

# News

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## THE EMPLOYMENT SITUATION: NOVEMBER 1988

Employment rose sharply in November, and the unemployment rate was little changed, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall unemployment rate was 5.3 percent, and the civilian worker rate was 5.4 percent. Both have shown little movement since the spring.

Nonagricultural payroll jobs, as measured by the survey of business establishments, increased by 465,000 to 107.4 million. Total civilian employment, as measured by the household survey, rose by a similar amount to 116.0 million.

### Unemployment (Household Survey Data)

The civilian worker unemployment rate and the number of unemployed persons were essentially unchanged in November at 5.4 percent and 6.6 million persons, respectively. These series have moved within relatively narrow ranges for most of this year--5.3 to 5.6 percent for the jobless rate and 6.5 to 6.8 million persons for the level of unemployment. (See table A-2.)

Jobless rates for adult men (4.8 percent), adult women (4.8 percent), teenagers (13.9 percent), whites (4.6 percent), blacks (11.2 percent), and Hispanics (8.1 percent) showed little or no movement in November. Whereas all of these groups have shown some improvement over the past year, the largest drop occurred among teenagers--3 percentage points. Most of this was among white teens, as the rate for black teenagers continues to remain above 30 percent. (See tables A-2 and A-3.)

The number of newly unemployed persons, those unemployed less than 5 weeks, has been between 3.0 and 3.2 million every month since mid-1987. In contrast, the number of long-term unemployed, those jobless for more than half a year, has declined over this period, from 1.1 million to about 700,000. (See table A-7.)

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

Civilian employment expanded by 455,000 to 116.0 million in November, and the employment-population ratio gained 0.2 percentage point to reach a record high of 62.6 percent. Most of November's employment gain occurred among adult women, whose employment increased by 380,000. Over the year, total civilian employment has increased by 2.5 million. The number of persons voluntarily working part-time schedules, at 15.5 million in November, was 1.1 million more than a year earlier. (See tables A-2 and A-4.)

After remaining essentially unchanged from August to October, the civilian labor force jumped by 560,000 to 122.6 million in November. As a result, the labor force participation rate rose 0.3 percentage point to a record 66.5 percent. Over the year, the labor force has expanded by 2.0 million, 1.4 million of whom were adult women. (See table A-2.)

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

Category	Quarterly averages		Monthly data			Oct.- Nov. change
	1988		1988			
	II	III	Sept.	Oct.	Nov.	
HOUSEHOLD DATA						
	Thousands of persons					
Labor force 1/.....	122,968	123,569	123,628	123,699	124,277	578
Total employment 1/..	116,352	116,878	117,032	117,208	117,681	473
Civilian labor force...	121,258	121,880	121,924	122,012	122,572	560
Civilian employment..	114,642	115,189	115,328	115,521	115,976	455
Unemployment.....	6,616	6,691	6,596	6,491	6,595	104
Not in labor force.....	63,131	62,960	63,038	63,102	62,672	-430
Discouraged workers..	910	930	N.A.	N.A.	N.A.	N.A.
	Percent of labor force					
Unemployment rates:						
All workers 1/.....	5.4	5.4	5.3	5.2	5.3	0.1
All civilian workers..	5.5	5.5	5.4	5.3	5.4	.1
Adult men.....	4.7	4.6	4.5	4.6	4.8	.2
Adult women.....	4.9	4.9	4.8	4.7	4.8	.1
Teenagers.....	15.0	15.6	15.7	14.9	13.9	-1.0
White.....	4.6	4.8	4.8	4.6	4.6	0
Black.....	12.0	11.2	10.8	11.0	11.2	.2
Hispanic origin....	9.1	7.9	7.4	7.7	8.1	.4
ESTABLISHMENT DATA						
	Thousands of jobs					
Nonfarm employment....	105,609	106,478	106,737	p106,975	p107,438	p463
Goods-producing.....	25,498	25,650	25,648	p25,741	p25,860	p119
Service-producing....	80,111	80,828	81,089	, 31,234	p81,578	p344
	Hours of work					
Average weekly hours:						
Total private.....	34.8	34.7	34.7	p34.9	p34.7	p-0.2
Manufacturing.....	41.1	41.1	41.2	p41.2	p41.2	p0
Overtime.....	3.9	3.9	3.9	p4.0	p4.0	p0

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

N.A.=not available.

### Industry Payroll Employment (Establishment Survey Data)

Total nonagricultural employment rose by 465,000 in November, seasonally adjusted, to a level of 107.4 million. Increases were widespread, occurring in both goods-producing and service-producing industries. (See table B-1.)

The service-producing sector added 345,000 jobs in November, after seasonal adjustment. Following more moderate growth in recent months, employment gains in the services industry itself totaled 195,000, with increases spread across most of its major industries. Elsewhere in the sector, transportation and public utilities jobs increased by 40,000, mostly in the transportation component. Job growth of 30,000 in wholesale trade occurred mainly in the distribution of durable goods. Employment in finance, insurance, and real estate rose by about 20,000 for the second month in a row. Employment in retail trade and in government was little changed after seasonal adjustment.

In the goods-producing sector, manufacturing employment rose sharply for the second month in a row. The 70,000 increase reflected widespread gains among durable and nondurable goods industries, with particular strength in machinery, electrical equipment, and lumber and wood products. Construction employment rose by 55,000, after seasonal adjustment, as seasonal cutbacks were smaller than usual. In contrast, the number of mining jobs continued to edge downward in November, having declined by nearly 20,000 in the past 4 months, all of it in the oil and gas extraction component.

### Weekly Hours (Establishment Survey Data)

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls dropped by 0.2 hour in November, seasonally adjusted, to 34.7 hours, the same level as in September. In manufacturing, both the workweek and overtime were unchanged at historically high levels of 41.2 and 4.0 hours, respectively. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 127.0 (1977=100), was essentially unchanged in November, as the drop in the workweek about offset the gain in employment. The index for manufacturing rose by 0.5 percent to 97.4. (See table B-5.)

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

Average hourly earnings of private production or nonsupervisory workers were little changed in November on a seasonally adjusted basis. Average weekly earnings declined 0.7 percent, reflecting the decrease in the workweek. Prior to seasonal adjustment, average hourly earnings remained at \$9.45, and average weekly earnings fell by \$1.89 to \$327.92. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 181.5 (1977=100) in November, seasonally adjusted, unchanged from October. For the 12 months ended in November, the increase was 3.3 percent. In dollars of constant purchasing power, the HEI decreased 0.4 percent during the 12-month period ending in October. 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. (Beginning in 1989, the Hourly Earnings Index will no longer be published in this release.) (See table B-4.)

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The Employment Situation for December 1988 will be released on Friday, January 6, 1989, at 8:30 A.M. (EST). Release dates for the balance of 1989 are as follows:

Feb. 3	May 5	Aug. 4	Nov. 3
March 10	June 2	Sept. 1	Dec. 8
April 7	July 7	Oct. 6	

Revisions in Household Survey Data

In accordance with usual practice, the Employment Situation release of December data will incorporate annual revisions in seasonally adjusted unemployment and other labor force series. Seasonally adjusted data for the most recent 5 years are subject to revision.

Changes in Data Presentation

Beginning with data for January 1989, this release will introduce a new table showing seasonally adjusted average hourly earnings series for major industry divisions, manufacturing earnings excluding overtime, and total private real earnings. This will coincide with the Bureau's discontinuance of the Hourly Earnings Index, now shown in table B-4.

In addition, a broader-based diffusion index of employment change, comprised of 349 private nonagricultural industries, will replace the 185-industry index shown in table B-6. This table will also include a diffusion index for manufacturing, comprised of 143 industries.

# 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 of 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 \$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

## 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					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>TOTAL</b>									
Noninstitutional population .....	185,225	186,801	186,949	185,225	186,402	186,522	186,666	186,801	186,949
Labor force .....	122,366	124,119	124,344	122,349	123,357	123,723	123,628	123,699	124,277
Participation rate .....	66.1	66.4	66.5	66.1	66.2	66.3	66.2	66.2	66.5
Total employed .....	115,564	117,937	118,019	115,259	116,732	116,872	117,032	117,208	117,681
Employment-population ratio <sup>1</sup> .....	62.4	63.1	63.1	62.2	62.6	62.7	62.7	62.7	62.9
Resident Armed Forces .....	1,755	1,687	1,705	1,755	1,673	1,692	1,704	1,687	1,705
Civilian employed .....	113,809	116,250	116,314	113,504	115,059	115,180	115,328	115,521	115,976
Agriculture .....	3,020	3,316	3,111	3,172	3,046	3,151	3,169	3,266	3,276
Nonagricultural industries .....	110,789	112,934	113,203	110,332	112,014	112,029	112,158	112,255	112,700
Unemployed .....	6,802	6,182	6,325	7,090	6,625	6,851	6,596	6,491	6,595
Unemployment rate <sup>2</sup> .....	5.6	5.0	5.1	5.8	5.4	5.5	5.3	5.2	5.3
Not in labor force .....	62,859	62,682	62,605	62,876	63,045	62,799	63,038	63,102	62,672
<b>Men, 16 years and over</b>									
Noninstitutional population .....	88,849	89,637	89,716	88,849	89,445	89,504	89,577	89,637	89,716
Labor force .....	67,753	68,451	68,448	68,019	68,521	68,723	68,608	68,544	68,721
Participation rate .....	76.3	76.4	76.3	76.6	76.6	76.8	76.6	76.5	76.6
Total employed .....	64,084	65,184	64,984	64,174	65,002	64,954	65,052	64,943	65,079
Employment-population ratio <sup>1</sup> .....	72.1	72.7	72.4	72.2	72.7	72.6	72.6	72.5	72.5
Resident Armed Forces .....	1,593	1,526	1,542	1,593	1,512	1,529	1,540	1,526	1,542
Civilian employed .....	62,491	63,658	63,442	62,581	63,490	63,425	63,512	63,417	63,537
Unemployed .....	3,669	3,267	3,464	3,845	3,519	3,768	3,555	3,600	3,642
Unemployment rate <sup>2</sup> .....	5.4	4.8	5.1	5.7	5.1	5.5	5.2	5.3	5.3
<b>Women, 16 years and over</b>									
Noninstitutional population .....	96,376	97,164	97,234	96,376	96,957	97,018	97,089	97,164	97,234
Labor force .....	54,613	55,668	55,895	54,330	54,836	55,000	55,020	55,155	55,556
Participation rate .....	56.7	57.3	57.5	56.4	56.6	56.7	56.7	56.8	57.1
Total employed .....	51,480	52,753	53,035	51,085	51,730	51,918	51,979	52,265	52,602
Employment-population ratio <sup>1</sup> .....	53.4	54.3	54.5	53.0	53.4	53.5	53.5	53.8	54.1
Resident Armed Forces .....	162	161	163	162	161	163	164	161	163
Civilian employed .....	51,318	52,592	52,872	50,923	51,569	51,755	51,815	52,104	52,439
Unemployed .....	3,133	2,915	2,860	3,245	3,106	3,083	3,041	2,890	2,954
Unemployment rate .....	5.7	5.2	5.1	6.0	5.7	5.6	5.5	5.2	5.3

<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					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>TOTAL</b>									
Civilian noninstitutional population .....	183,470	185,114	185,244	183,470	184,729	184,830	184,962	185,114	185,244
Civilian labor force .....	120,611	122,432	122,639	120,594	121,684	122,031	121,924	122,012	122,572
Participation rate .....	65.7	66.1	66.2	65.7	65.9	66.0	65.9	65.9	66.2
Employed .....	113,809	116,250	116,314	113,504	115,059	115,180	115,328	115,521	115,976
Employment-population ratio .....	62.0	62.8	62.8	61.9	62.3	62.3	62.4	62.4	62.6
Unemployed .....	6,802	6,182	6,325	7,090	6,625	6,851	6,596	6,491	6,595
Unemployment rate .....	5.6	5.0	5.2	5.9	5.4	5.6	5.4	5.3	5.4
<b>Men, 20 years and over</b>									
Civilian noninstitutional population .....	79,885	80,851	80,924	79,885	80,608	80,669	80,751	80,851	80,924
Civilian labor force .....	62,288	63,023	62,996	62,299	62,769	62,925	62,881	62,892	63,019
Participation rate .....	78.0	78.0	77.8	78.0	77.9	78.0	77.9	77.8	77.9
Employed .....	59,289	60,405	60,101	59,164	59,954	59,834	60,024	59,989	59,981
Employment-population ratio .....	74.2	74.7	74.3	74.1	74.4	74.2	74.3	74.2	74.1
Agriculture .....	2,234	2,400	2,268	2,297	2,247	2,311	2,236	2,330	2,321
Nonagricultural industries .....	57,056	58,005	57,833	56,867	57,706	57,523	57,788	57,659	57,660
Unemployed .....	2,999	2,618	2,895	3,135	2,815	3,090	2,857	2,902	3,038
Unemployment rate .....	4.8	4.2	4.6	5.0	4.5	4.9	4.5	4.6	4.8
<b>Women, 20 years and over</b>									
Civilian noninstitutional population .....	88,923	89,807	89,887	88,923	89,588	89,670	89,735	89,807	89,887
Civilian labor force .....	50,690	51,809	52,100	50,254	50,775	50,934	50,912	51,172	51,611
Participation rate .....	57.0	57.7	58.0	56.5	56.7	56.8	56.7	57.0	57.4
Employed .....	48,166	49,379	49,721	47,634	48,199	48,466	48,452	48,771	49,153
Employment-population ratio .....	54.2	55.0	55.3	53.6	53.8	54.0	54.0	54.3	54.7
Agriculture .....	624	678	642	636	542	586	633	647	657
Nonagricultural industries .....	47,542	48,701	49,078	46,998	47,657	47,881	47,818	48,124	48,496
Unemployed .....	2,525	2,430	2,379	2,620	2,576	2,468	2,461	2,401	2,458
Unemployment rate .....	5.0	4.7	4.6	5.2	5.1	4.8	4.8	4.7	4.8
<b>Both sexes, 16 to 19 years</b>									
Civilian noninstitutional population .....	14,663	14,456	14,433	14,663	14,533	14,491	14,477	14,456	14,433
Civilian labor force .....	7,633	7,599	7,542	8,041	8,141	8,172	8,131	7,948	7,942
Participation rate .....	52.1	52.6	52.3	54.8	56.0	56.4	56.2	55.0	55.0
Employed .....	6,354	6,465	6,492	6,706	6,907	6,879	6,853	6,761	6,842
Employment-population ratio .....	43.3	44.7	45.0	45.7	47.5	47.5	47.3	46.8	47.4
Agriculture .....	162	238	200	239	257	254	301	289	298
Nonagricultural industries .....	6,192	6,228	6,292	6,467	6,650	6,625	6,552	6,472	6,544
Unemployed .....	1,279	1,134	1,050	1,335	1,234	1,293	1,278	1,187	1,100
Unemployment rate .....	16.8	14.9	13.9	16.6	15.2	15.8	15.7	14.9	13.9

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

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>					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>WHITE</b>									
Civilian noninstitutional population .....	157,449	158,524	158,603	157,449	158,279	158,340	158,422	158,524	158,603
Civilian labor force .....	103,729	105,295	105,509	103,731	104,603	105,007	105,043	105,002	105,475
Participation rate .....	65.9	66.4	66.5	65.9	66.1	66.3	66.3	66.2	66.5
Employed .....	98,698	100,723	100,818	98,492	99,725	99,901	100,019	100,144	100,578
Employment-population ratio <sup>2</sup> .....	62.7	63.5	63.6	62.6	63.0	63.1	63.1	63.2	63.4
Unemployed .....	5,031	4,572	4,691	5,239	4,878	5,106	5,024	4,858	4,898
Unemployment rate .....	4.9	4.3	4.4	5.1	4.7	4.9	4.8	4.6	4.6
<b>Men, 20 years and over</b>									
Civilian labor force .....	54,349	54,924	54,921	54,381	54,732	54,825	54,850	54,878	54,945
Participation rate .....	78.3	78.4	78.3	78.3	78.3	78.4	78.3	78.3	78.3
Employed .....	52,050	52,930	52,700	51,969	52,603	52,464	52,594	52,614	52,595
Employment-population ratio .....	75.0	75.5	75.1	74.9	75.2	75.0	75.1	75.1	75.0
Unemployed .....	2,298	1,994	2,221	2,412	2,129	2,361	2,255	2,263	2,350
Unemployment rate .....	4.2	3.6	4.0	4.4	3.9	4.3	4.1	4.1	4.3
<b>Women, 20 years and over</b>									
Civilian labor force .....	42,850	43,814	44,071	42,464	42,887	43,177	43,170	43,258	43,662
Participation rate .....	56.3	57.2	57.4	55.8	56.1	56.4	56.4	56.4	56.9
Employed .....	41,058	42,093	42,378	40,606	41,040	41,399	41,371	41,553	41,917
Employment-population ratio .....	54.0	54.9	55.2	53.4	53.7	54.1	54.0	54.2	54.6
Unemployed .....	1,792	1,721	1,693	1,858	1,847	1,778	1,799	1,706	1,745
Unemployment rate .....	4.2	3.9	3.8	4.4	4.3	4.1	4.2	3.9	4.0
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force .....	6,531	6,557	6,518	6,886	6,983	7,005	7,023	6,866	6,868
Participation rate .....	54.7	55.7	55.5	57.7	58.9	59.2	59.5	58.3	58.5
Employed .....	5,590	5,700	5,741	5,917	6,081	6,038	6,054	5,977	6,066
Employment-population ratio <sup>2</sup> .....	46.8	48.4	48.9	49.6	51.3	51.0	51.3	50.8	51.6
Unemployed .....	941	857	777	969	902	967	969	889	802
Unemployment rate .....	14.4	13.1	11.9	14.1	12.9	13.8	13.8	12.9	11.7
Men .....	15.1	14.4	12.3	14.8	14.6	13.8	15.0	14.8	12.2
Women .....	13.7	11.6	11.5	13.3	11.1	13.8	12.5	11.0	11.2
<b>BLACK</b>									
Civilian noninstitutional population .....	20,482	20,786	20,811	20,482	20,715	20,736	20,762	20,786	20,811
Civilian labor force .....	13,178	13,307	13,350	13,193	13,293	13,262	13,191	13,290	13,348
Participation rate .....	64.3	64.0	64.1	64.4	64.2	64.0	63.5	63.9	64.1
Employed .....	11,632	11,873	11,923	11,589	11,774	11,764	11,771	11,829	11,850
Employment-population ratio <sup>2</sup> .....	56.8	57.1	57.3	56.6	56.8	56.7	56.7	56.9	56.9
Unemployed .....	1,545	1,434	1,427	1,604	1,519	1,498	1,419	1,461	1,497
Unemployment rate .....	11.7	10.8	10.7	12.2	11.4	11.3	10.8	11.0	11.2
<b>Men, 20 years and over</b>									
Civilian labor force .....	6,053	6,147	6,130	6,045	6,070	6,154	6,123	6,158	6,133
Participation rate .....	74.6	74.4	74.2	74.5	73.8	74.7	74.2	74.6	74.2
Employed .....	5,454	5,593	5,557	5,430	5,492	5,566	5,581	5,576	5,535
Employment-population ratio .....	67.2	67.7	67.2	66.9	66.8	67.6	67.7	67.5	66.9
Unemployed .....	599	554	574	615	578	588	542	582	599
Unemployment rate .....	9.9	9.0	9.4	10.2	9.5	9.6	8.8	9.4	9.8
<b>Women, 20 years and over</b>									
Civilian labor force .....	6,252 <sup>3</sup>	6,309	6,370	6,207	6,307	6,182	6,147	6,238	6,300
Participation rate .....	61.3	61.0	61.5	60.9	61.2	59.9	59.5	60.3	60.8
Employed .....	5,594	5,681	5,769	5,537	5,650	5,572	5,564	5,630	5,689
Employment-population ratio .....	54.9	54.9	55.7	54.3	54.8	54.0	53.8	54.4	54.9
Unemployed .....	658	628	601	670	657	610	583	607	611
Unemployment rate .....	10.5	10.0	9.4	10.8	10.4	9.9	9.5	9.7	9.7
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force .....	872	851	849	941	917	926	921	894	914
Participation rate .....	40.1	39.0	38.9	43.3	42.0	42.4	42.2	41.0	41.9
Employed .....	585	600	597	622	632	626	627	622	626
Employment-population ratio .....	26.9	27.5	27.4	28.6	28.9	28.7	28.7	28.5	28.7
Unemployed .....	287	252	252	319	285	300	294	272	288
Unemployment rate .....	32.9	29.5	29.7	33.9	31.1	32.4	31.9	30.4	31.5
Men .....	32.1	33.1	31.5	32.2	30.4	32.2	31.7	33.5	32.4
Women .....	33.7	25.2	27.5	35.8	31.8	32.7	32.2	26.5	30.4

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—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	Not seasonally adjusted			Seasonally adjusted					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>HISPANIC ORIGIN</b>									
Civilian noninstitutional population .....	13,043	13,458	13,495	13,043	13,344	13,381	13,419	13,458	13,495
Civilian labor force .....	8,788	9,109	9,201	8,763	8,984	8,935	9,063	9,058	9,172
Participation rate .....	67.4	67.7	68.2	67.2	67.3	66.8	67.5	67.3	68.0
Employed .....	8,002	8,428	8,462	7,978	8,264	8,185	8,394	8,361	8,428
Employment-population ratio .....	61.4	62.6	62.7	61.2	61.9	61.2	62.6	62.1	62.5
Unemployed .....	786	681	740	785	720	750	669	697	744
Unemployment rate .....	8.9	7.5	8.0	9.0	8.0	8.4	7.4	7.7	8.1

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

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					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>CHARACTERISTIC</b>									
Civilian employed, 16 years and over .....	113,809	116,250	116,314	113,504	115,059	115,180	115,328	115,521	115,976
Married men, spouse present .....	40,879	40,888	40,600	40,645	40,535	40,505	40,531	40,483	40,318
Married women, spouse present .....	28,688	29,399	29,439	28,175	28,654	28,832	28,801	28,851	28,975
Women who maintain families .....	6,218	6,386	6,423	6,237	6,145	6,282	6,251	6,367	6,410
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>									
Agriculture:									
Wage and salary workers .....	1,492	1,670	1,559	1,595	1,539	1,580	1,593	1,709	1,678
Self-employed workers .....	1,384	1,471	1,437	1,407	1,346	1,416	1,438	1,414	1,463
Unpaid family workers .....	144	175	115	155	148	163	134	183	123
Nonagricultural industries:									
Wage and salary workers .....	102,245	104,127	104,123	101,943	103,133	103,097	103,415	103,781	103,751
Government .....	17,307	17,472	17,657	17,118	16,959	17,112	17,103	17,231	17,430
Private industries .....	84,938	86,655	86,465	84,825	86,174	85,984	86,312	86,550	86,320
Private households .....	1,244	1,185	1,213	1,286	1,123	1,108	1,085	1,142	1,252
Other industries .....	83,694	85,470	85,252	83,539	85,051	84,877	85,227	85,408	85,069
Self-employed workers .....	8,316	8,583	8,793	8,222	8,528	8,491	8,575	8,366	8,629
Unpaid family workers .....	228	224	288	235	255	243	228	227	298
<b>PERSONS AT WORK PART TIME</b>									
All industries:									
Part time for economic reasons .....	5,430	4,668	4,955	5,534	5,382	5,181	5,053	4,893	5,025
Slack work .....	2,504	2,125	2,322	2,408	2,490	2,318	2,190	2,166	2,241
Could only find part-time work .....	2,569	2,246	2,237	2,696	2,581	2,491	2,356	2,382	2,347
Voluntary part time .....	15,639	16,164	16,721	14,523	15,070	15,021	15,314	15,078	15,540
Nonagricultural industries:									
Part time for economic reasons .....	5,152	4,452	4,699	5,241	5,185	4,959	4,814	4,662	4,761
Slack work .....	2,293	1,990	2,138	2,209	2,351	2,178	2,031	2,043	2,072
Could only find part-time work .....	2,510	2,174	2,180	2,597	2,545	2,429	2,284	2,298	2,264
Voluntary part time .....	15,232	15,691	16,298	14,064	14,669	14,585	14,861	14,596	15,063

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		
	III	IV	I	II	III	Sept.	Oct.	Nov.
U-1 Persons unemployed 15 weeks or longer as a percent of the civilian labor force .....	1.6	1.5	1.4	1.3	1.3	1.3	1.3	1.2
U-2 Job losers as a percent of the civilian labor force .....	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.5
U-3 Unemployed persons 25 years and over as a percent of the civilian labor force .....	4.6	4.5	4.4	4.2	4.3	4.2	4.1	4.2
U-4 Unemployed full-time jobseekers as a percent of the full-time civilian labor force .....	5.6	5.5	5.4	5.1	5.1	5.1	4.9	5.1
U-5a Total unemployed as a percent of the labor force, including the resident Armed Forces .....	5.9	5.8	5.6	5.4	5.4	5.3	5.2	5.3
U-5b Total unemployed as a percent of the civilian labor force .....	6.0	5.9	5.7	5.5	5.5	5.4	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 .....	8.2	8.1	8.0	7.6	7.6	7.5	7.3	7.5
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 .....	9.0	8.8	8.8	8.3	8.4	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					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>CHARACTERISTIC</b>									
Total, 16 years and over .....	7,090	6,491	6,595	5.9	5.4	5.6	5.4	5.3	5.4
Men, 16 years and over .....	3,845	3,600	3,642	5.8	5.3	5.6	5.3	5.4	5.4
Men, 20 years and over .....	3,135	2,902	3,038	5.0	4.5	4.9	4.5	4.6	4.8
Women, 16 years and over .....	3,245	2,890	2,954	6.0	5.7	5.6	5.5	5.3	5.3
Women, 20 years and over .....	2,620	2,401	2,458	5.2	5.1	4.8	4.8	4.7	4.8
Both sexes, 16 to 19 years .....	1,335	1,187	1,100	16.6	15.2	15.8	15.7	14.9	13.9
Married men, spouse present .....	1,487	1,305	1,399	3.5	3.0	3.4	3.1	3.1	3.4
Married women, spouse present .....	1,247	1,101	1,144	4.2	4.1	4.1	3.8	3.7	3.8
Women who maintain families .....	579	543	528	8.5	8.6	7.4	8.1	7.9	7.6
Full-time workers .....	5,684	5,164	5,315	5.5	5.0	5.3	5.1	4.9	5.1
Part-time workers .....	1,415	1,311	1,292	8.2	8.1	7.4	7.5	7.4	7.1
Labor force time lost .....	--	--	--	6.8	6.4	6.5	6.4	6.1	6.2
<b>INDUSTRY</b>									
Nonagricultural private wage and salary workers .....	5,243	4,952	5,048	5.8	5.4	5.6	5.4	5.4	5.5
Goods-producing industries .....	1,876	1,847	1,830	6.5	6.3	6.8	6.5	6.4	6.4
Mining .....	62	70	67	7.0	5.3	6.8	8.6	9.0	8.9
Construction .....	664	622	680	10.6	10.2	11.0	9.2	9.9	10.9
Manufacturing .....	1,150	1,155	1,083	5.3	5.2	5.6	5.6	5.3	5.0
Durable goods .....	616	635	610	4.8	5.0	5.0	5.5	5.0	4.7
Nondurable goods .....	534	520	473	5.9	5.6	6.4	5.9	5.7	5.3
Service-producing industries .....	3,367	3,105	3,218	5.5	5.0	5.1	4.9	5.0	5.1
Transportation and public utilities .....	277	208	266	4.5	3.5	3.8	3.7	3.3	4.2
Wholesale and retail trade .....	1,545	1,369	1,413	6.8	6.2	6.5	6.1	5.9	6.1
Finance and service industries .....	1,545	1,528	1,539	4.8	4.5	4.4	4.3	4.6	4.6
Government workers .....	611	434	423	3.4	3.1	3.1	2.7	2.5	2.4
Agricultural wage and salary workers .....	200	191	169	11.1	10.8	11.4	11.3	10.0	9.2

Unemployment as a percent of the civilian labor force.

Aggregate hours lost by the unemployed and persons on part time for

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

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Table A-7. Duration of unemployment

(Numbers in thousands)

Weeks of unemployment	Not seasonally adjusted			Seasonally adjusted					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>DURATION</b>									
Less than 5 weeks .....	3,131	3,056	3,080	3,218	2,965	3,197	3,139	3,062	3,153
5 to 14 weeks .....	2,039	1,747	1,909	2,029	2,078	1,957	1,823	1,814	1,924
15 weeks and over .....	1,633	1,379	1,335	1,834	1,629	1,676	1,596	1,551	1,487
15 to 26 weeks .....	770	660	682	899	838	859	789	778	776
27 weeks and over .....	863	719	653	935	791	817	807	773	711
Average (mean) duration, in weeks .....	14.0	13.1	12.5	14.0	13.6	13.7	13.7	13.5	12.5
Median duration, in weeks .....	5.9	5.1	5.3	6.1	6.3	5.9	5.5	5.6	5.5
<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 .....	46.0	49.4	48.7	45.4	44.4	46.8	47.9	47.6	48.0
5 to 14 weeks .....	30.0	28.3	30.2	28.7	31.1	28.7	27.8	28.2	29.3
15 weeks and over .....	24.0	22.3	21.1	25.9	24.4	24.5	24.3	24.1	22.6
15 to 26 weeks .....	11.3	10.7	10.8	12.7	12.6	12.6	12.0	12.1	11.8
27 weeks and over .....	12.7	11.6	10.3	13.2	11.9	12.0	12.3	12.0	10.8

Table A-8. Reason for unemployment

(Numbers in thousands)

Reasons	Not seasonally adjusted			Seasonally adjusted					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>NUMBER OF UNEMPLOYED</b>									
Job losers .....	3,171	2,641	2,909	3,307	3,087	3,138	3,087	2,909	3,037
On layoff .....	825	691	757	878	852	891	816	853	810
Other job losers .....	2,346	1,950	2,152	2,429	2,235	2,247	2,271	2,056	2,227
Job leavers .....	950	1,059	966	926	904	997	994	986	948
Reentrants .....	1,929	1,805	1,740	1,974	1,901	1,869	1,761	1,764	1,765
New entrants .....	752	676	709	855	776	793	745	728	805
<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 .....	46.6	42.7	46.0	46.8	46.3	46.2	46.9	45.5	46.3
On layoff .....	12.1	11.2	12.0	12.4	12.8	13.1	12.4	13.4	12.4
Other job losers .....	34.5	31.5	34.0	34.4	33.5	33.1	34.5	32.2	34.0
Job leavers .....	14.0	17.1	15.3	13.1	13.6	14.7	15.1	15.4	14.5
Reentrants .....	28.4	29.2	27.5	28.0	28.5	27.5	26.7	27.6	26.9
New entrants .....	11.1	10.9	11.2	12.1	11.6	11.7	11.3	11.4	12.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>									
Job losers .....	2.6	2.2	2.4	2.7	2.5	2.6	2.5	2.4	2.5
Job leavers .....	.8	.9	.8	.8	.7	.8	.8	.8	.8
Reentrants .....	1.6	1.5	1.4	1.6	1.6	1.5	1.4	1.4	1.4
New entrants .....	.6	.6	.6	.7	.6	.6	.6	.6	.7

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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					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
Total, 16 years and over .....	7,090	6,491	6,595	5.9	5.4	5.6	5.4	5.3	5.4
16 to 24 years .....	2,641	2,433	2,365	11.6	10.9	11.1	10.9	10.9	10.6
16 to 19 years .....	1,335	1,187	1,100	16.6	15.2	15.8	15.7	14.9	13.9
16 to 17 years .....	649	561	510	19.2	17.5	18.7	20.5	17.3	15.4
18 to 19 years .....	691	628	588	14.8	13.0	13.9	12.7	13.3	12.7
20 to 24 years .....	1,306	1,246	1,265	8.9	8.5	8.4	8.2	8.7	8.9
25 years and over .....	4,442	4,060	4,231	4.5	4.2	4.4	4.2	4.1	4.2
25 to 54 years .....	3,909	3,629	3,769	4.7	4.4	4.6	4.4	4.3	4.4
55 years and over .....	513	409	426	3.4	3.1	3.2	2.9	2.7	2.8
Men, 16 years and over .....	3,845	3,600	3,642	5.8	5.3	5.6	5.3	5.4	5.4
16 to 24 years .....	1,414	1,419	1,281	12.0	11.3	11.5	11.4	12.1	11.0
16 to 19 years .....	710	698	604	17.2	16.6	15.9	16.7	16.9	14.5
16 to 17 years .....	356	331	304	20.4	17.9	17.6	21.7	19.1	17.2
18 to 19 years .....	355	367	300	14.8	14.7	14.7	13.4	15.3	12.5
20 to 24 years .....	704	721	677	9.2	8.4	9.0	8.5	9.5	9.0
25 years and over .....	2,419	2,189	2,362	4.4	3.9	4.4	4.1	4.0	4.3
25 to 54 years .....	2,109	1,923	2,079	4.6	4.1	4.5	4.3	4.1	4.4
55 years and over .....	313	258	275	3.5	3.1	3.4	2.8	3.0	3.2
Women, 16 years and over .....	3,245	2,890	2,954	6.0	5.7	5.6	5.5	5.3	5.3
16 to 24 years .....	1,227	1,014	1,085	11.2	10.5	10.7	10.4	9.5	10.3
16 to 19 years .....	625	489	496	16.0	13.6	15.8	14.7	12.8	13.1
16 to 17 years .....	293	230	206	17.9	17.0	19.8	19.0	15.3	13.2
18 to 19 years .....	336	261	288	14.7	11.2	12.9	12.0	11.3	13.0
20 to 24 years .....	602	525	589	8.6	8.7	7.8	7.9	7.7	8.7
25 years and over .....	2,023	1,872	1,869	4.7	4.5	4.4	4.4	4.2	4.2
25 to 54 years .....	1,800	1,706	1,690	4.9	4.7	4.6	4.6	4.5	4.4
55 years and over .....	200	150	152	3.2	3.0	2.8	3.0	2.4	2.3

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>					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
Civilian noninstitutional population .....	26,021	26,590	26,641	26,021	26,451	26,490	26,540	26,590	26,641
Civilian labor force .....	16,882	17,137	17,129	16,869	17,021	16,993	16,892	17,073	17,092
Participation rate .....	64.9	64.5	64.3	64.8	64.4	64.1	63.6	64.2	64.2
Employed .....	15,112	15,527	15,496	15,017	15,319	15,299	15,301	15,431	15,377
Employment-population ratio .....	58.1	58.4	58.2	57.7	57.9	57.8	57.7	58.0	57.7
Unemployed .....	1,771	1,610	1,634	1,852	1,701	1,694	1,592	1,642	1,715
Unemployment rate .....	10.5	9.4	9.5	11.0	10.0	10.0	9.4	9.6	10.0
Not in labor force .....	9,139	9,453	9,512	9,152	9,430	9,497	9,648	9,517	9,549

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

Civilian employment as a percent of the civilian noninstitutional population.

## HOUSEHOLD DATA

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

(Numbers in thousands)

Occupation	Civilian employed		Unemployed		Unemployment rate	
	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988
Total, 16 years and over .....	113,809	116,314	6,802	6,325	5.6	5.2
Managerial and professional specialty .....	28,266	29,800	584	483	2.0	1.6
Executive, administrative, and managerial .....	13,444	14,430	355	266	2.6	1.8
Professional specialty .....	14,822	15,370	229	217	1.5	1.4
Technical, sales, and administrative support .....	35,461	35,863	1,518	1,421	4.1	3.8
Technicians and related support .....	3,346	3,538	84	90	2.5	2.5
Sales occupations .....	13,577	14,044	633	604	4.5	4.1
Administrative support, including clerical .....	18,538	18,281	801	727	4.1	3.8
Service occupations .....	15,199	15,489	1,236	1,123	7.5	6.8
Private household .....	965	941	46	58	4.5	5.8
Protective service .....	1,939	1,929	97	92	4.8	4.5
Service, except private household and protective .....	12,296	12,619	1,093	973	8.2	7.2
Precision production, craft, and repair .....	13,712	13,779	750	750	5.2	5.2
Mechanics and repairers .....	4,456	4,425	163	198	3.5	4.3
Construction trades .....	5,108	5,172	398	353	7.2	6.4
Other precision production, craft, and repair .....	4,148	4,182	189	199	4.4	4.5
Operators, fabricators, and laborers .....	17,936	18,057	1,627	1,524	8.3	7.8
Machine operators, assemblers, and inspectors .....	8,172	8,279	686	587	7.7	6.6
Transportation and material moving occupations .....	4,667	4,903	293	339	5.7	6.5
Handlers, equipment cleaners, helpers, and laborers .....	4,897	4,874	647	598	11.7	10.9
Construction laborers .....	809	739	190	208	19.0	22.0
Other handlers, equipment cleaners, helpers, and laborers .....	4,088	4,135	458	390	10.1	8.6
Farming, forestry, and fishing .....	3,235	3,326	296	269	8.4	7.5

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	
	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988	Nov. 1987	Nov. 1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,861	7,907	7,257	7,325	6,918	7,051	339	274	4.7	3.7
30 to 44 years .....	6,112	5,769	5,796	5,498	5,507	5,295	289	203	5.0	3.7
30 to 34 years .....	832	613	790	570	716	534	74	36	9.4	6.3
35 to 39 years .....	2,439	2,001	2,319	1,923	2,227	1,851	92	72	4.0	3.7
40 to 44 years .....	2,841	3,155	2,687	3,005	2,564	2,910	123	95	4.6	3.2
45 years and over .....	1,749	2,138	1,461	1,827	1,411	1,756	50	71	3.4	3.9
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	19,819	20,789	18,776	19,706	18,031	18,917	745	789	4.0	4.0
30 to 34 years .....	8,949	9,175	8,513	8,738	8,134	8,338	379	400	4.5	4.6
35 to 39 years .....	6,420	7,049	6,071	6,678	5,861	6,428	210	250	3.5	3.7
40 to 44 years .....	4,450	4,565	4,192	4,290	4,036	4,151	156	139	3.7	3.2

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			Seasonally adjusted					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>California</b>									
Civilian noninstitutional population .....	20,714	21,115	21,151	20,714	21,012	21,043	21,078	21,115	21,151
Civilian labor force .....	13,906	14,200	14,337	13,912	14,131	14,159	14,142	14,160	14,338
Employed .....	13,190	13,524	13,606	13,172	13,374	13,373	13,411	13,457	13,584
Unemployed .....	716	676	731	740	757	786	731	703	754
Unemployment rate .....	5.1	4.8	5.1	5.3	5.4	5.6	5.2	5.0	5.3
<b>Florida</b>									
Civilian noninstitutional population .....	9,527	9,752	9,771	9,527	9,693	9,711	9,731	9,752	9,771
Civilian labor force .....	5,932	6,174	6,103	5,958	6,102	6,162	6,121	6,168	6,125
Employed .....	5,630	5,871	5,786	5,647	5,837	5,862	5,820	5,863	5,802
Unemployed .....	303	303	317	311	265	300	301	305	323
Unemployment rate .....	5.1	4.9	5.2	5.2	4.3	4.9	4.9	4.9	5.3
<b>Illinois</b>									
Civilian noninstitutional population .....	8,757	8,793	8,796	8,757	8,786	8,787	8,790	8,793	8,796
Civilian labor force .....	5,747	5,849	5,908	5,764	5,760	5,887	5,797	5,807	5,932
Employed .....	5,384	5,495	5,523	5,364	5,394	5,472	5,450	5,425	5,508
Unemployed .....	364	353	385	400	366	415	347	382	424
Unemployment rate .....	6.3	6.0	6.5	6.9	6.4	7.0	6.0	6.6	7.1
<b>Massachusetts</b>									
Civilian noninstitutional population .....	4,594	4,606	4,607	4,594	4,604	4,604	4,605	4,606	4,607
Civilian labor force .....	3,097	3,149	3,146	3,093	3,137	3,119	3,144	3,157	3,152
Employed .....	3,024	3,060	3,035	3,009	3,020	3,015	3,051	3,054	3,027
Unemployed .....	72	89	111	84	117	104	93	103	125
Unemployment rate .....	2.3	2.8	3.5	2.7	3.7	3.3	3.0	3.3	4.0
<b>Michigan</b>									
Civilian noninstitutional population .....	6,956	7,012	7,016	6,956	6,999	7,002	7,007	7,012	7,016
Civilian labor force .....	4,538	4,596	4,652	4,519	4,587	4,566	4,572	4,583	4,624
Employed .....	4,203	4,291	4,337	4,159	4,251	4,229	4,238	4,255	4,284
Unemployed .....	335	305	315	360	336	337	334	328	340
Unemployment rate .....	7.4	6.6	6.8	8.0	7.3	7.4	7.3	7.2	7.4
<b>New Jersey</b>									
Civilian noninstitutional population .....	6,018	6,050	6,052	6,018	6,042	6,044	6,047	6,050	6,052
Civilian labor force .....	3,972	3,910	3,956	3,994	3,969	3,983	3,979	3,937	3,972
Employed .....	3,843	3,772	3,816	3,847	3,825	3,828	3,829	3,785	3,816
Unemployed .....	129	138	139	147	144	155	150	152	156
Unemployment rate .....	3.2	3.5	3.5	3.7	3.6	3.9	3.8	3.9	3.9
<b>New York</b>									
Civilian noninstitutional population .....	13,766	13,776	13,776	13,766	13,777	13,774	13,773	13,776	13,776
Civilian labor force .....	8,576	8,544	8,564	8,553	8,537	8,589	8,517	8,494	8,543
Employed .....	8,153	8,185	8,192	8,112	8,171	8,206	8,149	8,141	8,154
Unemployed .....	423	359	371	441	366	383	368	353	389
Unemployment rate .....	4.9	4.2	4.3	5.2	4.3	4.5	4.3	4.2	4.6
<b>North Carolina</b>									
Civilian noninstitutional population .....	4,840	4,906	4,912	4,840	4,889	4,894	4,900	4,906	4,912
Civilian labor force .....	3,317	3,377	3,378	3,314	3,332	3,339	3,332	3,367	3,372
Employed .....	3,184	3,249	3,255	3,181	3,235	3,236	3,209	3,232	3,250
Unemployed .....	133	128	123	133	97	103	123	135	122
Unemployment rate .....	4.0	3.8	3.6	4.0	2.9	3.1	3.7	4.0	3.6
<b>Ohio</b>									
Civilian noninstitutional population .....	8,174	8,212	8,215	8,174	8,203	8,205	8,208	8,212	8,215
Civilian labor force .....	5,285	5,327	5,360	5,263	5,252	5,298	5,251	5,311	5,345
Employed .....	4,980	5,052	5,075	4,945	4,973	5,000	4,947	5,016	5,041
Unemployed .....	305	276	284	318	279	298	304	295	304
Unemployment rate .....	5.8	5.2	5.3	6.0	5.3	5.6	5.8	5.6	5.7

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>					
	Nov. 1987	Oct. 1988	Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988
<b>Pennsylvania</b>									
Civilian noninstitutional population .....	9,305	9,330	9,331	9,305	9,325	9,325	9,327	9,330	9,331
Civilian labor force .....	5,724	5,770	5,739	5,709	5,735	5,786	5,815	5,707	5,726
Employed .....	5,425	5,478	5,491	5,394	5,433	5,526	5,500	5,394	5,465
Unemployed .....	300	292	248	315	302	260	315	313	261
Unemployment rate .....	5.2	5.1	4.3	5.5	5.3	4.5	5.4	5.5	4.6
<b>Texas</b>									
Civilian noninstitutional population .....	12,044	12,079	12,081	12,044	12,072	12,072	12,075	12,079	12,081
Civilian labor force .....	8,390	8,375	8,420	8,351	8,277	8,381	8,354	8,359	8,351
Employed .....	7,731	7,804	7,868	7,659	7,757	7,814	7,768	7,739	7,772
Unemployed .....	659	571	552	692	520	567	586	620	579
Unemployment rate .....	7.9	6.8	6.6	8.3	6.3	6.8	7.0	7.4	6.9

<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.



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

Industry	Not seasonally adjusted				Seasonally adjusted					
	Nov. 1987	Sept. 1988	Oct. 1988p/	Nov. 1988p/	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988p/	Nov. 1988p/
Total.....	104,548	107,138	107,854	108,332	103,678	106,271	106,425	106,737	106,975	107,438
Total private.....	87,034	89,939	90,104	90,408	86,520	88,941	89,066	89,205	89,459	89,877
Goods-producing industries.....	25,351	26,126	26,141	26,100	25,123	25,663	25,639	25,648	25,741	25,860
Mining.....	745	740	736	731	736	740	739	734	729	722
Oil and gas extraction.....	424.3	418.6	415.8	412.4	418	424	423	419	413	406
Construction.....	5,227	5,660	5,643	5,565	5,090	5,330	5,340	5,365	5,364	5,419
General building contractors.....	1,385.1	1,460.5	1,455.9	1,442.5	1,348	1,400	1,401	1,404	1,393	1,403
Manufacturing.....	19,379	19,726	19,762	19,804	19,297	19,593	19,560	19,549	19,648	19,719
Production workers.....	13,256	13,498	13,523	13,563	13,175	13,382	13,352	13,332	13,412	13,478
Durable goods.....	11,400	11,606	11,642	11,688	11,355	11,566	11,547	11,537	11,595	11,642
Production workers.....	7,609	7,753	7,782	7,828	7,564	7,720	7,705	7,689	7,734	7,780
Lumber and wood products.....	751.0	773.6	771.9	769.0	750	756	753	753	760	768
Furniture and fixtures.....	536.7	539.8	544.9	546.0	531	541	537	538	541	540
Stone, clay, and glass products.....	589.3	597.9	597.3	594.6	585	589	586	585	588	590
Primary metal industries.....	766.4	789.5	790.6	796.6	768	789	785	787	794	798
Blast furnaces and basic steel products.....	277.3	280.6	279.7	282.7	279	282	281	280	282	284
Fabricated metal products.....	1,437.1	1,470.0	1,477.5	1,479.5	1,429	1,464	1,458	1,460	1,469	1,471
Machinery, except electrical.....	2,058.3	2,156.6	2,167.9	2,182.3	2,062	2,151	2,156	2,159	2,172	2,187
Electrical and electronic equipment.....	2,108.7	2,130.3	2,134.6	2,141.2	2,100	2,122	2,126	2,124	2,126	2,133
Transportation equipment.....	2,060.7	2,042.4	2,048.9	2,067.8	2,047	2,052	2,044	2,032	2,045	2,053
Motor vehicles and equipment.....	863.1	857.8	862.4	869.0	854	857	855	849	859	860
Instruments and related products.....	704.3	716.4	717.8	720.6	706	715	716	716	719	720
Miscellaneous manufacturing.....	387.5	389.1	390.2	390.2	379	387	384	383	381	382
Nondurable goods.....	7,979	8,120	8,120	8,116	7,942	8,027	8,013	8,012	8,053	8,077
Production workers.....	5,647	5,745	5,741	5,735	5,611	5,662	5,647	5,643	5,678	5,698
Food and kindred products.....	1,650.6	1,714.1	1,697.0	1,675.5	1,636	1,631	1,630	1,632	1,656	1,661
Tobacco manufactures.....	55.2	54.9	55.2	54.2	54	52	52	51	51	53
Textile mill products.....	736.1	727.3	726.1	726.3	733	726	719	722	722	723
Apparel and other textile products.....	1,117.8	1,095.7	1,098.3	1,099.1	1,110	1,096	1,089	1,087	1,086	1,091
Paper and allied products.....	684.0	690.9	691.3	693.8	683	692	691	688	690	692
Printing and publishing.....	1,535.3	1,569.8	1,579.3	1,588.7	1,528	1,567	1,572	1,575	1,581	1,581
Chemicals and allied products.....	1,039.7	1,072.5	1,071.6	1,074.5	1,041	1,067	1,070	1,069	1,072	1,076
Petroleum and coal products.....	166.1	169.8	169.8	169.7	167	167	167	168	169	170
Rubber and misc. plastics products.....	846.3	877.1	884.5	887.6	845	882	878	874	882	886
Leather and leather products.....	147.8	147.4	146.6	146.1	145	147	145	146	144	144
Service-producing industries.....	79,197	81,012	81,713	82,232	78,555	80,608	80,786	81,089	81,234	81,578
Transportation and public utilities.....	5,498	5,665	5,675	5,697	5,466	5,598	5,605	5,618	5,623	5,662
Transportation.....	3,265	3,413	3,426	3,442	3,231	3,345	3,351	3,366	3,372	3,405
Communication and public utilities.....	2,233	2,252	2,249	2,255	2,235	2,253	2,254	2,252	2,251	2,257
Wholesale trade.....	5,975	6,241	6,272	6,287	5,958	6,174	6,192	6,219	6,242	6,270
Durable goods.....	3,518	3,718	3,742	3,759	3,514	3,681	3,696	3,714	3,735	3,755
Nondurable goods.....	2,457	2,523	2,530	2,528	2,444	2,493	2,496	2,505	2,507	2,515
Retail trade.....	19,050	19,387	19,406	19,638	18,761	19,261	19,279	19,291	19,329	19,348
General merchandise stores.....	2,665.7	2,489.5	2,549.1	2,690.4	2,495	2,545	2,539	2,533	2,519	2,517
Food stores.....	3,016.1	3,116.1	3,147.3	3,182.4	2,979	3,097	3,106	3,110	3,141	3,145
Automotive dealers and service stations.....	2,021.4	2,109.3	2,106.6	2,107.9	2,026	2,088	2,095	2,095	2,102	2,114
Eating and drinking places.....	6,162.8	6,556.2	6,421.9	6,381.7	6,216	6,369	6,377	6,384	6,415	6,440
Finance, insurance, and real estate.....	6,582	6,706	6,693	6,704	6,608	6,684	6,689	6,692	6,710	6,729
Finance.....	3,289	3,297	3,294	3,304	3,299	3,300	3,298	3,300	3,307	3,314
Insurance.....	2,039	2,079	2,086	2,091	2,042	2,077	2,081	2,083	2,090	2,093
Real estate.....	1,254	1,330	1,313	1,309	1,267	1,307	1,310	1,309	1,313	1,322
Services.....	24,578	25,814	25,917	25,982	24,604	25,561	25,662	25,737	25,814	26,008
Business services.....	5,322.3	5,588.0	5,601.4	5,615.7	5,287	5,500	5,512	5,538	5,546	5,577
Health services.....	6,954.4	7,322.9	7,364.9	7,413.5	6,962	7,238	7,271	7,323	7,365	7,421
Government.....	17,513	17,199	17,750	17,924	17,158	17,330	17,359	17,532	17,516	17,561
Federal.....	2,956	2,968	2,969	2,973	2,974	2,951	2,956	2,989	2,990	2,991
State.....	4,105	4,004	4,169	4,216	3,988	4,059	4,070	4,086	4,071	4,097
Local.....	10,452	10,227	10,612	10,735	10,196	10,320	10,333	10,457	10,455	10,473

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					
	Nov. 1987	Sept. 1988	Oct. 1988p/	Nov. 1988p/	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988p/	Nov. 1988p/
Total private.....	34.8	34.8	34.9	34.7	34.8	34.9	34.6	34.7	34.9	34.7
Mining.....	42.6	42.2	42.7	42.2	(2)	(2)	(2)	(2)	(2)	(2)
Construction.....	37.1	38.4	39.0	37.6	(2)	(2)	(2)	(2)	(2)	(2)
Manufacturing.....	41.4	41.3	41.3	41.5	41.2	41.1	41.0	41.2	41.2	41.2
Overtime hours.....	4.1	4.2	4.1	4.1	3.9	3.9	3.9	3.9	4.0	4.0
Durable goods.....	42.0	42.0	42.0	42.2	41.8	41.8	41.6	41.9	41.9	41.9
Overtime hours.....	4.2	4.3	4.3	4.4	4.0	4.0	4.1	4.0	4.2	4.2
Lumber and wood products.....	40.4	40.2	40.9	40.2	40.7	40.5	40.0	39.9	40.7	40.5
Furniture and fixtures.....	40.6	40.1	40.1	39.8	40.2	39.7	39.0	39.6	39.4	39.4
Stone, clay, and glass products.....	42.4	42.8	42.9	42.7	42.4	42.1	42.1	42.3	42.4	42.7
Primary metal industries.....	43.7	44.0	43.6	43.9	43.5	43.4	43.5	44.0	43.8	43.7
Blast furnaces and basic steel products..	43.8	44.7	43.8	44.3	43.8	44.0	44.0	44.6	44.2	44.3
Fabricated metal products.....	42.4	42.0	41.9	42.3	42.1	41.7	41.8	42.0	41.8	42.0
Machinery, except electrical.....	43.0	42.7	42.5	42.8	42.7	43.0	42.4	42.7	42.6	42.5
Electrical and electronic equipment.....	41.4	41.0	40.9	41.4	41.0	41.0	40.8	41.0	40.9	41.0
Transportation equipment.....	42.5	43.0	43.1	43.3	42.3	42.6	42.7	43.3	43.3	43.0
Motor vehicles and equipment.....	42.9	44.1	44.0	44.2	42.9	42.5	43.6	44.5	44.2	44.2
Instruments and related products.....	41.8	41.6	41.9	42.5	41.4	41.8	41.5	41.6	42.1	42.1
Miscellaneous manufacturing.....	39.7	39.3	39.6	39.9	39.2	39.2	39.2	39.2	39.1	39.4
Nondurable goods.....	40.6	40.5	40.3	40.5	40.3	40.2	40.1	40.2	40.2	40.2
Overtime hours.....	3.9	4.1	3.9	3.9	3.7	3.7	3.6	3.7	3.8	3.7
Food and kindred products.....	40.7	40.9	40.7	41.1	40.4	40.5	40.4	40.3	40.5	40.8
Tobacco manufactures.....	40.9	41.2	41.2	40.3	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products.....	42.0	41.4	41.2	41.3	41.6	41.1	41.1	41.1	41.0	40.9
Apparel and other textile products.....	37.4	37.0	37.1	37.2	37.1	36.9	36.8	37.1	36.9	36.9
Paper and allied products.....	43.8	43.7	43.3	43.5	43.5	43.2	43.2	43.3	43.2	43.2
Printing and publishing.....	38.3	38.5	38.0	38.1	38.0	38.0	38.0	38.1	37.9	37.8
Chemicals and allied products.....	42.7	42.3	42.3	42.6	42.5	42.3	42.1	42.1	42.5	42.4
Petroleum and coal products.....	44.1	44.7	44.8	44.5	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and misc. plastics products.....	42.0	41.6	41.7	42.0	41.8	41.6	41.5	41.6	41.6	41.7
Leather and leather products.....	38.4	37.5	37.9	37.8	38.3	37.0	37.6	37.5	37.9	37.7
Transportation and public utilities.....	39.3	39.5	39.7	39.4	39.2	39.5	39.3	39.4	39.6	39.3
Wholesale trade.....	38.2	38.1	38.2	38.0	38.2	38.2	37.8	38.1	38.1	38.0
Retail trade.....	29.0	29.0	29.1	28.8	29.2	29.3	29.0	28.9	29.2	29.0
Finance, insurance, and real estate.....	36.3	35.8	36.0	35.6	(2)	(2)	(2)	(2)	(2)	(2)
Services.....	32.5	32.5	32.7	32.4	32.6	32.7	32.4	32.6	32.8	32.5

<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			
	Nov. 1987	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>	Nov. 1987	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>
Total private.....	\$9.13	\$9.40	\$9.45	\$9.45	\$317.72	\$327.12	\$329.81	\$327.92
Seasonally adjusted.....	9.10	9.37	9.43	9.42	316.68	325.14	329.11	326.87
Mining.....	12.54	12.75	12.73	12.70	534.20	538.05	543.57	535.94
Construction.....	12.83	13.13	13.14	13.07	475.99	504.19	512.46	491.43
Manufacturing.....	10.01	10.25	10.24	10.30	414.41	423.33	422.91	427.45
Durable goods.....	10.54	10.78	10.78	10.84	442.68	452.76	452.76	457.45
Lumber and wood products.....	8.47	8.67	8.76	8.71	342.19	348.53	358.28	350.14
Furniture and fixtures.....	7.71	8.07	8.04	8.00	313.03	323.61	322.40	318.40
Stone, clay, and glass products.....	10.30	10.55	10.57	10.56	436.72	451.54	453.45	450.91
Primary metal industries.....	12.04	12.25	12.20	12.27	526.15	539.00	531.92	538.65
Blast furnaces and basic steel products..	13.89	14.08	14.02	14.13	608.38	629.38	614.08	625.96
Fabricated metal products.....	10.10	10.32	10.31	10.37	428.24	433.44	431.99	438.65
Machinery, except electrical.....	10.83	11.05	11.07	11.14	465.69	471.84	470.48	476.79
Electrical and electronic equipment.....	9.98	10.19	10.16	10.21	413.17	417.79	415.54	422.69
Transportation equipment.....	13.18	13.49	13.50	13.55	560.15	580.07	581.85	586.72
Motor vehicles and equipment.....	13.79	14.17	14.17	14.23	591.59	624.90	623.48	628.97
Instruments and related products.....	9.83	9.97	10.05	10.05	410.89	414.75	421.10	427.13
Miscellaneous manufacturing.....	7.80	7.99	8.08	8.09	309.66	314.01	319.97	322.79
Nondurable goods.....	9.26	9.50	9.48	9.54	375.96	384.75	382.04	386.37
Food and kindred products.....	8.98	9.12	9.04	9.13	365.49	373.01	367.93	375.24
Tobacco manufactures.....	13.75	13.98	13.98	14.65	562.38	575.98	575.98	590.40
Textile mill products.....	7.29	7.43	7.44	7.49	306.18	307.60	306.53	309.34
Apparel and other textile products.....	5.98	6.19	6.20	6.21	223.65	229.03	230.02	231.01
Paper and allied products.....	11.49	11.70	11.65	11.69	503.26	511.29	504.45	508.52
Printing and publishing.....	10.39	10.70	10.69	10.68	397.94	411.95	406.22	406.91
Chemicals and allied products.....	12.55	12.76	12.78	12.87	535.89	539.75	540.59	548.26
Petroleum and coal products.....	14.77	15.08	15.27	15.34	651.36	674.08	684.10	682.63
Rubber and misc. plastics products.....	8.98	9.18	9.20	9.26	377.16	381.89	383.64	388.92
Leather and leather products.....	6.15	6.31	6.34	6.36	236.16	236.63	240.29	240.41
Transportation and public utilities.....	12.21	12.41	12.41	12.47	479.85	490.20	492.68	491.32
Wholesale trade.....	9.72	10.01	10.08	10.02	371.30	381.38	385.06	380.76
Retail trade.....	6.18	6.37	6.39	6.44	179.22	184.73	185.95	185.47
Finance, insurance, and real estate.....	8.89	9.14	9.29	9.26	322.71	327.21	334.44	329.66
Services.....	8.71	8.98	9.07	9.08	283.08	291.85	296.59	294.19

<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						
	Nov. 1987	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>	Percent change from: Nov. 1987-Nov. 1988	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>	Percent change from: Oct. 1988-Nov. 1988
Total private nonfarm:												
Current Dollars.....	175.9	180.7	181.4	181.7	3.3	175.6	179.3	179.5	180.3	181.5	181.5	(2)
Constant (1977) dollars.....	93.8	92.8	92.9	N.A.	(3)	93.8	93.2	92.9	93.0	93.1	N.A.	(4)
Mining.....	184.1	186.6	186.5	186.3	1.2	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Construction.....	156.7	160.6	160.8	160.9	2.7	156.5	158.8	158.6	159.3	159.2	160.7	.9
Manufacturing.....	176.2	179.7	179.8	180.6	2.5	176.4	178.8	179.3	180.0	180.5	180.8	.2
Transportation and public utilities	178.8	182.6	182.9	183.8	2.8	177.6	181.5	181.9	182.0	182.9	182.5	-.2
Wholesale trade.....	179.6	184.5	186.0	185.9	3.5	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Retail trade.....	162.4	168.1	168.4	168.2	3.6	162.4	166.8	166.7	167.1	168.6	168.2	-.2
Finance, insurance, and real estate.	191.2	197.0	200.1	199.9	4.6	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Services.....	185.6	192.3	193.9	194.0	4.5	184.9	190.8	190.9	191.9	194.1	193.2	-.5

<sup>1/</sup> See footnote 1, table B-2.<sup>2/</sup> Less than 0.05 percent.<sup>3/</sup> Change is -.4 percent from October 1987 to October 1988, the latest month available.<sup>4/</sup> Change is -.1 percent from September 1988 to October 1988, the latest month available.<sup>5/</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 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. 32-35.

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					
	Nov. 1987	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>	Nov. 1987	July 1988	Aug. 1988	Sept. 1988	Oct. 1988 <sup>p/</sup>	Nov. 1988 <sup>p/</sup>
Total private.....	123.4	127.6	128.3	127.8	122.8	126.4	125.5	126.0	127.1	127.0
Goods-producing industries.....	102.4	106.3	106.7	105.9	101.2	103.3	102.8	103.1	103.9	104.5
Mining.....	85.9	84.4	84.9	83.0	84.1	85.6	83.5	82.8	83.5	81.3
Construction.....	138.0	155.6	157.6	149.1	136.4	142.4	142.5	143.4	145.2	147.2
Manufacturing.....	96.3	97.8	97.9	98.6	95.1	96.5	96.0	96.3	96.9	97.4
Durable goods.....	93.9	95.5	95.9	96.9	92.9	94.8	94.2	94.6	95.2	95.7
Lumber and wood products.....	103.4	105.7	107.1	104.7	103.9	103.9	102.3	101.7	104.8	105.2
Furniture and fixtures.....	117.2	116.1	117.6	117.0	114.6	115.1	112.0	114.2	114.5	114.2
Stone, clay, and glass products.....	88.2	90.9	91.0	90.2	87.3	88.0	87.5	87.5	88.3	89.3
Primary metal industries.....	66.9	70.0	69.4	70.5	66.8	69.0	68.7	69.7	70.1	70.4
Blast furnaces and basic steel products..	53.1	55.5	54.1	55.4	54.1	55.3	54.8	55.0	55.0	55.6
Fabricated metal products.....	92.3	94.0	94.4	95.4	91.2	92.7	92.6	93.1	93.3	94.1
Machinery, except electrical.....	89.4	93.2	93.4	94.9	89.0	93.7	92.6	93.2	93.7	94.3
Electrical and electronic equipment.....	103.2	103.6	103.8	105.6	101.5	103.1	102.8	103.1	103.1	103.9
Transportation equipment.....	100.6	100.0	100.6	102.8	99.1	99.7	99.9	100.2	100.6	101.0
Motor vehicles and equipment.....	89.7	91.6	91.9	93.2	88.7	88.2	90.9	91.4	91.8	91.8
Instruments and related products.....	105.6	107.9	109.2	111.5	104.4	108.2	107.7	107.9	110.1	110.3
Miscellaneous manufacturing.....	87.2	86.3	87.0	87.6	83.6	85.1	84.2	84.2	83.1	83.8
Nondurable goods.....	99.8	101.2	100.8	101.2	98.5	99.1	98.7	98.7	99.4	99.8
Food and kindred products.....	102.9	108.4	106.6	105.8	100.9	100.6	100.2	100.1	102.5	103.7
Tobacco manufactures.....	79.5	78.5	78.8	75.6	73.8	73.7	72.0	69.1	69.6	70.9
Textile mill products.....	83.9	81.6	81.1	81.4	82.7	81.2	79.9	80.4	80.2	80.2
Apparel and other textile products.....	87.6	85.1	85.4	85.8	86.1	84.7	83.9	84.5	84.0	84.3
Paper and allied products.....	102.5	102.7	101.7	103.0	101.4	101.9	101.9	101.4	101.3	102.1
Printing and publishing.....	135.2	138.3	137.6	138.7	133.4	136.6	137.0	137.5	137.3	136.8
Chemicals and allied products.....	96.8	99.5	99.0	100.2	96.7	98.7	98.7	98.4	99.8	99.9
Petroleum and coal products.....	85.5	88.6	89.4	87.6	85.3	86.6	86.6	86.1	88.3	87.6
Rubber and misc. plastics products.....	120.5	124.3	125.6	127.2	119.6	124.8	124.2	123.9	124.8	125.8
Leather and leather products.....	58.7	56.7	57.1	56.7	57.5	55.5	56.0	55.8	55.9	55.6
Service-producing industries.....	135.1	139.3	140.2	139.9	134.7	139.1	138.1	138.7	139.9	139.4
Transportation and public utilities.....	112.2	116.0	116.8	116.6	111.0	114.7	114.5	114.6	115.3	115.3
Wholesale trade.....	121.6	127.5	128.5	128.1	121.3	126.3	125.4	126.9	127.3	127.6
Retail trade.....	124.9	126.9	127.2	127.6	123.8	127.3	126.2	125.7	127.2	126.2
Finance, insurance, and real estate.....	140.7	140.5	140.8	139.8	141.3	142.1	140.0	140.6	141.3	140.3
Services.....	154.9	162.1	163.6	162.8	155.3	161.5	160.7	162.0	163.4	163.0

<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	68.9	61.4	51.9	49.5	p/64.9	p/68.9	
Over 3-month span:												
1986.....	50.0	47.6	45.7	46.2	46.2	46.2	48.2	51.9	50.5	55.9	59.7	59.2
1987.....	57.6	57.0	65.1	69.2	66.2	71.9	73.8	76.8	74.1	76.5	78.1	73.0
1988.....	71.6	66.8	67.0	66.8		69.7	68.4	57.3	p/58.6	p/66.8		
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	70.3	73.8	70.5	68.4	p/63.7	p/71.9				
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	81.9
1988.....	77.6	77.6	73.5	p/73.8	p/75.7							

<sup>1/</sup> Number of employees, seasonally adjusted, for 1, 3, and 6 month spans, on the payrolls of 185 private nonagricultural 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. Beginning with the release of January 1989 data, the index shown in this table will be replaced by a broader-based index covering 349 private nonagricultural industries and a separate manufacturing index covering 134 industries. .  
p=preliminary.