



The average (mean) duration of joblessness declined from 14.4 weeks in June to 14.1 weeks in July. (See table A-4.) There has been a general downward trend in average duration of unemployment since early 1976.

# Total Employment and the Labor Force

Total employment was little changed in July at 90.6 million, seasonally adjusted, after rising for 8 consecutive months. Reflecting the 2.8 million growth in employment over the past year, the employment-population ratio--the proportion of the total noninstitutional population that is employed--has increased substantially. Although marginally below the June level, the July ratio of 57.1 percent remained close to the alltime high of 57.4 percent last recorded in March 1974.

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

Selected categories	Quarterly averages					Monthly data		
	1976			1977		1977		
	II	III	IV	I	II	May	June	July
<b>HOUSEHOLD DATA</b>	<b>Thousands of persons</b>							
Civilian labor force .....	94,544	95,261	95,711	96,067	97,186	97,158	97,641	97,305
Total employment .....	87,501	87,804	88,133	88,998	90,370	90,408	90,679	90,561
Unemployment .....	7,043	7,457	7,578	7,068	6,816	6,750	6,962	6,744
Not in labor force .....	59,032	58,963	59,132	59,379	58,908	58,943	58,686	59,242
Discouraged workers .....	903	827	992	929	1,061	N.A.	N.A.	N.A.
	<b>Percent of labor force</b>							
Unemployment rates:								
All workers .....	7.4	7.8	7.9	7.4	7.0	6.9	7.1	6.9
Adult men .....	5.7	6.0	6.2	5.6	5.1	5.3	5.0	5.1
Adult women .....	7.1	7.7	7.6	7.1	6.9	6.6	7.2	6.9
Teenagers .....	18.8	18.8	19.1	18.6	18.1	17.9	18.6	17.4
White .....	6.8	7.1	7.2	6.7	6.3	6.2	6.3	6.1
Black and other .....	12.9	13.1	13.4	12.8	12.8	12.9	13.2	13.2
Full-time workers .....	7.0	7.4	7.5	6.8	6.5	6.5	6.5	6.5
<b>ESTABLISHMENT DATA</b>	<b>Thousands of jobs</b>							
Nonfarm payroll employment ...	79,333	79,683	80,090	80,927	81,901p	81,921	82,095p	82,351p
Goods-producing industries ...	23,380	23,372	23,440	23,765	24,291p	24,306	24,351p	24,424p
Service-producing industries ..	55,953	56,311	56,650	57,162	57,609p	57,615	57,744p	57,927p
	<b>Hours of work</b>							
Average weekly hours:								
Total private nonfarm .....	36.2	36.1	36.2	36.1	36.2p	36.3	36.2p	36.1p
Manufacturing .....	40.0	39.9	40.0	40.1	40.4p	40.4	40.5p	40.3p
Manufacturing overtime .....	3.0	3.0	3.1	3.1	3.4p	3.4	3.4p	3.3p

p=preliminary.

N.A.=not available.

The civilian labor force declined by 340,000 from June to July, seasonally adjusted. Nearly all of this reduction occurred among teenagers, who had registered an unusually large increase in the previous month. It is likely that the reduction in the labor force in July was due to the lateness of the reference week for June (the 12th through the 18th). Thus, some youth who otherwise would have been recorded as July entrants were counted in June. The total civilian labor force has shown strong gains throughout most of 1977 and over the past 12 months has grown by 2.1 million.

The civilian labor force participation rate returned to the May level of 62.2 percent but was still above the rate that prevailed a year ago. (See table A-1.)

#### Industry Payroll Employment

Total nonagricultural payroll employment registered its ninth consecutive monthly advance in July, rising 255,000 to 82.4 million, seasonally adjusted. This increase approximated the average monthly gain since last July, as the number of payroll jobs has grown 2.9 million during this 12-month period. Over-the-month employment gains took place in 72 percent of the industries comprising the BLS diffusion index of nonagricultural payroll employment. (See tables B-1 and B-6.)

Nearly three-fourths of the total payroll job increase occurred in the service-producing sector, in which all industries experienced gains. Pacing this advance were trade and services, each of which added about 60,000 jobs.

Manufacturing employment rose by 70,000 in July to 19.7 million. This increase was about evenly divided between the durable and nondurable goods sectors, with machinery and textiles posting the largest advances. Since October, growth in manufacturing has been strong, totaling 750,000.

Elsewhere in the goods-producing industries, employment in contract construction rose 35,000 in July, about half of which resulted from strike settlements. After remaining at about 3.6 million throughout 1976, construction jobs have increased by 310,000 thus far in 1977. An over-the-month decline of 35,000 in mining employment was due to strike activity.

### Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged down a tenth of an hour for the second consecutive month, to 36.1 hours in July, seasonally adjusted. Average hours had been above this level since November, except in January when the workweek was affected by unusual weather conditions. The manufacturing workweek decreased 0.2 hour to 40.3. Manufacturing overtime edged down 0.1 hour, after holding at 3.4 hours for 3 months. (See table B-2.)

Despite the decline in the average workweek, the index of aggregate weekly hours of production or nonsupervisory workers on nonagricultural payrolls moved up slightly, reflecting increases in the service-producing sector. The index advanced 0.1 percent over the month to 115.8 (1967=100), 3.6 percent above last year's level. The manufacturing index declined 0.3 percent to its May level of 98.5, still 4.6 percent higher than last July. (See table B-5.)

### Hourly and Weekly Earnings

Seasonally-adjusted average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose slightly in July. Both hourly and weekly earnings were 7.6 percent above their levels 12 months earlier.

On an unadjusted basis, average hourly earnings were \$5.23 in July, up 2 cents from June and 37 cents from a year earlier. Average weekly earnings were \$190.90, an increase of \$1.26 over the month and \$13.02 from the July 1976 level. (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 198.5 (1967=100) in July, 0.5 percent higher than in June. The index was 6.9 percent above July a year ago. During the 12-month period ended in June, the Hourly Earnings Index in dollars of constant purchasing power rose 0.2 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

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Table A-1. Employment status of the noninstitutional population

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	July 1976	June 1977	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>TOTAL</b>									
Total noninstitutional population <sup>1</sup>	156,142	158,456	158,682	156,142	157,782	157,986	158,228	158,456	158,682
Armed Forces <sup>1</sup>	2,140	2,129	2,135	2,140	2,138	2,132	2,128	2,129	2,135
Civilian noninstitutional population <sup>1</sup>	154,002	156,327	156,547	154,002	155,643	155,854	156,101	156,327	156,547
Civilian labor force	97,185	99,135	99,314	95,189	96,539	96,760	97,158	97,641	97,305
Participation rate	63.1	63.4	63.4	61.8	62.0	62.1	62.2	62.5	62.2
Employed	89,608	91,682	92,372	87,783	89,475	90,023	90,408	90,679	90,561
Employment-population ratio <sup>2</sup>	57.4	57.9	58.2	56.2	56.7	57.0	57.1	57.2	57.1
Agriculture	3,931	3,820	3,790	3,333	3,116	3,260	3,386	3,338	3,213
Nonagricultural industries	85,677	87,862	88,582	84,450	86,359	86,763	87,022	87,341	87,348
Unemployed	7,577	7,453	6,941	7,406	7,064	6,737	6,750	6,962	6,744
Unemployment rate	7.8	7.5	7.0	7.8	7.3	7.0	6.9	7.1	6.9
Not in labor force	56,817	57,192	57,234	58,813	59,104	59,094	58,943	58,686	59,242
Men, 20 years and over									
Total noninstitutional population <sup>1</sup>	66,279	67,431	67,537	66,279	67,114	67,209	67,324	67,431	67,537
Civilian noninstitutional population <sup>1</sup>	64,586	65,743	65,845	64,586	65,423	65,522	65,641	65,743	65,845
Civilian labor force	52,068	52,885	52,902	51,675	52,061	52,089	52,282	52,497	52,494
Participation rate	80.6	80.4	80.3	80.0	79.6	79.5	79.6	79.9	79.7
Employed	49,143	50,308	50,379	48,544	49,267	49,465	49,531	49,859	49,794
Employment-population ratio <sup>2</sup>	74.1	74.6	74.6	73.2	73.4	73.6	73.6	73.9	73.7
Agriculture	2,596	2,536	2,464	2,429	2,208	2,280	2,373	2,372	2,305
Nonagricultural industries	46,547	47,772	47,916	46,115	47,059	47,185	47,158	47,487	47,489
Unemployed	2,925	2,577	2,522	3,131	2,794	2,624	2,751	2,638	2,700
Unemployment rate	5.6	4.9	4.8	6.1	5.4	5.0	5.3	5.0	5.1
Not in labor force	12,518	12,858	12,943	12,911	13,362	13,433	13,359	13,246	13,351
Women, 20 years and over									
Total noninstitutional population <sup>1</sup>	73,053	74,198	74,315	73,053	73,852	73,958	74,081	74,198	74,315
Civilian noninstitutional population <sup>1</sup>	72,966	74,101	74,217	72,966	73,757	73,863	73,987	74,101	74,217
Civilian labor force	33,769	35,263	34,918	34,487	35,295	35,455	35,634	35,675	35,667
Participation rate	46.3	47.6	47.0	47.3	47.9	48.0	48.2	48.1	48.1
Employed	31,126	32,755	32,456	31,853	32,750	32,985	33,288	33,116	33,212
Employment-population ratio <sup>2</sup>	42.6	44.1	43.7	43.6	44.3	44.6	44.9	44.6	44.7
Agriculture	632	690	683	486	496	577	597	564	525
Nonagricultural industries	30,494	32,064	31,772	31,367	32,254	32,408	32,691	32,552	32,687
Unemployed	2,643	2,508	2,462	2,634	2,545	2,470	2,346	2,559	2,455
Unemployment rate	7.8	7.1	7.1	7.6	7.2	7.0	6.6	7.2	6.9
Not in labor force	39,196	38,838	39,299	38,479	38,462	38,408	38,353	38,426	38,550
Both sexes, 16-19 years									
Total noninstitutional population <sup>1</sup>	16,811	16,827	16,830	16,811	16,816	16,819	16,823	16,827	16,830
Civilian noninstitutional population <sup>1</sup>	16,450	16,483	16,485	16,450	16,464	16,468	16,473	16,483	16,485
Civilian labor force	11,348	10,987	11,494	9,027	9,183	9,216	9,242	9,469	9,144
Participation rate	69.0	66.7	69.7	54.9	55.8	56.0	56.1	57.4	55.5
Employed	9,339	8,620	9,537	7,386	7,458	7,573	7,589	7,704	7,555
Employment-population ratio <sup>2</sup>	55.6	51.2	56.7	43.9	44.4	45.0	45.1	45.8	44.9
Agriculture	704	594	643	418	412	403	416	402	383
Nonagricultural industries	8,635	8,025	8,894	6,968	7,046	7,170	7,173	7,302	7,172
Unemployed	2,008	2,367	1,957	1,641	1,725	1,643	1,653	1,765	1,589
Unemployment rate	17.7	21.5	17.0	18.2	18.8	17.8	17.9	18.6	17.4
Not in labor force	5,102	5,495	4,992	7,423	7,281	7,252	7,231	7,014	7,341
<b>WHITE</b>									
Total noninstitutional population <sup>1</sup>	137,424	139,270	139,450	137,424	138,732	138,894	139,089	139,270	139,450
Civilian noninstitutional population <sup>1</sup>	135,643	137,522	137,698	135,643	136,972	137,139	137,337	137,522	137,698
Civilian labor force	85,850	87,530	87,616	84,254	85,482	85,642	85,937	86,268	85,968
Participation rate	63.3	63.6	63.6	62.1	62.4	62.4	62.6	62.7	62.4
Employed	79,856	81,749	82,331	78,295	79,832	80,249	80,603	80,813	80,752
Employment-population ratio <sup>2</sup>	58.1	58.7	59.0	57.0	57.5	57.8	58.0	58.0	57.9
Unemployed	5,993	5,781	5,285	5,959	5,650	5,393	5,334	5,455	5,216
Unemployment rate	7.0	6.6	6.0	7.1	6.6	6.3	6.2	6.3	6.1
Not in labor force	49,793	49,992	50,082	51,389	51,490	51,497	51,400	51,254	51,730
<b>BLACK AND OTHER</b>									
Total noninstitutional population <sup>1</sup>	18,719	19,186	19,232	18,719	19,050	19,091	19,140	19,186	19,232
Civilian noninstitutional population <sup>1</sup>	18,359	18,805	18,850	18,359	18,672	18,714	18,763	18,805	18,850
Civilian labor force	11,335	11,605	11,697	10,868	11,104	11,071	11,171	11,325	11,236
Participation rate	61.7	61.7	62.1	59.2	59.5	59.2	59.5	60.2	59.6
Employed	9,752	9,933	10,042	9,464	9,690	9,711	9,730	9,833	9,758
Employment-population ratio <sup>2</sup>	52.1	51.8	52.2	50.6	50.9	50.9	50.8	51.3	50.7
Unemployed	1,584	1,671	1,656	1,404	1,414	1,360	1,441	1,492	1,478
Unemployment rate	14.0	14.4	14.2	12.9	12.7	12.3	12.9	13.2	13.2
Not in labor force	7,024	7,200	7,152	7,491	7,568	7,643	7,592	7,480	7,614

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

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

## HOUSEHOLD DATA

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Table A-2. Major unemployment indicators, seasonally adjusted

Selected categories	Number of unemployed persons (In thousands)		Unemployment rates					
	July 1976	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	7,406	6,744	7.8	7.3	7.0	6.9	7.1	6.9
Men, 20 years and over .....	3,131	2,700	6.1	5.4	5.0	5.3	5.0	5.1
Women, 20 years and over .....	2,634	2,455	7.6	7.2	7.0	6.6	7.2	6.9
Both sexes, 16-19 years .....	1,641	1,589	18.2	18.8	17.8	17.9	18.6	17.4
White, total .....	5,959	5,216	7.1	6.6	6.3	6.2	6.3	6.1
Men, 20 years and over .....	2,561	2,137	5.5	4.9	4.6	4.7	4.5	4.6
Women, 20 years and over .....	2,084	1,910	7.0	6.5	6.1	5.9	6.4	6.2
Both sexes, 16-19 years .....	1,314	1,169	16.2	16.6	16.1	15.7	16.1	14.3
Black and other, total .....	1,404	1,478	12.9	12.7	12.3	12.9	13.2	13.2
Men, 20 years and over .....	566	553	10.6	9.4	8.5	9.9	9.6	10.1
Women, 20 years and over .....	526	518	11.4	11.6	12.3	11.8	11.9	10.9
Both sexes, 16-19 years .....	312	407	34.2	40.1	36.2	38.7	39.4	40.7
Married men, spouse present .....	1,743	1,365	4.4	3.7	3.6	3.6	3.4	3.4
Married women, spouse present .....	1,628	1,464	7.4	6.7	6.6	6.3	6.8	6.6
Women who head families .....	424	403	10.2	9.6	9.2	8.4	9.4	9.3
Full-time workers .....	5,878	5,407	7.3	6.7	6.5	6.5	6.5	6.5
Part-time workers .....	1,500	1,304	10.6	11.1	9.9	9.9	10.7	9.2
Unemployed 15 weeks and over <sup>1</sup> .....	2,247	1,834	2.4	2.0	1.9	1.9	1.8	1.9
Labor force time lost <sup>2</sup> .....	--	--	8.1	7.8	7.4	7.5	7.5	7.4
<b>OCCUPATION<sup>3</sup></b>								
White-collar workers .....	2,168	1,900	4.7	4.7	4.4	4.3	4.2	4.0
Professional and technical .....	430	400	3.1	3.1	3.2	2.9	3.0	2.8
Managers and administrators, except farm .....	327	260	3.4	3.4	2.9	2.8	2.7	2.6
Sales workers .....	310	326	5.4	5.5	5.1	5.5	5.2	5.4
Clerical workers .....	1,101	914	6.6	6.5	6.0	5.7	5.7	5.4
Blue-collar workers .....	3,119	2,684	9.7	8.3	7.8	7.9	7.7	8.2
Craft and kindred workers .....	881	705	7.2	6.0	4.9	5.6	5.6	5.6
Operatives, except transport .....	1,270	1,160	11.1	9.2	9.3	8.9	9.4	10.1
Transport equipment operatives .....	294	277	8.2	6.9	6.0	6.7	5.7	7.5
Nonfarm laborers .....	574	542	13.4	13.2	12.6	12.5	10.9	10.7
Service workers .....	1,140	1,034	8.6	7.9	8.1	9.0	8.2	7.7
Farm workers .....	129	108	4.3	5.4	4.8	4.4	4.8	3.8
<b>INDUSTRY<sup>3</sup></b>								
Nonagricultural private wage and salary workers <sup>4</sup> .....	5,515	4,824	8.0	7.4	7.0	7.1	6.9	6.8
Construction .....	752	561	17.0	14.2	12.0	13.0	12.6	12.1
Manufacturing .....	1,675	1,446	7.8	6.6	6.7	6.2	6.3	6.7
Durable goods .....	946	779	7.5	6.1	6.0	5.7	5.6	6.1
Nondurable goods .....	729	667	8.4	7.3	7.7	7.0	7.3	7.6
Transportation and public utilities .....	245	238	5.2	5.1	4.4	4.3	4.1	4.7
Wholesale and retail trade .....	1,519	1,378	8.6	8.4	7.8	8.3	7.9	7.7
Finance and service industries .....	1,283	1,162	6.4	6.4	6.1	6.6	6.0	5.7
Government workers .....	702	615	4.5	4.0	4.0	4.1	4.2	3.9
Agricultural wage and salary workers .....	175	137	11.8	13.2	12.3	11.5	11.0	9.7
<b>VETERAN STATUS</b>								
Male Vietnam-era veterans: <sup>5</sup>								
20 to 34 years .....	529	517	8.3	6.8	7.3	7.5	7.6	7.9
20 to 24 years .....	193	154	20.4	17.1	14.4	13.6	18.1	16.3
25 to 29 years .....	210	207	6.8	6.6	7.7	7.8	7.1	7.2
30 to 34 years .....	126	156	5.5	3.3	4.3	5.1	4.5	5.8
Male nonveterans:								
20 to 34 years .....	1,323	1,204	8.7	7.9	6.8	7.2	6.9	7.6
20 to 24 years .....	734	680	10.9	10.4	10.1	10.2	8.9	9.9
25 to 29 years .....	404	341	8.4	7.0	5.7	5.4	6.3	6.8
30 to 34 years .....	185	183	5.1	4.3	4.2	4.1	4.0	4.6

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

by industry covers only unemployed wage and salary workers.

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

## HOUSEHOLD DATA

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Table A-3. Selected employment indicators

[In thousands]

Selected categories	Not seasonally adjusted		Seasonally adjusted					
	July 1976	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>CHARACTERISTICS</b>								
Total employed, 16 years and over .....	89,608	92,372	87,783	89,475	90,023	90,408	90,679	90,561
Men .....	54,264	55,677	52,507	53,270	53,575	53,722	53,987	53,900
Women .....	35,344	36,696	35,276	36,205	36,448	36,686	36,692	36,661
Married men, spouse present .....	38,261	38,549	38,146	38,294	38,536	38,509	38,582	38,434
Married women, spouse present .....	19,624	20,096	20,353	20,963	21,076	20,962	20,831	20,846
<b>OCCUPATION</b>								
White-collar workers .....	43,179	44,765	43,503	44,495	44,851	44,766	44,798	45,105
Professional and technical .....	12,712	13,253	13,291	13,439	13,591	13,483	13,638	13,863
Managers and administrators, except farm .....	9,298	9,660	9,226	9,543	9,434	9,400	9,570	9,583
Sales workers .....	5,473	5,750	5,442	5,617	5,765	5,695	5,673	5,716
Clerical workers .....	15,695	16,102	15,544	15,896	16,061	16,188	15,917	15,943
Blue-collar workers .....	30,634	31,652	29,100	30,025	30,193	30,423	30,432	30,063
Craft and kindred workers .....	11,816	12,398	11,329	11,709	11,896	11,894	11,891	11,887
Operatives, except transport .....	10,353	10,496	10,131	10,574	10,394	10,530	10,378	10,270
Transport equipment operatives .....	3,326	3,451	3,275	3,487	3,482	3,552	3,551	3,397
Nonfarm laborers .....	5,139	5,307	4,365	4,255	4,421	4,447	4,612	4,509
Service workers .....	12,416	12,706	12,178	12,272	12,254	12,372	12,697	12,460
Farm workers .....	3,379	3,249	2,861	2,652	2,779	2,904	2,838	2,743
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,665	1,620	1,306	1,282	1,310	1,325	1,381	1,271
Self-employed workers .....	1,805	1,672	1,686	1,513	1,548	1,655	1,595	1,561
Unpaid family workers .....	461	499	336	319	366	393	378	363
Nonagricultural industries:								
Wage and salary workers .....	79,425	81,987	78,250	79,869	80,306	80,429	80,814	80,738
Government .....	14,478	14,662	14,942	14,923	14,960	15,075	14,961	15,131
Private industries .....	64,947	67,326	63,308	64,946	65,346	65,354	65,853	65,607
Private households .....	1,453	1,465	1,433	1,313	1,320	1,305	1,388	1,445
Other industries .....	63,494	65,861	61,875	63,633	64,026	64,049	64,465	64,162
Self-employed workers .....	5,807	6,073	5,640	5,919	5,954	6,050	5,997	5,896
Unpaid family workers .....	445	521	447	536	499	550	518	523
<b>PERSONS AT WORK <sup>1</sup></b>								
Nonagricultural industries .....	74,347	77,467	79,257	81,330	81,005	81,771	81,618	82,572
Full-time schedules .....	62,257	64,745	65,261	66,659	66,436	67,219	67,126	67,867
Part time for economic reasons .....	3,803	4,074	3,136	3,276	3,174	3,290	3,368	3,371
Usually work full time .....	1,191	1,309	1,311	1,212	1,167	1,314	1,341	1,440
Usually work part time .....	2,612	2,765	1,825	2,064	2,007	1,976	2,027	1,931
Part time for noneconomic reasons .....	8,287	8,648	10,860	11,395	11,395	11,262	11,124	11,334

<sup>1</sup> 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					
	July 1976	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>DURATION</b>								
Less than 5 weeks .....	3,066	2,960	2,931	3,005	3,100	2,782	3,058	2,830
5 to 14 weeks .....	2,401	2,258	2,093	2,098	1,857	2,093	2,023	1,969
15 weeks and over .....	2,111	1,724	2,247	1,923	1,816	1,836	1,737	1,834
15 to 26 weeks .....	805	717	1,058	777	715	800	798	917
27 weeks and over .....	1,306	1,007	1,189	1,146	1,101	1,036	939	917
Average (mean) duration, in weeks .....	14.9	13.5	15.6	14.0	14.3	14.9	14.4	14.1
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	40.5	42.6	40.3	42.8	45.8	41.5	44.9	42.7
5 to 14 weeks .....	31.7	32.5	28.8	29.9	27.4	31.2	29.7	29.7
15 weeks and over .....	27.9	24.8	30.9	27.4	26.8	27.4	25.5	27.6
15 to 26 weeks .....	10.6	10.3	14.6	11.1	10.6	11.9	11.7	13.8
27 weeks and over .....	17.2	14.5	16.4	16.3	16.3	15.4	13.8	13.8

## HOUSEHOLD DATA

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Table A-5. Reasons for unemployment

[Numbers in thousands]

Reasons	Not seasonally adjusted		Seasonally adjusted					
	July 1976	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>NUMBER OF UNEMPLOYED</b>								
Lost last job .....	3,505	2,869	3,758	3,143	2,953	3,038	2,927	3,075
On layoff .....	978	787	1,142	865	754	749	827	919
Other job losers .....	2,527	2,082	2,616	2,278	2,199	2,289	2,100	2,156
Left last job .....	1,000	879	957	919	846	944	954	841
Reentered labor force .....	1,945	1,886	1,879	2,013	2,001	1,993	1,889	1,822
Seeking first job .....	1,128	1,308	794	1,003	972	893	1,077	974
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	46.3	41.3	50.9	44.4	43.6	44.2	42.7	45.8
On layoff .....	12.9	11.3	15.5	12.2	11.1	10.9	12.1	13.7
Other job losers .....	33.4	30.0	35.4	32.2	32.5	33.3	30.7	32.1
Job leavers .....	13.2	12.7	13.0	13.0	12.5	13.7	13.9	12.5
Reentrants .....	25.7	27.2	25.4	28.4	29.5	29.0	27.6	27.1
New entrants .....	14.9	18.8	10.7	14.2	14.4	13.0	15.7	14.5
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.6	2.9	3.9	3.3	3.1	3.1	3.0	3.2
Job leavers .....	1.0	.9	1.0	1.0	.9	1.0	1.0	.9
Reentrants .....	2.0	1.9	2.0	2.1	2.1	2.1	1.9	1.9
New entrants .....	1.2	1.3	.8	1.0	1.0	.9	1.1	1.0

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

Sex and age	Number of unemployed persons (in thousands)		Unemployment rates					
	July 1976	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
Total, 16 years and over .....	7,406	6,744	7.8	7.3	7.0	6.9	7.1	6.9
16 to 19 years .....	1,641	1,589	18.2	18.8	17.8	17.9	18.6	17.4
16 to 17 years .....	786	752	20.8	22.2	19.2	20.4	21.3	19.9
18 to 19 years .....	832	815	15.9	16.6	16.8	16.3	16.5	15.3
20 to 24 years .....	1,598	1,522	11.4	11.4	10.8	10.7	10.5	10.6
25 years and over .....	4,229	3,679	5.9	5.1	4.9	4.8	5.0	5.0
25 to 54 years .....	3,495	3,076	6.0	5.2	5.1	5.1	5.3	5.2
55 years and over .....	685	552	4.9	4.3	4.1	4.0	3.8	3.9
Men, 16 years and over .....	4,020	3,538	7.1	6.5	6.1	6.3	6.2	6.2
16 to 19 years .....	889	838	18.3	18.7	17.0	17.0	18.6	16.9
16 to 17 years .....	430	424	20.8	22.2	17.9	18.7	22.7	20.2
18 to 19 years .....	461	417	16.6	16.1	16.0	16.0	15.5	14.7
20 to 24 years .....	921	833	12.0	11.2	10.5	10.6	9.9	10.6
25 years and over .....	2,221	1,874	5.1	4.3	4.1	4.2	4.1	4.2
25 to 54 years .....	1,847	1,551	5.2	4.3	4.3	4.4	4.3	4.3
55 years and over .....	372	319	4.2	4.4	3.7	3.9	3.3	3.6
Women, 16 years and over .....	3,386	3,206	8.8	8.5	8.2	7.9	8.4	8.0
16 to 19 years .....	752	751	18.0	18.9	18.8	19.0	18.7	17.9
16 to 17 years .....	356	328	20.8	22.2	20.8	22.5	19.7	19.5
18 to 19 years .....	371	398	15.2	17.1	17.7	16.6	17.5	16.0
20 to 24 years .....	677	689	10.6	11.7	11.2	10.9	11.0	10.5
25 years and over .....	2,008	1,805	7.1	6.1	6.0	5.7	6.3	6.2
25 to 54 years .....	1,648	1,525	7.2	6.6	6.5	6.1	6.7	6.4
55 years and over .....	313	233	5.9	4.2	4.6	4.3	4.6	4.4

## HOUSEHOLD DATA

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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		
	II	III	IV	I	II	May	June	July
U-1—Persons unemployed 15 weeks or longer as a percent of the civilian labor force .....	2.2	2.4	2.6	2.2	1.8	1.9	1.8	1.9
U-2—Job losers as a percent of the civilian labor force .....	3.7	3.9	3.9	3.4	3.1	3.1	3.0	3.2
U-3—Unemployed household heads as a percent of the household head labor force .....	4.9	5.3	5.3	4.8	4.4	4.5	4.3	4.3
U-4—Unemployed full-time jobseekers as a percent of the full-time labor force .....	7.0	7.4	7.5	6.8	6.5	6.5	6.5	6.5
U-5—Total unemployed as a percent of the civilian labor force (official measure) .....	7.4	7.8	7.9	7.4	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 .....	9.1	9.5	9.7	9.0	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 .....	10.0	10.3	10.7	9.9	9.7	N.A.	N.A.	N.A.

N.A.= not available.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

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

[In thousands]

Industry	Not seasonally adjusted				Seasonally adjusted					
	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>
<b>TOTAL</b> .....	79,242	82,029	82,903	82,159	79,513	81,395	81,686	81,921	82,095	82,351
<b>GOODS-PRODUCING</b> .....	23,446	24,167	24,676	24,585	23,344	24,005	24,217	24,306	24,351	24,424
<b>MINING</b> .....	804	844	870	835	791	842	847	845	855	821
<b>CONTRACT CONSTRUCTION</b> .....	3,821	3,853	4,048	4,144	3,608	3,759	3,842	3,861	3,877	3,913
<b>MANUFACTURING</b> .....	18,821	19,470	19,758	19,606	18,945	19,404	19,528	19,600	19,619	19,690
<i>Production workers</i> .....	13,470	14,021	14,259	14,089	13,618	13,958	14,066	14,145	14,144	14,200
<b>DURABLE GOODS</b> .....	10,958	11,442	11,597	11,492	11,034	11,370	11,423	11,469	11,490	11,527
<i>Production workers</i> .....	7,787	8,207	8,336	8,226	7,878	8,128	8,177	8,233	8,241	8,280
Ordnance and accessories .....	156.8	155.2	156.5	153.5	156	156	157	157	157	153
Lumber and wood products .....	623.4	637.0	661.4	663.0	605	633	639	638	638	643
Furniture and fixtures .....	478.4	504.1	511.1	502.9	490	503	507	509	510	515
Stone, clay, and glass products .....	641.8	655.7	671.5	675.4	631	641	651	654	658	663
Primary metal industries .....	1,208.8	1,217.8	1,233.5	1,220.4	1,206	1,199	1,208	1,217	1,218	1,218
Fabricated metal products .....	1,374.0	1,440.1	1,463.1	1,447.3	1,387	1,432	1,433	1,447	1,451	1,460
Machinery, except electrical .....	2,064.9	2,161.0	2,180.6	2,171.9	2,084	2,142	2,150	2,165	2,168	2,192
Electrical equipment .....	1,806.3	1,915.1	1,937.7	1,926.2	1,815	1,906	1,919	1,931	1,932	1,936
Transportation equipment .....	1,679.8	1,811.0	1,828.1	1,793.9	1,728	1,808	1,808	1,802	1,810	1,801
Instruments and related products ..	510.3	525.4	530.3	527.6	512	526	526	526	528	529
Miscellaneous manufacturing .....	413.1	419.9	423.4	410.3	420	424	425	423	420	417
<b>NONDURABLE GOODS</b> .....	7,863	8,028	8,161	8,114	7,911	8,034	8,105	8,131	8,129	8,163
<i>Production workers</i> .....	5,683	5,814	5,923	5,863	5,740	5,830	5,889	5,912	5,903	5,920
Food and kindred products .....	1,749.5	1,673.9	1,722.4	1,758.5	1,719	1,734	1,743	1,735	1,733	1,727
Tobacco manufactures .....	73.2	63.2	65.0	65.2	80	68	73	71	72	71
Textile mill products .....	951.3	983.5	995.7	980.6	970	973	981	988	987	1,000
Apparel and other textile products ..	1,255.0	1,295.9	1,317.5	1,269.3	1,299	1,283	1,291	1,298	1,307	1,314
Paper and allied products .....	678.7	696.0	707.9	703.0	680	688	697	703	701	704
Printing and publishing .....	1,076.4	1,105.4	1,111.4	1,108.0	1,082	1,097	1,102	1,109	1,110	1,114
Chemicals and allied products .....	1,041.9	1,056.4	1,068.2	1,073.0	1,037	1,051	1,060	1,063	1,061	1,068
Petroleum and coal products .....	207.1	209.8	214.2	215.8	201	207	211	210	210	210
Rubber and plastics products, nec. .	564.8	673.9	684.6	675.1	572	666	680	685	681	684
Leather and leather products .....	265.0	269.7	274.2	265.5	271	267	267	269	267	271
<b>SERVICE-PRODUCING</b> .....	55,796	57,862	58,227	57,574	56,169	57,390	57,469	57,615	57,744	57,927
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,540	4,577	4,626	4,615	4,508	4,568	4,575	4,586	4,576	4,583
<b>WHOLESALE AND RETAIL TRADE</b> ..	17,723	18,176	18,322	18,297	17,737	18,189	18,203	18,235	18,227	18,285
<b>WHOLESALE TRADE</b> .....	4,297	4,353	4,399	4,412	4,271	4,354	4,371	4,384	4,373	4,386
<b>RETAIL TRADE</b> .....	13,426	13,823	13,923	13,885	13,466	13,835	13,832	13,851	13,854	13,899
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,368	4,476	4,533	4,565	4,312	4,453	4,463	4,480	4,488	4,506
<b>SERVICES</b> .....	14,825	15,288	15,454	15,473	14,664	15,149	15,182	15,197	15,241	15,305
<b>GOVERNMENT</b> .....	14,340	15,345	15,292	14,624	14,948	15,031	15,046	15,117	15,212	15,248
<b>FEDERAL</b> .....	2,775	2,728	2,765	2,782	2,723	2,725	2,719	2,723	2,735	2,730
<b>STATE AND LOCAL</b> .....	11,565	12,617	12,527	11,842	12,225	12,306	12,327	12,394	12,477	12,518

p=preliminary.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

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

Industry	Not seasonally adjusted				Seasonally adjusted					
	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>
<b>TOTAL PRIVATE</b> .....	36.6	36.1	36.4	36.5	36.1	36.3	36.2	36.3	36.2	36.1
<b>MINING</b> .....	42.7	44.1	44.6	44.0	42.6	44.4	44.4	44.0	44.0	43.9
<b>CONTRACT CONSTRUCTION</b> .....	37.9	37.5	37.4	37.7	36.9	37.1	37.3	37.4	36.8	36.7
<b>MANUFACTURING</b> .....	40.0	40.3	40.8	40.1	40.1	40.4	40.3	40.4	40.5	40.3
Overtime hours .....	3.1	3.3	3.5	3.3	3.1	3.3	3.4	3.4	3.4	3.3
<b>DURABLE GOODS</b> .....	40.5	41.0	41.5	40.6	40.9	41.0	40.8	41.1	41.2	41.0
Overtime hours .....	3.2	3.5	3.7	3.5	3.3	3.4	3.6	3.6	3.7	3.6
Ordnance and accessories .....	40.5	41.0	41.0	39.9	40.9	40.6	41.2	41.1	40.9	40.3
Lumber and wood products .....	40.4	40.3	40.7	40.2	40.6	40.1	40.0	40.0	39.9	40.4
Furniture and fixtures .....	38.2	38.4	39.2	38.5	38.6	38.6	38.4	38.7	38.8	38.9
Stone, clay, and glass products .....	41.2	41.8	42.0	41.6	41.0	41.4	41.7	41.7	41.7	41.4
Primary metal industries .....	41.0	41.5	41.7	40.6	41.2	41.1	41.5	41.6	41.6	40.8
Fabricated metal products .....	40.6	41.0	41.6	40.6	41.0	41.0	40.7	41.0	41.3	41.0
Machinery, except electrical .....	40.8	41.4	41.9	41.2	41.5	41.5	41.3	41.6	41.9	42.0
Electrical equipment .....	39.5	40.1	40.6	39.7	40.1	40.3	40.0	40.1	40.4	40.3
Transportation equipment .....	42.0	42.8	43.2	41.9	42.0	42.8	41.9	42.7	42.9	41.9
Instruments and related products .....	40.3	40.3	40.7	40.3	40.8	40.4	40.1	40.4	40.7	40.8
Miscellaneous manufacturing .....	38.4	39.0	39.3	38.3	38.8	39.3	38.9	39.0	39.1	38.7
<b>NONDURABLE GOODS</b> .....	39.2	39.3	39.7	39.3	39.1	39.5	39.5	39.5	39.6	39.3
Overtime hours .....	3.0	3.0	3.2	3.0	2.9	3.1	3.2	3.1	3.1	2.9
Food and kindred products .....	40.4	39.7	40.1	40.1	40.0	40.2	40.3	39.9	40.0	39.7
Tobacco manufactures .....	33.8	38.1	38.5	36.9	35.0	38.4	38.3	38.6	38.6	38.2
Textile mill products .....	39.9	40.6	40.9	40.2	40.2	40.8	40.5	40.7	40.5	40.5
Apparel and other textile products .....	35.6	35.5	36.1	35.6	35.5	35.6	35.1	35.7	36.0	35.5
Paper and allied products .....	42.3	42.7	43.1	42.5	42.3	42.8	43.3	43.0	42.9	42.5
Printing and publishing .....	37.6	37.5	37.7	37.7	37.7	37.7	37.7	37.6	37.7	37.8
Chemicals and allied products .....	41.3	41.7	42.0	41.5	41.4	41.8	41.9	41.7	41.9	41.6
Petroleum and coal products .....	42.6	42.6	42.9	43.5	42.2	43.0	42.7	42.6	42.7	43.1
Rubber and plastics products, nec .....	39.9	41.1	41.3	40.2	40.3	41.2	41.2	41.3	41.1	40.6
Leather and leather products .....	37.4	37.3	38.1	37.1	37.0	36.4	37.4	37.1	37.3	36.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.2	40.0	40.1	40.5	39.8	40.3	40.1	40.2	39.9	40.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	34.5	33.2	33.6	34.1	33.6	33.5	33.5	33.4	33.3	33.3
<b>WHOLESALE TRADE</b> .....	39.3	38.7	39.0	39.0	39.1	38.9	39.0	38.7	38.9	38.8
<b>RETAIL TRADE</b> .....	33.0	31.6	32.1	32.7	32.0	31.9	31.9	31.9	31.7	31.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.7	36.6	36.6	36.7	36.6	36.7	36.6	36.7	36.6	36.6
<b>SERVICES</b> .....	34.0	33.3	33.5	33.9	33.4	33.5	33.5	33.5	33.3	33.3

<sup>1</sup> 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

## ESTABLISHMENT DATA

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

Industry	Average hourly earnings				Average weekly earnings			
	July 1976	May 1977	June 1977 P	July 1977 P	July 1976	May 1977	June 1977 P	July 1977 P
<b>TOTAL PRIVATE</b> .....	\$4.86	\$5.19	\$5.21	\$5.23	\$177.88	\$187.36	\$189.64	\$190.90
<i>Seasonally adjusted</i> .....	4.88	5.20	5.22	5.25	176.17	188.76	188.96	189.53
<b>MINING</b> .....	6.39	6.81	6.84	6.81	272.85	300.32	305.06	299.64
<b>CONTRACT CONSTRUCTION</b> .....	7.68	7.91	7.95	7.97	291.07	296.63	297.33	300.47
<b>MANUFACTURING</b> .....	5.20	5.56	5.60	5.63	208.00	224.07	228.48	225.76
<b>DURABLE GOODS</b> .....	5.55	5.95	6.00	6.00	224.78	243.95	249.00	243.60
Ordnance and accessories .....	5.75	6.16	6.15	6.16	232.88	252.56	252.15	245.78
Lumber and wood products .....	4.81	4.97	5.01	5.07	194.32	200.29	203.91	203.81
Furniture and fixtures .....	3.97	4.23	4.27	4.26	151.65	162.43	167.38	164.01
Stone, clay, and glass products .....	5.33	5.73	5.78	5.83	219.60	239.51	242.76	242.53
Primary metal industries .....	6.83	7.39	7.43	7.48	280.03	306.69	309.83	303.69
Fabricated metal products .....	5.42	5.73	5.81	5.80	220.05	234.93	241.70	235.48
Machinery, except electrical .....	5.75	6.10	6.15	6.18	234.60	252.54	257.69	254.62
Electrical equipment .....	4.90	5.23	5.28	5.29	193.55	209.72	214.37	210.01
Transportation equipment .....	6.50	7.10	7.18	7.14	273.00	303.88	310.18	299.17
Instruments and related products .....	4.88	5.13	5.14	5.21	196.66	206.74	209.20	209.96
Miscellaneous manufacturing .....	4.02	4.31	4.31	4.32	154.37	168.09	169.38	165.46
<b>NONDURABLE GOODS</b> .....	4.69	4.99	5.03	5.09	183.85	196.11	199.69	200.04
Food and kindred products .....	4.96	5.28	5.29	5.33	200.38	209.62	212.13	213.73
Tobacco manufactures .....	5.00	5.58	5.83	5.81	169.00	212.60	224.46	214.39
Textile mill products .....	3.71	3.86	3.90	4.03	148.03	156.72	159.51	162.01
Apparel and other textile products .....	3.39	3.56	3.61	3.58	120.68	126.38	130.32	127.45
Paper and allied products .....	5.47	5.80	5.87	5.97	231.38	247.66	253.00	253.73
Printing and publishing .....	5.67	6.02	6.06	6.07	213.19	225.75	228.46	228.84
Chemicals and allied products .....	5.92	6.29	6.33	6.41	244.50	262.29	265.86	266.02
Petroleum and coal products .....	7.13	7.69	7.72	7.76	303.74	327.59	331.19	337.56
Rubber and plastics products, nec .....	4.40	5.05	5.12	5.15	175.56	207.56	211.46	207.03
Leather and leather products .....	3.41	3.63	3.64	3.63	127.53	135.40	138.68	134.67
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	6.46	6.83	6.85	6.89	259.69	273.20	274.69	279.05
<b>WHOLESALE AND RETAIL TRADE</b> .....	3.96	4.25	4.26	4.27	136.62	141.10	143.14	145.61
<b>WHOLESALE TRADE</b> .....	5.17	5.52	5.51	5.55	203.18	213.62	214.89	216.45
<b>RETAIL TRADE</b> .....	3.54	3.80	3.81	3.82	116.82	120.08	122.30	124.91
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4.36	4.58	4.55	4.58	160.01	167.63	166.53	168.09
<b>SERVICES</b> .....	4.32	4.67	4.66	4.67	146.88	155.51	156.11	158.31

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

p=preliminary.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

**Table B-4. Hourly earnings index for production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division, seasonally adjusted**

[1967=100]

Industry	July 1976	Feb. 1977	Mar. 1977	Apr. 1977	May 1977	June P 1977	July P 1977	Percent change from	
								July 1976-July 1977	June 1977-July 1977
<b>TOTAL PRIVATE NONFARM:</b>									
Current dollars .....	185.6	193.2	194.1	195.3	196.5	197.4	198.5	6.9	0.5
Constant (1967) dollars .....	108.5	109.0	108.8	108.6	108.6	108.5	N.A.	(2)	(3)
<b>MINING</b> .....	199.1	210.1	210.4	212.1	213.1	214.3	215.1	8.0	.3
<b>CONTRACT CONSTRUCTION</b> .....	188.0	190.8	191.6	192.6	193.1	194.6	195.6	4.0	.5
<b>MANUFACTURING</b> .....	185.4	193.3	194.3	195.4	196.8	198.4	199.5	7.6	.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	199.9	206.2	206.7	208.6	210.1	211.3	211.7	5.9	.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	178.8	187.6	188.5	189.8	190.7	191.0	192.4	7.6	.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	170.8	175.7	175.9	177.4	179.0	177.5	179.5	5.1	1.1
<b>SERVICES</b> .....	188.3	197.7	198.7	199.7	200.7	201.6	202.3	7.4	.4

<sup>1</sup> See footnote 1, table B-2.<sup>2</sup> Percent change was 0.2 from June 1976 to June 1977, the latest month available.<sup>3</sup> Percent change was -0.1 from May 1977 to June 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 workers<sup>1</sup> on private nonagricultural payrolls, by industry, seasonally adjusted**

[1967 = 100]

Industry division and group	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>TOTAL</b> .....	111.8	111.8	112.2	112.2	112.8	113.3	112.3	114.2	115.2	115.6	116.1	115.7	115.8
<b>GOODS-PRODUCING</b> .....	96.5	95.7	95.9	96.0	97.2	96.9	95.2	98.3	100.0	100.9	101.7	101.8	101.5
<b>MINING</b> .....	127.7	115.6	131.7	131.1	132.6	134.0	130.7	134.6	141.5	142.2	140.2	141.8	134.6
<b>CONTRACT CONSTRUCTION</b> .....	103.7	102.5	99.4	104.2	105.7	104.3	96.4	105.9	108.1	112.0	112.7	111.4	112.4
<b>MANUFACTURING</b> .....	94.2	93.9	94.0	93.2	94.5	94.4	93.8	95.7	97.1	97.5	98.5	98.8	98.5
<b>DURABLE GOODS</b> .....	93.5	93.6	93.2	92.0	93.8	93.6	93.2	94.8	96.8	96.8	98.1	98.7	98.5
Ordnance and accessories .....	40.0	39.8	38.6	38.5	38.5	39.5	39.0	39.1	38.5	40.8	41.3	41.1	39.9
Lumber and wood products .....	98.6	97.6	98.2	99.4	100.8	101.9	101.1	103.0	103.4	104.1	104.1	104.0	106.1
Furniture and fixtures .....	102.3	101.2	102.4	102.2	102.8	103.5	98.5	102.7	105.3	106.0	107.4	107.7	109.0
Stone, clay, and glass products .....	99.2	98.6	98.9	99.7	100.2	99.1	96.1	97.1	101.5	104.1	104.7	105.5	105.9
Primary metal industries .....	90.1	89.8	88.8	86.2	85.7	85.0	84.8	85.5	88.5	90.0	91.1	91.0	89.7
Fabricated metal products .....	98.0	98.6	98.6	96.5	98.1	98.1	97.6	100.0	101.6	101.0	103.1	104.2	103.9
Machinery, except electrical .....	95.9	95.9	95.9	94.0	96.7	96.0	95.7	97.7	98.6	98.3	100.5	101.2	103.3
Electrical equipment and supplies .....	90.5	92.2	91.5	92.1	93.4	93.1	91.7	95.5	95.9	96.1	97.3	98.0	97.8
Transportation equipment .....	90.3	90.7	89.1	86.1	91.5	90.6	93.3	91.3	96.7	94.8	96.2	97.0	94.2
Instruments and related products .....	110.3	108.1	107.2	107.9	108.5	110.4	108.9	112.4	111.6	111.1	112.3	113.2	113.8
Miscellaneous manufacturing, Ind. ....	93.1	91.8	92.2	92.0	92.1	91.6	93.1	96.8	96.0	95.1	95.0	94.1	92.2
<b>NONDURABLE GOODS</b> .....	95.2	94.2	95.2	95.0	95.4	95.5	94.7	97.1	97.6	98.5	98.9	98.9	98.5
Food and kindred products .....	97.0	96.5	96.4	96.2	96.6	95.5	95.1	97.5	97.9	98.8	97.2	97.3	95.5
Tobacco manufactures .....	82.3	84.0	82.1	83.0	81.6	81.6	76.1	83.0	75.5	80.7	77.2	78.6	75.1
Textile mill products .....	98.0	95.5	95.2	95.0	95.6	96.1	95.4	97.9	99.5	99.7	101.1	100.3	101.5
Apparel and other textile products .....	88.9	87.6	86.2	85.7	86.1	86.3	84.1	88.0	87.9	87.3	89.4	90.7	89.9
Paper and allied products .....	96.9	96.1	96.5	95.7	97.0	97.2	96.2	98.0	98.3	100.8	101.0	100.4	100.0
Printing and publishing .....	93.6	92.9	93.1	93.4	93.6	93.7	93.0	94.8	94.3	94.9	95.4	95.2	95.6
Chemicals and allied products .....	99.4	99.8	100.3	99.4	100.0	100.0	100.4	101.8	102.2	103.5	103.7	104.0	103.8
Petroleum and coal products .....	112.2	112.4	112.2	112.5	113.1	114.7	115.0	114.7	118.7	120.5	120.2	120.5	123.4
Rubber and plastics products, nec .....	106.2	105.2	124.3	125.6	125.7	127.6	127.7	129.6	131.7	134.7	135.8	133.9	132.7
Leather and leather products .....	74.7	72.5	72.1	71.0	70.4	70.5	69.1	71.9	71.9	73.9	73.9	73.7	74.1
<b>SERVICE-PRODUCING</b> .....	122.5	123.0	123.6	123.5	123.5	124.6	124.1	125.3	125.8	125.8	126.6	125.3	125.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	102.1	102.5	102.9	102.0	103.2	105.0	102.7	104.4	104.2	103.9	104.4	103.4	103.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	118.9	119.0	119.7	119.3	118.9	120.0	119.1	120.7	121.5	121.7	121.7	121.0	121.2
<b>WHOLESALE TRADE</b> .....	115.3	114.7	114.9	114.8	114.8	114.8	115.4	117.0	116.9	117.8	117.3	117.3	117.1
<b>RETAIL TRADE</b> .....	120.3	120.6	121.6	121.0	120.4	122.0	120.4	122.1	123.2	123.1	123.3	122.4	122.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	126.6	127.3	127.7	128.3	129.1	129.8	130.6	130.2	131.1	131.0	131.6	131.5	131.9
<b>SERVICES</b> .....	135.4	136.6	137.2	137.6	137.7	138.4	138.8	139.7	140.0	140.1	140.2	139.4	140.2

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

p=preliminary.

## ESTABLISHMENT DATA

## ESTABLISHMENT DATA

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
<b>1974</b>				
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
<b>1975</b>				
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
<b>1976</b>				
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	75.9 p
<b>1977</b>				
January .....	71.5	76.7	88.4	80.5 p
February .....	61.6	84.6	86.6	
March .....	79.7	86.0	84.3 p	
April .....	79.1	83.7	82.3 p	
May .....	68.9	74.1 p		
June .....	54.7 p	66.0 p		
July .....	72.1 p			
August .....				
September .....				
October .....				
November .....				
December .....				

<sup>1</sup> Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.  
p = preliminary.