

# News

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## THE EMPLOYMENT SITUATION: MAY 1988

Nonagricultural payroll employment continued to increase in May, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. Both the overall and the civilian worker jobless rates, which had dipped slightly in April, returned to their March levels of 5.5 and 5.6 percent, respectively.

Payroll employment, as measured by the monthly survey of business establishments, rose by 210,000 in May. In contrast, total civilian employment, as estimated through the monthly survey of households, showed a drop of 520,000 following a 600,000 increase in April. Recent over-the-month movements in the household employment series have been somewhat erratic.

### Unemployment (Household Survey Data)

Both the number of unemployed persons and the unemployment rate, which had been drifting downward since last fall, edged up in May, returning to their March levels. About 6.8 million persons were unemployed in May, and the civilian worker unemployment rate was 5.6 percent, seasonally adjusted. Since May 1987, the unemployment level has decreased by about 800,000, and the jobless rate has declined by 0.7 percentage point. (See table A-2.)

Most of the over-the-month change in joblessness occurred among adult men, whose unemployment rate rose 0.3 percentage point to 4.9 percent, following a drop of the same magnitude in April. The rates for adult women (4.9 percent), teenagers (15.6 percent), whites (4.7 percent), blacks (12.4 percent), and Hispanics (9.0 percent) all were little changed over the month. (See tables A-2 and A-3.)

At 5.9 weeks, the median duration of unemployment was about unchanged in May, remaining at one of its lowest levels during the 1980's. (See table A-7.)

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

The estimate of total civilian employment--114.2 million--showed a drop of about 520,000 on a seasonally adjusted basis in May, nearly offsetting April's large increase. Consequently, the employment-population ratio fell to 61.9 percent. (See table A-2.)

The civilian labor force also declined in May, to 121.0 million about the same level as in March. As a result, the labor force participation rate decreased, to 65.6 percent. (See table A-2.)

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

Category	Quarterly averages		Monthly data			Apr.- May change
	1987	1988	1988			
	IV	I	Mar.	Apr.	May	
HOUSEHOLD DATA						
Thousands of persons						
Labor force 1/.....	122,316	122,882	122,639	123,055	122,692	-363
Total employment 1/..	115,235	115,954	115,839	116,445	115,909	-536
Civilian labor force...	120,568	121,142	120,903	121,323	120,978	-345
Civilian employment..	113,486	114,214	114,103	114,713	114,195	-518
Unemployment.....	7,082	6,928	6,801	6,610	6,783	173
Not in labor force.....	62,899	62,825	63,208	62,909	63,396	487
Discouraged workers..	910	1,027	N.A.	N.A.	N.A.	N.A.
Percent of labor force						
Unemployment rates:						
All workers 1/.....	5.8	5.6	5.5	5.4	5.5	0.1
All civilian workers.	5.9	5.7	5.6	5.4	5.6	.2
Adult men.....	5.0	5.0	4.9	4.6	4.9	.3
Adult women.....	5.2	5.0	4.8	4.8	4.9	.1
Teenagers.....	16.6	16.0	16.5	15.9	15.6	-.3
White.....	5.0	4.8	4.7	4.6	4.7	.1
Black.....	12.2	12.5	12.8	12.2	12.4	.2
Hispanic origin....	8.5	7.9	8.2	9.3	9.0	-.3
ESTABLISHMENT DATA <sup>2/</sup>						
Thousands of jobs						
Nonfarm employment.....	103,683	104,670	105,020	p105,269	p105,478	p209
Goods-producing.....	25,116	25,260	25,330	p25,438	p25,446	p8
Service-producing....	78,567	79,410	79,690	p79,831	p80,032	p201
Hours of work						
Average weekly hours:						
Total private.....	34.8	34.7	34.6	p34.9	p34.7	p-0.2
Manufacturing.....	41.1	41.0	40.9	p41.2	p41.1	p-.1
Overtime.....	3.9	3.8	3.7	p4.0	p4.0	p0

1/ Includes the resident Armed Forces.

N.A.=not available.

2/ Establishment data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

p=preliminary.

Industry Payroll Employment (Establishment Survey Data)

Employment growth in nonagricultural establishments moderated in May, as payroll jobs increased by 210,000 to 105.5 million, seasonally adjusted. Employment gains were essentially confined to the service-producing sector. (See table B-1.) The payroll employment estimates shown in this news release have been adjusted to reflect annual benchmark revisions and the incorporation of new seasonal factors. (See the explanatory note on pages 4-5.)

Following 3 months of growth, payroll employment in the goods-producing sector showed little movement in May. Construction employment, which had posted strong gains over the prior 3 months, was unchanged. There was also no change in mining and manufacturing jobs. Within manufacturing, however, there were small gains in several industries--fabricated metals, machinery, and rubber and plastics products--where employment has been boosted by rising exports. These increases were largely offset by small declines in several other industries.

In the service-producing sector, the services industry led over-the-month increases with an employment gain of 80,000, slightly less than average. Within services, business services has had slower than usual growth in recent months, while health services has been particularly strong. Wholesale trade added 25,000 jobs, mostly in its durable goods component. Over the year, wholesale trade employment has risen by 275,000, three-fourths of which was in durable-goods distribution. Employment in the finance, insurance, and real estate industry was down slightly in May. The finance component, which had been one of the best performers throughout much of the expansion, has lost about 10,000 jobs since January.

Weekly Hours (Establishment Survey Data)

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls declined by 0.2 hour in May to 34.7 hours, seasonally adjusted, while the factory workweek edged down 0.1 hour to 41.1 hours. These declines followed sharp increases in the previous month. Manufacturing overtime was unchanged at 4.0 hours, after seasonal adjustment. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 124.5 (1977=100), fell 0.4 percent, seasonally adjusted. The index for manufacturing also declined, 0.3 percent, to 95.8. Both series were up slightly from March. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Average hourly earnings of private production or nonsupervisory workers rose 0.7 percent in May, seasonally adjusted, while average weekly earnings were unchanged. Prior to seasonal adjustment, average hourly earnings rose by 4 cents to \$9.26, and average weekly earnings increased 47 cents to \$320.40. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 178.8 (1977=100) in May, seasonally adjusted, an increase of 0.5 percent from April. For the 12 months ended in May, the increase was 3.4 percent. In dollars of constant purchasing power, the HEI decreased 0.7 percent during the 12-month period ending in April. The HEI excludes 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.)

REVISIONS IN THE ESTABLISHMENT SURVEY DATA

In accordance with annual practice, the establishment survey data have been revised to reflect complete counts of employment (benchmarks). The counts are principally derived from unemployment insurance tax records for the first quarter of 1987. In addition, new seasonal adjustment factors have been calculated to take account of the experience through March 1988.

The effects of these adjustments on current data are shown in table B, which presents data prior to seasonal adjustment for February 1988, the last month of final published estimates prior to this benchmark revision.

Reflecting these changes, all establishment data series have been revised from April 1986 forward, and the seasonally adjusted series have been revised from January 1983 forward. The June 1988 issue of Employment and Earnings will contain a discussion of the effects of the benchmark, current seasonal adjustment factors, and revised estimates for all regularly published tables containing national establishment survey data on employment, hours, and earnings. All of the revised historical series will be published in a special supplement to Employment and Earnings, which is expected to be issued in about a month. This supplement, when combined with the historical volume, Employment, Hours, and Earnings, United States, 1909-84 (BLS Bulletin 1312-12), will comprise the full historical series on national data from the establishment survey.

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The Employment Situation for June 1988 will be released on Friday, July 8, at 8:30 A.M. (EDT).

**Table B. Establishment survey employment estimates for February 1988, not seasonally adjusted**

(In thousands)

Industry	February 1988 employment estimates		Difference
	As revised	Before revision	
<b>Total nonfarm employment.....</b>	<b>103,373</b>	<b>102,969</b>	<b>404</b>
<b>Total private.....</b>	<b>85,844</b>	<b>85,396</b>	<b>448</b>
Mining.....	720	742	-22
Construction.....	4,628	4,641	-13
Manufacturing.....	19,261	19,288	-27
Transportation and public utilities.....	5,446	5,441	5
Wholesale trade.....	5,979	5,855	124
Retail trade.....	18,521	18,201	320
Finance, insurance, and real estate.....	6,571	6,625	-54
Services.....	24,718	24,603	115
<b>Government.....</b>	<b>17,529</b>	<b>17,573</b>	<b>-44</b>
Federal.....	2,955	2,955	0
State.....	4,109	4,098	11
Local.....	10,465	10,520	-55

# 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.

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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>TOTAL</b>									
Noninstitutional population <sup>2</sup> .....	184,259	185,964	186,088	184,259	185,571	185,705	185,847	185,964	186,088
Labor force <sup>3</sup> .....	121,421	121,996	122,489	121,633	122,924	123,084	122,639	123,055	122,692
Participation rate <sup>3</sup> .....	65.9	65.6	65.8	66.0	66.2	66.3	66.0	66.2	65.9
Total employed <sup>2</sup> .....	114,103	115,637	115,936	114,060	115,878	116,145	115,839	116,445	115,909
Employment-population ratio <sup>4</sup> .....	61.9	62.2	62.3	61.9	62.4	62.5	62.3	62.6	62.3
Resident Armed Forces.....	1,726	1,732	1,714	1,726	1,749	1,736	1,736	1,732	1,714
Civilian employed.....	112,377	113,905	114,222	112,334	114,129	114,409	114,103	114,713	114,195
Agriculture.....	3,541	3,193	3,292	3,269	3,293	3,228	3,204	3,228	3,035
Nonagricultural industries.....	108,836	110,712	110,930	109,065	110,836	111,182	110,899	111,485	111,160
Unemployed.....	7,318	6,359	6,553	7,573	7,046	6,938	6,801	6,610	6,783
Unemployment rate <sup>5</sup> .....	6.0	5.2	5.3	6.2	5.7	5.6	5.5	5.4	5.5
Not in labor force.....	62,838	63,968	63,599	62,626	62,647	62,621	63,208	62,909	63,396
<b>Men, 16 years and over</b>									
Noninstitutional population <sup>2</sup> .....	88,361	89,225	89,287	88,361	89,033	89,099	89,168	89,225	89,287
Labor force <sup>3</sup> .....	67,738	67,798	68,272	67,802	68,243	68,343	68,148	68,445	68,318
Participation rate <sup>3</sup> .....	76.7	76.0	76.5	76.7	76.6	76.7	76.4	76.7	76.5
Total employed <sup>2</sup> .....	63,660	64,288	64,696	63,543	64,396	64,636	64,332	64,892	64,583
Employment-population ratio <sup>4</sup> .....	72.0	72.1	72.5	71.9	72.3	72.5	72.1	72.7	72.3
Resident Armed Forces.....	1,566	1,569	1,553	1,566	1,588	1,577	1,573	1,569	1,553
Civilian employed.....	62,094	62,719	63,143	61,977	62,808	63,059	62,759	63,323	63,030
Unemployed.....	4,078	3,510	3,575	4,259	3,847	3,707	3,816	3,553	3,736
Unemployment rate <sup>5</sup> .....	6.0	5.2	5.2	6.3	5.6	5.4	5.6	5.2	5.5
<b>Women, 16 years and over</b>									
Noninstitutional population <sup>2</sup> .....	95,898	96,739	96,801	95,898	96,538	96,606	96,679	96,739	96,801
Labor force <sup>3</sup> .....	53,683	54,198	54,218	53,831	54,681	54,740	54,491	54,610	54,374
Participation rate <sup>3</sup> .....	56.0	56.0	56.0	56.1	56.6	56.7	56.4	56.5	56.2
Total employed <sup>2</sup> .....	50,443	51,349	51,240	50,517	51,482	51,509	51,507	51,553	51,327
Employment-population ratio <sup>4</sup> .....	52.6	53.1	52.9	52.7	53.3	53.3	53.3	53.3	53.0
Resident Armed Forces.....	160	163	161	160	161	159	163	163	161
Civilian employed.....	50,283	51,186	51,079	50,357	51,321	51,350	51,344	51,390	51,166
Unemployed.....	3,240	2,849	2,978	3,314	3,200	3,231	2,985	3,057	3,047
Unemployment rate <sup>5</sup> .....	6.0	5.3	5.5	6.2	5.9	5.9	5.5	5.6	5.6

<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).

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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>TOTAL</b>									
Civilian noninstitutional population.....	182,533	184,232	184,374	182,533	183,822	183,969	184,111	184,232	184,374
Civilian labor force.....	119,695	120,264	120,775	119,907	121,175	121,348	120,903	121,323	120,978
Participation rate.....	65.6	65.3	65.5	65.7	65.9	66.0	65.7	65.9	65.6
Employed.....	112,377	113,905	114,222	112,334	114,129	114,409	114,103	114,713	114,195
Employment-population ratio <sup>2</sup> .....	61.6	61.8	62.0	61.5	62.1	62.2	62.0	62.3	61.9
Unemployed.....	7,318	6,359	6,553	7,573	7,046	6,938	6,801	6,610	6,783
Unemployment rate.....	6.1	5.3	5.4	6.3	5.8	5.7	5.6	5.4	5.6
<b>Men, 20 years and over</b>									
Civilian noninstitutional population.....	79,474	80,326	80,402	79,474	80,120	80,203	80,260	80,326	80,402
Civilian labor force.....	62,147	62,442	62,696	62,129	62,440	62,696	62,497	62,791	62,662
Participation rate.....	78.2	77.7	78.0	78.2	77.9	78.2	77.9	78.2	77.9
Employed.....	58,828	59,504	59,745	58,673	59,287	59,625	59,407	59,883	59,590
Employment-population ratio <sup>2</sup> .....	74.0	74.1	74.3	73.8	74.0	74.3	74.0	74.5	74.1
Agriculture.....	2,548	2,280	2,336	2,383	2,323	2,280	2,253	2,255	2,181
Nonagricultural industries.....	56,280	57,224	57,409	56,290	56,964	57,344	57,154	57,627	57,409
Unemployed.....	3,319	2,938	2,952	3,456	3,154	3,071	3,089	2,909	3,072
Unemployment rate.....	5.3	4.7	4.7	5.6	5.1	4.9	4.9	4.6	4.9
<b>Women, 20 years and over</b>									
Civilian noninstitutional population.....	88,464	89,307	89,382	88,464	89,110	89,178	89,261	89,307	89,382
Civilian labor force.....	49,725	50,465	50,426	49,728	50,558	50,640	50,542	50,612	50,441
Participation rate.....	56.2	56.5	56.4	56.2	56.7	56.8	56.6	56.7	56.4
Employed.....	47,104	48,162	48,018	47,028	47,977	48,005	48,132	48,170	47,960
Employment-population ratio <sup>2</sup> .....	53.2	53.9	53.7	53.2	53.8	53.8	53.9	53.9	53.7
Agriculture.....	690	637	644	629	646	654	656	692	587
Nonagricultural industries.....	46,414	47,525	47,373	46,399	47,331	47,351	47,476	47,478	47,373
Unemployed.....	2,621	2,303	2,409	2,700	2,581	2,635	2,411	2,442	2,481
Unemployment rate.....	5.3	4.6	4.8	5.4	5.1	5.2	4.8	4.8	4.9
<b>Both sexes, 16 to 19 years</b>									
Civilian noninstitutional population.....	14,595	14,598	14,590	14,595	14,592	14,588	14,591	14,598	14,590
Civilian labor force.....	7,823	7,357	7,652	8,050	8,177	8,011	7,865	7,919	7,875
Participation rate.....	53.6	50.4	52.4	55.2	56.0	54.9	53.9	54.2	54.0
Employed.....	6,445	6,239	6,459	6,633	6,865	6,779	6,564	6,660	6,645
Employment-population ratio <sup>2</sup> .....	44.2	42.7	44.3	45.4	47.0	46.5	45.0	45.6	45.5
Agriculture.....	303	276	312	257	323	293	295	280	267
Nonagricultural industries.....	6,142	5,962	6,147	6,376	6,542	6,486	6,269	6,380	6,378
Unemployed.....	1,378	1,118	1,193	1,417	1,312	1,232	1,301	1,259	1,230
Unemployment rate.....	17.6	15.2	15.6	17.6	16.0	15.4	16.5	15.9	15.6

<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.

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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>WHITE</b>									
Civilian noninstitutional population.....	156,811	157,943	158,034	156,811	157,676	157,773	157,868	157,943	158,034
Civilian labor force.....	103,271	103,758	104,125	103,416	104,252	104,530	104,171	104,574	104,209
Participation rate.....	65.9	65.7	65.9	65.9	66.1	66.3	66.0	66.2	65.9
Employed.....	97,908	99,141	99,414	97,829	99,044	99,474	99,274	99,751	99,297
Employment-population ratio <sup>2</sup> .....	62.4	62.8	62.9	62.4	62.8	63.0	62.9	63.2	62.8
Unemployed.....	5,363	4,617	4,711	5,587	5,208	5,056	4,897	4,824	4,913
Unemployment rate.....	5.2	4.5	4.5	5.4	5.0	4.8	4.7	4.6	4.7
<b>Men, 20 years and over</b>									
Civilian labor force.....	54,282	54,430	54,703	54,238	54,455	54,650	54,522	54,699	54,618
Participation rate.....	78.6	78.1	78.4	78.5	78.3	78.5	78.2	78.5	78.3
Employed.....	51,807	52,275	52,523	51,626	52,053	52,389	52,245	52,538	52,314
Employment-population ratio <sup>2</sup> .....	75.0	75.0	75.3	74.7	74.8	75.2	75.0	75.4	75.0
Unemployed.....	2,474	2,155	2,180	2,612	2,402	2,260	2,277	2,161	2,304
Unemployment rate.....	4.6	4.0	4.0	4.8	4.4	4.1	4.2	4.0	4.2
<b>Women, 20 years and over</b>									
Civilian labor force.....	42,151	42,882	42,808	42,182	42,710	42,915	42,841	42,986	42,827
Participation rate.....	55.6	56.2	56.0	55.7	56.3	56.3	56.2	56.3	56.1
Employed.....	40,303	41,297	41,145	40,268	40,896	40,985	41,183	41,297	41,104
Employment-population ratio <sup>2</sup> .....	53.2	54.1	53.9	53.1	53.7	53.8	54.0	54.1	53.8
Unemployed.....	1,848	1,586	1,663	1,914	1,813	1,930	1,658	1,689	1,723
Unemployment rate.....	4.4	3.7	3.9	4.5	4.2	4.5	3.9	3.9	4.0
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force.....	6,838	6,445	6,614	6,996	7,087	6,965	6,807	6,889	6,764
Participation rate.....	57.2	54.2	55.7	58.5	59.6	58.6	57.2	58.0	57.0
Employed.....	5,798	5,569	5,746	5,935	6,095	6,100	5,845	5,916	5,879
Employment-population ratio <sup>2</sup> .....	48.5	46.9	48.4	49.7	51.2	51.3	49.1	49.8	49.5
Unemployed.....	1,041	876	868	1,061	992	865	962	973	885
Unemployment rate.....	15.2	13.6	13.1	15.2	14.0	12.4	14.1	14.1	13.1
Men.....	16.3	14.1	13.0	17.0	14.4	12.2	15.7	14.5	13.8
Women.....	14.1	13.1	13.2	13.3	13.6	12.7	12.4	13.7	12.4
<b>BLACK</b>									
Civilian noninstitutional population.....	20,312	20,622	20,650	20,312	20,539	20,569	20,596	20,622	20,650
Civilian labor force.....	12,861	12,941	13,042	12,889	13,222	13,168	13,098	13,078	13,069
Participation rate.....	63.3	62.8	63.2	63.5	64.4	64.0	63.6	63.4	63.3
Employed.....	11,119	11,394	11,440	11,129	11,608	11,504	11,420	11,482	11,452
Employment-population ratio <sup>2</sup> .....	54.7	55.3	55.4	54.8	56.5	55.9	55.4	55.7	55.5
Unemployed.....	1,742	1,547	1,602	1,760	1,614	1,663	1,678	1,597	1,617
Unemployment rate.....	13.5	12.0	12.3	13.7	12.2	12.6	12.8	12.2	12.4
<b>Men, 20 years and over</b>									
Civilian labor force.....	6,051	6,142	6,123	6,037	6,115	6,166	6,127	6,163	6,107
Participation rate.....	75.2	75.1	74.7	75.0	75.0	75.6	75.0	75.3	74.5
Employed.....	5,311	5,467	5,465	5,296	5,497	5,472	5,429	5,511	5,449
Employment-population ratio <sup>2</sup> .....	66.0	66.8	66.7	65.8	67.5	67.1	66.4	67.3	66.5
Unemployed.....	740	675	658	741	618	694	699	652	658
Unemployment rate.....	12.2	11.0	10.7	12.3	10.1	11.3	11.4	10.6	10.8
<b>Women, 20 years and over</b>									
Civilian labor force.....	5,991	6,062	6,061	5,987	6,244	6,131	6,136	6,093	6,059
Participation rate.....	59.3	59.1	59.0	59.3	61.1	59.9	59.9	59.4	59.0
Employed.....	5,294	5,412	5,414	5,292	5,550	5,495	5,465	5,407	5,414
Employment-population ratio <sup>2</sup> .....	52.4	52.7	52.7	52.4	54.3	53.7	53.3	52.7	52.7
Unemployed.....	697	650	647	695	694	636	671	686	645
Unemployment rate.....	11.6	10.7	10.7	11.6	11.1	10.4	10.9	11.3	10.6
<b>Both sexes, 16 to 19 years</b>									
Civilian labor force.....	819	737	857	865	863	870	834	822	903
Participation rate.....	37.9	33.8	39.3	40.0	39.8	40.0	38.3	37.7	41.4
Employed.....	514	516	560	541	561	537	526	564	599
Employment-population ratio <sup>2</sup> .....	23.8	23.7	25.7	25.0	25.8	24.7	24.2	25.9	27.0
Unemployed.....	305	221	297	324	302	333	308	258	314
Unemployment rate.....	37.3	30.0	34.6	37.5	35.0	38.3	36.9	31.4	34.8
Men.....	38.0	24.8	33.1	38.3	35.1	42.0	39.0	27.6	33.3
Women.....	36.5	35.8	36.7	36.6	34.9	34.7	35.0	35.5	36.6
<b>HISPANIC ORIGIN</b>									
Civilian noninstitutional population.....	12,809	13,230	13,268	12,809	13,115	13,153	13,192	13,230	13,268
Civilian labor force.....	8,506	8,773	8,819	8,549	8,879	9,017	8,803	8,828	8,859
Participation rate.....	66.4	66.3	66.5	66.7	67.7	68.6	66.7	66.7	66.8
Employed.....	7,791	8,002	8,058	7,797	8,238	8,268	8,079	8,010	8,058
Employment-population ratio <sup>2</sup> .....	60.8	60.5	60.7	60.9	62.8	62.9	61.2	60.5	60.7
Unemployed.....	715	771	762	752	642	749	724	818	801
Unemployment rate.....	8.4	8.8	8.6	8.8	7.2	8.3	8.2	9.3	9.0

<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					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>CHARACTERISTIC</b>									
Civilian employed, 16 years and over.....	112,377	113,905	114,222	112,334	114,129	114,409	114,103	114,713	114,195
Married men, spouse present.....	40,189	40,338	40,388	40,075	40,404	40,475	40,481	40,459	40,267
Married women, spouse present.....	28,410	28,888	28,681	28,314	28,441	28,707	28,805	28,859	28,567
Women who maintain families.....	6,051	6,109	6,034	5,963	6,168	6,157	6,160	6,055	5,957
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>									
<b>Agriculture:</b>									
Wage and salary workers.....	1,846	1,688	1,685	1,672	1,666	1,677	1,648	1,678	1,526
Self-employed workers.....	1,501	1,356	1,419	1,429	1,454	1,414	1,423	1,385	1,346
Unpaid family workers.....	194	149	188	165	138	114	142	155	159
<b>Nonagricultural industries:</b>									
Wage and salary workers.....	100,475	101,897	101,785	100,634	102,507	102,683	102,279	102,538	101,927
Government.....	16,910	17,236	17,090	16,708	17,197	16,948	16,908	17,015	16,887
Private industries.....	83,566	84,660	84,696	83,926	85,310	85,735	85,371	85,523	85,040
Private households.....	1,265	1,087	1,180	1,240	1,147	1,170	1,175	1,092	1,156
Other industries.....	82,301	83,573	83,516	82,686	84,163	84,565	84,196	84,431	83,884
Self-employed workers.....	8,093	8,533	8,846	8,157	8,150	8,312	8,366	8,637	8,917
Unpaid family workers.....	268	283	297	276	237	228	248	281	307
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>									
<b>All industries:</b>									
Part time for economic reasons.....	5,139	4,851	4,674	5,333	5,367	5,566	5,343	5,194	4,844
Slack work.....	2,156	2,167	2,096	2,292	2,396	2,478	2,520	2,236	2,227
Could only find part-time work.....	2,561	2,287	2,215	2,677	2,640	2,598	2,535	2,502	2,315
Voluntary part time.....	15,243	16,082	15,544	14,498	14,571	14,572	14,603	15,016	14,790
<b>Nonagricultural industries:</b>									
Part time for economic reasons.....	4,898	4,624	4,484	5,058	5,145	5,254	5,106	4,924	4,623
Slack work.....	2,013	2,053	2,008	2,126	2,260	2,327	2,325	2,121	2,120
Could only find part-time work.....	2,475	2,196	2,126	2,603	2,566	2,457	2,475	2,397	2,236
Voluntary part time.....	14,660	15,540	15,012	13,995	14,096	14,123	14,141	14,592	14,338

<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.

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		
	I	II	III	IV	I	Mar.	Apr.	May
U-1 Persons unemployed 15 weeks or longer as a percent of the civilian labor force.....	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.3
U-2 Job losers as a percent of the civilian labor force.....	3.2	3.0	2.8	2.7	2.6	2.6	2.4	2.7
U-3 Unemployed persons 25 years and over as a percent of the civilian labor force.....	5.1	4.8	4.6	4.5	4.4	4.2	4.1	4.3
U-4 Unemployed full-time jobseekers as a percent of the full-time civilian labor force.....	6.2	5.9	5.6	5.5	5.4	5.3	5.1	5.2
U-5a Total unemployed as a percent of the labor force, including the resident Armed Forces.....	6.5	6.2	5.9	5.8	5.6	5.5	5.4	5.5
U-5b Total unemployed as a percent of the civilian labor force.....	6.6	6.3	6.0	5.9	5.7	5.6	5.4	5.6
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.....	9.0	8.5	8.2	8.1	8.0	7.9	7.6	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.....	9.9	9.3	9.0	8.8	8.8	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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>CHARACTERISTIC</b>									
Total, 16 years and over.....	7,573	6,610	6,783	6.3	5.8	5.7	5.6	5.4	5.6
Men, 16 years and over.....	4,259	3,553	3,736	6.4	5.8	5.6	5.7	5.3	5.6
Men, 20 years and over.....	3,456	2,909	3,072	5.6	5.1	4.9	4.9	4.6	4.9
Women, 16 years and over.....	3,314	3,057	3,047	6.2	5.9	5.9	5.5	5.6	5.6
Women, 20 years and over.....	2,700	2,442	2,481	5.4	5.1	5.2	4.8	4.8	4.9
Both sexes, 16 to 19 years.....	1,417	1,259	1,230	17.6	16.0	15.4	16.5	15.9	15.6
Married men, spouse present.....	1,659	1,262	1,359	4.0	3.6	3.4	3.4	3.0	3.3
Married women, spouse present.....	1,247	1,128	1,157	4.2	4.2	4.1	4.0	3.8	3.9
Women who maintain families.....	627	573	546	9.5	8.9	8.3	7.5	8.7	8.4
Full-time workers.....	6,053	5,302	5,418	5.9	5.4	5.3	5.3	5.1	5.2
Part-time workers.....	1,502	1,299	1,341	8.7	8.3	7.9	7.7	7.4	7.7
Labor force time lost <sup>2</sup> .....	--	--	--	7.2	6.6	6.6	6.5	6.2	6.4
<b>INDUSTRY</b>									
Nonagricultural private wage and salary workers.....	5,634	4,793	5,099	6.3	5.8	5.7	5.6	5.3	5.7
Goods-producing industries.....	2,234	1,903	1,925	7.7	7.1	6.9	6.5	6.5	6.6
Mining.....	104	70	80	13.0	7.7	7.8	7.9	8.4	10.4
Construction.....	749	679	660	12.1	12.2	11.0	10.7	10.6	10.5
Manufacturing.....	1,381	1,154	1,185	6.3	5.6	5.6	5.2	5.3	5.4
Durable goods.....	796	621	636	6.2	5.5	5.9	5.2	4.8	4.9
Nondurable goods.....	585	534	548	6.5	5.8	5.3	5.3	6.0	6.0
Service-producing industries.....	3,400	2,890	3,174	5.6	5.3	5.1	5.2	4.7	5.2
Transportation and public utilities.....	275	243	281	4.4	3.6	3.6	4.2	3.8	4.4
Wholesale and retail trade.....	1,597	1,330	1,430	7.0	6.1	6.4	6.8	5.9	6.3
Finance and service industries.....	1,528	1,317	1,463	4.9	4.9	4.5	4.2	4.1	4.6
Government workers.....	583	520	509	3.4	3.0	2.8	2.8	3.0	2.9
Agricultural wage and salary workers.....	174	199	246	9.4	11.5	10.2	11.0	10.6	13.9

<sup>1</sup> Unemployment as a percent of the civilian labor force.<sup>2</sup> Aggregate hours lost by the unemployed and persons on

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

Table A-7. Duration of unemployment

(Numbers in thousands)

Weeks of unemployment	Not seasonally adjusted			Seasonally adjusted					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>DURATION</b>									
Less than 5 weeks.....	3,255	2,781	3,035	3,308	3,089	3,084	3,009	3,125	3,075
5 to 14 weeks.....	1,798	1,751	1,753	2,165	2,263	2,145	2,101	1,956	2,110
15 weeks and over.....	2,265	1,827	1,765	2,067	1,733	1,740	1,722	1,540	1,609
15 to 26 weeks.....	1,105	963	891	974	839	841	887	725	784
27 weeks and over.....	1,160	864	874	1,093	894	899	835	816	825
Average (mean) duration, in weeks.....	15.5	14.4	14.4	14.8	14.4	14.4	13.7	13.4	13.8
Median duration, in weeks.....	6.6	6.8	5.9	6.6	6.4	6.4	6.6	5.6	5.9
<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.....	44.5	43.7	46.3	43.9	43.6	44.3	44.0	47.2	45.3
5 to 14 weeks.....	24.6	27.5	26.8	28.7	31.9	30.8	30.8	29.5	31.1
15 weeks and over.....	31.0	28.7	26.9	27.4	24.5	25.0	25.2	23.3	23.7
15 to 26 weeks.....	15.1	15.1	13.6	12.9	11.8	12.1	13.0	10.9	11.5
27 weeks and over.....	15.9	13.6	13.3	14.5	12.6	12.9	12.2	12.3	12.1

Table A-8. Reason for unemployment

(Numbers in thousands)

Reason	Not seasonally adjusted			Seasonally adjusted					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
<b>NUMBER OF UNEMPLOYED</b>									
Job losers.....	3,412	2,977	3,058	3,612	3,209	3,207	3,139	2,916	3,236
On layoff.....	815	785	698	924	888	884	899	821	793
Other job losers.....	2,597	2,192	2,360	2,688	2,320	2,323	2,240	2,095	2,443
Job leavers.....	830	895	820	931	1,082	961	1,075	993	926
Reentrants.....	2,044	1,643	1,835	1,995	1,917	1,951	1,756	1,784	1,789
New entrants.....	1,033	843	841	999	885	864	887	915	807
<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	46.8	46.7	47.9	45.2	45.9	45.8	44.1	47.9
On layoff.....	11.1	12.3	10.7	12.3	12.9	12.7	13.1	12.4	11.7
Other job losers.....	35.5	34.5	36.0	35.7	32.7	33.3	32.7	31.7	36.2
Job leavers.....	11.3	14.1	12.5	12.4	15.3	13.8	15.7	15.0	13.7
Reentrants.....	27.9	25.8	28.0	26.5	27.0	27.9	25.6	27.0	26.5
New entrants.....	14.1	13.3	12.8	13.3	12.5	12.4	12.9	13.8	11.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>									
Job losers.....	2.9	2.5	2.6	3.0	2.6	2.6	2.6	2.4	2.7
Job leavers.....	.7	.7	.7	.8	.9	.8	.9	.8	.8
Reentrants.....	1.7	1.4	1.5	1.7	1.6	1.6	1.5	1.5	1.5
New entrants.....	.9	.7	.7	.8	.7	.7	.7	.8	.7

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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
Total, 16 years and over.....	7,573	6,610	6,783	6.3	5.8	5.7	5.6	5.4	5.6
16 to 24 years.....	2,895	2,532	2,519	12.5	11.6	11.1	11.7	11.2	11.3
16 to 19 years.....	1,417	1,259	1,230	17.6	16.0	15.4	16.5	15.9	15.6
16 to 17 years.....	717	580	509	21.0	18.7	17.4	17.6	17.8	16.1
18 to 19 years.....	702	658	720	15.2	14.5	13.9	15.8	14.2	15.3
20 to 24 years.....	1,478	1,273	1,289	9.8	9.1	8.7	9.1	8.7	8.9
25 years and over.....	4,657	4,082	4,251	4.8	4.5	4.5	4.2	4.1	4.3
25 to 54 years.....	4,134	3,625	3,744	5.1	4.7	4.7	4.5	4.3	4.5
55 years and over.....	532	446	520	3.6	3.5	3.3	2.9	2.9	3.5
Men, 16 years and over.....	4,259	3,553	3,736	6.4	5.8	5.6	5.7	5.3	5.6
16 to 24 years.....	1,586	1,315	1,354	13.2	12.2	11.3	12.1	11.2	11.6
16 to 19 years.....	803	644	664	19.6	16.4	15.6	17.8	15.8	16.2
16 to 17 years.....	401	291	275	22.7	19.4	16.9	18.5	17.2	16.7
18 to 19 years.....	402	352	388	17.2	14.9	14.7	17.3	14.7	15.8
20 to 24 years.....	783	671	690	9.9	9.9	9.0	9.1	8.8	9.1
25 years and over.....	2,648	2,243	2,363	4.9	4.4	4.3	4.3	4.1	4.3
25 to 54 years.....	2,310	1,951	2,051	5.1	4.5	4.5	4.5	4.2	4.4
55 years and over.....	348	276	323	3.9	4.0	3.4	3.4	3.1	3.7
Women, 16 years and over.....	3,314	3,057	3,047	6.2	5.9	5.9	5.5	5.6	5.6
16 to 24 years.....	1,309	1,217	1,166	11.8	10.9	10.8	11.3	11.3	11.0
16 to 19 years.....	614	615	566	15.6	15.6	15.1	15.2	16.0	15.0
16 to 17 years.....	316	289	234	19.1	17.9	18.0	16.6	18.4	15.5
18 to 19 years.....	300	306	332	13.1	14.1	13.1	14.2	13.7	14.7
20 to 24 years.....	695	602	600	9.7	8.2	8.4	9.1	8.7	8.8
25 years and over.....	2,009	1,838	1,888	4.7	4.6	4.7	4.1	4.2	4.3
25 to 54 years.....	1,824	1,674	1,693	5.0	4.9	4.9	4.4	4.5	4.5
55 years and over.....	184	170	197	3.0	2.8	3.1	2.3	2.7	3.2

<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>					
	May 1987	Apr. 1988	May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May 1988
Civilian noninstitutional population.....	25,723	26,289	26,340	25,723	26,146	26,196	26,243	26,289	26,340
Civilian labor force.....	16,424	16,506	16,650	16,472	16,926	16,779	16,779	16,733	16,698
Participation rate.....	63.9	62.8	63.2	64.0	64.7	64.1	63.9	63.7	63.4
Employed.....	14,469	14,764	14,807	14,475	15,076	14,884	14,853	14,939	14,818
Employment-population ratio <sup>2</sup> .....	56.2	56.2	56.2	56.3	57.7	56.8	56.6	56.8	56.3
Unemployed.....	1,955	1,742	1,843	1,997	1,850	1,895	1,926	1,795	1,879
Unemployment rate.....	11.9	10.6	11.1	12.1	10.9	11.3	11.5	10.7	11.3
Not in labor force.....	9,298	9,783	9,690	9,251	9,220	9,417	9,464	9,556	9,642

<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.

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

(Numbers in thousands)

Occupation	Civilian employed		Unemployed		Unemployment rate	
	May 1987	May 1988	May 1987	May 1988	May 1987	May 1988
Total, 16 years and over <sup>1</sup> .....	112,377	114,222	7,318	6,553	6.1	5.4
Managerial and professional specialty.....	27,536	29,113	627	499	2.2	1.7
Executive, administrative, and managerial.....	13,117	14,289	362	299	2.7	2.0
Professional specialty.....	14,418	14,824	265	200	1.8	1.3
Technical, sales, and administrative support.....	34,868	34,740	1,539	1,477	4.2	4.1
Technicians and related support.....	3,234	3,363	109	105	3.3	3.0
Sales occupations.....	13,463	13,463	729	637	5.1	4.5
Administrative support, including clerical.....	18,171	17,914	700	734	3.7	3.9
Service occupations.....	15,125	15,250	1,197	1,116	7.3	6.8
Private household.....	899	905	52	51	5.5	5.4
Protective service.....	1,887	1,884	104	94	5.2	4.8
Service, except private household and protective.....	12,339	12,461	1,041	970	7.8	7.2
Precision production, craft, and repair.....	13,456	13,859	881	749	6.1	5.1
Mechanics and repairers.....	4,341	4,553	198	163	4.4	3.4
Construction trades.....	4,990	5,180	453	364	8.3	6.6
Other precision production, craft, and repair.....	4,125	4,126	230	223	5.3	5.1
Operators, fabricators, and laborers.....	17,381	17,540	1,806	1,596	9.4	8.3
Machine operators, assemblers, and inspectors.....	7,943	7,988	820	642	9.4	7.4
Transportation and material moving occupations.....	4,714	4,823	315	283	6.3	5.5
Handlers, equipment cleaners, helpers, and laborers.....	4,724	4,729	671	671	12.4	12.4
Construction laborers.....	810	717	178	186	18.0	20.6
Other handlers, equipment cleaners, helpers, and laborers.....	3,914	4,011	493	485	11.2	10.8
Farming, forestry, and fishing.....	4,012	3,720	185	242	4.4	6.1

<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	
	May 1987	May 1988	May 1987	May 1988	May 1987	May 1988	May 1987	May 1988	May 1987	May 1988
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over.....	7,836	7,900	7,250	7,290	6,937	6,984	313	306	4.3	4.2
30 to 44 years .....	6,260	5,975	5,974	5,696	5,723	5,440	251	256	4.2	4.5
30 to 34 years .....	956	718	912	677	841	618	71	59	7.8	8.7
35 to 39 years .....	2,663	2,214	2,538	2,095	2,433	2,005	105	90	4.1	4.3
40 to 44 years .....	2,641	3,043	2,524	2,924	2,449	2,817	75	107	3.0	3.7
45 years and over .....	1,576	1,925	1,276	1,594	1,214	1,544	62	50	4.9	3.1
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	19,321	20,284	18,244	19,115	17,405	18,334	839	781	4.6	4.1
30 to 34 years .....	8,812	9,048	8,403	8,539	8,009	8,167	394	372	4.7	4.4
35 to 39 years .....	6,137	6,751	5,787	6,409	5,526	6,167	261	242	4.5	3.8
40 to 44 years .....	4,372	4,485	4,054	4,167	3,870	4,000	184	167	4.5	4.0

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

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

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

(Numbers in thousands)

State and employment status	Not seasonally adjusted <sup>1</sup>			Seasonally adjusted <sup>2</sup>					
	May. 1987	Apr. 1988	May. 1988	May. 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988	May. 1988
<b>California</b>									
Civilian noninstitutional population.....	20,481	20,894	20,931	20,481	20,787	20,824	20,860	20,894	20,931
Civilian labor force.....	13,783	14,037	14,066	13,863	13,981	14,032	13,976	14,077	14,142
Employed.....	13,018	13,338	13,251	13,020	13,267	13,279	13,272	13,362	13,251
Unemployed.....	766	699	815	843	714	753	704	715	891
Unemployment rate.....	5.6	5.0	5.8	6.1	5.1	5.4	5.0	5.1	6.3
<b>Florida</b>									
Civilian noninstitutional population.....	9,398	9,628	9,648	9,398	9,568	9,588	9,609	9,628	9,648
Civilian labor force.....	5,879	6,035	6,104	5,863	5,993	6,013	6,066	6,093	6,086
Employed.....	5,581	5,731	5,816	5,548	5,698	5,695	5,771	5,773	5,780
Unemployed.....	297	304	288	315	295	318	295	320	306
Unemployment rate.....	5.1	5.0	4.7	5.4	4.9	5.3	4.9	5.3	5.0
<b>Illinois</b>									
Civilian noninstitutional population.....	8,732	8,773	8,776	8,732	8,764	8,767	8,770	8,773	8,776
Civilian labor force.....	5,719	5,684	5,731	5,719	5,795	5,839	5,749	5,746	5,733
Employed.....	5,251	5,263	5,336	5,262	5,407	5,401	5,330	5,332	5,352
Unemployed.....	469	421	395	457	388	438	419	414	381
Unemployment rate.....	8.2	7.4	6.9	8.0	6.7	7.5	7.3	7.2	6.6
<b>Massachusetts</b>									
Civilian noninstitutional population.....	4,585	4,599	4,600	4,585	4,597	4,598	4,599	4,599	4,600
Civilian labor force.....	3,063	3,135	3,106	3,081	3,142	3,147	3,190	3,163	3,124
Employed.....	2,960	3,044	3,022	2,972	3,036	3,041	3,096	3,072	3,036
Unemployed.....	103	92	84	109	106	106	94	91	88
Unemployment rate.....	3.4	2.9	2.7	3.5	3.4	3.4	2.9	2.9	2.8
<b>Michigan</b>									
Civilian noninstitutional population.....	6,922	6,981	6,986	6,922	6,966	6,972	6,977	6,981	6,986
Civilian labor force.....	4,520	4,511	4,507	4,508	4,472	4,530	4,488	4,556	4,498
Employed.....	4,151	4,171	4,212	4,140	4,018	4,149	4,117	4,220	4,205
Unemployed.....	369	340	295	368	454	381	371	336	293
Unemployment rate.....	8.2	7.5	6.5	8.2	10.2	8.4	8.3	7.4	6.5
<b>New Jersey</b>									
Civilian noninstitutional population.....	5,997	6,032	6,034	5,997	6,024	6,027	6,029	6,032	6,034
Civilian labor force.....	4,043	3,954	3,966	4,000	4,037	3,991	3,985	3,969	3,922
Employed.....	3,875	3,829	3,817	3,834	3,884	3,856	3,826	3,831	3,776
Unemployed.....	168	125	149	166	153	135	159	138	146
Unemployment rate.....	4.2	3.2	3.8	4.2	3.8	3.4	4.0	3.5	3.7
<b>New York</b>									
Civilian noninstitutional population.....	13,752	13,769	13,770	13,752	13,768	13,769	13,770	13,769	13,770
Civilian labor force.....	8,305	8,224	8,270	8,462	8,524	8,505	8,465	8,363	8,429
Employed.....	7,924	7,942	7,929	8,062	8,120	8,172	8,142	8,072	8,071
Unemployed.....	380	282	340	400	404	333	323	291	358
Unemployment rate.....	4.6	3.4	4.1	4.7	4.7	3.9	3.8	3.5	4.2
<b>North Carolina</b>									
Civilian noninstitutional population.....	4,800	4,869	4,875	4,800	4,852	4,858	4,864	4,869	4,875
Civilian labor force.....	3,231	3,252	3,291	3,235	3,291	3,300	3,296	3,300	3,297
Employed.....	3,096	3,142	3,182	3,094	3,135	3,180	3,171	3,177	3,183
Unemployed.....	135	109	109	141	156	120	125	123	114
Unemployment rate.....	4.2	3.4	3.3	4.4	4.7	3.6	3.8	3.7	3.5
<b>Ohio</b>									
Civilian noninstitutional population.....	8,149	8,190	8,194	8,149	8,181	8,184	8,188	8,190	8,194
Civilian labor force.....	5,275	5,257	5,243	5,277	5,330	5,355	5,369	5,277	5,248
Employed.....	4,903	4,941	4,941	4,884	4,983	5,013	4,958	4,945	4,922
Unemployed.....	372	316	302	393	347	342	411	332	326
Unemployment rate.....	7.1	6.0	5.8	7.4	6.5	6.4	7.7	6.3	6.2
<b>Pennsylvania</b>									
Civilian noninstitutional population.....	9,285	9,315	9,317	9,285	9,309	9,312	9,314	9,315	9,317
Civilian labor force.....	5,595	5,656	5,635	5,624	5,827	5,786	5,728	5,753	5,661
Employed.....	5,294	5,396	5,355	5,315	5,497	5,486	5,435	5,477	5,375
Unemployed.....	301	260	279	309	330	300	293	276	286
Unemployment rate.....	5.4	4.6	5.0	5.5	5.7	5.2	5.1	4.8	5.1
<b>Texas</b>									
Civilian noninstitutional population.....	12,017	12,058	12,061	12,017	12,050	12,053	12,056	12,058	12,061
Civilian labor force.....	8,337	8,235	8,334	8,376	8,255	8,306	8,252	8,334	8,372
Employed.....	7,620	7,658	7,729	7,658	7,595	7,610	7,582	7,711	7,770
Unemployed.....	718	577	605	718	660	696	670	623	602
Unemployment rate.....	8.6	7.0	7.3	8.6	8.0	8.4	8.1	7.5	7.2

<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					
	May 1987	Mar. 1988	Apr. p 1988	May p 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. p 1988	May p 1988
Total .....	102,268	104,161	105,144	105,946	101,829	104,262	104,729	105,020	105,269	105,478
Total private .....	84,965	86,490	87,486	88,252	84,859	87,044	87,475	87,700	87,957	88,122
Goods-producing .....	24,650	24,812	25,180	25,451	24,653	25,180	25,271	25,330	25,438	25,446
Mining .....	712	723	731	733	716	728	731	733	739	737
Oil and gas extraction .....	393.8	414.7	416.2	416.3	401	414	415	419	423	423
Construction .....	5,012	4,787	5,083	5,286	4,967	5,083	5,150	5,192	5,240	5,234
General building contractors .....	1,311.3	1,290.6	1,348.8	1,390.2	1,316	1,365	1,377	1,383	1,401	1,396
Manufacturing .....	18,926	19,302	19,366	19,432	18,970	19,369	19,390	19,405	19,459	19,475
Production workers .....	12,890	13,165	13,210	13,268	12,923	13,225	13,249	13,251	13,279	13,301
Durable goods .....	11,159	11,377	11,431	11,469	11,159	11,393	11,404	11,411	11,458	11,470
Production workers .....	7,414	7,575	7,617	7,653	7,408	7,582	7,599	7,598	7,632	7,648
Lumber and wood products .....	737.3	734.9	742.3	756.4	738	754	756	755	757	757
Furniture and fixtures .....	511.4	534.4	535.1	534.7	514	536	535	534	536	537
Stone, clay, and glass products .....	586.0	571.0	584.1	588.5	581	583	584	585	587	583
Primary metal industries .....	746.1	774.6	775.7	777.7	743	768	770	772	773	775
Blast furnaces and basic steel products .....	269.3	280.5	280.7	281.5	265	279	280	281	281	281
Fabricated metal products .....	1,396.8	1,432.9	1,439.2	1,448.9	1,397	1,435	1,438	1,439	1,444	1,449
Machinery, except electrical .....	2,010.1	2,105.4	2,114.4	2,121.0	2,007	2,085	2,091	2,099	2,110	2,117
Electrical and electronic equipment .....	2,064.7	2,108.5	2,109.1	2,107.3	2,072	2,112	2,112	2,115	2,118	2,116
Transportation equipment .....	2,049.2	2,030.9	2,043.9	2,050.2	2,048	2,036	2,031	2,025	2,044	2,050
Motor vehicles and equipment .....	872.6	840.3	848.4	854.3	869	839	837	835	848	852
Instruments and related products .....	692.2	704.7	704.7	705.8	693	704	705	705	705	707
Miscellaneous manufacturing .....	365.6	379.9	382.2	378.9	366	380	382	382	384	379
Nondurable goods .....	7,767	7,925	7,935	7,963	7,811	7,976	7,986	7,994	8,001	8,005
Production workers .....	5,476	5,590	5,593	5,615	5,515	5,643	5,650	5,653	5,647	5,653
Food and kindred products .....	1,578.3	1,589.6	1,590.4	1,601.0	1,618	1,647	1,649	1,647	1,648	1,640
Tobacco manufactures .....	51.5	52.1	50.4	49.7	55	55	54	54	54	53
Textile mill products .....	721.3	728.0	726.1	728.9	721	732	732	729	727	728
Apparel and other textile products .....	1,098.4	1,104.4	1,102.1	1,102.5	1,095	1,105	1,104	1,106	1,100	1,099
Paper and allied products .....	675.6	683.8	684.1	686.8	678	685	686	687	688	689
Printing and publishing .....	1,499.9	1,548.4	1,555.7	1,554.5	1,501	1,538	1,544	1,548	1,554	1,556
Chemicals and allied products .....	1,017.6	1,050.2	1,051.9	1,057.3	1,020	1,047	1,049	1,052	1,055	1,059
Petroleum and coal products .....	165.7	161.9	164.2	166.1	165	166	165	164	165	165
Rubber and miscellaneous plastics products .....	816.2	861.0	865.3	870.3	816	854	856	860	864	870
Leather and leather products .....	142.6	145.3	145.1	146.2	142	147	147	147	146	146
Service-producing .....	77,618	79,349	79,964	80,495	77,176	79,082	79,458	79,690	79,831	80,032
Transportation and public utilities .....	5,358	5,473	5,510	5,564	5,356	5,499	5,513	5,530	5,542	5,561
Transportation .....	3,149	3,239	3,274	3,320	3,143	3,261	3,272	3,285	3,297	3,313
Communication and public utilities .....	2,209	2,234	2,236	2,244	2,213	2,238	2,241	2,245	2,245	2,248
Wholesale trade .....	5,835	6,016	6,065	6,108	5,841	6,010	6,035	6,061	6,089	6,113
Durable goods .....	3,422	3,573	3,602	3,629	3,422	3,555	3,573	3,591	3,609	3,629
Nondurable goods .....	2,413	2,443	2,463	2,479	2,419	2,455	2,462	2,470	2,480	2,484
Retail trade .....	18,413	18,612	18,873	19,128	18,417	18,927	19,045	19,050	19,083	19,128
General merchandise stores .....	2,337.5	2,436.0	2,445.6	2,468.4	2,412	2,526	2,561	2,543	2,542	2,547
Food stores .....	2,943.9	3,001.3	3,011.1	3,042.5	2,957	3,014	3,029	3,044	3,045	3,055
Automotive dealers and service stations .....	1,999.2	2,034.1	2,053.7	2,070.1	1,994	2,038	2,047	2,055	2,062	2,064
Eating and drinking places .....	6,196.4	6,142.5	6,313.3	6,450.2	6,092	6,260	6,291	6,319	6,326	6,336
Finance, insurance, and real estate .....	6,539	6,599	6,627	6,640	6,539	6,633	6,636	6,651	6,649	6,639
Finance .....	3,267	3,293	3,292	3,289	3,273	3,308	3,305	3,306	3,302	3,296
Insurance .....	2,016	2,058	2,063	2,065	2,017	2,052	2,053	2,060	2,065	2,065
Real estate .....	1,256	1,248	1,272	1,286	1,249	1,273	1,278	1,285	1,282	1,278
Services .....	24,170	24,978	25,231	25,361	24,053	24,795	24,975	25,078	25,156	25,235
Business services .....	5,149.6	5,345.4	5,378.6	5,423.8	5,158	5,321	5,385	5,405	5,417	5,435
Health services .....	6,767.7	7,081.4	7,111.0	7,151.7	6,778	7,019	7,056	7,088	7,125	7,159
Government .....	17,303	17,671	17,658	17,694	16,970	17,218	17,254	17,320	17,312	17,356
Federal .....	2,947	2,964	2,968	2,966	2,936	2,973	2,972	2,970	2,968	2,954
State .....	4,010	4,140	4,149	4,124	3,954	4,006	4,014	4,031	4,040	4,067
Local .....	10,346	10,567	10,541	10,604	10,080	10,239	10,268	10,319	10,304	10,335

p = preliminary.

NOTE: Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

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					
	May 1987	Mar. 1988	Apr. 1988 p	May 1988 p	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988 p	May 1988 p
Total private .....	34.8	34.4	34.7	34.6	34.9	34.7	34.9	34.6	34.9	34.7
Mining .....	42.4	41.9	42.8	42.4	(2)	(2)	(2)	(2)	(2)	(2)
Construction .....	38.5	37.4	37.9	38.4	(2)	(2)	(2)	(2)	(2)	(2)
Manufacturing .....	40.9	40.9	41.0	41.0	41.0	41.1	41.0	40.9	41.2	41.1
Overtime hours .....	3.6	3.6	3.7	3.8	3.8	3.9	3.7	3.7	4.0	4.0
Durable goods .....	41.5	41.6	41.7	41.8	41.6	41.6	41.5	41.5	41.9	41.9
Overtime hours .....	3.6	3.8	4.0	4.0	3.8	4.0	3.8	3.8	4.2	4.2
Lumber and wood products .....	41.3	39.9	40.6	40.5	40.9	40.2	40.3	40.1	40.6	40.1
Furniture and fixtures .....	39.6	39.0	39.1	38.9	40.0	39.6	39.5	39.3	39.5	39.3
Stone, clay, and glass products .....	42.8	42.0	42.5	42.8	42.3	42.0	42.3	42.3	42.5	42.3
Primary metal industries .....	42.8	43.4	43.4	43.6	42.9	43.4	43.1	43.3	43.4	43.7
Blast furnaces and basic steel products .....	43.0	43.7	43.8	43.9	43.0	44.0	43.8	43.7	43.6	43.9
Fabricated metal products .....	41.3	41.6	41.7	41.9	41.5	41.8	41.6	41.6	42.0	42.1
Machinery, except electrical .....	42.0	42.7	42.6	42.4	42.2	42.7	42.6	42.5	42.8	42.6
Electrical and electronic equipment .....	40.6	40.9	40.8	40.8	40.9	41.1	40.9	40.9	41.2	41.1
Transportation equipment .....	42.2	42.5	42.9	43.1	42.2	42.0	42.0	42.1	43.0	43.1
Motor vehicles and equipment .....	42.5	43.0	44.1	44.6	42.3	42.1	42.3	42.3	44.1	44.3
Instruments and related products .....	41.2	41.6	41.4	41.2	41.4	41.8	41.3	41.4	41.7	41.4
Miscellaneous manufacturing .....	39.2	39.2	39.1	39.1	39.4	39.1	39.3	39.2	39.4	39.3
Nondurable goods .....	40.2	40.0	39.9	40.0	40.3	40.3	40.2	40.1	40.3	40.0
Overtime hours .....	3.5	3.4	3.4	3.5	3.7	3.8	3.6	3.6	3.6	3.7
Food and kindred products .....	40.1	39.6	39.6	40.2	40.1	40.6	40.3	40.1	40.2	40.2
Tobacco manufactures .....	39.3	39.3	38.6	39.6	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products .....	41.9	41.0	41.0	40.8	42.0	41.5	41.6	41.2	41.6	40.9
Apparel and other textile products .....	37.1	37.0	36.8	36.8	37.1	36.8	37.0	37.0	37.4	36.8
Paper and allied products .....	43.3	42.9	43.1	43.1	43.5	43.4	43.3	43.2	43.4	43.3
Printing and publishing .....	37.8	38.2	38.0	37.6	38.0	38.1	38.1	38.1	38.2	37.8
Chemicals and allied products .....	42.2	42.5	42.2	42.0	42.2	42.5	42.4	42.5	42.2	42.0
Petroleum and coal products .....	44.0	43.7	44.1	44.3	(2)	(2)	(2)	(2)	(2)	(2)
Rubber and miscellaneous plastics products .....	41.6	41.7	41.7	41.5	41.7	41.7	41.6	41.7	41.9	41.6
Leather and leather products .....	38.7	37.4	36.8	37.8	38.4	38.0	37.8	37.9	37.1	37.5
Transportation and public utilities .....	39.1	38.6	38.9	38.8	39.3	39.5	39.1	38.8	39.2	39.0
Wholesale trade .....	38.3	37.9	38.2	38.1	38.3	38.1	38.2	38.1	38.3	38.1
Retail trade .....	29.2	28.6	28.9	29.0	29.3	29.0	29.1	29.0	29.2	29.1
Finance, insurance, and real estate .....	36.3	35.8	36.2	35.7	(2)	(2)	(2)	(2)	(2)	(2)
Services .....	32.4	32.3	32.6	32.4	32.5	32.6	32.7	32.4	32.7	32.5

<sup>1</sup> Data relate to production workers in mining and manufacturing; to construction workers in construction; and to 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.

\* This series is 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.

NOTE: Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

## 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			
	May 1987	Mar. 1988	Apr. 1988 p	May 1988 p	May 1987	Mar. 1988	Apr. 1988 p	May 1988 p
Total private .....	\$8.93	\$9.18	\$9.22	\$9.26	\$310.76	\$315.79	\$319.93	\$320.40
Seasonally adjusted .....	8.95	9.16	9.22	9.28	311.46	316.94	321.78	322.02
Mining .....	12.50	12.59	12.58	12.53	530.00	527.52	538.42	531.27
Construction .....	12.66	12.87	12.85	12.87	487.41	481.34	487.02	494.21
Manufacturing .....	9.87	10.07	10.11	10.14	403.68	411.86	414.51	415.74
Durable goods .....	10.38	10.59	10.65	10.67	430.77	440.54	444.11	446.01
Lumber and wood products .....	8.37	8.45	8.49	8.55	345.68	337.16	344.69	346.28
Furniture and fixtures .....	7.63	7.76	7.81	7.87	302.15	302.64	305.37	306.14
Stone, clay, and glass products .....	10.26	10.36	10.40	10.45	439.13	435.12	442.00	447.26
Primary metal industries .....	11.92	12.07	12.12	12.14	510.18	523.84	526.01	529.30
Blast furnaces and basic steel products .....	13.73	13.89	13.96	13.99	590.39	606.99	611.45	614.16
Fabricated metal products .....	9.94	10.14	10.22	10.23	410.52	421.82	426.17	428.64
Machinery, except electrical .....	10.63	10.84	10.88	10.91	446.46	462.87	463.49	462.58
Electrical and electronic equipment .....	9.81	10.04	10.09	10.11	398.29	410.64	411.67	412.49
Transportation equipment .....	12.85	13.20	13.29	13.29	542.27	561.00	570.14	572.80
Motor vehicles and equipment .....	13.43	13.93	14.10	14.07	570.78	598.99	621.81	627.52
Instruments and related products .....	9.66	9.88	9.87	9.91	397.99	411.01	408.62	408.29
Miscellaneous manufacturing .....	7.74	7.91	7.91	7.98	303.41	310.07	309.28	312.02
Nondurable goods .....	9.14	9.33	9.36	9.39	367.43	373.20	373.46	375.60
Food and kindred products .....	8.99	9.07	9.12	9.13	360.50	359.17	361.15	367.03
Tobacco manufactures .....	14.60	14.42	14.99	15.29	573.78	566.71	578.61	605.48
Textile mill products .....	7.12	7.31	7.35	7.32	298.33	299.71	301.35	298.66
Apparel and other textile products .....	5.87	6.03	6.04	6.06	217.78	223.11	222.27	223.01
Paper and allied products .....	11.41	11.52	11.59	11.68	494.05	494.21	499.53	503.41
Printing and publishing .....	10.19	10.45	10.40	10.45	385.18	399.19	395.20	392.92
Chemicals and allied products .....	12.32	12.53	12.56	12.64	519.90	532.53	530.03	530.88
Petroleum and coal products .....	14.54	14.98	15.02	14.93	639.76	654.63	662.38	661.40
Rubber and miscellaneous plastics products .....	8.86	9.00	9.03	9.05	368.58	375.30	376.55	375.58
Leather and leather products .....	6.05	6.23	6.29	6.28	234.14	233.00	231.47	237.38
Transportation and public utilities .....	11.93	12.19	12.17	12.18	466.46	470.53	473.41	472.58
Wholesale trade .....	9.56	9.78	9.88	9.88	366.15	370.66	377.42	376.43
Retail trade .....	6.09	6.24	6.25	6.27	177.83	178.46	180.63	181.83
Finance, insurance, and real estate .....	8.72	8.97	9.05	9.17	316.54	321.13	327.61	327.37
Services .....	8.40	8.80	8.82	8.87	272.16	284.24	287.53	287.39

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

NOTE: Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

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						
	May 1987	Mar. 1988	Apr. 1988p	May 1988p	Percent change from: May 1987- May 1988	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988p	May 1988p	Percent change from: Apr. 1988- May 1988
Total private nonfarm:												
Current dollars .....	172.8	177.2	178.0	178.7	3.4	172.9	176.6	176.7	177.0	177.8	178.8	0.5
Constant (1977) dollars .....	94.1	93.8	93.7	N.A.	(2)	94.0	93.8	93.7	93.5	93.5	N.A.	(3)
Mining .....	181.5	183.6	184.2	184.0	1.4	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Construction .....	154.8	156.7	157.0	157.6	1.8	154.8	157.6	156.8	157.5	157.5	157.6	.1
Manufacturing .....	174.4	177.7	178.2	178.5	2.4	174.2	176.8	177.0	177.3	177.8	178.4	.3
Transportation and public utilities .....	174.9	179.2	179.1	179.4	2.5	176.0	178.3	179.1	179.4	179.5	180.5	.6
Wholesale trade .....	176.7	180.4	182.3	182.4	3.3	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Retail trade .....	160.7	163.9	164.9	165.6	3.1	160.3	163.4	163.4	163.8	164.6	165.3	.4
Finance, insurance, and real estate .....	187.0	193.4	195.0	197.4	5.6	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Services .....	179.7	187.6	188.4	190.0	5.8	180.0	186.5	186.3	186.9	188.2	190.4	1.2

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

<sup>2</sup> Change is -.7 percent from April 1987 to April 1988, the latest month available.

<sup>3</sup> Change is less than .05 percent from March 1988 to April 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: Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

# ESTABLISHMENT DATA

# ESTABLISHMENT DATA

**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					
	May 1987	Mar. 1988	Apr. 1988 p	May 1988 p	May 1987	Jan. 1988	Feb. 1988	Mar. 1988	Apr. 1988 p	May 1988 p
Total .....	120.5	121.0	123.5	124.5	120.4	123.0	123.9	123.6	125.0	124.5
Goods-producing .....	99.0	98.6	100.8	102.5	98.7	100.5	101.1	101.6	102.7	102.2
Mining .....	80.0	81.1	84.0	83.4	80.8	81.7	82.5	83.2	86.0	84.1
Construction .....	136.9	124.3	135.6	143.8	133.0	132.1	136.0	139.1	141.1	139.8
Manufacturing .....	92.5	94.5	94.9	95.4	92.9	95.2	95.2	95.2	96.1	95.8
Durable goods .....	90.3	92.5	93.3	93.9	90.4	92.7	92.7	92.7	94.0	94.0
Lumber and wood products .....	103.8	99.4	102.3	104.3	103.0	103.0	103.6	103.1	104.5	103.6
Furniture and fixtures .....	108.4	111.6	112.0	111.2	110.3	113.7	113.2	112.3	113.2	113.4
Stone, clay, and glass products .....	88.4	84.4	87.7	89.0	86.3	86.5	87.3	87.5	88.3	86.9
Primary metal industries .....	63.0	67.4	67.6	68.1	63.0	66.5	66.4	66.9	67.4	68.1
Blast furnaces and basic steel products .....	49.9	54.1	54.3	54.6	49.2	53.9	53.9	54.1	54.3	54.6
Fabricated metal products .....	87.1	90.4	91.1	92.2	87.4	90.9	90.8	90.8	91.9	92.7
Machinery, except electrical .....	84.6	91.2	91.4	91.5	84.8	90.0	90.2	90.4	91.6	91.6
Electrical and electronic equipment .....	98.5	101.8	101.5	101.4	99.6	102.2	101.8	101.9	102.9	102.5
Transportation equipment .....	99.9	98.4	99.8	100.8	99.5	97.5	97.3	96.8	99.8	100.3
Motor vehicles and equipment .....	89.6	87.1	90.2	91.8	88.6	84.7	85.7	84.8	89.8	90.6
Instruments and related products .....	101.4	105.9	105.5	105.4	102.0	106.0	105.0	105.2	106.3	106.1
Miscellaneous manufacturing .....	80.4	83.5	84.0	83.3	81.0	83.4	84.8	84.5	85.3	83.9
Non-durable goods .....	95.8	97.3	97.2	97.7	96.7	99.0	99.0	98.8	99.1	98.5
Food and kindred products .....	95.5	95.0	94.9	97.3	98.9	102.2	101.7	100.9	101.1	100.5
Tobacco manufactures .....	69.9	71.4	66.8	67.0	76.3	77.2	75.8	74.8	74.0	73.0
Textile mill products .....	81.9	81.1	80.8	80.7	82.2	82.5	82.7	81.7	82.2	80.9
Apparel and other textile products .....	85.3	85.5	85.0	85.0	85.0	85.1	85.5	85.7	86.2	84.6
Paper and allied products .....	99.8	100.1	100.4	101.2	100.6	101.6	101.5	101.3	101.8	101.9
Printing and publishing .....	129.7	136.2	136.3	134.5	130.3	134.9	135.5	136.0	136.5	134.9
Chemicals and allied products .....	93.7	97.7	97.1	97.3	93.9	97.4	97.1	97.9	97.3	97.5
Petroleum and coal products .....	85.3	81.2	83.5	85.6	85.3	86.3	84.5	83.5	84.3	84.9
Rubber and miscellaneous plastics products .....	115.1	122.0	122.6	122.7	115.3	120.9	121.0	121.8	122.6	123.0
Leather and leather products .....	57.2	55.7	54.7	56.8	56.7	57.5	57.2	56.9	55.2	56.3
Service-producing .....	132.3	133.3	136.0	136.6	132.4	135.5	136.4	135.8	137.3	136.7
Transportation and public utilities .....	108.4	109.4	111.1	112.0	109.0	112.6	111.8	111.2	112.7	112.5
Wholesale trade .....	118.9	121.7	123.8	124.4	119.0	122.2	123.1	123.6	124.8	124.6
Retail trade .....	121.9	119.9	123.3	125.0	122.2	124.0	125.2	124.8	126.0	125.5
Finance, insurance, and real estate .....	141.2	138.2	140.3	138.9	141.5	141.3	141.6	139.6	141.0	139.3
Services .....	152.0	156.1	158.9	158.8	151.6	156.5	158.0	157.2	159.0	158.4

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

NOTE: Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.

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

Time span	Year	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	p62.7	p56.2							
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	p66.8	p64.1								
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 .....	p73.2	p67.6										
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	p77.8	p77.8	
	1988 .....												

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

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. Data have been revised to reflect March 1987 benchmarks and updated seasonal adjustment factors.