.....	41.0	41.7	41.9	41.2	41.6	41.5	42.0	41.8	41.8	41.7
Overtime hours.....	3.6	4.0	4.1	3.8	3.8	3.8	4.2	4.2	4.1	4.0
Lumber and wood products.....	40.4	40.5	40.9	40.2	40.6	40.1	40.6	40.1	40.2	40.4
Furniture and fixtures.....	39.3	39.1	39.3	38.7	40.0	39.3	39.5	39.5	39.3	39.4
Stone, clay, and glass products.....	42.6	42.8	42.8	42.5	42.3	42.3	42.5	42.3	42.4	42.2
Primary metal industries.....	42.8	43.5	43.7	43.0	43.2	43.3	43.5	43.6	43.6	43.4
Blast furnaces and basic steel products..	43.7	43.9	44.5	43.7	43.7	43.7	43.8	43.9	44.3	43.7
Fabricated metal products.....	40.8	41.7	42.1	40.9	41.5	41.6	42.0	41.9	42.0	41.6
Machinery, except electrical.....	41.8	42.4	42.5	42.2	42.5	42.5	42.8	42.6	42.4	42.9
Electrical and electronic equipment.....	40.3	40.7	41.1	40.2	40.9	40.9	41.2	41.0	41.1	40.8
Transportation equipment.....	41.0	43.0	43.0	41.8	41.8	42.1	43.0	43.0	43.0	42.7
Motor vehicles and equipment.....	40.9	44.3	44.3	42.1	41.8	42.3	44.1	44.0	44.3	43.0
Instruments and related products.....	40.8	41.2	41.5	40.9	41.5	41.4	41.8	41.4	41.4	41.6
Miscellaneous manufacturing.....	38.8	39.0	39.4	38.8	39.5	39.2	39.4	39.2	39.4	39.5
Nondurable goods.....	40.0	39.9	40.2	40.0	40.3	40.1	40.3	40.0	40.1	40.3
Overtime hours.....	3.6	3.4	3.6	3.7	3.7	3.6	3.6	3.6	3.6	3.8
Food and kindred products.....	40.0	40.1	40.4	40.5	40.1	40.1	40.1	40.1	40.4	40.6
Tobacco manufactures.....	37.3	39.5	39.8	39.0	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products.....	41.6	40.7	40.9	40.4	42.3	41.2	41.6	40.8	40.6	41.1
Apparel and other textile products.....	36.9	36.8	37.3	36.9	37.2	37.0	37.4	36.8	37.0	37.2
Paper and allied products.....	43.2	43.1	43.0	43.0	43.5	43.2	43.3	43.3	43.1	43.3
Printing and publishing.....	37.9	37.5	37.6	37.8	38.1	38.1	38.2	37.7	38.0	38.0
Chemicals and allied products.....	41.9	42.0	42.4	42.0	42.2	42.5	42.1	42.0	42.4	42.3
Petroleum and coal products.....	44.9	44.1	45.0	45.2	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products.....	41.0	41.6	41.7	41.3	41.6	41.7	42.0	41.7	41.6	41.9
Leather and leather products.....	38.7	37.6	37.9	37.7	38.4	37.9	37.3	37.3	36.9	37.4
Transportation and public utilities.....	39.6	39.2	39.5	39.7	39.3	38.8	39.5	39.4	39.3	39.4
Wholesale trade.....	38.2	38.0	38.2	38.3	38.1	38.1	38.3	38.0	38.0	38.2
Retail trade.....	30.0	28.9	29.4	30.0	29.3	29.0	29.2	29.0	29.1	29.3
Finance, insurance, and real estate.....	36.2	35.8	35.9	36.2	(2)	(2)	(2)	(2)	(2)	(2)
Services.....	32.8	32.4	32.7	33.0	32.5	32.4	32.7	32.5	32.5	32.7

<sup>1/</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance; insurance, and real estate; and services. These groups account for approximately four-fifths of the total employees on private nonagricultural payrolls.

<sup>2/</sup> 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 separated with sufficient precision.  
p = preliminary.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

Table B-3. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1/</sup> on private nonagricultural payrolls by industry

Industry	Average hourly earnings				Average weekly earnings			
	July 1987	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>	July 1987	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>
Total private.....	\$8.90	\$9.26	\$9.23	\$9.25	\$311.50	\$320.40	\$323.05	\$324.68
Seasonally adjusted.....	8.96	9.27	9.28	9.32	311.81	321.67	322.02	325.27
Mining.....	12.41	12.54	12.55	12.61	521.22	529.19	534.63	532.14
Construction.....	12.60	12.87	12.87	12.94	486.36	491.63	498.07	498.19
Manufacturing.....	9.87	10.14	10.16	10.18	400.72	414.73	418.59	414.33
Durable goods.....	10.38	10.67	10.70	10.70	425.58	444.94	448.33	440.84
Lumber and wood products.....	8.45	8.54	8.59	8.64	341.38	345.87	351.33	347.33
Furniture and fixtures.....	7.66	7.87	7.89	7.94	301.04	307.72	310.08	307.28
Stone, clay, and glass products.....	10.30	10.45	10.47	10.55	438.78	447.26	448.12	448.38
Primary metal industries.....	11.93	12.13	12.16	12.19	510.60	527.66	531.59	524.17
Blast furnaces and basic steel products.....	13.63	13.96	13.97	14.00	595.63	612.84	621.67	611.80
Fabricated metal products.....	9.93	10.23	10.27	10.19	405.14	426.59	432.37	416.77
Machinery, except electrical.....	10.67	10.90	10.93	10.94	446.01	462.16	464.53	461.67
Electrical and electronic equipment.....	9.86	10.12	10.15	10.20	397.36	411.88	417.17	413.04
Transportation equipment.....	12.82	13.31	13.38	13.30	525.62	572.33	575.34	555.94
Motor vehicles and equipment.....	13.35	14.10	14.17	13.94	546.02	624.63	627.73	586.87
Instruments and related products.....	9.71	9.87	9.90	10.04	396.17	406.64	410.85	410.64
Miscellaneous manufacturing.....	7.72	7.94	7.93	8.00	299.54	309.66	312.44	310.40
Nondurable goods.....	9.18	9.38	9.39	9.46	367.20	374.26	377.48	378.40
Food and kindred products.....	8.88	9.15	9.12	9.14	355.20	366.92	368.45	370.17
Tobacco manufactures.....	15.17	15.24	15.78	16.14	565.84	601.98	628.04	629.46
Textile mill products.....	7.13	7.31	7.33	7.30	296.61	297.52	299.80	294.92
Apparel and other textile products.....	5.87	6.05	6.08	6.02	216.60	222.64	226.78	222.14
Paper and allied products.....	11.49	11.64	11.63	11.74	496.37	501.68	500.09	504.82
Printing and publishing.....	10.24	10.43	10.44	10.47	388.10	391.13	392.54	395.77
Chemicals and allied products.....	12.37	12.59	12.60	12.71	518.30	528.78	534.24	533.82
Petroleum and coal products.....	14.51	14.93	15.04	15.24	651.50	658.41	676.80	688.85
Rubber and misc. plastics products.....	8.96	9.04	9.06	9.10	367.36	376.06	377.80	375.83
Leather and leather products.....	5.99	6.27	6.27	6.26	231.81	235.75	237.63	236.00
Transportation and public utilities.....	12.00	12.28	12.29	12.31	475.20	481.38	485.46	488.71
Wholesale trade.....	9.56	9.87	9.85	9.94	365.19	375.06	376.27	380.70
Retail trade.....	6.07	6.28	6.26	6.28	182.10	181.49	184.04	188.40
Finance, insurance, and real estate.....	8.63	9.09	8.96	9.00	312.41	325.42	321.66	325.80
Services.....	8.34	8.84	8.78	8.80	273.55	286.42	287.11	290.40

<sup>1/</sup> See footnote 1, table B-2.

p = preliminary.

Table B-4. Hourly Earnings Index for production or nonsupervisory workers<sup>1/</sup> on private nonagricultural payrolls by industry

(1977=100)

Industry	Not seasonally adjusted					Seasonally adjusted						Percent change from: June 1988-July 1988
	July 1987	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>	Percent change from: July 1987-July 1988	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988 <sup>p/</sup>	July 1988 <sup>p/</sup>	
Total private nonfarm:												
Current dollars.....	172.6	178.6	178.2	178.9	3.6	173.2	177.0	178.0	178.7	178.6	179.5	0.5
Constant (1977) dollars.....	93.3	93.6	93.0	N.A.	(2)	93.7	93.5	93.6	93.6	93.2	N.A.	(3)
Mining.....	181.8	184.2	184.5	185.5	2.0	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Construction.....	154.0	157.5	157.5	158.2	2.8	154.9	157.5	157.8	157.5	158.0	159.2	.8
Manufacturing.....	174.7	178.5	178.7	179.1	2.5	174.5	177.3	177.9	178.4	178.8	179.0	.1
Transportation and public utilities.....	174.9	180.5	180.4	180.6	3.2	176.2	179.4	180.6	181.6	181.3	181.9	.3
Wholesale trade.....	176.5	182.2	181.6	183.1	3.7	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Retail trade.....	160.5	165.8	165.6	166.2	3.6	161.1	163.8	164.8	165.4	165.7	166.8	.7
Finance, insurance, and real estate.....	185.5	195.9	193.7	194.5	4.9	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Services.....	179.1	189.5	188.4	189.2	5.6	180.9	186.9	188.3	189.9	189.3	191.1	.9

<sup>1/</sup> See footnote 1, table B-2.<sup>2/</sup> Change is -.5 percent from June 1987 to June 1988, the latest month available.<sup>3/</sup> Change is -.4 percent from May 1988 to June 1988, the latest month available.<sup>4/</sup> These series are not seasonally adjusted since the seasonal component is small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision. N.A. Data not available.

p = preliminary.

NOTE: Beginning in 1989, publication of the Hourly Earnings Index series will be discontinued.

Table B-5. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1/</sup> on private nonagricultural payrolls by industry

(1977=100)

Industry	Not seasonally adjusted				Seasonally adjusted					
	July 1987	May 1988	June 1988 <sup>E/</sup>	July 1988 <sup>E/</sup>	July 1987	Mar. 1988	Apr. 1988	May 1988	June 1988 <sup>E/</sup>	July 1988 <sup>E/</sup>
Total private.....	122.9	124.4	127.5	128.1	121.1	123.6	125.1	124.4	125.4	126.3
Goods-producing industries.....	99.8	102.3	105.1	103.8	99.3	101.6	102.7	102.1	103.2	103.4
Mining.....	81.5	83.5	85.2	84.6	81.9	83.2	85.9	84.4	85.2	85.2
Construction.....	145.9	143.3	152.1	155.1	133.0	139.1	141.1	139.3	144.0	142.1
Manufacturing.....	91.7	95.3	97.0	94.8	93.6	95.2	96.1	95.7	96.1	96.7
Durable goods.....	88.5	93.8	95.2	92.5	90.7	92.7	94.0	93.9	94.2	94.9
Lumber and wood products.....	105.0	103.9	108.0	105.6	102.4	103.1	104.7	103.2	103.6	103.2
Furniture and fixtures.....	107.3	111.5	112.8	109.2	112.7	112.3	113.2	113.7	113.1	115.0
Stone, clay, and glass products.....	88.3	89.8	91.3	90.2	86.1	87.5	88.3	87.5	88.1	88.1
Primary metal industries.....	62.5	68.2	69.3	67.3	64.1	66.9	67.6	68.1	68.7	69.2
Blast furnaces and basic steel products..	51.4	54.6	55.9	54.9	51.3	54.1	54.8	54.6	55.4	54.9
Fabricated metal products.....	85.3	91.7	93.6	90.0	87.9	90.8	91.8	92.1	92.8	92.7
Machinery, except electrical.....	83.9	91.4	92.4	91.8	86.2	90.4	91.5	91.6	91.6	94.1
Electrical and electronic equipment.....	97.5	101.2	103.0	100.3	100.2	101.9	102.8	102.3	103.0	103.3
Transportation equipment.....	92.9	100.5	100.5	95.3	97.1	96.8	100.0	100.2	100.1	99.8
Motor vehicles and equipment.....	80.2	91.1	91.5	84.3	83.3	84.8	89.8	89.9	90.5	88.7
Instruments and related products.....	100.4	105.4	107.5	105.4	102.8	105.2	106.5	106.1	106.6	107.9
Miscellaneous manufacturing.....	78.5	83.6	85.3	81.8	82.2	84.5	85.0	83.9	84.7	85.8
Nondurable goods.....	96.6	97.6	99.6	98.2	97.8	98.8	99.1	98.4	98.9	99.5
Food and kindred products.....	102.2	97.2	101.7	104.4	99.6	100.9	101.0	100.5	101.7	101.7
Tobacco manufactures.....	66.1	66.2	67.6	65.6	75.5	74.8	73.8	71.0	71.4	75.3
Textile mill products.....	81.0	80.3	81.1	78.3	84.0	81.7	82.2	80.6	80.0	81.2
Apparel and other textile products.....	83.2	85.0	86.5	80.8	87.0	85.7	86.2	84.7	84.9	84.6
Paper and allied products.....	100.3	100.7	102.3	101.2	101.0	101.3	101.4	101.5	101.3	101.9
Printing and publishing.....	130.1	134.5	135.0	135.2	131.6	136.0	136.5	134.9	136.4	136.4
Chemicals and allied products.....	94.4	97.3	99.5	98.7	94.5	97.9	97.1	97.4	98.8	98.9
Petroleum and coal products.....	88.3	85.5	88.6	90.6	85.9	83.5	84.9	85.3	86.6	88.0
Rubber and misc. plastics products.....	112.4	122.8	124.7	122.1	116.1	121.8	122.9	123.1	123.4	126.3
Leather and leather products.....	56.3	56.4	57.4	52.7	59.1	56.9	55.5	55.5	54.9	55.2
Service-producing industries.....	135.7	136.7	139.8	141.5	133.2	135.8	137.4	136.8	137.8	139.0
Transportation and public utilities.....	110.1	112.8	115.0	115.0	109.5	111.2	113.5	113.5	113.6	114.4
Wholesale trade.....	120.3	124.2	126.4	127.3	119.2	123.6	124.8	124.4	125.1	126.2
Retail trade.....	126.5	124.7	128.7	131.2	123.0	124.8	126.0	125.1	126.2	127.5
Finance, insurance, and real estate.....	143.5	139.5	142.0	144.5	141.4	139.6	141.1	140.1	140.4	142.1
Services.....	155.8	158.8	162.1	163.9	152.9	157.2	159.0	158.3	159.9	161.1

<sup>1/</sup> See footnote 1, table B-2

p = preliminary.

Table B-6. Indexes of diffusion: Percent of industries in which employment<sup>1/</sup> increased

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span:												
1986.....	57.0	47.3	49.5	50.8	51.9	46.8	51.9	54.1	51.4	53.0	58.9	58.9
1987.....	50.8	59.2	61.1	62.4	62.4	61.6	70.8	62.2	68.1	67.3	67.8	68.4
1988.....	61.6	61.6	62.2	63.8	58.1	<sup>E/</sup> 69.7	<sup>E/</sup> 63.8					
Over 3-month span:												
1986.....	50.0	47.6	45.7	46.2	46.2	46.2	48.1	51.9	50.5	55.9	59.7	59.2
1987.....	57.6	57.0	65.1	69.2	68.1	71.9	73.8	76.8	74.1	76.5	78.1	73.0
1988.....	71.6	66.8	67.0	66.8	<sup>E/</sup> 71.6	<sup>E/</sup> 70.8						
Over 6-month span:												
1986.....	48.1	47.3	43.8	42.7	43.2	47.0	46.5	50.0	55.9	53.2	55.9	58.4
1987.....	64.6	64.3	63.0	70.3	72.4	77.3	78.4	79.7	82.7	77.8	77.0	76.5
1988.....	73.5	70.3	<sup>E/</sup> 70.5	<sup>E/</sup> 73.8								
Over 12-month span:												
1986.....	42.2	41.6	43.8	44.9	45.7	48.6	46.8	48.6	51.6	53.8	56.5	57.8
1987.....	63.8	67.3	69.5	73.5	76.8	76.8	78.9	78.9	79.7	78.4	77.8	<sup>E/</sup> 81.9
1988.....	<sup>E/</sup> 78.6											

<sup>1/</sup> Number of employees, seasonally adjusted for 1, 3, and 6 month spans, on the payrolls of 185 private non-agricultural industries. Data for the 12-month span are unadjusted.

NOTE: Figures are the percent of industries with employment rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans.  
p=preliminary.