

News

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Department
of Labor



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THE EMPLOYMENT SITUATION: SEPTEMBER 1977

Employment rose in September and unemployment declined slightly, it was reported today by the Bureau of Labor Statistics of the U. S. Department of Labor. The overall unemployment rate was 6.9 percent, down from 7.1 percent in August. The rate has fluctuated within this narrow range since last April.

Total employment--as measured by the monthly survey of households--rose 320,000 over the month to 91.1 million in September. Employment has grown by 3.3 million over the past 12 months, and the percentage of the population with jobs (the employment-population ratio) has risen from 56.1 to 57.3 percent, just short of the alltime high last reached in March 1974.

Nonfarm payroll employment--as measured by the monthly survey of establishments--advanced at about the same pace as total employment over the month, with an increase of 290,000. Payroll jobs have expanded by 2.8 million since September 1976.

Unemployment

Unemployment declined by 150,000 in September to 6.8 million, seasonally adjusted. The over-the-month decline occurred primarily among persons who had lost their last job, most of whom had been recalled from layoff. The overall unemployment rate was 6.9 percent and has been at about this level since April; however, it was down about a percentage point from last fall. (See tables A-1 and A-5.)

Nearly all of the over-the-month reduction in unemployment took place among black workers (primarily adult men), reversing their increase in the prior month. The rate for blacks was 13.1 percent in September, down from 14.5 percent in August; it had been 13.2 percent in both June and July. The jobless rate for whites, on the other hand, was 6.1 percent for the third month in a row. Over the past year, however, there

has been no improvement in the unemployment situation for black workers, whereas the rate for whites declined substantially, by a full percentage point. The ratio of the two rates was in excess of 2 to 1 in September, considerably above the year earlier ratio of 1.8 to 1. Young blacks have continued to experience a particularly high incidence of joblessness as their rate has remained in the 35 to 40 percent range for the past 3 years.

Jobless rates were down from August to September for adult men (from 5.2 to 4.9 percent) but were little changed for adult women (7.0 percent) and teenagers (18.1 percent). There was also a three-tenths drop among full-time workers, returning their rate to 6.5 percent. (See table A-2.)

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

Selected categories	Quarterly averages					Monthly data		
	1976		1977			1977		
	III	IV	I	II	III	July	Aug.	Sept.
HOUSEHOLD DATA								
Thousands of persons								
Civilian labor force	95,261	95,711	96,067	97,186	97,623	97,305	97,697	97,868
Total employment	87,804	88,133	88,998	90,370	90,809	90,561	90,771	91,095
Unemployment	7,457	7,578	7,068	6,816	6,814	6,744	6,926	6,773
Not in labor force	58,963	59,132	59,379	58,908	59,140	59,242	59,064	59,114
Discouraged workers	827	992	929	1,061	1,104	N.A.	N.A.	N.A.
Percent of labor force								
Unemployment rates:								
All workers	7.8	7.9	7.4	7.0	7.0	6.9	7.1	6.9
Adult men	6.0	6.2	5.6	5.1	5.1	5.1	5.2	4.9
Adult women	7.7	7.6	7.1	6.9	7.0	6.9	7.1	7.0
Teenagers	18.8	19.1	18.6	18.1	17.7	17.4	17.5	18.1
White	7.1	7.2	6.7	6.3	6.1	6.1	6.1	6.1
Black and other	13.1	13.4	12.8	12.8	13.6	13.2	14.5	13.1
Full-time workers	7.4	7.5	6.8	6.5	6.6	6.5	6.8	6.5
ESTABLISHMENT DATA								
Thousands of jobs								
Nonfarm payroll employment ...	79,683	80,090	80,927	81,909	82,525p	82,366	82,459p	82,750p
Goods-producing industries ...	23,372	23,440	23,765	24,292	24,347p	24,399	24,289p	24,352p
Service-producing industries ...	56,311	56,650	57,162	57,617	58,178p	57,967	58,170p	58,398p
Hours of work								
Average weekly hours:								
Total private nonfarm	36.1	36.2	36.1	36.2	36.0p	36.1	36.0p	35.9p
Manufacturing	39.9	40.0	40.1	40.4	40.2p	40.3	40.2p	40.0p
Manufacturing overtime	3.0	3.1	3.1	3.4	3.3p	3.4	3.3p	3.3p

p=preliminary.

N.A.=not available.

The average (mean) duration of joblessness rose from 13.5 weeks in August to 14.2 weeks in September, after having declined steadily since May. (See table A-4.)

Total Employment and the Labor Force

Total employment increased by 320,000 in September to 91.1 million, as an unusually large increase of 500,000 for adult women more than offset a 210,000 decline among teenagers. The number of employed adult men was about unchanged in September. Employment levels rose for both black and white workers. Total employment was 3.3 million above its year-ago level, with increases of nearly 1.8 million for adult women, 1.2 million for adult men, and 330,000 for teenagers.

The employment-population ratio--the proportion of the total noninstitutional population that is employed--was up two-tenths of a percentage point to 57.3 percent in September, after holding fairly steady between April and August. This was only a tenth of a point below the alltime high last recorded in March of 1974.

The civilian labor force, at 97.9 million in September, was up slightly over the month, as a large increase among adult women was partially countered by declines among adult men and teenagers. The labor force increased by 2.7 million from a year ago. The labor force participation rate was unchanged from the August rate of 62.3 percent but was 0.6 percentage point above the year-ago level. (See table A-1.)

Discouraged Workers

Discouraged workers are persons who report that they want work but are not looking for jobs because they believe they cannot find any. Because they do not meet the labor market test--that is, they are not engaged in active job search--they are classified as not in the labor force rather than as unemployed. These data are published on a quarterly basis.

At 1.1 million in the third quarter, the number of discouraged workers was little changed from the second quarter level. As usual, about two-thirds of this total indicated job-market factors as the reason for not seeking work. (See table A-8.)

Industry Payroll Employment

Total nonagricultural payroll employment registered its largest advance in 5 months, growing by 290,000 in September to 82.8 million, seasonally adjusted. August-September job gains were posted in 64 percent of the industries comprising the BLS diffusion index of private nonagricultural payroll employment, as the index rebounded from the unusually low level of the prior month. Employment has risen by 2.8 million over the past year. (See tables B-1 and B-6.)

Three-fourths of the over-the-month job growth took place in the service-producing sector, with gains dispersed throughout the sector. Contributing most strongly were services, retail trade, and State and local government. The services industry has grown steadily since mid-1975 and is responsible for more than a third of the sector's increase over the year.

Despite an August-September advance, the goods-producing sector did not fully recover from the prior month's decline. Manufacturing edged up slightly, as a majority of the durable goods industries posted increases. By contrast, nondurable goods employment was at a 6-month low. Although mining posted a sizeable gain, all of it stemmed from decreased strike activity. Contract construction employment was about unchanged over the month.

Hours

Declining a tenth of an hour for the fourth consecutive month, average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls dropped to 35.9 in September, one of the lowest levels ever registered. While short-run movements in weekly hours tend to reflect economic conditions, the longer-term downtrend results primarily from structural changes in employment, particularly changes in the full-time/part-time mix. Manufacturing weekly hours, on the other hand, have not displayed a similar historical trend, and movements are more closely related to cyclical patterns. Over the month, weekly hours for manufacturing were down 0.2 to 40.0 hours, a return to late 1976 levels. Manufacturing overtime hours equaled the August level of 3.3 hours, after holding at 3.4 hours in the prior 4 months. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose 0.3 percent, returning to the June level of 115.8 (1967=100). A slight decline in the index for the goods-producing sector was more than offset by a 0.6 percent rise in the service-producing sector's index. The overall index has advanced 3.2 percent since September 1976. (See table B-5.)

Hourly and Weekly Earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls advanced 0.2 percent, seasonally adjusted. Due to a decline in average weekly hours, however, average weekly earnings edged down 0.1 percent, to their lowest level since June. Compared with their year-ago levels, average hourly and weekly earnings were up 7.5 percent and 7.2 percent, respectively.

Before adjustment for seasonality, average hourly earnings rose 8 cents from August to \$5.34, 38 cents above the level of last September. Average weekly earnings increased by \$1.31 to \$192.77. Over the year, average weekly earnings have risen \$13.22. (See table B-3.)

The Hourly Earnings Index

The Hourly Earnings Index--earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries--was 200.6 (1967=100) in September, 0.4 percent higher than in August. The index was 7.0 percent above September a year ago. During the 12-month period ended in August, the Hourly Earnings Index in dollars of constant purchasing power rose 0.4 percent. (See table B-4.)

Explanatory Note

This release presents and analyzes statistics from two major surveys. Data on labor force, total employment, and unemployment (A tables) are derived from the Current Population Survey, a sample survey of households conducted by the Bureau of the Census for the Bureau of Labor Statistics. The sample consists of about 47,000 households selected to represent the U.S. civilian noninstitutional population 16 years of age and over.

Statistics on nonagricultural payroll employment, hours, and earnings (B tables) are collected by the Bureau of Labor Statistics, in cooperation with State agencies, from payroll records of a sample of approximately 165,000 establishments. Unless otherwise indicated, data for both series relate to the week containing the 12th day of the specified month.

Comparability of household and payroll employment statistics

Employment data from the household and payroll surveys differ in several basic respects. The household survey provides information on the labor force activity of the entire population 16 years of age and over, without duplication, since each person is classified as employed, unemployed, or not in the labor force.

The payroll survey relates only to paid wage and salary employees (regardless of age) on the payrolls of nonagricultural establishments. The household survey counts employed persons in both agriculture and in nonagricultural industries and, in addition to wage and salary workers (including private household workers), includes the self-employed, unpaid family workers, and persons "with a job but not at work" and not paid for the period absent. Persons who worked at more than one job during the survey week or otherwise appear on more than one payroll are counted more than once in the establishment survey. Such persons are counted only once in the household survey and are classified in the job at which they worked the greatest number of hours.

Unemployment

To be classified in the household survey as unemployed an individual must: (1) have been without a job during the survey week, (2) have made specific efforts to find employment sometime during the prior 4 weeks, and (3) be presently available for work. In addition, persons on lay-off and those waiting to begin a new job (within 30 days) are also classified as unemployed. The unemployed total

includes all persons who satisfactorily meet the above criteria, regardless of their eligibility for unemployment insurance benefits or any kind of public assistance. The unemployment rate represents the unemployed as a proportion of the civilian labor force (the employed and unemployed combined).

To meet the extensive needs of data users, the Bureau regularly publishes data on a wide variety of labor market indicators—see, for example, the demographic, occupational, and industry detail in tables A-2 and A-3. A special grouping of seven unemployment measures is set forth in table A-7. Identified by the symbols U-1 through U-7, these measures represent a range of possible definitions of unemployment and of the labor force, extending from the most restrictive (U-1) to the most comprehensive (U-7). The official rate of unemployment appears as U-5.

Seasonal adjustment

Nearly all economic phenomena are affected to some degree by seasonal variations. These are recurring, predictable events which are repeated more or less regularly each year—changes in weather, school vacations, major holidays, industry production schedules, etc. The cumulative effects of these events are often large. For example, on average over the year, they explain about 90 percent of the month-to-month variance in the unemployment figures. Since seasonal variations tend to be large relative to the underlying cyclical trends, it is necessary to use seasonally-adjusted data to interpret short-term economic developments. At the beginning of each year, current seasonal adjustment factors for unemployment and other labor force series are calculated taking into account the prior year's experience, and revised data are introduced in the release containing January data.

All seasonally-adjusted civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. The official unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of four seasonally-adjusted age-sex components) by the civilian labor force (the sum of 12 seasonally-adjusted age-sex components). Several alternative methods for seasonally adjusting the overall unemployment rate are also used on a regular basis in order to illustrate the degree of uncertainty that arises because of the seasonal adjustment procedure. Among these alternative methods are five different age-sex adjustments,

including a concurrent adjustment and one based on stable factors and four based on other unemployment aggregations. Alternative rates for 1976 are shown in the table at the end of this note. (Current alternative rates and an explanation of the methods may be obtained from BLS upon request.)

For establishment data, the seasonally-adjusted series for all employees, production workers, average weekly hours, and average hourly earnings are adjusted by aggregating the seasonally-adjusted data from the respective component series. These data are revised annually, usually in conjunction with the annual benchmark adjustments (comprehensive counts of employment).

Sampling variability

Both the household and establishment survey statistics are subject to sampling error, which should be taken into account in evaluating the levels of a series as well as changes over time. Because the household survey is based upon a probability sample, the results may differ from the figures that would be obtained if it were possible to take a complete census using the same questionnaire and procedures. The standard error is the measure of sampling variability, that is, the variations that might occur by chance because only a

sample of the population is surveyed. Tables A-E in the "Explanatory Notes" of *Employment and Earnings* provide standard errors for unemployment and other labor force categories.

Although the relatively large size of the monthly establishment survey assures a high degree of accuracy, the estimates derived from it also may differ from the figures obtained if a complete census using the same schedules and procedures were possible. Moreover, since the estimating procedures employ the previous month's level as the base in computing the current month's level of employment (link-relative technique); sampling and response errors may accumulate over several months. To remove this accumulated error, the employment estimates are adjusted to new benchmarks, usually annually. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments. Employment estimates are currently projected from March 1974 benchmark levels. Measures of reliability for employment estimates are provided in the "Explanatory Notes" of *Employment and Earnings*, as are the actual amounts of revisions due to benchmark adjustments (tables G-L).

Unemployment rate by alternative seasonal adjustment methods

Month	Unad-justed rate	Official Ad-justed Rate	Alternative age-sex procedures					Other aggregations (all multiplicative)				Direct adjust-ment	Compo-site	Range (cols. 2-13)
			All multipli-cative	All addi-tive	Year-ahead	Con-current	Stable 1967-73	Dura-tion	Rea-sons	Total	Resid-ual			
1976	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
January	8.8	7.8	7.8	8.0	7.8	7.8	8.1	8.0	7.8	7.8	8.2	7.9	7.9	0.4
February	8.7	7.6	7.6	7.8	7.6	7.6	7.7	7.5	7.5	7.6	7.7	7.6	7.6	.3
March	8.1	7.5	7.5	7.6	7.5	7.5	7.7	7.3	7.4	7.5	7.6	7.5	7.5	.4
April	7.4	7.5	7.5	7.5	7.4	7.4	7.6	7.4	7.5	7.5	7.4	7.5	7.5	.2
May	6.7	7.3	7.4	7.2	7.2	7.2	7.5	7.2	7.4	7.5	7.2	7.5	7.3	.3
June	8.0	7.6	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.3	7.4	7.3	7.5	.3
July	7.8	7.8	7.8	7.7	7.8	7.8	7.7	7.6	7.8	7.7	7.7	7.7	7.7	.2
August	7.6	7.9	7.9	7.8	7.9	7.9	7.7	8.0	8.0	7.9	7.8	8.0	7.9	.3
September	7.4	7.8	7.8	7.7	7.8	7.8	7.6	8.0	7.9	7.8	7.8	7.8	7.8	.4
October	7.2	7.9	8.0	7.8	7.9	7.9	7.7	8.0	7.9	8.0	7.9	7.9	7.9	.3
November	7.4	8.0	8.0	7.8	8.1	8.0	7.8	8.1	8.0	8.0	7.8	8.0	8.0	.3
December	7.4	7.8	7.9	7.8	7.9	7.8	7.9	7.9	7.8	7.8	7.8	7.9	7.8	.1

HOUSEHOLD DATA

HOUSEHOLD DATA

Table A-1. Employment status of the noninstitutional population

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Sept. 1976	Aug. 1977	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
TOTAL									
Total noninstitutional population ¹	156,595	158,899	159,114	156,595	158,228	158,456	158,682	158,899	159,114
Armed Forces ¹	2,145	2,137	2,131	2,145	2,128	2,129	2,135	2,137	2,131
Civilian noninstitutional population ¹	154,451	156,761	156,982	154,451	156,101	156,327	156,547	156,761	156,982
Civilian labor force	94,975	99,073	97,684	95,242	97,158	97,641	97,305	97,697	97,868
Participation rate	61.5	63.2	62.2	61.7	62.2	62.5	62.2	62.3	62.3
Employed	87,949	92,315	91,247	87,794	90,408	90,679	90,561	90,771	91,095
Employment-population ratio ²	56.2	58.1	57.3	56.1	57.1	57.2	57.1	57.1	57.3
Agriculture	3,396	3,682	3,326	3,278	3,386	3,338	3,213	3,252	3,215
Nonagricultural industries	84,553	88,633	87,921	84,516	87,022	87,341	87,348	87,519	87,880
Unemployed	7,026	6,757	6,437	7,448	6,750	6,962	6,744	6,926	6,773
Unemployment rate	7.4	6.8	6.6	7.8	6.9	7.1	6.9	7.1	6.9
Not in labor force	59,476	57,689	59,299	59,209	58,943	58,686	59,242	59,064	59,114
Men, 20 years and over									
Total noninstitutional population ¹	66,491	67,642	67,745	66,491	67,324	67,431	67,537	67,642	67,745
Civilian noninstitutional population ¹	64,796	65,947	66,056	64,796	65,641	65,743	65,845	65,947	66,056
Civilian labor force	51,810	52,978	52,528	51,851	52,282	52,497	52,494	52,588	52,457
Participation rate	80.0	80.3	79.5	80.0	79.6	79.9	79.7	79.7	79.4
Employed	48,172	50,513	50,374	48,701	49,531	49,859	49,794	49,854	49,884
Employment-population ratio ²	74.0	74.7	74.4	73.2	73.6	73.9	73.7	73.7	73.6
Agriculture	2,405	2,492	2,406	2,341	2,373	2,372	2,305	2,355	2,343
Nonagricultural industries	46,766	48,021	47,969	46,360	47,158	47,487	47,489	47,499	47,541
Unemployed	2,638	2,466	2,154	3,150	2,751	2,638	2,700	2,734	2,573
Unemployment rate	5.1	4.7	4.1	6.1	5.3	5.0	5.1	5.2	4.9
Not in labor force	12,987	12,969	13,527	12,945	13,359	13,246	13,351	13,359	13,599
Women, 20 years and over									
Total noninstitutional population ¹	73,286	74,429	74,543	73,286	74,081	74,198	74,315	74,429	74,543
Civilian noninstitutional population ¹	73,196	74,332	74,444	73,196	73,987	74,101	74,217	74,332	74,444
Civilian labor force	34,728	35,188	36,382	34,540	35,634	35,675	35,667	35,723	36,201
Participation rate	47.4	47.3	48.9	47.2	48.2	48.1	48.1	48.1	48.6
Employed	31,943	32,551	33,709	31,906	33,288	33,116	33,212	33,172	33,672
Employment-population ratio ²	43.6	43.7	45.2	43.5	44.9	44.6	44.7	44.6	45.2
Agriculture	560	612	529	520	597	564	525	515	492
Nonagricultural industries	31,383	31,939	33,180	31,386	32,691	32,552	32,687	32,657	33,180
Unemployed	2,785	2,638	2,673	2,634	2,346	2,559	2,455	2,551	2,529
Unemployment rate	8.0	7.5	7.3	7.6	6.6	7.2	6.9	7.1	7.0
Not in labor force	38,468	39,143	38,062	38,656	38,353	38,426	38,550	38,609	38,243
Both sexes, 16-19 years									
Total noninstitutional population ¹	16,819	16,828	16,825	16,819	16,823	16,827	16,830	16,828	16,825
Civilian noninstitutional population ¹	16,458	16,483	16,483	16,458	16,473	16,483	16,485	16,483	16,483
Civilian labor force	8,438	10,906	8,773	8,851	9,242	9,469	9,144	9,386	9,210
Participation rate	51.3	66.2	53.2	53.8	56.1	57.4	55.5	56.9	55.9
Employed	6,834	9,252	7,163	7,187	7,589	7,704	7,555	7,745	7,539
Employment-population ratio ²	40.6	55.0	42.6	42.7	45.1	45.8	44.9	46.0	44.8
Agriculture	430	579	391	417	416	402	383	382	380
Nonagricultural industries	6,404	8,673	6,772	6,770	7,173	7,302	7,172	7,363	7,159
Unemployed	1,603	1,654	1,610	1,664	1,653	1,765	1,589	1,641	1,671
Unemployment rate	19.0	15.2	18.3	18.8	17.9	18.6	17.4	17.5	18.1
Not in labor force	8,021	5,570	7,710	7,607	7,231	7,014	7,341	7,097	7,273
WHITE									
Total noninstitutional population ¹	137,782	139,620	139,789	137,782	139,089	139,270	139,450	139,620	139,789
Civilian noninstitutional population ¹	136,005	137,865	138,046	136,005	137,337	137,522	137,698	137,865	138,046
Civilian labor force	84,119	87,407	86,382	84,313	85,937	86,268	85,968	86,285	86,471
Participation rate	61.8	63.4	62.6	62.0	62.6	62.7	62.4	62.6	62.6
Employed	78,452	82,278	81,394	78,276	80,603	80,813	80,752	81,010	81,214
Employment-population ratio ²	56.9	58.9	58.2	56.8	58.0	58.0	57.9	58.0	58.1
Unemployed	5,667	5,128	4,988	6,037	5,334	5,455	5,216	5,275	5,257
Unemployment rate	6.7	5.9	5.8	7.2	6.2	6.3	6.1	6.1	6.1
Not in labor force	51,886	50,459	51,665	51,692	51,400	51,254	51,730	51,580	51,575
BLACK AND OTHER									
Total noninstitutional population ¹	18,813	19,279	19,325	18,813	19,140	19,186	19,232	19,279	19,325
Civilian noninstitutional population ¹	18,445	18,896	18,936	18,445	18,763	18,805	18,850	18,826	18,936
Civilian labor force	10,856	11,666	11,302	10,906	11,171	11,325	11,236	11,402	11,359
Participation rate	58.9	61.7	59.7	59.1	59.5	60.2	59.6	60.3	60.0
Employed	9,497	10,037	9,853	9,508	9,730	9,833	9,758	9,744	9,868
Employment-population ratio ²	50.5	52.1	51.0	50.5	50.8	51.3	50.7	50.5	51.1
Unemployed	1,359	1,629	1,449	1,398	1,441	1,492	1,478	1,658	1,491
Unemployment rate	12.5	14.0	12.8	12.8	12.9	13.2	13.2	14.5	13.1
Not in labor force	7,589	7,230	7,634	7,539	7,592	7,480	7,614	7,494	7,577

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

² Civilian employment as a percent of the total noninstitutional population (including Armed Forces).

HOUSEHOLD DATA

HOUSEHOLD DATA

Table A-2. Major unemployment indicators, seasonally adjusted

Selected categories	Number of unemployed persons (In thousands)		Unemployment rates					
	Sept. 1976	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
CHARACTERISTICS								
Total, 16 years and over	7,448	6,773	7.8	6.9	7.1	6.9	7.1	6.9
Men, 20 years and over	3,150	2,573	6.1	5.3	5.0	5.1	5.2	4.9
Women, 20 years and over	2,634	2,529	7.6	6.6	7.2	6.9	7.1	7.0
Both sexes, 16-19 years	1,664	1,671	18.8	17.9	18.6	17.4	17.5	18.1
White, total	6,037	5,257	7.2	6.2	6.3	6.1	6.1	6.1
Men, 20 years and over	2,645	2,015	5.7	4.7	4.5	4.6	4.5	4.3
Women, 20 years and over	2,071	1,935	6.9	5.9	6.4	6.2	6.3	6.2
Both sexes, 16-19 years	1,321	1,307	16.6	15.7	16.1	14.3	14.7	15.9
Black and other, total	1,398	1,491	12.8	12.9	13.2	13.2	14.5	13.1
Men, 20 years and over	524	565	9.8	9.9	9.6	10.1	11.7	10.4
Women, 20 years and over	531	562	11.4	11.8	11.9	10.9	12.2	11.3
Both sexes, 16-19 years	343	364	38.3	38.7	39.4	40.7	40.4	37.4
Married men, spouse present	1,803	1,344	4.5	3.6	3.4	3.4	3.5	3.4
Married women, spouse present	1,608	1,452	7.3	6.3	6.8	6.6	6.6	6.4
Women who head families	443	470	10.7	8.4	9.4	9.3	10.5	10.4
Full-time workers	6,098	5,407	7.5	6.5	6.5	6.5	6.8	6.5
Part-time workers	1,377	1,391	9.6	9.9	10.7	9.2	8.9	9.5
Unemployed 15 weeks and over ¹	2,311	1,866	2.4	1.9	1.8	1.9	1.9	1.9
Labor force time lost ²	--	--	8.4	7.5	7.5	7.4	7.7	7.4
OCCUPATION³								
White-collar workers	2,100	2,014	4.6	4.3	4.2	4.0	4.2	4.2
Professional and technical	426	420	3.0	2.9	3.0	2.8	3.0	3.0
Managers and administrators, except farm	317	246	3.2	2.8	2.7	2.6	2.5	2.5
Sales workers	328	309	5.6	5.5	5.2	5.4	5.3	5.1
Clerical workers	1,029	1,039	6.2	5.7	5.7	5.4	5.8	6.0
Blue-collar workers	3,138	2,599	9.8	7.9	7.7	8.2	8.4	7.9
Craft and kindred workers	846	651	6.9	5.6	5.6	5.6	5.5	5.2
Operatives, except transport	1,274	1,165	11.5	8.9	9.4	10.1	10.0	10.2
Transport equipment operatives	284	215	8.0	6.7	5.7	7.5	7.6	5.7
Nonfarm laborers	734	568	14.6	12.5	10.9	10.7	12.6	11.1
Service workers	1,159	1,070	8.7	9.0	8.2	7.7	8.4	7.8
Farm workers	115	132	4.0	4.4	4.8	3.8	3.7	4.7
INDUSTRY³								
Nonagricultural private wage and salary workers ⁴	5,567	4,863	8.1	7.1	6.9	6.8	7.0	6.9
Construction	694	455	15.7	13.0	12.6	12.1	11.5	10.4
Manufacturing	1,721	1,578	8.1	6.2	6.3	6.7	7.0	7.2
Durable goods	960	848	7.6	5.7	5.6	6.1	6.5	6.6
Nondurable goods	761	730	8.9	7.0	7.3	7.6	7.7	8.2
Transportation and public utilities	264	254	5.4	4.3	4.1	4.7	4.9	5.0
Wholesale and retail trade	1,580	1,377	8.9	8.3	7.9	7.7	8.3	7.6
Finance and service industries	1,264	1,174	6.4	6.6	6.0	5.7	5.6	5.7
Government workers	622	634	3.9	4.1	4.2	3.9	4.4	4.0
Agricultural wage and salary workers	165	157	11.2	11.5	11.0	9.7	9.3	10.4
VETERAN STATUS								
Male Vietnam-era veterans: ⁵								
20 to 34 years	569	502	8.9	7.5	7.6	7.9	7.8	7.7
20 to 24 years	180	188	19.2	13.6	18.1	16.3	17.4	20.1
25 to 29 years	242	173	7.9	7.8	7.1	7.2	6.3	6.1
30 to 34 years	147	141	6.2	5.1	4.5	5.8	6.0	5.1
Male nonveterans:								
20 to 34 years	1,250	1,119	8.2	7.2	6.9	7.6	7.9	7.0
20 to 24 years	705	630	10.5	10.2	8.9	9.9	10.5	9.1
25 to 29 years	348	296	7.2	5.4	6.3	6.8	6.6	5.9
30 to 34 years	197	193	5.4	4.1	4.0	4.6	4.9	4.8

¹ Unemployment rate calculated as a percent of civilian labor force.² Aggregate hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force hours.³ Unemployment by occupation includes all experienced unemployed persons, whereas that

by industry covers only unemployed wage and salary workers.

⁴ Includes mining, not shown separately.⁵ Vietnam-era veterans are those who served between August 5, 1964, and May 7, 1975.

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Table A-3. Selected employment indicators

[In thousands]

Selected categories	Not seasonally adjusted		Seasonally adjusted					
	Sept. 1976	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
CHARACTERISTICS								
Total employed, 16 years and over	87,949	91,247	87,794	90,408	90,679	90,561	90,771	91,095
Men	52,834	54,256	52,546	53,722	53,987	53,900	53,958	53,966
Women	35,115	36,991	35,248	36,686	36,692	36,661	36,813	37,129
Married men, spouse present	38,562	38,780	38,140	38,509	38,582	38,434	38,316	38,358
Married women, spouse present	20,659	21,423	20,470	20,962	20,831	20,846	20,814	21,232
OCCUPATION								
White-collar workers	43,950	45,361	44,023	44,766	44,798	45,105	45,114	45,437
Professional and technical	13,673	13,873	13,581	13,483	13,638	13,863	13,720	13,777
Managers and administrators, except farm	9,532	9,865	9,446	9,400	9,570	9,583	9,688	9,777
Sales workers	5,523	5,714	5,555	5,695	5,673	5,716	5,722	5,748
Clerical workers	15,223	15,909	15,441	16,188	15,917	15,943	15,984	16,135
Blue-collar workers	29,101	30,656	28,745	30,423	30,432	30,063	30,231	30,282
Craft and kindred workers	11,405	12,046	11,340	11,894	11,891	11,887	11,931	11,974
Operatives, except transport	10,018	10,415	9,820	10,530	10,378	10,270	10,242	10,211
Transport equipment operatives	3,296	3,562	3,275	3,552	3,551	3,397	3,462	3,541
Nonfarm laborers	4,382	4,633	4,310	4,447	4,612	4,509	4,596	4,556
Service workers	11,998	12,431	12,165	12,372	12,697	12,460	12,591	12,604
Farm workers	2,900	2,798	2,772	2,904	2,838	2,743	2,778	2,676
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,399	1,443	1,309	1,325	1,381	1,271	1,331	1,350
Self-employed workers	1,638	1,596	1,608	1,655	1,595	1,561	1,604	1,566
Unpaid family workers	359	287	344	393	378	363	315	275
Nonagricultural industries:								
Wage and salary workers	78,435	81,364	78,440	80,429	80,814	80,738	80,951	81,341
Government	15,004	15,158	15,143	15,075	14,961	15,131	15,282	15,296
Private industries	63,432	66,205	63,297	65,354	65,853	65,607	65,669	66,045
Private households	1,397	1,406	1,400	1,305	1,388	1,445	1,401	1,409
Other industries	62,035	64,779	61,897	64,049	64,465	64,162	64,268	64,636
Self-employed workers	5,692	6,060	5,701	6,050	5,997	5,896	6,151	6,072
Unpaid family workers	427	497	433	550	518	523	469	504
PERSONS AT WORK ¹								
Nonagricultural industries	80,390	83,472	79,796	81,771	81,618	82,572	82,613	82,799
Full-time schedules	66,040	68,857	64,965	67,219	67,126	67,867	67,755	67,706
Part time for economic reasons	3,083	3,025	3,376	3,290	3,368	3,371	3,199	3,315
Usually work full time	1,277	1,155	1,378	1,314	1,341	1,440	1,196	1,246
Usually work part time	1,806	1,870	1,998	1,976	2,027	1,931	2,003	2,069
Part time for noneconomic reasons	11,267	11,590	11,455	11,262	11,124	11,334	11,659	11,778

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

Table A-4. Duration of unemployment

[Numbers in thousands]

Weeks of unemployment	Not seasonally adjusted		Seasonally adjusted					
	Sept. 1976	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
DURATION								
Less than 5 weeks	3,170	3,101	2,852	2,782	3,058	2,830	2,870	2,789
5 to 14 weeks	1,945	1,793	2,426	2,093	2,023	1,969	2,338	2,236
15 weeks and over	1,911	1,543	2,311	1,836	1,737	1,834	1,808	1,866
15 to 26 weeks	814	691	1,118	800	798	917	966	940
27 weeks and over	1,097	852	1,193	1,036	939	917	842	926
Average (mean) duration, in weeks	14.2	13.1	15.4	14.9	14.4	14.1	13.5	14.2
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	45.1	48.2	37.6	41.5	44.9	42.7	40.9	40.5
5 to 14 weeks	27.7	27.9	32.0	31.2	29.7	29.7	33.3	32.4
15 weeks and over	27.2	24.0	30.5	27.4	25.5	27.6	25.8	27.1
15 to 26 weeks	11.6	10.7	14.7	11.9	11.7	13.8	13.8	13.6
27 weeks and over	15.6	13.2	15.7	15.4	13.8	13.8	12.0	13.4

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Table A-5. Reasons for unemployment

[Numbers in thousands]

Reasons	Not seasonally adjusted		Seasonally adjusted					
	Sept. 1976	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
NUMBER OF UNEMPLOYED								
Lost last job	2,986	2,518	3,727	3,038	2,927	3,075	3,289	3,144
On layoff	783	595	1,222	749	827	919	1,018	928
Other job losers	2,204	1,923	2,505	2,289	2,100	2,156	2,271	2,216
Left last job	1,071	1,001	934	944	954	841	910	873
Reentered labor force	2,071	2,010	1,912	1,993	1,889	1,822	1,857	1,856
Seeking first job	899	908	926	893	1,077	974	1,000	935
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.5	39.1	49.7	44.2	42.7	45.8	46.6	46.2
On layoff	11.1	9.2	16.3	10.9	12.1	13.7	14.4	13.6
Other job losers	31.4	29.9	33.4	33.3	30.7	32.1	32.2	32.5
Job leavers	15.2	15.5	12.5	13.7	13.9	12.5	12.0	12.8
Reentrants	29.5	31.2	25.5	29.0	27.6	27.1	26.3	27.3
New entrants	12.8	14.1	12.3	13.0	15.7	14.5	14.2	13.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	3.1	2.6	3.9	3.1	3.0	3.2	3.4	3.2
Job leavers	1.1	1.0	1.0	1.0	1.0	.9	.9	.9
Reentrants	2.2	2.1	2.0	2.1	1.9	1.9	1.9	1.9
New entrants9	.9	1.0	.9	1.1	1.0	1.0	1.0

Table A-6. Unemployment by sex and age, seasonally adjusted

Sex and age	Number of unemployed persons (in thousands)		Unemployment rates					
	Sept. 1976	Sept. 1977	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977	Sept. 1977
Total, 16 years and over	7,448	6,773	7.8	6.9	7.1	6.9	7.1	6.9
16 to 19 years	1,664	1,671	18.8	17.9	18.6	17.4	17.5	18.1
16 to 17 years	758	773	20.6	20.4	21.3	19.9	20.7	19.8
18 to 19 years	913	905	17.5	16.3	16.5	15.3	15.6	16.9
20 to 24 years	1,639	1,559	11.7	10.7	10.5	10.6	11.1	10.7
25 years and over	4,180	3,561	5.8	4.8	5.0	5.0	5.0	4.8
25 to 54 years	3,448	2,919	5.9	5.1	5.3	5.2	5.3	4.9
55 years and over	688	599	4.8	4.0	3.8	3.9	3.9	4.2
Men, 16 years and over	4,060	3,439	7.2	6.3	6.2	6.2	6.3	6.0
16 to 19 years	910	866	19.1	17.0	18.6	16.9	17.6	17.5
16 to 17 years	429	410	21.3	18.7	22.7	20.2	21.7	19.2
18 to 19 years	481	456	17.3	16.0	15.5	14.7	14.8	16.0
20 to 24 years	899	828	11.7	10.6	9.9	10.6	11.3	10.5
25 years and over	2,282	1,759	5.2	4.2	4.1	4.2	4.2	3.9
25 to 54 years	1,830	1,370	5.2	4.4	4.3	4.3	4.4	3.8
55 years and over	410	349	4.6	3.9	3.3	3.6	3.5	3.9
Women, 16 years and over	3,388	3,334	8.8	7.9	8.4	8.0	8.3	8.2
16 to 19 years	754	805	18.4	19.0	18.7	17.9	17.4	18.9
16 to 17 years	329	363	19.8	22.5	19.7	19.5	19.4	20.5
18 to 19 years	432	449	17.6	16.6	17.5	16.0	16.4	17.9
20 to 24 years	740	731	11.8	10.9	11.0	10.5	10.8	10.9
25 years and over	1,898	1,802	6.7	5.7	6.3	6.2	6.2	6.1
25 to 54 years	1,618	1,549	7.1	6.1	6.7	6.4	6.6	6.4
55 years and over	278	250	5.2	4.3	4.6	4.4	4.6	4.5

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Table A-7. Range of unemployment measures based on varying definitions of unemployment and the labor force, seasonally adjusted

[Percent]

Measures	Quarterly averages					Monthly data		
	1976		1977			1977		
	III	IV	I	II	III	July	Aug.	Sept.
U-1—Persons unemployed 15 weeks or longer as a percent of the civilian labor force	2.4	2.6	2.2	1.8	1.9	1.9	1.9	1.9
U-2—Job losers as a percent of the civilian labor force	3.9	3.9	3.4	3.1	3.2	3.2	3.4	3.2
U-3—Unemployed household heads as a percent of the household head labor force	5.3	5.3	4.8	4.4	4.5	4.3	4.6	4.5
U-4—Unemployed full-time jobseekers as a percent of the full-time labor force	7.4	7.5	6.8	6.5	6.6	6.5	6.8	6.5
U-5—Total unemployed as a percent of the civilian labor force (official measure)	7.8	7.9	7.4	7.0	7.0	6.9	7.1	6.9
U-6—Total full-time jobseekers plus ½ part-time jobseekers plus ½ total on part time for economic reasons as a percent of the civilian labor force less ½ of the part-time labor force	9.5	9.7	9.0	8.6	8.6	8.6	8.7	8.6
U-7—Total full-time jobseekers plus ½ part-time jobseekers plus ½ total on part time for economic reasons plus discouraged workers as a percent of the civilian labor force plus discouraged workers less ½ of the part-time labor force	10.3	10.7	9.9	9.7	9.7	N.A.	N.A.	N.A.

N.A.= not available.

Table A-8. Persons not in the labor force by selected characteristics, quarterly averages

[In thousands]

Characteristics	Not seasonally adjusted		Seasonally adjusted					
	III 1976	III 1977	1976			1977		
			II	III	IV	I	II	III
Total not in labor force	57,941	58,074	59,032	58,963	59,132	59,379	58,908	59,141
Do not want a job now	53,865	52,625	53,938	54,715	53,991	53,792	53,190	53,429
Want a job now	4,076	5,448	5,426	4,339	5,436	5,663	5,762	5,909
Discouraged workers	799	1,096	903	827	992	929	1,061	1,104
Job-market factors ¹	544	734	617	568	762	644	726	746
Personal factors ²	254	363	286	259	230	285	335	358
Men	272	385	308	281	341	283	316	381
Women	526	711	595	546	651	647	745	723
White	574	736	694	601	755	665	741	746
Black and other	225	360	204	226	250	280	287	356

¹ Job market factors include "could not find job" and "thinks no job available."² Personal factors include "employers think too young or old," "lacks education or training," and "other personal handicap."

ESTABLISHMENT DATA

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Table B-1. Employees on nonagricultural payrolls, by industry

(In thousands)

Industry	Not seasonally adjusted				Seasonally adjusted					
	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
TOTAL	80,277	82,167	82,374	83,095	79,918	81,921	82,121	82,366	82,459	82,750
GOODS-PRODUCING	24,027	24,551	24,771	24,908	23,463	24,306	24,353	24,399	24,289	24,352
MINING	804	848	840	852	798	845	855	834	825	846
CONTRACT CONSTRUCTION	3,815	4,148	4,199	4,160	3,565	3,861	3,876	3,917	3,884	3,888
MANUFACTURING	19,408	19,555	19,732	19,896	19,100	19,600	19,622	19,648	19,580	19,618
<i>Production workers</i>	14,040	14,024	14,187	14,353	13,749	14,145	14,144	14,139	14,059	14,094
DURABLE GOODS	11,278	11,485	11,508	11,668	11,146	11,469	11,491	11,530	11,524	11,566
<i>Production workers</i>	8,092	8,202	8,218	8,375	7,975	8,233	8,240	8,261	8,246	8,284
Ordnance and accessories	156.9	156.3	156.7	155.7	156	157	157	156	156	155
Lumber and wood products	626.9	659.2	664.7	664.0	613	638	637	639	639	650
Furniture and fixtures	499.0	501.1	511.6	514.1	495	509	510	513	505	510
Stone, clay, and glass products	643.7	672.0	672.9	673.5	630	654	659	660	655	660
Primary metal industries	1,220.0	1,211.3	1,204.7	1,213.8	1,216	1,217	1,218	1,209	1,205	1,210
Fabricated metal products	1,421.3	1,444.8	1,462.7	1,483.4	1,404	1,447	1,452	1,458	1,460	1,466
Machinery, except electrical	2,110.4	2,182.0	2,190.0	2,216.0	2,115	2,165	2,168	2,202	2,212	2,220
Electrical equipment	1,866.7	1,931.2	1,946.1	1,971.0	1,848	1,931	1,933	1,941	1,952	1,951
Transportation equipment	1,782.1	1,794.3	1,746.9	1,824.2	1,737	1,802	1,809	1,810	1,803	1,810
Instruments and related products ..	513.7	525.3	526.1	524.8	512	526	528	527	523	523
Miscellaneous manufacturing	437.6	407.8	425.9	427.8	420	423	420	415	414	411
NONDURABLE GOODS	8,130	8,070	8,224	8,228	7,954	8,131	8,131	8,118	8,056	8,052
<i>Production workers</i>	5,948	5,822	5,969	5,978	5,774	5,912	5,904	5,878	5,813	5,810
Food and kindred products	1,837.1	1,757.2	1,828.0	1,825.8	1,711	1,735	1,737	1,726	1,708	1,700
Tobacco manufactures	84.8	65.8	74.1	74.7	76	71	72	72	68	67
Textile mill products	973.0	972.8	987.3	990.9	971	988	987	992	981	989
Apparel and other textile products ..	1,298.9	1,248.9	1,288.2	1,294.1	1,281	1,298	1,306	1,293	1,281	1,276
Paper and allied products	684.8	703.8	710.3	706.5	681	703	703	705	704	702
Printing and publishing	1,084.9	1,109.2	1,111.9	1,117.7	1,086	1,109	1,111	1,115	1,115	1,119
Chemicals and allied products	1,040.6	1,069.4	1,070.8	1,063.6	1,035	1,063	1,060	1,064	1,062	1,058
Petroleum and coal products	205.2	215.8	215.0	212.2	202	210	210	210	209	209
Rubber and plastics products, nec..	652.4	675.2	677.2	682.9	643	685	680	684	672	673
Leather and leather products	268.1	251.7	261.1	259.2	268	269	265	257	256	259
SERVICE-PRODUCING	56,250	57,616	57,603	58,187	56,455	57,615	57,768	57,967	58,170	58,398
TRANSPORTATION AND PUBLIC UTILITIES	4,560	4,604	4,610	4,622	4,528	4,586	4,579	4,572	4,583	4,590
WHOLESALE AND RETAIL TRADE ..	17,870	18,306	18,345	18,459	17,839	18,235	18,247	18,294	18,356	18,427
WHOLESALE TRADE	4,300	4,420	4,428	4,422	4,283	4,384	4,383	4,394	4,397	4,404
RETAIL TRADE	13,570	13,886	13,917	14,037	13,556	13,851	13,864	13,900	13,959	14,023
FINANCE, INSURANCE, AND REAL ESTATE	4,347	4,565	4,579	4,552	4,338	4,480	4,489	4,506	4,520	4,543
SERVICES	14,813	15,541	15,585	15,550	14,798	15,197	15,245	15,372	15,461	15,534
GOVERNMENT	14,660	14,600	14,484	15,004	14,952	15,117	15,208	15,223	15,250	15,304
FEDERAL	2,717	2,773	2,757	2,726	2,728	2,723	2,735	2,721	2,735	2,737
STATE AND LOCAL	11,943	11,827	11,727	12,278	12,224	12,394	12,473	12,502	12,515	12,567

p=preliminary.

ESTABLISHMENT DATA

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Table B-2. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry

Industry	Not seasonally adjusted				Seasonally adjusted					
	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Sept. 1976	May 1977	June 1977	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
TOTAL PRIVATE	36.2	36.5	36.4	36.1	36.0	36.3	36.2	36.1	36.0	35.9
MINING	43.8	44.9	44.3	46.0	43.5	44.0	44.0	44.8	44.3	45.7
CONTRACT CONSTRUCTION	36.8	37.8	37.4	37.0	35.9	37.4	36.8	36.8	36.3	36.1
MANUFACTURING	40.1	40.1	40.2	40.4	39.7	40.4	40.5	40.3	40.2	40.0
Overtime hours	3.4	3.3	3.5	3.7	3.0	3.4	3.4	3.4	3.3	3.3
DURABLE GOODS	40.6	40.6	40.8	41.0	40.2	41.1	41.2	41.0	41.0	40.7
Overtime hours	3.4	3.5	3.6	3.9	3.0	3.6	3.7	3.6	3.5	3.5
Ordnance and accessories	40.2	40.0	40.2	40.1	40.1	41.1	40.9	40.4	40.6	40.0
Lumber and wood products	40.2	40.2	40.2	39.7	39.8	40.0	39.9	40.4	39.8	39.3
Furniture and fixtures	38.6	38.5	39.4	39.7	38.0	38.7	38.8	38.9	38.9	39.1
Stone, clay, and glass products	41.4	41.6	41.9	41.1	40.9	41.7	41.7	41.4	41.5	40.7
Primary metal industries	40.8	41.0	40.7	40.7	40.3	41.6	41.6	40.9	41.2	40.2
Fabricated metal products	40.9	40.6	41.0	41.1	40.6	41.0	41.3	41.2	41.0	40.8
Machinery, except electrical	41.0	41.1	41.4	42.1	40.8	41.6	41.9	41.9	41.8	41.9
Electrical equipment	40.0	39.6	40.3	40.6	39.7	40.1	40.4	40.2	40.4	40.3
Transportation equipment	41.5	42.2	41.5	42.2	41.1	42.7	42.9	42.2	42.6	41.8
Instruments and related products	40.2	39.9	40.1	40.6	39.9	40.4	40.7	40.4	40.3	40.3
Miscellaneous manufacturing	38.4	38.3	38.9	39.2	38.2	39.0	39.2	38.7	38.9	39.0
NONDURABLE GOODS	39.4	39.3	39.4	39.5	39.0	39.5	39.6	39.3	39.1	39.0
Overtime hours	3.3	3.1	3.2	3.4	2.9	3.1	3.1	3.0	3.0	3.0
Food and kindred products	40.9	40.1	40.1	39.9	40.2	39.9	40.0	39.7	39.5	39.2
Tobacco manufactures	37.8	36.2	38.3	39.0	37.1	38.6	39.0	37.4	37.8	38.3
Textile mill products	39.4	40.1	40.3	40.4	39.0	40.7	40.5	40.4	40.0	40.0
Apparel and other textile products	35.2	35.4	35.6	35.4	34.9	35.7	35.9	35.3	35.2	35.1
Paper and allied products	42.6	42.7	42.6	43.0	42.2	43.0	43.1	42.7	42.3	42.6
Printing and publishing	37.8	37.7	37.8	38.1	37.4	37.6	37.7	37.8	37.6	37.7
Chemicals and allied products	42.0	41.6	41.6	41.7	41.9	41.7	41.9	41.7	41.8	41.6
Petroleum and coal products	42.8	43.3	42.5	43.0	42.2	42.6	43.0	42.9	42.8	42.4
Rubber and plastics products, nec	40.9	40.2	40.6	40.9	40.5	41.3	41.1	40.6	40.5	40.5
Leather and leather products	36.3	37.2	37.4	37.1	36.5	37.1	37.2	36.8	37.2	37.3
TRANSPORTATION AND PUBLIC UTILITIES	40.1	40.3	40.2	40.0	39.9	40.2	40.1	39.9	39.8	39.8
WHOLESALE AND RETAIL TRADE	33.6	34.1	34.0	33.2	33.6	33.4	33.3	33.3	33.2	33.2
WHOLESALE TRADE	38.9	39.0	39.0	38.8	38.8	38.7	38.8	38.8	38.9	38.7
RETAIL TRADE	32.1	32.7	32.6	31.6	32.1	31.9	31.7	31.7	31.6	31.6
FINANCE, INSURANCE, AND REAL ESTATE	36.6	36.7	36.7	36.6	36.7	36.7	36.6	36.6	36.6	36.7
SERVICES	33.5	33.8	33.7	33.3	33.5	33.5	33.3	33.2	33.2	33.3

¹ Data relate to production workers in mining and manufacturing; to construction workers in contract 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 employment on private nonagricultural payrolls.

p=preliminary.

ESTABLISHMENT DATA

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Table B-3. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry

Industry	Average hourly earnings				Average weekly earnings			
	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
TOTAL PRIVATE	\$4.96	\$5.25	\$5.26	\$5.34	\$179.55	\$191.63	\$191.46	\$192.77
<i>Seasonally adjusted</i>	4.92	5.27	5.28	5.29	177.12	190.25	190.08	189.91
MINING	6.60	6.90	6.87	7.04	289.08	309.81	304.34	323.84
CONTRACT CONSTRUCTION	7.81	8.00	8.05	8.19	287.41	302.40	301.07	303.03
MANUFACTURING	5.31	5.65	5.65	5.73	212.93	226.57	227.13	231.49
DURABLE GOODS	5.66	6.03	6.02	6.11	229.80	244.82	245.62	250.51
Ordnance and accessories	5.85	6.24	6.33	6.36	235.17	249.60	254.47	255.04
Lumber and wood products	4.87	5.07	5.13	5.18	195.77	203.81	206.23	205.65
Furniture and fixtures	4.05	4.29	4.35	4.40	156.33	165.17	171.39	174.68
Stone, clay, and glass products	5.43	5.83	5.83	5.85	224.80	242.53	244.28	240.44
Primary metal industries	6.95	7.52	7.55	7.62	283.56	308.32	307.29	310.13
Fabricated metal products	5.54	5.84	5.86	5.93	226.39	237.10	240.26	243.72
Machinery, except electrical	5.86	6.17	6.18	6.28	240.26	253.39	255.85	264.39
Electrical equipment	5.02	5.34	5.39	5.42	200.80	211.46	217.22	220.05
Transportation equipment	6.67	7.15	7.11	7.28	276.81	301.73	295.07	307.22
Instruments and related products	4.93	5.20	5.21	5.27	198.19	207.48	208.92	213.96
Miscellaneous manufacturing	4.02	4.33	4.32	4.36	154.37	165.84	168.05	170.91
NONDURABLE GOODS	4.80	5.10	5.12	5.18	189.12	200.43	201.73	204.61
Food and kindred products	5.02	5.32	5.37	5.43	205.32	213.33	215.34	216.66
Tobacco manufactures	4.65	5.68	5.43	5.26	175.77	205.62	207.97	205.14
Textile mill products	3.78	4.02	4.05	4.07	148.93	161.20	163.22	164.43
Apparel and other textile products	3.49	3.59	3.62	3.69	122.85	127.09	128.87	130.63
Paper and allied products	5.58	5.97	6.00	6.05	237.71	254.92	255.60	260.15
Printing and publishing	5.79	6.09	6.14	6.20	218.86	229.59	232.09	236.22
Chemicals and allied products	6.04	6.44	6.45	6.55	253.68	267.90	268.32	273.14
Petroleum and coal products	7.22	7.78	7.74	7.80	309.02	336.87	328.95	335.40
Rubber and plastics products, nec	4.85	5.12	5.14	5.21	198.37	205.82	208.68	213.09
Leather and leather products	3.48	3.60	3.63	3.67	126.32	133.92	135.76	136.16
TRANSPORTATION AND PUBLIC UTILITIES	6.61	6.97	6.99	7.07	265.06	280.89	281.00	282.80
WHOLESALE AND RETAIL TRADE	4.04	4.28	4.27	4.33	135.74	145.95	145.18	143.76
WHOLESALE TRADE	5.26	5.56	5.56	5.63	204.61	216.84	216.84	218.44
RETAIL TRADE	3.61	3.84	3.82	3.87	115.38	125.57	124.53	122.29
FINANCE, INSURANCE, AND REAL ESTATE	4.39	4.59	4.60	4.62	160.67	168.45	168.82	169.09
SERVICES	4.42	4.68	4.68	4.77	148.07	158.18	157.72	158.84

¹ See footnote 1, table B-2.

p=preliminary.

ESTABLISHMENT DATA

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Table B-4. Hourly earnings index for production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division, seasonally adjusted

[1967=100]

Industry	Sept. 1976	Apr. 1977	May 1977	June 1977	July 1977	Aug.p 1977	Sept.p 1977	Percent change from	
								Sept. 1976- Sept. 1977	Aug. 1977- Sept. 1977
TOTAL PRIVATE NONFARM:									
Current dollars	187.5	195.3	196.5	197.5	199.5	199.9	200.6	7.0	0.4
Constant (1967) dollars	108.7	108.6	108.6	108.6	109.3	109.1	N.A.	(2)	(3)
MINING	203.8	212.1	213.1	215.4	216.9	217.5	218.4	7.2	.4
CONTRACT CONSTRUCTION	186.4	192.6	193.1	195.1	196.3	195.7	195.4	4.8	-.1
MANUFACTURING	188.1	195.4	196.8	198.5	200.5	201.0	202.2	7.5	.6
TRANSPORTATION AND PUBLIC UTILITIES	201.6	208.6	210.1	210.5	214.2	212.9	214.5	6.4	.8
WHOLESALE AND RETAIL TRADE	180.8	189.8	190.7	191.1	193.0	193.0	194.2	7.4	.6
FINANCE, INSURANCE, AND REAL ESTATE	172.0	177.4	179.0	177.2	180.3	181.3	181.0	5.2	-.2
SERVICES	190.0	199.7	200.7	201.8	203.3	205.0	204.7	7.7	-.2

¹ See footnote 1, table B-2.² Percent change was 0.4 from August 1976 to August 1977, the latest month available.³ Percent change was - 0.2 from July 1977 to August 1977, the latest month available.

N.A. = not available.

p=preliminary.

NOTE: All series are in current dollars except where indicated. The index excludes effects of two types of changes that are unrelated to underlying wage-rate developments: Fluctuations in overtime premiums in manufacturing (the only sector for which overtime data are available) and the effects of changes in the proportion of workers in high-wage and low-wage industries.

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

[1967 = 100]

Industry division and group	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
TOTAL	112.2	112.2	112.8	113.3	112.3	114.2	115.2	115.6	116.1	115.8	115.7	115.4	115.8
GOODS-PRODUCING	95.9	96.0	97.2	96.9	95.2	98.3	100.0	100.9	101.7	101.8	101.4	100.3	100.2
MINING	131.7	131.1	132.6	134.0	130.7	134.6	141.5	142.2	140.2	141.8	139.9	136.5	144.0
CONTRACT CONSTRUCTION	99.4	104.2	105.7	104.3	96.4	105.9	108.1	112.0	112.7	111.3	112.7	109.7	109.1
MANUFACTURING	94.0	93.2	94.5	94.4	93.8	95.7	97.1	97.5	98.5	98.8	98.1	97.4	97.2
DURABLE GOODS	93.2	92.0	93.8	93.6	93.2	94.8	96.8	96.8	98.1	98.7	98.4	98.2	97.9
Ordinance and accessories	38.6	38.5	38.5	39.5	39.0	39.1	38.5	40.8	41.3	41.1	40.0	40.8	39.1
Lumber and wood products	98.2	99.4	100.8	101.9	101.1	103.0	103.4	104.1	104.1	103.8	105.3	103.9	104.3
Furniture and fixtures	102.4	102.2	102.8	103.5	98.5	102.7	105.3	106.0	107.4	107.7	108.2	106.4	108.2
Stone, clay, and glass products	98.9	99.7	100.2	99.1	96.1	97.1	101.5	104.1	104.7	105.7	105.1	104.4	103.1
Primary metal industries	88.8	86.2	85.7	85.0	84.8	85.5	88.5	90.0	91.1	91.1	89.7	88.5	87.4
Fabricated metal products	98.6	96.5	98.1	98.1	97.6	100.0	101.6	101.0	103.1	104.2	103.6	103.5	103.7
Machinery, except electrical	95.9	94.0	96.7	96.0	95.7	97.7	98.6	98.3	100.5	101.2	103.3	103.1	103.6
Electrical equipment and supplies	91.5	92.1	93.4	93.1	91.7	95.5	95.9	96.1	97.3	97.9	97.4	98.8	98.4
Transportation equipment	89.1	86.1	91.5	90.6	93.3	91.3	96.7	94.8	96.2	96.9	95.2	96.0	94.8
Instruments and related products	107.2	107.9	108.5	110.4	108.9	112.4	111.6	111.1	112.3	113.2	112.3	111.0	111.0
Miscellaneous manufacturing, Ind.	92.2	92.0	92.1	91.6	93.1	96.8	96.0	95.1	95.0	94.3	91.4	91.6	91.2
NONDURABLE GOODS	95.2	95.0	95.4	95.5	94.7	97.1	97.6	98.5	98.9	98.9	97.8	96.3	96.1
Food and kindred products	96.4	96.2	96.6	95.5	95.1	97.5	97.9	98.8	97.2	97.5	95.9	93.7	92.4
Tobacco manufactures	82.1	83.0	81.6	81.6	76.1	83.0	75.5	80.7	77.2	79.4	74.9	73.0	71.3
Textile mill products	95.2	95.0	95.6	96.1	95.4	97.9	99.5	99.7	101.1	100.2	100.5	98.3	99.3
Apparel and other textile products	86.2	85.7	86.1	86.3	84.1	88.0	87.9	87.3	89.4	90.4	87.6	86.4	85.9
Paper and allied products	96.5	95.7	97.0	97.2	96.2	98.0	98.3	100.8	101.0	101.3	100.3	99.4	99.9
Printing and publishing	93.1	93.4	93.6	93.7	93.0	94.8	94.3	94.9	95.4	95.3	95.6	94.7	95.1
Chemicals and allied products	100.3	99.4	100.0	100.0	100.4	101.8	102.2	103.5	103.7	103.7	103.4	103.4	102.2
Petroleum and coal products	112.2	112.5	113.1	114.7	115.0	114.7	118.7	120.5	120.2	121.3	120.2	120.8	119.6
Rubber and plastics products, nec	124.3	125.6	125.7	127.6	127.7	129.6	131.7	134.7	135.8	133.9	132.7	129.2	129.7
Leather and leather products	72.1	71.0	70.4	70.5	69.1	71.9	71.9	73.9	73.9	72.9	70.2	70.3	71.4
SERVICE-PRODUCING	123.6	123.5	123.5	124.6	124.1	125.3	125.8	125.8	126.6	125.4	125.7	125.9	126.6
TRANSPORTATION AND PUBLIC UTILITIES	102.9	102.0	103.2	105.0	102.7	104.4	104.2	103.9	104.4	104.0	103.1	103.1	103.2
WHOLESALE AND RETAIL TRADE	119.7	119.3	118.9	120.0	119.1	120.7	121.5	121.7	121.7	121.1	121.4	121.4	121.8
WHOLESALE TRADE	114.9	114.8	114.8	114.8	115.4	117.0	116.9	117.8	117.3	117.3	117.3	117.6	117.3
RETAIL TRADE	121.6	121.0	120.4	122.0	120.4	122.1	123.2	123.1	123.3	122.5	122.9	122.9	123.4
FINANCE, INSURANCE, AND REAL ESTATE	127.7	128.3	129.1	129.8	130.6	130.2	131.1	131.0	131.6	131.5	132.2	132.3	133.4
SERVICES	137.2	137.6	137.7	138.4	138.8	139.7	140.0	140.1	140.2	139.5	140.0	140.7	142.0

¹ See footnote 1, table B-2.

p=preliminary.

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1974				
January	58.7	61.6	64.8	63.1
February	55.8	55.2	56.4	59.6
March	48.0	54.7	54.7	54.9
April	54.7	52.3	51.5	50.0
May	54.7	57.0	50.3	40.1
June	54.4	50.9	44.5	28.2
July	49.1	44.2	35.8	26.7
August	42.2	36.0	32.0	22.1
September	32.6	35.5	21.8	20.6
October	35.5	26.2	15.7	18.6
November	19.8	21.8	16.0	16.6
December	19.8	12.8	13.7	14.0
1975				
January	16.9	12.5	13.7	16.3
February	16.9	14.0	12.8	17.4
March	27.3	22.7	18.9	17.2
April	44.2	34.6	29.1	20.3
May	51.2	43.6	40.7	25.6
June	39.8	47.7	59.0	40.1
July	57.3	55.5	63.4	50.3
August	72.4	75.0	66.6	61.9
September	81.4	78.8	72.4	71.5
October	64.0	70.6	78.8	75.9
November	59.6	69.2	79.4	79.1
December	69.2	75.0	77.6	81.4
1976				
January	76.7	82.0	82.8	84.6
February	74.4	84.3	83.1	82.8
March	77.9	84.9	77.0	79.4
April	77.9	81.1	77.0	73.5
May	63.4	70.6	71.5	79.7
June	47.1	57.0	70.9	79.4
July	52.9	47.4	55.2	75.3
August	49.1	65.1	55.2	74.1
September	68.9	54.9	61.9	78.2
October	39.0	59.9	70.1	76.5
November	64.2	53.8	69.8	75.0
December	68.3	75.9	76.7	74.7
1977				
January	71.5	76.7	88.4	75.9
February	61.6	84.6	86.6	74.4p
March	79.7	86.0	83.7	75.6p
April	79.1	83.7	79.4	
May	68.9	71.5	74.7p	
June	57.8	61.6	69.2p	
July	62.5	49.7p		
August	44.5p	61.0p		
September	63.7p			
October				
November				
December				

¹ Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.

p = preliminary.