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THE EMPLOYMENT SITUATION: OCTOBER 1987

Employment was up sharply in October while unemployment was essentially unchanged, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall unemployment rate, 5.9 percent, and the rate for civilian workers, 6.0 percent, were about the same as in September.

The number of nonagricultural payroll jobs, as measured by the survey of business establishments, rose by 550,000, following moderate increases in the previous 2 months. Total civilian employment, as measured by the survey of households, posted a gain of more than 400,000. (The reference period for both surveys was the week of October 11-17.)

Unemployment (Household Survey Data)

Both the number of unemployed persons, at 7.2 million in October, and the civilian unemployment rate, at 6.0 percent, were about unchanged from September, as the increase in employment was matched by a large gain in the labor force.

Jobless rates for adult men (5.1 percent), adult women (5.2 percent), whites (5.2 percent), blacks (12.0 percent), and Hispanics (8.3 percent) showed little or no movement over the month, but have declined considerably over the year. In contrast, the teenage rate has risen 2 percentage points since midsummer and, at 17.4 percent in October, was about the same as a year earlier. (See tables A-2 and A-3.)

The average (mean) duration of unemployment, at 14.0 weeks, was about unchanged in October. At 6.2 weeks, median duration was up slightly over the month, but was still below the levels registered prior to September. (See table A-7.)

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment, which had declined in September, rose by 415,000 in October to 113.2 million, after seasonal adjustment. Over the past 12 months, employment has grown by 3.0 million, with adult women accounting for 1.5 million of the gain, adult men 1.4 million, and teenagers 120,000. (See table A-2.)

The civilian labor force rebounded by 500,000 in October, reaching a seasonally adjusted level of 120.4 million. The proportion of the population in the labor force edged up slightly to 65.7 percent, matching the peak ratio reached in May and August. Since October 1986, increases in the labor force have totalled 2.0 million.

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

Category	Quarterly averages		Monthly data			Sept.- Oct. change
	1987		1987			
	II	III	Aug.	Sept.	Oct.	
HOUSEHOLD DATA						
	Thousands of persons					
Labor force <u>1</u> /.....	121,341	121,771	122,038	121,604	122,102	498
Total employment <u>1</u> /..	113,906	114,593	114,817	114,515	114,928	413
Civilian labor force...	119,615	120,038	120,302	119,861	120,361	500
Civilian employment..	112,180	112,860	113,081	112,772	113,187	415
Unemployment.....	7,435	7,178	7,221	7,089	7,174	85
Not in labor force.....	62,912	62,978	62,700	63,300	62,950	-350
Discouraged workers..	1,037	1,011	N.A.	N.A.	N.A.	N.A.
	Percent of labor force					
Unemployment rates:						
All workers <u>1</u> /.....	6.1	5.9	5.9	5.8	5.9	0.1
All civilian workers.	6.2	6.0	6.0	5.9	6.0	.1
Adult men.....	5.5	5.2	5.2	5.0	5.1	.1
Adult women.....	5.4	5.4	5.3	5.4	5.2	-.2
Teenagers.....	17.0	15.9	16.0	16.3	17.4	1.1
White.....	5.3	5.1	5.1	5.1	5.2	.1
Black.....	13.2	12.4	12.4	12.3	12.0	-.3
Hispanic origin....	8.8	8.0	8.0	8.2	8.3	.1
ESTABLISHMENT DATA						
	Thousands of jobs					
Nonfarm employment.....	101,708	p102,266	102,275	p102,396	p102,945	p549
Goods-producing.....	24,757	p24,882	24,886	p24,910	p25,018	p108
Service-producing....	76,951	p77,384	77,389	p77,486	p77,927	p441
	Hours of work					
Average weekly hours:						
Total private.....	34.8	p34.8	34.9	p34.6	p34.8	p0.2
Manufacturing.....	40.9	p40.8	41.0	p40.4	p41.1	p.7
Overtime.....	3.7	p3.7	3.8	p3.6	p4.0	p.4

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

N.A.=not available.

Industry Payroll Employment (Establishment Survey Data)

Total nonagricultural employment rose by 550,000 in October, seasonally adjusted, to a level of 102.9 million. For the second month in a row, increases occurred in more than three-fifths of the 185 industries in the BLS index of diffusion. Over the past 12 months, payroll employment has grown by 2.8 million. (See tables B-1 and B-6.)

In the goods-producing sector, employment rose by 110,000 in October, with factory jobs increasing by 65,000 and reaching 19.2 million. Since June, factory employment has expanded by 220,000. Most of the October improvement occurred in durable goods industries, with sizable gains in electrical equipment, machinery, and fabricated metal products. The number of construction jobs rose by 40,000, following a 30,000 decline in September, and mining employment continued to edge upward.

In the service-producing sector, employment rose sharply in October, after showing only moderate increases in September. The largest increases were in the services industry (150,000) and in local government (165,000), the latter due partly to the return to the payroll of about 65,000 teachers and other school personnel after labor disputes. Retail trade employment increased by about 70,000, following a 60,000 advance in September. In contrast, employment in wholesale trade; in finance, insurance, and real estate; and in transportation and public utilities was essentially unchanged in October. Altogether, jobs in the service sector increased by 440,000.

Weekly Hours (Establishment Survey Data)

Reversing the Labor Day-related curtailment in hours in September, the average workweek of production or nonsupervisory workers on private nonagricultural payrolls rose 0.2 hour in October, after seasonal adjustment, reaching 34.8 hours. The manufacturing workweek, at 41.1 hours, also rebounded, and factory overtime rose to 4.0 hours, the highest level in 14 years. (See table B-2.)

Reflecting increases in both employment and the average workweek, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose 1.1 percent to 121.5 (1977=100) seasonally adjusted. The manufacturing index rose 2.0 percent to 94.7. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Average hourly earnings rose by 0.7 percent in October, while average weekly earnings increased by 1.2 percent, seasonally adjusted. Before seasonal adjustment, average hourly earnings rose by 3 cents to \$9.08, and average weekly earnings were up \$2.85 to \$316.89. Over the past 12 months, hourly earnings have risen 26 cents and weekly earnings have increased \$10.84. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 174.6 (1977=100) in October, seasonally adjusted, an increase of 0.1 percent from September. For the 12 months ended in October, the increase was 2.6 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements--fluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.5 percent during the 12-month period ending in September. (See table B-4.)

The Employment Situation for November 1987 will be released on Friday, December 4, at 8:30 A.M. (EST).

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 59,500 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 290,000 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 328,000; for total unemployment it is 220,000; 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 .26 percentage point; for teenagers, it is 1.25 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, D.C., 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 ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
TOTAL									
Noninstitutional population ²	182,935	184,904	185,052	182,935	184,421	184,605	184,738	184,904	185,052
Labor force ²	120,448	121,627	122,485	120,163	121,235	121,672	122,038	121,604	122,102
Participation rate ³	65.8	65.8	66.2	65.7	65.7	65.9	66.1	65.8	66.0
Total employed ²	112,606	114,770	115,639	111,941	113,975	114,447	114,817	114,515	114,928
Employment-population ratio ⁴	61.6	62.1	62.5	61.2	61.8	62.0	62.2	61.9	62.1
Resident Armed Forces.....	1,749	1,743	1,741	1,749	1,718	1,720	1,736	1,743	1,741
Civilian employed.....	110,857	113,027	113,898	110,192	112,257	112,727	113,081	112,772	113,187
Agriculture.....	3,190	3,277	3,297	3,162	3,178	3,219	3,092	3,170	3,283
Nonagricultural industries.....	107,666	109,750	110,601	107,030	109,079	109,508	109,989	109,602	109,903
Unemployed.....	7,842	6,857	6,845	8,222	7,260	7,224	7,221	7,089	7,174
Unemployment rate ⁵	6.5	5.6	5.6	6.8	6.0	5.9	5.9	5.8	5.9
Not in labor force.....	62,487	63,277	62,567	62,772	63,187	62,933	62,700	63,300	62,950
Men, 16 years and over									
Noninstitutional population ²	87,682	88,683	88,756	87,682	88,442	88,534	88,598	88,683	88,756
Labor force ²	66,948	67,639	67,820	67,130	67,556	67,656	67,925	67,736	67,916
Participation rate ³	76.4	76.3	76.4	76.6	76.4	76.4	76.7	76.4	76.5
Total employed ²	62,790	64,203	64,272	62,565	63,471	63,715	63,918	63,939	64,024
Employment-population ratio ⁴	71.6	72.4	72.4	71.4	71.8	72.0	72.1	72.1	72.1
Resident Armed Forces.....	1,590	1,581	1,580	1,590	1,559	1,561	1,575	1,581	1,580
Civilian employed.....	61,200	62,622	62,692	60,975	61,912	62,154	62,343	62,358	62,444
Unemployed.....	4,159	3,437	3,549	4,565	4,085	3,941	4,007	3,798	3,893
Unemployment rate ⁵	6.2	5.1	5.2	6.8	6.0	5.8	5.9	5.6	5.7
Women, 16 years and over									
Noninstitutional population ²	95,253	96,221	96,295	95,253	95,979	96,071	96,140	96,221	96,295
Labor force ²	53,500	53,987	54,664	53,033	53,679	54,016	54,113	53,868	54,185
Participation rate ³	56.2	56.1	56.8	55.7	55.9	56.2	56.3	56.0	56.3
Total employed ²	49,816	50,567	51,367	49,376	50,504	50,733	50,899	50,576	50,904
Employment-population ratio ⁴	52.3	52.6	53.3	51.8	52.6	52.8	52.9	52.6	52.9
Resident Armed Forces.....	159	162	161	159	159	159	161	162	161
Civilian employed.....	49,657	50,405	51,206	49,217	50,345	50,574	50,738	50,414	50,743
Unemployed.....	3,683	3,420	3,297	3,657	3,175	3,283	3,213	3,291	3,281
Unemployment rate ⁵	6.9	6.3	6.0	6.9	5.9	6.1	5.9	6.1	6.1

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

² Includes members of the Armed Forces stationed in the United States.

³ Labor force as a percent of the noninstitutional population.

⁴ Total employment as a percent of the noninstitutional population.

⁵ 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 ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
TOTAL									
Civilian noninstitutional population.....	181,186	183,161	183,311	181,186	182,703	182,885	183,002	183,161	183,311
Civilian labor force.....	118,699	119,884	120,744	118,414	119,517	119,952	120,302	119,861	120,361
Participation rate.....	65.5	65.5	65.9	65.4	65.4	65.6	65.7	65.4	65.7
Employed.....	110,857	113,027	113,898	110,192	112,257	112,727	113,081	112,772	113,187
Employment-population ratio ²	61.2	61.7	62.1	60.8	61.4	61.6	61.8	61.6	61.7
Unemployed.....	7,842	6,857	6,845	8,222	7,260	7,224	7,221	7,089	7,174
Unemployment rate.....	6.6	5.7	5.7	6.9	6.1	6.0	6.0	5.9	6.0
Men, 20 years and over									
Civilian noninstitutional population.....	78,802	79,740	79,807	78,802	79,536	79,625	79,668	79,740	79,807
Civilian labor force.....	61,471	62,157	62,317	61,409	62,057	62,116	62,053	62,045	62,160
Participation rate.....	78.0	77.9	78.1	77.9	78.0	78.0	77.9	77.8	77.9
Employed.....	58,015	59,373	59,442	57,595	58,620	58,793	58,818	58,957	58,997
Employment-population ratio ²	73.6	74.5	74.5	73.1	73.7	73.8	73.8	73.9	73.9
Agriculture.....	2,357	2,433	2,403	2,297	2,307	2,343	2,254	2,355	2,354
Nonagricultural industries.....	55,658	56,941	57,040	55,298	56,313	56,450	56,564	56,601	56,643
Unemployed.....	3,456	2,783	2,875	3,814	3,437	3,323	3,235	3,089	3,163
Unemployment rate.....	5.6	4.5	4.6	6.2	5.5	5.4	5.2	5.0	5.1
Women, 20 years and over									
Civilian noninstitutional population.....	87,856	88,785	88,843	87,856	88,546	88,632	88,685	88,785	88,843
Civilian labor force.....	49,629	50,182	50,721	49,014	49,714	49,971	49,989	49,882	50,098
Participation rate.....	56.5	56.5	57.1	55.8	56.1	56.4	56.4	56.2	56.4
Employed.....	46,585	47,349	48,076	46,020	47,126	47,288	47,324	47,179	47,493
Employment-population ratio ²	53.0	53.3	54.1	52.4	53.2	53.4	53.4	53.1	53.5
Agriculture.....	628	615	670	612	615	619	603	585	648
Nonagricultural industries.....	45,957	46,734	47,407	45,408	46,512	46,669	46,722	46,594	46,845
Unemployed.....	3,044	2,833	2,644	2,994	2,588	2,683	2,664	2,703	2,605
Unemployment rate.....	6.1	5.6	5.2	6.1	5.2	5.4	5.3	5.4	5.2
Both sexes, 16 to 19 years									
Civilian noninstitutional population.....	14,527	14,637	14,661	14,527	14,621	14,628	14,649	14,637	14,661
Civilian labor force.....	7,598	7,545	7,706	7,991	7,746	7,865	8,260	7,933	8,103
Participation rate.....	52.3	51.5	52.6	55.0	53.0	53.8	56.4	54.2	55.3
Employed.....	6,257	6,305	6,379	6,577	6,511	6,647	6,939	6,636	6,697
Employment-population ratio ²	43.1	43.1	43.5	45.3	44.5	45.4	47.4	45.3	45.7
Agriculture.....	205	229	225	253	257	258	236	230	282
Nonagricultural industries.....	6,052	6,076	6,155	6,324	6,254	6,389	6,703	6,406	6,415
Unemployed.....	1,341	1,240	1,327	1,414	1,235	1,218	1,321	1,297	1,406
Unemployment rate.....	17.7	16.4	17.2	17.7	15.9	15.5	16.0	16.3	17.4

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

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

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 ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
WHITE									
Civilian noninstitutional population.....	155,856	157,242	157,342	155,856	156,930	157,058	157,134	157,242	157,342
Civilian labor force.....	102,504	103,295	103,934	102,297	103,106	103,272	103,614	103,278	103,640
Participation rate.....	65.8	65.7	66.1	65.6	65.7	65.8	65.9	65.7	65.9
Employed.....	96,702	98,261	98,882	96,147	97,716	97,958	98,299	97,995	98,284
Employment-population ratio ²	62.0	62.5	62.8	61.7	62.3	62.4	62.6	62.3	62.5
Unemployed.....	5,802	5,033	5,053	6,150	5,390	5,314	5,315	5,283	5,357
Unemployment rate.....	5.7	4.9	4.9	6.0	5.2	5.1	5.1	5.1	5.2
Men, 20 years and over									
Civilian labor force.....	53,741	54,236	54,399	53,757	54,213	54,214	54,164	54,152	54,367
Participation rate.....	78.3	78.3	78.4	78.3	78.4	78.3	78.2	78.1	78.4
Employed.....	51,157	52,133	52,167	50,845	51,581	51,682	51,714	51,771	51,856
Employment-population ratio ²	74.6	75.2	75.2	74.1	74.6	74.7	74.7	74.7	74.8
Unemployed.....	2,584	2,103	2,232	2,912	2,632	2,532	2,449	2,382	2,511
Unemployment rate.....	4.8	3.9	4.1	5.4	4.9	4.7	4.5	4.4	4.6
Women, 20 years and over									
Civilian labor force.....	42,157	42,556	42,943	41,598	42,159	42,280	42,418	42,312	42,352
Participation rate.....	56.0	56.0	56.5	55.2	55.6	55.7	55.9	55.7	55.7
Employed.....	39,958	40,557	41,089	39,431	40,318	40,379	40,535	40,395	40,522
Employment-population ratio ²	53.0	53.4	54.0	52.3	53.2	53.2	53.4	53.2	53.3
Unemployed.....	2,199	1,999	1,854	2,167	1,841	1,902	1,882	1,917	1,830
Unemployment rate.....	5.2	4.7	4.3	5.2	4.4	4.5	4.4	4.5	4.3
Both sexes, 16 to 19 years									
Civilian labor force.....	6,607	6,502	6,592	6,942	6,734	6,778	7,033	6,814	6,922
Participation rate.....	55.5	54.4	55.2	58.4	56.3	56.6	58.8	57.0	58.0
Employed.....	5,588	5,571	5,626	5,871	5,817	5,898	6,049	5,829	5,906
Employment-population ratio ²	47.0	46.6	47.1	49.4	48.6	49.3	50.6	48.8	49.5
Unemployed.....	1,019	931	967	1,071	917	880	984	985	1,016
Unemployment rate.....	15.4	14.3	14.7	15.4	13.6	13.0	14.0	14.5	14.7
Men.....	15.5	14.5	14.8	15.7	14.5	13.0	15.4	15.3	15.0
Women.....	15.3	14.2	14.6	15.2	12.7	13.0	12.5	13.6	14.3
BLACK									
Civilian noninstitutional population.....	20,089	20,426	20,453	20,089	20,341	20,373	20,396	20,426	20,453
Civilian labor force.....	12,720	13,018	13,160	12,720	12,863	13,047	13,194	13,027	13,167
Participation rate.....	63.3	63.7	64.3	63.3	63.2	64.0	64.7	63.8	64.4
Employed.....	10,902	11,398	11,582	10,895	11,223	11,401	11,563	11,427	11,582
Employment-population ratio ²	54.3	55.8	56.6	54.2	55.2	56.0	56.7	55.9	56.6
Unemployed.....	1,819	1,619	1,578	1,825	1,640	1,647	1,630	1,599	1,586
Unemployment rate.....	14.3	12.4	12.0	14.3	12.7	12.6	12.4	12.3	12.0
Men, 20 years and over									
Civilian labor force.....	5,940	6,039	6,019	5,932	6,001	6,089	6,079	6,025	6,012
Participation rate.....	74.7	74.6	74.3	74.6	74.5	75.4	75.2	74.4	74.2
Employed.....	5,177	5,463	5,451	5,153	5,311	5,404	5,431	5,425	5,435
Employment-population ratio ²	65.1	67.5	67.3	64.8	65.9	66.9	67.2	67.0	67.1
Unemployed.....	763	576	569	779	690	686	647	600	577
Unemployment rate.....	12.8	9.5	9.5	13.1	11.5	11.3	10.7	10.0	9.6
Women, 20 years and over									
Civilian labor force.....	5,962	6,116	6,241	5,909	6,017	6,125	6,120	6,074	6,191
Participation rate.....	59.6	60.2	61.3	59.1	59.5	60.4	60.3	59.8	60.8
Employed.....	5,199	5,345	5,533	5,178	5,349	5,426	5,428	5,350	5,511
Employment-population ratio ²	52.0	52.6	54.4	51.8	52.9	53.5	53.5	52.7	54.2
Unemployed.....	763	771	707	731	669	699	692	723	680
Unemployment rate.....	12.8	12.6	11.3	12.4	11.1	11.4	11.3	11.9	11.0
Both sexes, 16 to 19 years									
Civilian labor force.....	818	863	900	879	844	833	995	928	964
Participation rate.....	38.2	39.8	41.4	41.1	39.0	38.4	45.9	42.7	44.4
Employed.....	525	591	597	564	563	571	704	652	636
Employment-population ratio ²	24.5	27.2	27.5	26.3	26.0	26.3	32.5	30.0	29.3
Unemployed.....	293	272	302	315	281	262	291	276	328
Unemployment rate.....	35.8	31.5	33.6	35.8	33.3	31.5	29.2	29.7	34.0
Men.....	38.8	32.9	32.5	37.8	31.5	31.5	32.6	30.9	32.2
Women.....	32.8	30.2	34.7	33.8	35.1	31.4	25.3	28.7	35.8
HISPANIC ORIGIN									
Civilian noninstitutional population.....	12,469	12,965	13,003	12,469	12,848	12,887	12,925	12,965	13,003
Civilian labor force.....	8,241	8,595	8,695	8,200	8,452	8,411	8,544	8,568	8,653
Participation rate.....	66.1	66.3	66.9	65.8	65.8	65.3	66.1	66.1	66.5
Employed.....	7,410	7,924	7,991	7,345	7,730	7,744	7,864	7,869	7,935
Employment-population ratio ²	59.4	61.1	61.5	58.9	60.2	60.1	60.8	60.7	61.0
Unemployed.....	831	672	704	855	722	667	680	699	718
Unemployment rate.....	10.1	7.8	8.1	10.4	8.5	7.9	8.0	8.2	8.3

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

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

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					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
CHARACTERISTIC									
Civilian employed, 16 years and over.....	110,857	113,027	113,898	110,192	112,257	112,727	113,081	112,772	113,187
Married men, spouse present.....	40,065	40,693	40,905	39,780	40,057	40,241	40,260	40,370	40,580
Married women, spouse present.....	27,986	28,324	28,685	27,323	28,458	28,426	28,196	27,988	28,013
Women who maintain families.....	5,971	6,084	6,174	6,016	5,939	6,013	6,108	6,164	6,205
MAJOR INDUSTRY AND CLASS OF WORKER									
Agriculture:									
Wage and salary workers.....	1,532	1,670	1,673	1,562	1,614	1,619	1,566	1,615	1,716
Self-employed workers.....	1,496	1,477	1,487	1,451	1,386	1,429	1,363	1,417	1,441
Unpaid family workers.....	163	130	136	164	165	154	159	134	136
Nonagricultural industries:									
Wage and salary workers.....	99,253	101,229	101,883	98,846	100,420	100,838	101,334	101,221	101,503
Government.....	16,470	16,864	17,288	16,264	16,956	16,931	16,760	16,915	17,083
Private industries.....	82,783	84,365	84,595	82,582	83,464	83,907	84,574	84,306	84,420
Private households.....	1,244	1,088	1,257	1,216	1,146	1,224	1,172	1,088	1,235
Other industries.....	81,539	83,277	83,338	81,366	82,318	82,683	83,402	83,218	83,185
Self-employed workers.....	8,148	8,217	8,478	7,993	8,328	8,205	8,216	8,184	8,320
Unpaid family workers.....	266	303	240	265	274	268	250	300	238
PERSONS AT WORK PART TIME¹									
All industries:									
Part time for economic reasons.....	5,437	4,937	5,129	5,740	5,184	5,508	5,262	5,241	5,416
Slack work.....	2,443	2,070	2,346	2,481	2,317	2,456	2,515	2,212	2,389
Could only find part-time work.....	2,636	2,497	2,496	2,826	2,579	2,722	2,494	2,702	2,664
Voluntary part time.....	15,212	14,485	15,500	14,178	15,054	14,422	14,634	14,313	14,459
Nonagricultural industries:									
Part time for economic reasons.....	5,198	4,650	4,856	5,450	4,918	5,235	4,998	4,968	5,101
Slack work.....	2,273	1,899	2,162	2,314	2,155	2,295	2,306	2,038	2,211
Could only find part-time work.....	2,574	2,405	2,412	2,739	2,477	2,634	2,433	2,628	2,555
Voluntary part time.....	14,764	14,041	15,058	13,736	14,485	13,946	14,168	13,930	14,007

¹ 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		
	1986		1987			1987		
	III	IV	I	II	III	Aug.	Sept.	Oct.
U-1 Persons unemployed 15 weeks or longer as a percent of the civilian labor force.....	1.9	1.8	1.8	1.7	1.6	1.6	1.6	1.5
U-2 Job losers as a percent of the civilian labor force.....	3.4	3.3	3.3	3.0	2.8	2.8	2.8	2.9
U-3 Unemployed persons 25 years and over as a percent of the civilian labor force.....	5.4	5.4	5.1	4.7	4.6	4.7	4.6	4.6
U-4 Unemployed full-time jobseekers as a percent of the full-time civilian labor force.....	6.6	6.5	6.3	5.9	5.6	5.6	5.4	5.5
U-5a Total unemployed as a percent of the labor force, including the resident Armed Forces.....	6.8	6.8	6.6	6.1	5.9	5.9	5.8	5.9
U-5b Total unemployed as a percent of the civilian labor force.....	6.9	6.9	6.7	6.2	6.0	6.0	5.9	6.0
U-6 Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force.....	9.3	9.2	9.0	8.4	8.2	8.2	8.0	8.2
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.....	10.2	10.2	10.0	9.3	9.0	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 ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
CHARACTERISTIC									
Total, 16 years and over.....	8,222	7,089	7,174	6.9	6.1	6.0	6.0	5.9	6.0
Men, 16 years and over.....	4,565	3,798	3,893	7.0	6.2	6.0	6.0	5.7	5.9
Men, 20 years and over.....	3,814	3,089	3,163	6.2	5.5	5.4	5.2	5.0	5.1
Women, 16 years and over.....	3,657	3,291	3,281	6.9	5.9	6.1	6.0	6.1	6.1
Women, 20 years and over.....	2,994	2,703	2,605	6.1	5.2	5.4	5.3	5.4	5.2
Both sexes, 16 to 19 years.....	1,414	1,297	1,406	17.7	15.9	15.5	16.0	16.3	17.4
Married men, spouse present.....	1,898	1,523	1,576	4.6	4.0	3.8	3.7	3.6	3.7
Married women, spouse present.....	1,430	1,219	1,208	5.0	4.0	4.2	4.3	4.2	4.1
Women who maintain families.....	590	597	610	8.9	9.7	9.4	9.0	8.8	9.0
Full-time workers.....	6,688	5,587	5,718	6.6	5.9	5.7	5.6	5.4	5.5
Part-time workers.....	1,563	1,473	1,465	9.2	6.9	7.9	8.2	8.5	8.5
Labor force time lost ²	--	--	--	7.8	7.1	6.9	6.8	6.7	6.8
INDUSTRY									
Nonagricultural private wage and salary workers	6,233	5,300	5,262	7.0	6.2	6.1	5.9	5.9	5.9
Mining.....	141	59	77	14.5	10.8	7.8	8.9	7.0	8.5
Construction.....	860	752	694	13.8	11.6	10.7	11.2	12.1	11.4
Manufacturing.....	1,590	1,251	1,253	7.3	5.6	6.0	5.5	5.7	5.7
Durable goods.....	958	727	669	7.2	5.3	6.1	5.5	5.6	5.2
Nondurable goods.....	632	524	584	7.3	6.0	5.9	5.5	5.9	6.5
Transportation and public utilities.....	326	245	267	5.2	5.0	4.4	4.3	4.0	4.4
Wholesale and retail trade.....	1,656	1,456	1,481	7.4	7.2	6.8	7.0	6.4	6.4
Finance and service industries.....	1,660	1,537	1,490	5.4	4.8	5.1	4.6	4.9	4.7
Government workers.....	622	600	581	3.7	3.4	3.4	3.9	3.4	3.3
Agricultural wage and salary workers.....	211	147	209	11.9	8.8	11.3	10.8	8.3	10.9

¹ Unemployment as a percent of the civilian labor force.

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

² Aggregate hours lost by the unemployed and persons on

Table A-7. Duration of unemployment

(Numbers in thousands)

Weeks of unemployment	Not seasonally adjusted			Seasonally adjusted					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
DURATION									
Less than 5 weeks.....	3,411	3,391	3,211	3,418	3,085	3,168	3,197	3,230	3,227
5 to 14 weeks.....	2,463	1,764	2,032	2,563	2,114	2,141	2,170	1,932	2,121
15 weeks and over.....	1,968	1,701	1,602	2,168	2,055	1,907	1,884	1,920	1,759
15 to 26 weeks.....	840	744	712	950	998	945	814	909	799
27 weeks and over.....	1,128	957	891	1,218	1,057	962	1,070	1,011	959
Average (mean) duration, in weeks.....	14.8	13.9	13.7	15.2	14.8	14.0	14.3	14.2	14.0
Median duration, in weeks.....	6.4	5.1	5.7	7.0	6.7	6.7	6.4	5.7	6.2
PERCENT DISTRIBUTION									
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks.....	43.5	49.5	46.9	41.9	42.5	43.9	44.1	45.6	45.4
5 to 14 weeks.....	31.4	25.7	29.7	31.5	29.1	29.7	29.9	27.3	29.8
15 weeks and over.....	25.1	24.8	23.4	26.6	28.3	26.4	26.0	27.1	24.7
15 to 26 weeks.....	10.7	10.9	10.4	11.7	13.8	13.1	11.2	12.8	11.2
27 weeks and over.....	14.4	14.0	13.0	14.9	14.6	13.3	14.8	14.3	13.5

Table A-8. Reason for unemployment

(Numbers in thousands)

Reason	Not seasonally adjusted			Seasonally adjusted					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
NUMBER OF UNEMPLOYED									
Job losers.....	3,597	2,942	3,082	3,984	3,565	3,522	3,339	3,321	3,447
On layoff.....	860	643	768	1,072	901	918	850	810	956
Other job losers.....	2,737	2,299	2,314	2,912	2,664	2,604	2,489	2,511	2,491
Job leavers.....	1,090	1,086	1,030	1,027	949	1,007	1,006	995	956
Reentrants.....	2,281	1,975	1,873	2,190	1,969	1,913	1,997	1,885	1,794
New entrants.....	874	854	861	972	798	801	829	883	961
PERCENT DISTRIBUTION									
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	45.9	42.9	45.0	48.7	49.0	48.6	46.6	46.9	48.2
On layoff.....	11.0	9.4	11.2	13.1	12.4	12.7	11.9	11.4	13.4
Other job losers.....	34.9	33.5	33.8	35.6	36.6	36.0	34.7	35.4	34.8
Job leavers.....	13.9	15.8	15.0	12.6	13.0	13.9	14.0	14.0	13.4
Reentrants.....	29.1	28.8	27.4	26.8	27.0	26.4	27.9	26.6	25.1
New entrants.....	11.1	12.5	12.6	11.9	11.0	11.1	11.6	12.5	13.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE									
Job losers.....	3.0	2.4	2.5	3.4	3.0	2.9	2.8	2.8	2.9
Job leavers.....	.9	.9	.9	.9	.8	.8	.8	.8	.8
Reentrants.....	1.9	1.6	1.6	1.8	1.6	1.6	1.7	1.6	1.5
New entrants.....	.7	.7	.7	.8	.7	.7	.7	.7	.8

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

Sex and age	Number of unemployed persons (in thousands)			Unemployment rates ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
Total, 16 years and over.....	8,222	7,089	7,174	6.9	6.1	6.0	6.0	5.9	6.0
16 to 24 years.....	3,022	2,675	2,681	13.0	12.2	11.7	11.6	11.7	11.8
16 to 19 years.....	1,414	1,297	1,406	17.7	15.9	15.5	16.0	16.3	17.4
16 to 17 years.....	647	578	734	19.3	18.8	17.1	18.0	17.4	20.9
18 to 19 years.....	766	707	672	16.5	13.7	13.9	14.7	15.4	14.6
20 to 24 years.....	1,608	1,378	1,275	10.5	10.2	9.8	9.1	9.3	8.7
25 years and over.....	5,197	4,433	4,499	5.5	4.6	4.7	4.7	4.6	4.6
25 to 54 years.....	4,597	3,901	4,016	5.7	4.9	5.0	5.0	4.7	4.9
55 years and over.....	603	502	478	4.1	3.2	3.1	3.2	3.4	3.2
Men, 16 years and over.....	4,565	3,798	3,893	7.0	6.2	6.0	6.0	5.7	5.9
16 to 24 years.....	1,615	1,416	1,424	13.2	12.6	11.9	12.4	11.9	12.0
16 to 19 years.....	751	709	730	18.2	16.4	15.5	18.0	17.3	17.5
16 to 17 years.....	344	309	387	19.8	18.7	16.6	20.6	18.3	21.5
18 to 19 years.....	409	387	344	17.0	14.4	13.8	16.3	16.0	14.4
20 to 24 years.....	864	707	694	10.7	10.7	10.0	9.3	9.1	9.1
25 years and over.....	2,945	2,402	2,471	5.5	4.7	4.7	4.7	4.4	4.5
25 to 54 years.....	2,558	2,101	2,188	5.7	5.0	4.9	4.9	4.6	4.8
55 years and over.....	385	276	277	4.4	3.4	3.4	3.4	3.2	3.1
Women, 16 years and over.....	3,657	3,291	3,281	6.9	5.9	6.1	6.0	6.1	6.1
16 to 24 years.....	1,407	1,259	1,257	12.7	11.7	11.6	10.7	11.6	11.5
16 to 19 years.....	663	588	676	17.2	15.4	15.4	13.9	15.4	17.2
16 to 17 years.....	303	269	347	18.6	18.9	17.7	15.3	16.5	20.3
18 to 19 years.....	357	320	328	16.0	13.0	14.0	12.9	14.6	14.8
20 to 24 years.....	744	671	581	10.3	9.7	9.5	8.9	9.5	8.3
25 years and over.....	2,252	2,031	2,028	5.4	4.4	4.7	4.7	4.7	4.7
25 to 54 years.....	2,039	1,800	1,829	5.7	4.7	5.0	5.0	4.9	5.0
55 years and over.....	218	226	201	3.6	2.8	2.6	2.9	3.7	3.2

¹ 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 ¹					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
Civilian noninstitutional population.....	25,330	25,919	25,969	25,330	25,773	25,826	25,868	25,919	25,969
Civilian labor force.....	16,194	16,589	16,809	16,148	16,439	16,632	16,705	16,566	16,775
Participation rate.....	63.9	64.0	64.7	63.8	63.8	64.4	64.6	63.9	64.6
Employed.....	14,155	14,766	15,017	14,097	14,566	14,750	14,812	14,774	14,964
Employment-population ratio ²	55.9	57.0	57.8	55.7	56.5	57.1	57.3	57.0	57.6
Unemployed.....	2,040	1,824	1,793	2,051	1,873	1,882	1,893	1,792	1,810
Unemployment rate.....	12.6	11.0	10.7	12.7	11.4	11.3	11.3	10.8	10.8
Not in labor force.....	9,136	9,330	9,159	9,182	9,334	9,194	9,163	9,353	9,194

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

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

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

(Numbers in thousands)

Occupation	Civilian employed		Unemployed		Unemployment rate	
	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987
Total, 16 years and over ¹	110,857	113,898	7,842	6,845	6.6	5.7
Managerial and professional specialty.....	26,975	28,309	698	630	2.5	2.2
Executive, administrative, and managerial.....	12,892	13,729	366	378	2.8	2.7
Professional specialty.....	14,082	14,580	332	252	2.3	1.7
Technical, sales, and administrative support.....	34,936	35,667	1,669	1,575	4.6	4.2
Technicians and related support.....	3,489	3,507	112	104	3.1	2.9
Sales occupations.....	13,489	13,680	651	652	4.6	4.5
Administrative support, including clerical.....	17,958	18,480	906	820	4.8	4.2
Service occupations.....	14,725	14,908	1,440	1,176	8.9	7.3
Private household.....	963	953	65	42	6.3	4.2
Protective service.....	1,688	1,851	83	86	4.7	4.5
Service, except private household and protective.....	12,074	12,104	1,292	1,048	9.7	8.0
Precision production, craft, and repair.....	13,567	13,722	889	704	6.1	4.9
Mechanics and repairers.....	4,396	4,464	177	163	3.9	3.5
Construction trades.....	5,011	5,132	450	361	8.2	6.6
Other precision production, craft, and repair.....	4,160	4,126	262	180	5.9	4.2
Operators, fabricators, and laborers.....	17,178	17,738	1,965	1,602	10.3	8.3
Machine operators, assemblers, and inspectors.....	7,872	8,099	884	711	10.1	8.1
Transportation and material moving occupations.....	4,631	4,896	352	318	7.1	6.1
Handlers, equipment cleaners, helpers, and laborers.....	4,675	4,743	729	573	13.5	10.8
Construction laborers.....	770	791	198	165	20.5	17.3
Other handlers, equipment cleaners, helpers, and laborers.....	3,906	3,951	531	409	12.0	9.4
Farming, forestry, and fishing.....	3,477	3,554	263	260	7.0	6.8

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

Table A-12. Employment status of male 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	
	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987
VIETNAM-ERA VETERANS										
Total, 30 years and over.....	7,778	7,853	7,253	7,277	6,918	6,983	335	294	4.6	4.0
30 to 44 years	6,349	6,128	6,089	5,843	5,784	5,594	305	249	5.0	4.3
30 to 34 years	1,084	856	1,037	817	947	749	90	68	8.7	8.3
35 to 39 years	2,932	2,478	2,819	2,344	2,684	2,259	135	85	4.8	3.6
40 to 44 years	2,333	2,794	2,233	2,682	2,153	2,586	80	96	3.6	3.6
45 years and over	1,429	1,725	1,164	1,434	1,134	1,389	30	45	2.6	3.1
NONVETERANS										
Total, 30 to 44 years	18,691	19,741	17,711	18,785	16,790	17,974	921	811	5.2	4.3
30 to 34 years	8,629	8,920	8,169	8,541	7,734	8,147	435	394	5.3	4.6
35 to 39 years	5,853	6,379	5,559	6,074	5,257	5,838	302	236	5.4	3.9
40 to 44 years	4,209	4,442	3,983	4,170	3,799	3,989	184	181	4.6	4.3

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

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

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

(Numbers in thousands)

State and employment status	Not seasonally adjusted ¹			Seasonally adjusted ²					
	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987
California									
Civilian noninstitutional population.....	20,242	20,660	20,695	20,242	20,553	20,592	20,624	20,660	20,695
Civilian labor force.....	13,528	13,804	13,836	13,491	13,742	13,819	13,775	13,823	13,801
Employed.....	12,693	13,039	13,065	12,598	12,989	13,064	13,036	13,026	12,979
Unemployed.....	834	765	771	893	753	755	739	797	822
Unemployment rate.....	6.2	5.5	5.6	6.6	5.5	5.5	5.4	5.8	6.0
Florida									
Civilian noninstitutional population.....	9,244	9,480	9,500	9,244	9,419	9,441	9,460	9,480	9,500
Civilian labor force.....	5,680	5,902	5,962	5,679	5,840	5,899	5,851	5,868	5,961
Employed.....	5,348	5,591	5,666	5,368	5,546	5,587	5,519	5,574	5,679
Unemployed.....	332	311	296	311	294	312	332	294	282
Unemployment rate.....	5.8	5.3	5.0	5.5	5.0	5.3	5.7	5.0	4.7
Illinois									
Civilian noninstitutional population.....	8,664	8,687	8,688	8,664	8,684	8,687	8,686	8,687	8,688
Civilian labor force.....	5,693	5,804	5,851	5,678	5,727	5,778	5,819	5,804	5,828
Employed.....	5,279	5,448	5,483	5,252	5,297	5,356	5,409	5,434	5,446
Unemployed.....	413	355	368	426	430	422	410	370	382
Unemployment rate.....	7.3	6.1	6.3	7.5	7.5	7.3	7.0	6.4	6.6
Massachusetts									
Civilian noninstitutional population.....	4,557	4,574	4,575	4,557	4,571	4,573	4,573	4,574	4,575
Civilian labor force.....	3,038	3,053	3,097	3,047	3,114	3,069	3,097	3,051	3,107
Employed.....	2,935	2,969	3,014	2,929	3,015	2,993	3,005	2,975	3,007
Unemployed.....	103	84	84	118	99	76	92	76	100
Unemployment rate.....	3.4	2.8	2.7	3.9	3.2	2.5	3.0	2.5	3.2
Michigan									
Civilian noninstitutional population.....	6,878	6,939	6,944	6,878	6,925	6,931	6,934	6,939	6,944
Civilian labor force.....	4,424	4,576	4,518	4,441	4,513	4,503	4,638	4,606	4,532
Employed.....	4,064	4,242	4,208	4,065	4,124	4,129	4,231	4,246	4,205
Unemployed.....	360	333	310	376	389	374	407	360	327
Unemployment rate.....	8.1	7.3	6.9	8.5	8.6	8.3	8.8	7.8	7.2
New Jersey									
Civilian noninstitutional population.....	5,939	5,994	5,999	5,939	5,981	5,987	5,990	5,994	5,999
Civilian labor force.....	3,860	3,884	3,952	3,876	3,977	3,930	3,986	3,916	3,965
Employed.....	3,674	3,732	3,808	3,674	3,809	3,771	3,815	3,740	3,812
Unemployed.....	186	153	144	202	168	159	171	176	153
Unemployment rate.....	4.8	3.9	3.6	5.2	4.2	4.0	4.3	4.5	3.9
New York									
Civilian noninstitutional population.....	13,742	13,784	13,786	13,742	13,777	13,782	13,781	13,784	13,786
Civilian labor force.....	8,441	8,395	8,534	8,387	8,535	8,481	8,526	8,392	8,480
Employed.....	7,972	8,027	8,118	7,907	8,145	8,106	8,145	8,012	8,057
Unemployed.....	468	369	416	480	390	375	381	380	423
Unemployment rate.....	5.5	4.4	4.9	5.7	4.6	4.4	4.5	4.5	5.0
North Carolina									
Civilian noninstitutional population.....	4,780	4,854	4,861	4,780	4,836	4,843	4,848	4,854	4,861
Civilian labor force.....	3,212	3,303	3,354	3,206	3,292	3,322	3,306	3,313	3,350
Employed.....	3,049	3,187	3,225	3,041	3,143	3,171	3,165	3,182	3,218
Unemployed.....	163	116	129	165	149	151	141	131	132
Unemployment rate.....	5.1	3.5	3.9	5.1	4.5	4.5	4.3	4.0	3.9
Ohio									
Civilian noninstitutional population.....	8,112	8,137	8,138	8,112	8,133	8,136	8,136	8,137	8,138
Civilian labor force.....	5,263	5,171	5,221	5,214	5,237	5,240	5,205	5,148	5,176
Employed.....	4,855	4,885	4,920	4,810	4,859	4,868	4,841	4,865	4,876
Unemployed.....	408	287	301	404	378	372	364	283	300
Unemployment rate.....	7.8	5.5	5.8	7.7	7.2	7.1	7.0	5.5	5.8
Pennsylvania									
Civilian noninstitutional population.....	9,249	9,286	9,288	9,249	9,279	9,283	9,283	9,286	9,288
Civilian labor force.....	5,650	5,708	5,787	5,597	5,630	5,616	5,697	5,675	5,738
Employed.....	5,325	5,411	5,480	5,244	5,310	5,295	5,383	5,359	5,400
Unemployed.....	325	297	307	353	320	321	314	316	338
Unemployment rate.....	5.7	5.2	5.3	6.3	5.7	5.7	5.5	5.6	5.9
Texas									
Civilian noninstitutional population.....	12,052	12,264	12,282	12,052	12,211	12,231	12,246	12,264	12,282
Civilian labor force.....	8,295	8,430	8,409	8,288	8,372	8,456	8,546	8,401	8,390
Employed.....	7,555	7,713	7,791	7,506	7,656	7,753	7,828	7,685	7,737
Unemployed.....	740	717	618	782	716	703	718	716	653
Unemployment rate.....	8.9	8.5	7.4	9.4	8.6	8.3	8.4	8.5	7.8

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

² The population figures are not adjusted for 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					
	Oct. 1986	Aug. 1987	Sept. 1987 P	Oct. 1987 P	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987 P	Oct. 1987 P
Total	100,984	102,152	102,913	103,749	100,209	101,813	102,126	102,275	102,396	102,945
Total private	83,918	86,107	86,139	86,304	83,337	84,787	85,106	85,229	85,348	85,709
Goods-producing	24,982	25,346	25,400	25,394	24,611	24,761	24,850	24,886	24,910	25,018
Mining	737	755	759	764	735	738	744	751	758	762
Oil and gas extraction	415.7	433.0	435.1	441.0	416	425	430	434	439	441
Construction	5,204	5,366	5,292	5,285	4,942	5,008	5,002	5,006	4,978	5,019
General building contractors	1,345.7	1,345.0	1,318.7	1,325.8	1,289	1,266	1,261	1,262	1,257	1,270
Manufacturing	19,041	19,225	19,349	19,345	18,934	19,015	19,104	19,129	19,174	19,237
Production workers	12,954	13,104	13,251	13,241	12,849	12,958	13,020	13,038	13,082	13,138
Durable goods	11,209	11,238	11,343	11,362	11,169	11,176	11,195	11,248	11,276	11,321
Production workers	7,410	7,447	7,566	7,584	7,369	7,421	7,425	7,475	7,504	7,546
Lumber and wood products	731.3	762.2	761.7	755.4	718	735	740	736	740	742
Furniture and fixtures	502.6	515.7	521.8	526.1	499	510	518	518	520	522
Stone, clay, and glass products	592.2	596.2	595.1	594.1	581	582	582	582	581	583
Primary metal industries	726.8	752.9	764.1	764.8	733	746	750	754	765	771
Blast furnaces and basic steel products	257.4	279.0	281.7	282.9	262	275	277	278	283	288
Fabricated metal products	1,429.9	1,423.5	1,441.1	1,446.4	1,421	1,424	1,424	1,425	1,430	1,438
Machinery, except electrical	2,017.7	2,031.4	2,050.6	2,057.0	2,022	2,028	2,033	2,044	2,053	2,061
Electrical and electronic equipment	2,124.2	2,095.0	2,106.0	2,118.1	2,120	2,080	2,088	2,095	2,098	2,114
Transportation equipment	2,014.8	1,991.4	2,029.7	2,022.6	2,013	2,010	1,995	2,028	2,022	2,021
Motor vehicles and equipment	852.2	819.4	847.7	841.0	850	842	814	848	840	838
Instruments and related products	700.8	695.9	694.9	693.8	702	693	695	695	695	694
Miscellaneous manufacturing	368.6	373.8	378.3	383.7	360	368	370	371	372	375
Nondurable goods	7,832	7,987	8,006	7,983	7,765	7,839	7,909	7,881	7,898	7,916
Production workers	5,544	5,657	5,685	5,657	5,480	5,537	5,595	5,563	5,578	5,592
Food and kindred products	1,664.9	1,722.1	1,714.2	1,677.1	1,621	1,634	1,644	1,632	1,628	1,633
Tobacco manufactures	62.5	56.7	59.6	57.4	58	57	57	56	55	53
Textile mill products	713.1	736.1	740.5	740.1	709	729	736	732	735	736
Apparel and other textile products	1,114.1	1,111.0	1,126.8	1,132.5	1,104	1,108	1,130	1,110	1,119	1,122
Paper and allied products	678.2	681.2	681.8	678.2	677	676	678	677	680	677
Printing and publishing	1,468.8	1,503.6	1,502.0	1,510.7	1,469	1,498	1,504	1,508	1,507	1,511
Chemicals and allied products	1,018.5	1,036.3	1,032.0	1,031.0	1,020	1,014	1,026	1,031	1,030	1,032
Petroleum and coal products	166.1	167.6	167.9	166.6	166	164	164	164	167	167
Rubber and miscellaneous plastics products	796.2	818.2	827.1	833.8	794	810	815	819	825	832
Leather and leather products	149.6	154.0	154.3	155.2	147	149	155	152	152	153
Service-producing	76,002	76,806	77,513	78,355	75,598	77,057	77,276	77,389	77,486	77,927
Transportation and public utilities	5,296	5,386	5,456	5,471	5,251	5,350	5,363	5,377	5,406	5,422
Transportation	3,101	3,138	3,222	3,240	3,053	3,128	3,133	3,147	3,174	3,189
Communication and public utilities	2,195	2,248	2,234	2,231	2,198	2,222	2,230	2,230	2,232	2,233
Wholesale trade	5,759	5,838	5,835	5,855	5,731	5,781	5,797	5,807	5,813	5,824
Durable goods	3,385	3,439	3,432	3,442	3,379	3,405	3,418	3,422	3,429	3,435
Nondurable goods	2,374	2,399	2,403	2,413	2,352	2,376	2,379	2,385	2,384	2,389
Retail trade	18,034	18,384	18,411	18,443	17,980	18,226	18,274	18,256	18,319	18,388
General merchandise stores	2,402.8	2,362.7	2,379.4	2,454.2	2,385	2,387	2,407	2,411	2,416	2,435
Food stores	2,912.5	2,961.6	2,962.9	2,979.9	2,901	2,960	2,959	2,962	2,960	2,968
Automotive dealers and service stations	1,962.7	2,009.0	1,999.3	2,002.7	1,960	1,983	1,985	1,985	1,987	2,001
Eating and drinking places	5,924.3	6,177.5	6,185.4	6,039.9	5,919	5,982	5,985	5,992	6,017	6,034
Finance, insurance, and real estate	6,383	6,704	6,642	6,619	6,395	6,586	6,608	6,624	6,626	6,633
Finance	3,195	3,319	3,290	3,291	3,204	3,280	3,291	3,293	3,293	3,301
Insurance	1,977	2,058	2,048	2,048	1,980	2,037	2,043	2,050	2,050	2,052
Real estate	1,211	1,327	1,304	1,280	1,211	1,269	1,274	1,281	1,283	1,280
Services	23,464	24,449	24,395	24,522	23,369	24,083	24,214	24,279	24,274	24,424
Business services	4,911.2	5,189.6	5,194.0	5,233.9	4,861	5,086	5,105	5,133	5,148	5,182
Health services	6,642.6	6,950.6	6,949.8	6,994.3	6,644	6,853	6,887	6,923	6,943	6,994
Government	17,066	16,045	16,774	17,445	16,872	17,031	17,020	17,046	17,048	17,236
Federal	2,876	2,966	2,942	2,934	2,897	2,935	2,936	2,940	2,963	2,955
State	4,001	3,738	3,900	4,096	3,907	3,932	3,952	3,964	3,971	4,000
Local	10,189	9,341	9,932	10,415	10,068	10,164	10,132	10,142	10,114	10,281

p = preliminary.

ESTABLISHMENT DATA

ESTABLISHMENT DATA

Table B-2. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry

Industry	Not seasonally adjusted				Seasonally adjusted					
	Oct. 1986	Aug. 1987	Sept. 1987 p	Oct. 1987 p	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987 p	Oct. 1987 p
Total private	34.7	35.3	34.7	34.9	34.7	34.8	34.8	34.9	34.6	34.8
Mining	42.1	42.4	42.1	43.1	(2)	(2)	(2)	(2)	(2)	(2)
Construction	37.9	38.6	36.4	38.7	(2)	(2)	(2)	(2)	(2)	(2)
Manufacturing	40.7	40.9	40.6	41.1	40.7	41.0	41.0	41.0	40.4	41.1
Overtime hours	3.5	3.9	3.9	4.0	3.5	3.7	3.8	3.8	3.6	4.0
Durable goods	41.3	41.3	41.0	41.7	41.3	41.5	41.6	41.6	40.9	41.7
Overtime hours	3.6	3.9	3.9	4.2	3.5	3.8	3.8	4.0	3.7	4.1
Lumber and wood products	40.6	40.7	39.9	40.4	40.4	40.6	40.6	40.4	39.4	40.2
Furniture and fixtures	40.5	40.3	39.7	40.5	39.9	40.0	40.0	40.1	39.2	39.9
Stone, clay, and glass products	42.6	42.6	42.4	42.7	42.3	42.0	42.2	42.1	41.8	42.3
Primary metal industries	42.0	43.0	43.2	43.7	42.3	43.1	43.4	43.5	43.2	44.0
Blast furnaces and basic steel products	41.8	43.5	45.0	44.9	42.4	43.5	44.1	44.0	45.1	45.5
Fabricated metal products	41.3	41.3	40.8	41.7	41.3	41.5	41.4	41.5	40.7	41.7
Machinery, except electrical	41.5	41.8	41.5	42.3	41.7	42.2	42.4	42.2	41.5	42.5
Electrical and electronic equipment	41.0	40.8	40.5	40.9	41.0	41.1	41.1	41.0	40.4	40.9
Transportation equipment	41.9	41.1	41.0	42.2	42.1	41.9	41.7	41.9	41.1	42.4
Motor vehicles and equipment	41.9	40.8	40.8	42.6	42.1	42.0	41.9	41.9	41.0	42.9
Instruments and related products	40.7	41.3	40.8	41.8	40.9	41.5	41.6	41.7	40.8	42.1
Miscellaneous manufacturing	39.8	39.4	39.0	39.7	(2)	(2)	(2)	(2)	(2)	(2)
Nondurable goods	40.0	40.4	40.2	40.3	39.9	40.2	40.3	40.3	39.9	40.3
Overtime hours	3.5	3.9	4.0	3.9	3.4	3.6	3.7	3.7	3.6	3.8
Food and kindred products	40.0	40.7	40.6	40.7	39.8	40.1	39.9	40.3	40.0	40.5
Tobacco manufactures	39.0	36.1	38.5	40.3	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	41.6	42.3	41.5	41.8	41.4	42.1	42.4	42.1	41.1	41.6
Apparel and other textile products	36.9	37.4	36.1	37.2	36.8	37.1	37.3	37.4	36.1	37.1
Paper and allied products	43.1	43.2	44.0	43.3	43.1	43.3	43.5	43.4	43.7	43.3
Printing and publishing	38.1	38.1	38.4	38.1	38.0	38.1	38.1	37.9	38.1	38.0
Chemicals and allied products	41.8	42.1	42.5	42.1	42.0	42.0	42.2	42.4	42.5	42.4
Petroleum and coal products	43.9	43.5	43.6	43.4	43.7	43.3	44.4	43.3	43.0	43.1
Rubber and miscellaneous plastics products	41.5	41.4	41.2	41.8	(2)	(2)	(2)	(2)	(2)	(2)
Leather and leather products	36.8	38.9	37.2	38.1	(2)	(2)	(2)	(2)	(2)	(2)
Transportation and public utilities	39.1	39.6	39.0	39.2	39.1	38.8	39.2	39.3	38.9	39.2
Wholesale trade	38.4	38.4	38.2	38.4	38.3	38.2	38.1	38.3	38.1	38.4
Retail trade	29.0	30.3	29.6	29.1	29.1	29.2	29.3	29.6	29.6	29.2
Finance, insurance, and real estate	36.4	36.4	36.0	36.1	(2)	(2)	(2)	(2)	(2)	(2)
Services	32.4	32.9	32.4	32.5	32.4	32.5	32.5	32.5	32.5	32.5

¹ 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.

² 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.

ESTABLISHMENT DATA

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

Industry	Average hourly earnings				Average weekly earnings			
	Oct. 1986	Aug. 1987	Sept. 1987 p	Oct. 1987 p	Oct. 1986	Aug. 1987	Sept. 1987 p	Oct. 1987 p
Total private	\$8.82	\$8.94	\$9.05	\$9.08	\$306.05	\$315.58	\$314.04	\$316.89
<i>Seasonally adjusted</i>	8.82	9.02	9.01	9.07	306.05	314.80	311.75	315.64
Mining	12.50	12.32	12.45	12.33	526.25	522.37	524.15	531.42
Construction	12.68	12.67	12.78	12.78	480.57	489.06	465.19	494.59
Manufacturing	9.72	9.86	9.98	9.94	395.60	403.27	405.19	408.53
Durable goods	10.27	10.42	10.48	10.46	424.15	430.35	429.68	436.18
Lumber and wood products	8.32	8.49	8.48	8.45	337.79	345.54	338.35	341.38
Furniture and fixtures	7.53	7.74	7.77	7.77	304.97	311.92	308.47	314.69
Stone, clay, and glass products	10.10	10.31	10.42	10.34	430.26	439.21	441.81	441.52
Primary metal industries	11.75	11.98	12.26	11.99	493.50	515.14	529.63	523.96
Blast furnaces and basic steel products	13.63	13.81	14.16	13.80	569.73	600.74	637.20	619.62
Fabricated metal products	9.88	9.97	9.65	9.70	408.04	411.76	393.72	404.49
Machinery, except electrical	10.58	10.76	10.81	10.82	439.07	449.77	448.62	457.69
Electrical and electronic equipment	9.67	9.90	9.98	9.96	396.47	403.92	404.19	407.36
Transportation equipment	12.82	12.90	13.10	13.15	537.16	530.19	537.10	554.93
Motor vehicles and equipment	13.42	13.43	13.74	13.83	562.30	547.94	560.59	589.16
Instruments and related products	9.56	9.78	9.82	9.75	389.09	403.91	400.66	407.55
Miscellaneous manufacturing	7.57	7.70	7.77	7.77	301.29	303.38	303.03	308.47
Nondurable goods	8.96	9.12	9.29	9.21	358.40	368.45	373.46	371.16
Food and kindred products	8.69	8.80	8.96	8.92	347.60	358.16	363.78	363.04
Tobacco manufactures	12.14	14.20	12.87	12.74	473.46	512.62	495.50	513.42
Textile mill products	7.02	7.16	7.22	7.23	292.03	302.87	299.63	302.21
Apparel and other textile products	5.87	5.90	6.03	6.02	216.60	220.66	217.68	223.94
Paper and allied products	11.25	11.41	11.69	11.49	484.88	492.91	514.36	497.52
Printing and publishing	10.09	10.31	10.50	10.45	384.43	392.81	403.20	398.15
Chemicals and allied products	12.08	12.34	12.56	12.49	504.94	519.51	533.80	525.83
Petroleum and coal products	14.19	14.52	14.71	14.66	622.94	631.62	641.36	636.24
Rubber and miscellaneous plastics products	8.73	8.90	8.99	8.94	362.30	368.46	370.39	373.69
Leather and leather products	5.95	6.01	6.14	6.13	218.96	233.79	228.41	233.55
Transportation and public utilities	11.77	11.97	12.00	12.00	460.21	474.01	468.00	470.40
Wholesale trade	9.36	9.62	9.68	9.65	359.42	369.41	369.78	370.56
Retail trade	6.06	6.06	6.21	6.16	175.74	183.62	183.82	179.26
Finance, insurance, and real estate	8.39	8.81	8.81	8.79	305.40	320.68	317.16	317.32
Services	8.23	8.40	8.54	8.61	266.65	276.36	276.70	279.83

1 See footnote 1, table B-2.

p = preliminary.

Table B-4. Hourly Earnings Index for production or nonsupervisory workers' on private nonagricultural payrolls by industry

(1977 = 100)

Industry	Not seasonally adjusted					Seasonally adjusted						
	Oct. 1986	Aug. 1987	Sept. 1987	Oct. 1987	Percent change from: Oct. 1986- Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Percent change from: Oct. 1987- Oct. 1987
Total private nonfarm:												
Current dollars	170.2	173.2	174.8	174.6	2.6	170.2	172.9	173.2	174.1	174.5	174.6	0.1
Constant (1977) dollars	95.0	93.2	93.6	N.A.	(2)	95.1	93.8	93.7	93.7	93.7	N.A.	(3)
Mining	181.7	181.6	183.2	181.8	.1	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Construction	154.7	154.7	155.9	156.2	0.9	153.2	155.0	154.3	154.7	154.1	154.7	.4
Manufacturing	172.4	174.7	175.8	175.2	1.6	173.0	174.7	174.7	175.5	176.2	175.8	-.3
Transportation and public utilities	172.3	175.1	176.3	176.4	2.4	171.9	175.6	176.4	176.0	175.6	176.0	.2
Wholesale trade	172.9	177.4	178.6	178.3	3.1	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Retail trade	159.0	160.4	163.4	162.0	1.9	159.3	160.3	160.9	161.5	162.9	162.4	-.3
Finance, insurance, and real estate	180.5	189.4	189.1	189.2	4.9	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Services	175.7	180.4	182.8	183.6	4.5	175.7	179.9	180.5	182.4	182.1	183.6	.9

1 See footnote 1, table B-2.

2 Change is -1.5 percent from September 1986 to September 1987, the latest month available.

3 Change is less than .05 percent from August 1987 to September 1987, the latest month available.

4 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.

ESTABLISHMENT DATA

ESTABLISHMENT DATA

Table B-5. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry

(1977 = 100)

Industry	Not seasonally adjusted				Seasonally adjusted					
	Oct. 1986	Aug. 1987	Sept. 1987 P	Oct. 1987 P	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987 P	Oct. 1987 P
Total	118.8	123.8	121.8	122.6	117.7	120.0	120.6	121.2	120.2	121.5
Goods-producing	99.9	102.2	100.8	103.1	97.6	98.9	99.5	99.7	97.5	100.8
Mining	81.4	85.9	86.0	88.6	81.0	83.5	85.0	85.2	84.9	88.2
Construction	142.0	148.4	137.5	146.0	131.6	132.6	133.2	133.6	124.6	135.3
Manufacturing	92.6	94.0	94.4	95.5	91.8	93.1	93.6	93.8	92.8	94.7
Durable goods	89.9	90.3	91.0	92.9	89.5	90.5	90.6	91.2	90.0	92.5
Lumber and wood products	101.7	106.1	103.6	104.0	99.2	101.7	102.4	101.2	99.0	101.5
Furniture and fixtures	109.3	111.4	111.1	114.8	106.8	109.5	111.6	111.7	109.4	112.2
Stone, clay, and glass products	88.7	89.5	89.3	89.6	86.1	86.1	86.1	86.1	85.5	87.1
Primary metal industries	59.8	64.3	65.8	66.5	60.7	63.5	64.4	65.0	65.7	67.5
Blast furnaces and basic steel products	46.1	52.6	55.1	55.2	47.7	51.4	52.6	53.0	55.1	56.9
Fabricated metal products	89.1	88.6	89.1	91.7	88.3	89.1	89.0	89.4	88.1	90.9
Machinery, except electrical	83.8	85.4	86.4	88.6	84.4	86.5	87.0	87.4	86.6	89.3
Electrical and electronic equipment	101.1	99.9	100.3	102.7	100.8	99.9	100.6	100.8	99.7	102.2
Transportation equipment	96.4	92.2	95.2	97.3	96.8	96.6	94.3	97.4	95.1	97.7
Motor vehicles and equipment	84.9	79.7	83.6	86.3	84.9	85.1	81.5	86.1	83.3	86.5
Instruments and related products	101.1	102.0	101.3	102.9	101.8	102.2	103.0	103.0	101.3	104.3
Miscellaneous manufacturing	82.9	82.9	83.1	86.2	79.0	81.4	81.9	82.3	80.7	82.3
Nondurable goods	96.5	99.5	99.5	99.4	95.3	97.0	98.1	97.7	96.9	98.1
Food and kindred products	101.8	107.9	107.3	104.5	97.6	99.3	99.6	99.5	98.4	100.2
Tobacco manufactures	87.9	70.6	79.4	80.4	76.9	76.3	73.1	71.0	69.9	70.3
Textile mill products	80.5	84.6	83.6	84.1	79.6	83.3	84.8	83.7	82.0	83.1
Apparel and other textile products	86.2	86.8	85.1	88.1	85.1	85.9	88.2	86.6	84.4	86.9
Paper and allied products	99.7	100.5	102.8	100.4	99.7	100.0	100.8	100.4	101.7	100.4
Printing and publishing	129.0	131.3	132.4	131.8	128.9	131.1	131.4	131.4	132.1	131.7
Chemicals and allied products	92.0	95.2	96.3	94.7	92.8	92.8	94.5	95.5	95.9	95.6
Petroleum and coal products	83.1	85.6	86.2	84.9	81.8	83.4	84.7	83.4	83.5	83.7
Rubber and miscellaneous plastics products	112.3	114.6	115.5	118.4	112.0	114.8	115.0	115.5	115.2	118.1
Leather and leather products	56.1	62.5	59.8	61.6	55.4	59.7	62.2	61.4	59.2	60.6
Service-producing	129.3	135.7	133.3	133.4	128.8	131.7	132.3	133.1	132.8	133.0
Transportation and public utilities	107.1	110.5	110.3	111.4	106.1	107.6	109.0	109.7	109.0	110.4
Wholesale trade	117.9	119.3	118.5	119.5	116.9	117.6	117.5	118.2	117.6	118.8
Retail trade	118.5	125.9	123.0	121.3	118.6	120.4	121.2	122.4	122.5	121.3
Finance, insurance, and real estate	138.7	145.3	141.8	141.4	139.0	142.7	142.0	143.0	141.3	141.5
Services	147.7	156.0	153.1	154.2	146.9	151.7	152.5	152.9	152.7	153.6

¹ See footnote 1, table B-2.

p = preliminary.

Table B-6. Indexes of diffusion: Percent of industries in which employment¹ increased

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1985	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
	1986	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987	53.5	56.8	58.6	58.4	58.6	55.7	68.6	54.6	p64.1	p62.7		
Over 3-month span	1985	51.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
	1986	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987	58.6	59.5	61.1	61.6	61.4	67.3	66.2	p72.4	p67.0			
Over 6-month span	1985	46.5	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
	1986	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987	61.9	62.7	58.9	67.3	67.6	p69.7	p73.5					
Over 12-month span	1985	44.6	44.1	43.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	42.4
	1986	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	52.2	55.1	56.5
	1987	62.2	63.5	p67.6	p71.1								

¹ 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.

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