

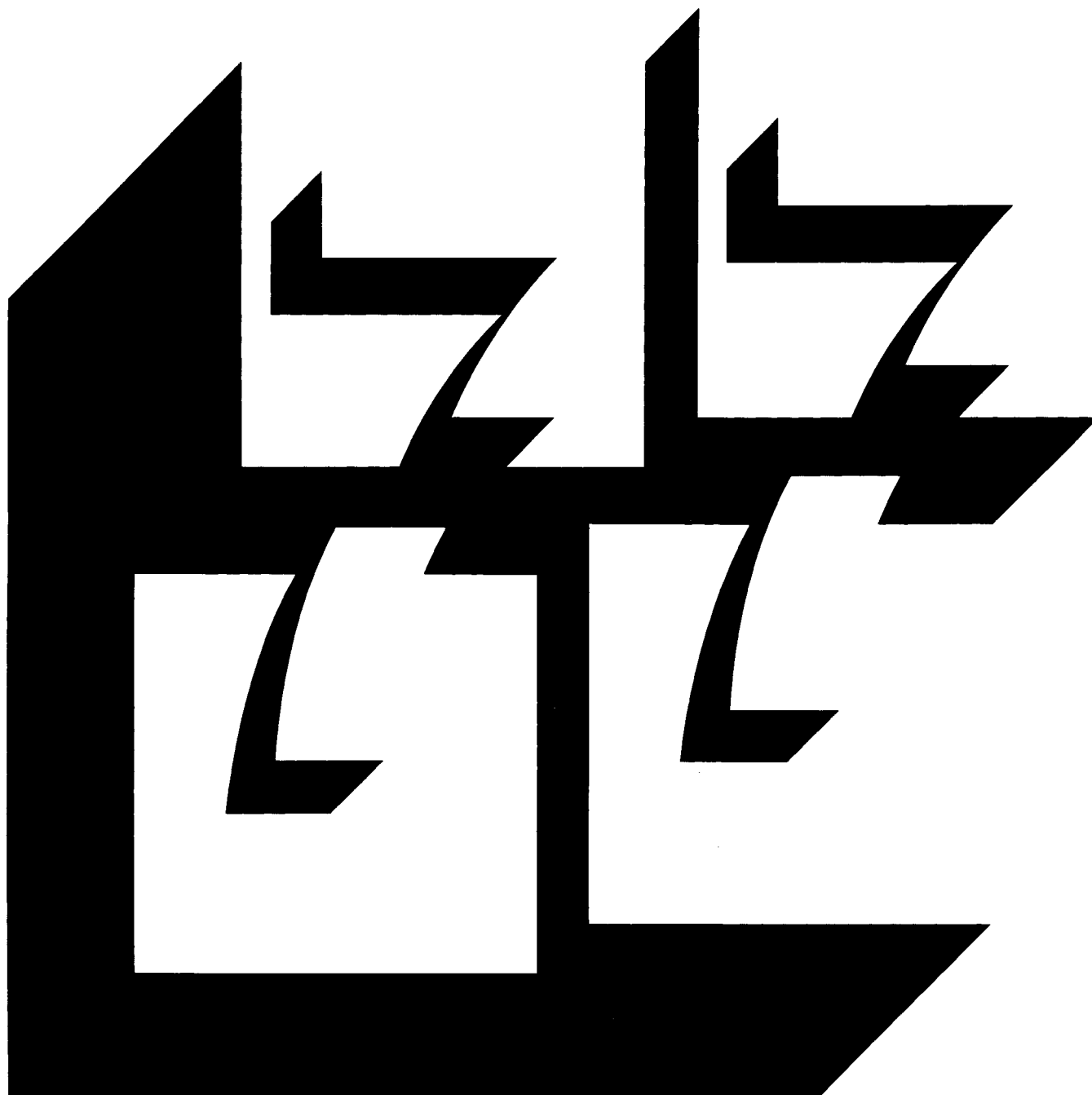
Employment and Earnings

October 1977



U.S. Department of Labor
Bureau of Labor Statistics

Vol. 24 No. 10





U.S. DEPARTMENT OF LABOR

Ray Marshall, Secretary

BUREAU OF LABOR STATISTICS

Julius Shiskin, Commissioner

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Employment and Earnings

Vol. 24 No. 10 October 1977

Editors: Chester L. Green, Gloria P. Green, Marcy Freedman

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CALENDAR OF FEATURES											
In addition to the monthly data appearing regularly in Employment and Earnings, special features appear in most of the issues, as shown below:											
	Jan.	Feb.	Mar.	Apr.	May	July	Aug.	Oct.	Nov.	Dec.	
Household data											
Annual averages	x										
Revised seasonally adjusted series		x									
Quarterly averages:											
Seasonally adjusted data											
Persons not in labor force											
Persons of Spanish origin											
Vietnam-Era veterans and nonveterans	x			x		x		x			
Poverty-nonpoverty area data											
Establishment data											
National annual averages:											
Industry divisions (preliminary)	x										
Industry detail (final)			x								
Women employment (National)		x			x		x		x		
National data adjusted to new benchmarks			(1)					(1)			
Revised seasonally adjusted series			(2)							(2)	
State and area annual averages					x						
Area definitions					x						

¹ The issue that introduces new benchmarks varies. The October 1975 issue marks the introduction of March 1974 benchmarks. Interim revisions of selected series appear in the February 1977 issue.

² Revised data introduced December 1976 and February 1977.

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Employment and Unemployment Developments, September 1977

Employment rose in September and unemployment declined slightly. 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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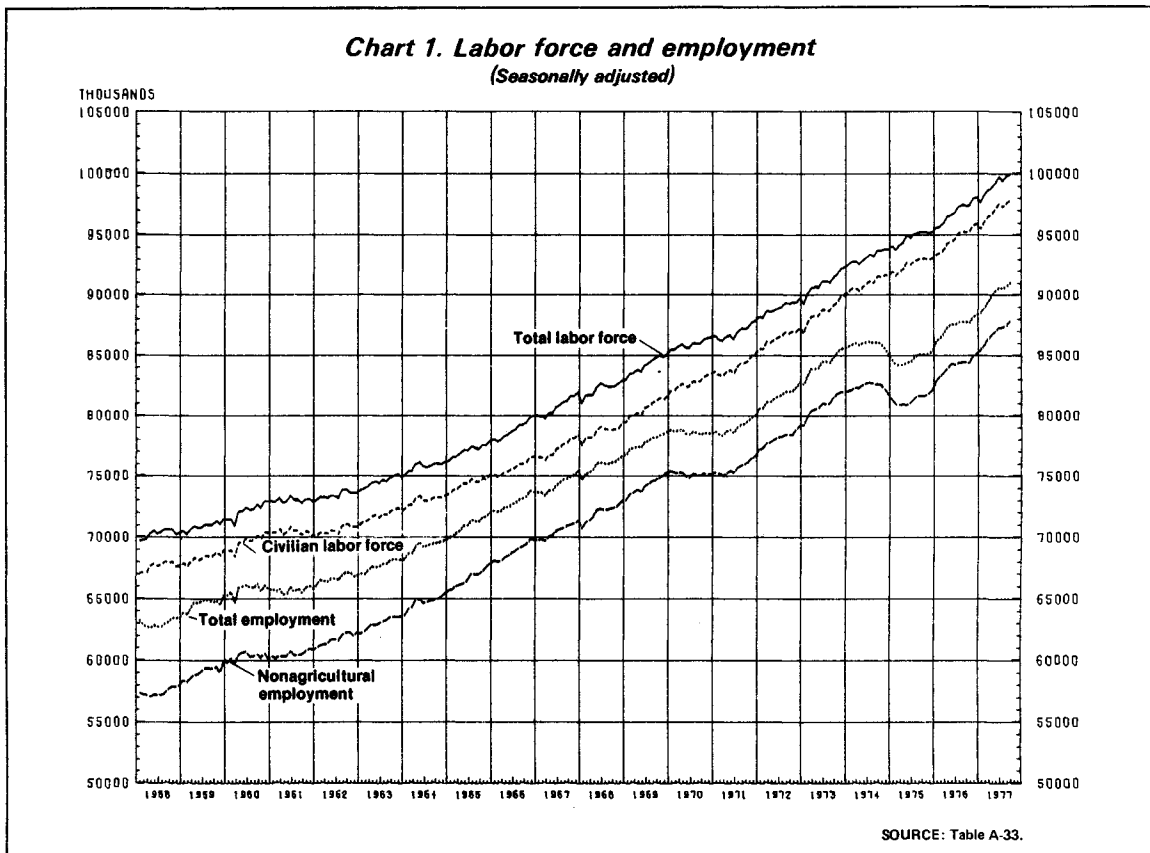
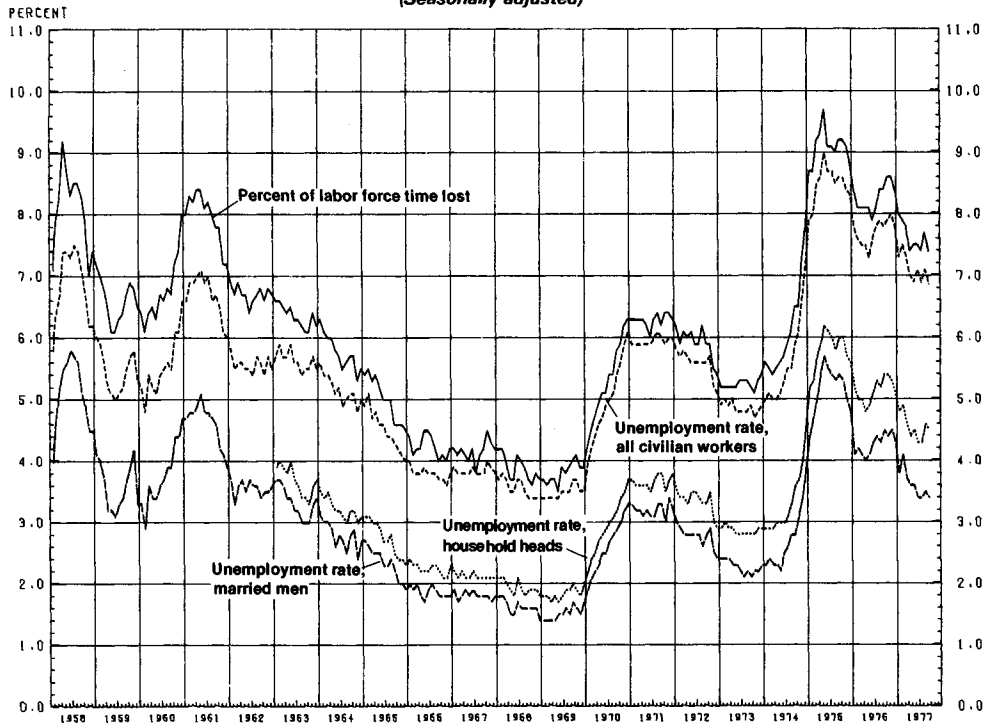
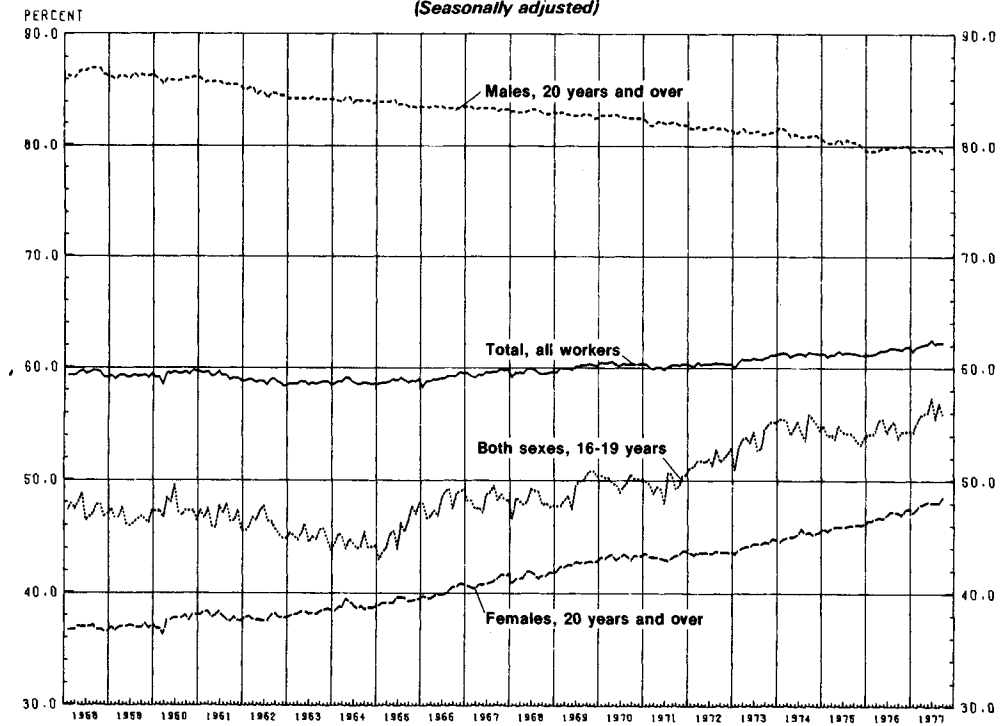


Chart 2. Major unemployment indicators
(Seasonally adjusted)



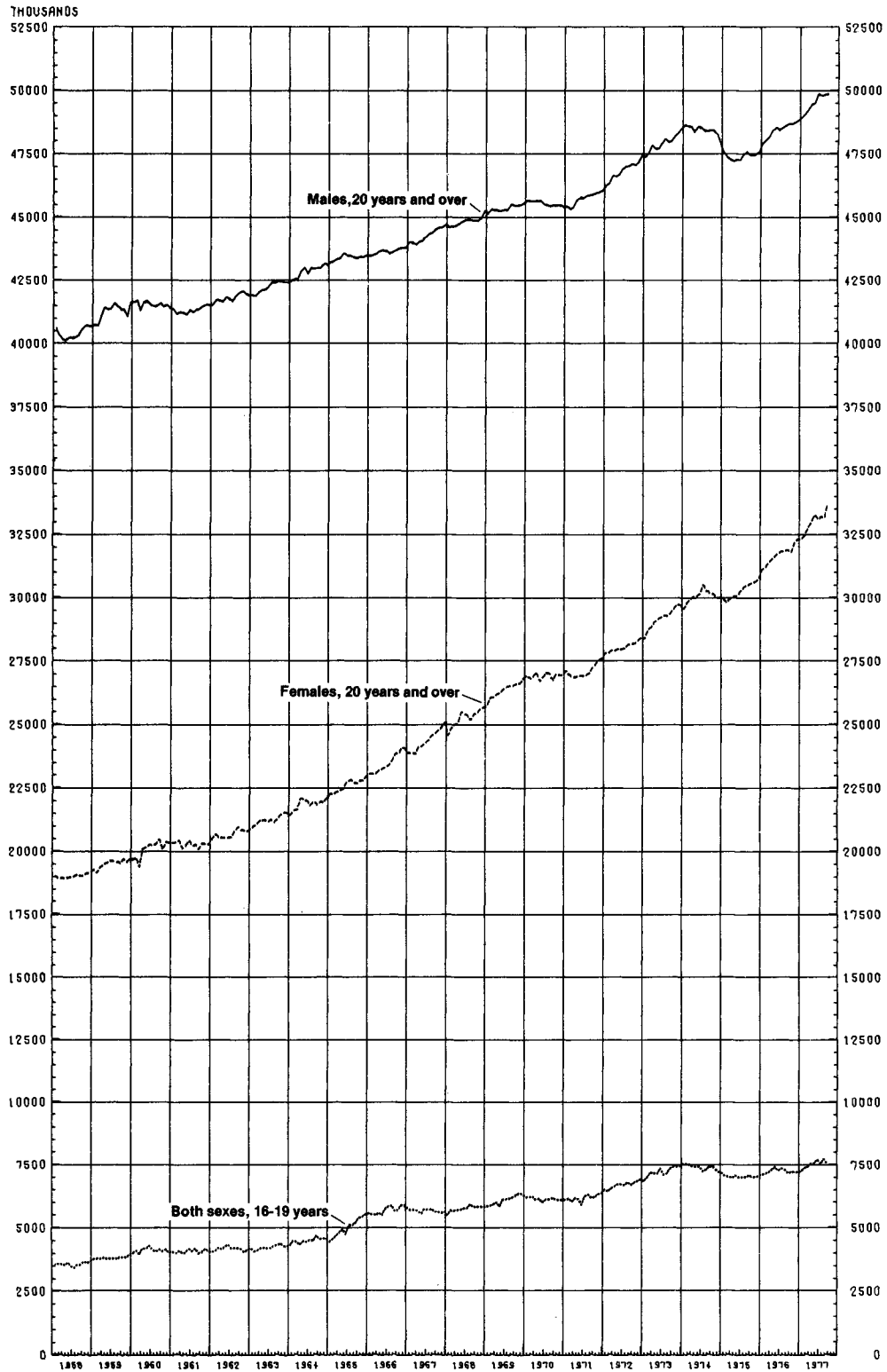
SOURCE: Table A-36.

Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

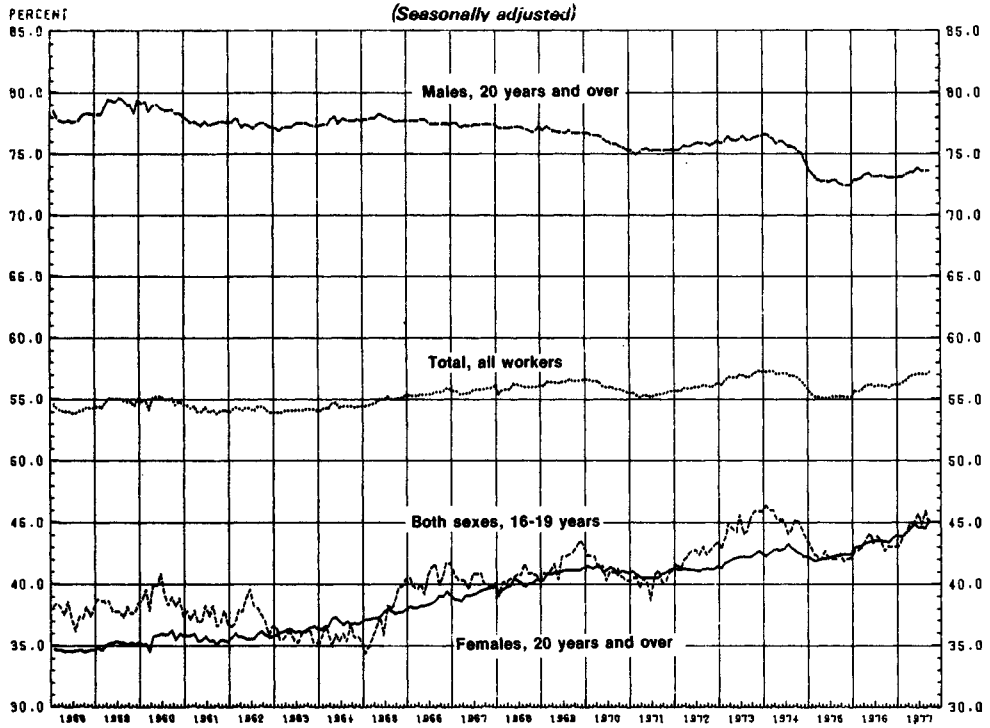
Chart 4. Total employment by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age

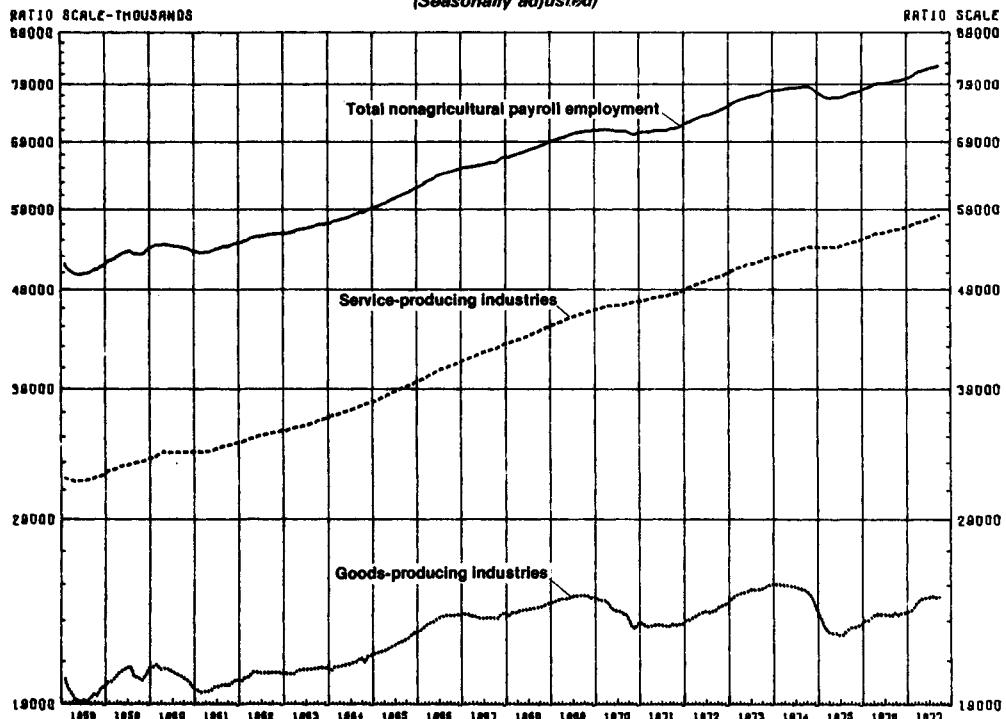
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 6. Payroll employment in goods- and service-producing industries

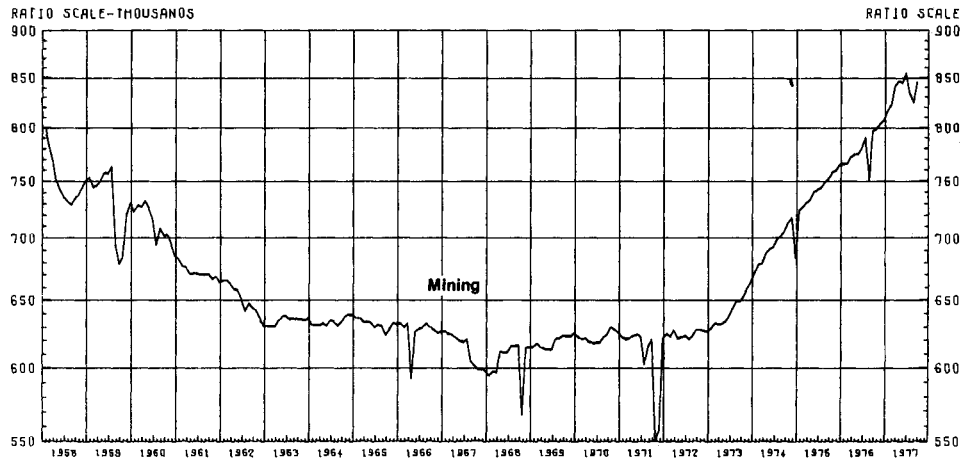
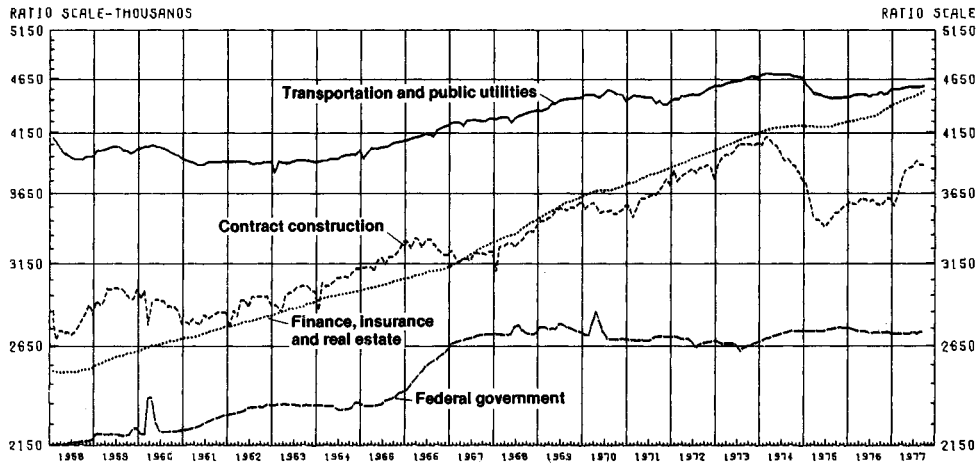
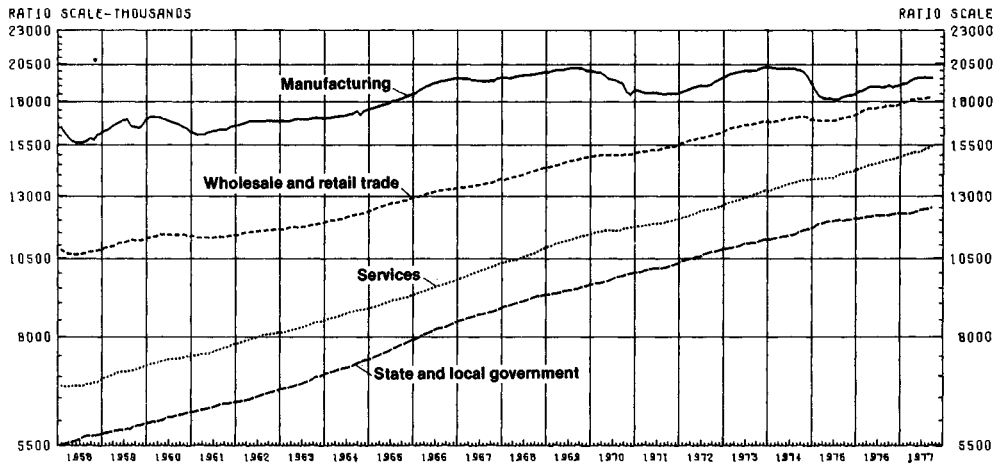
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

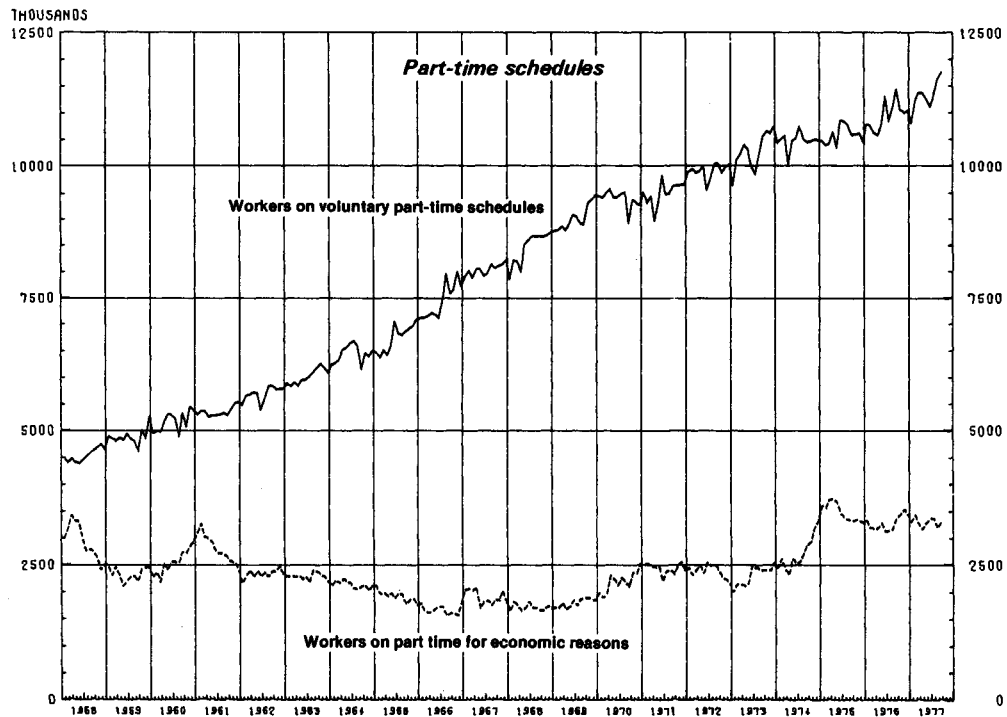
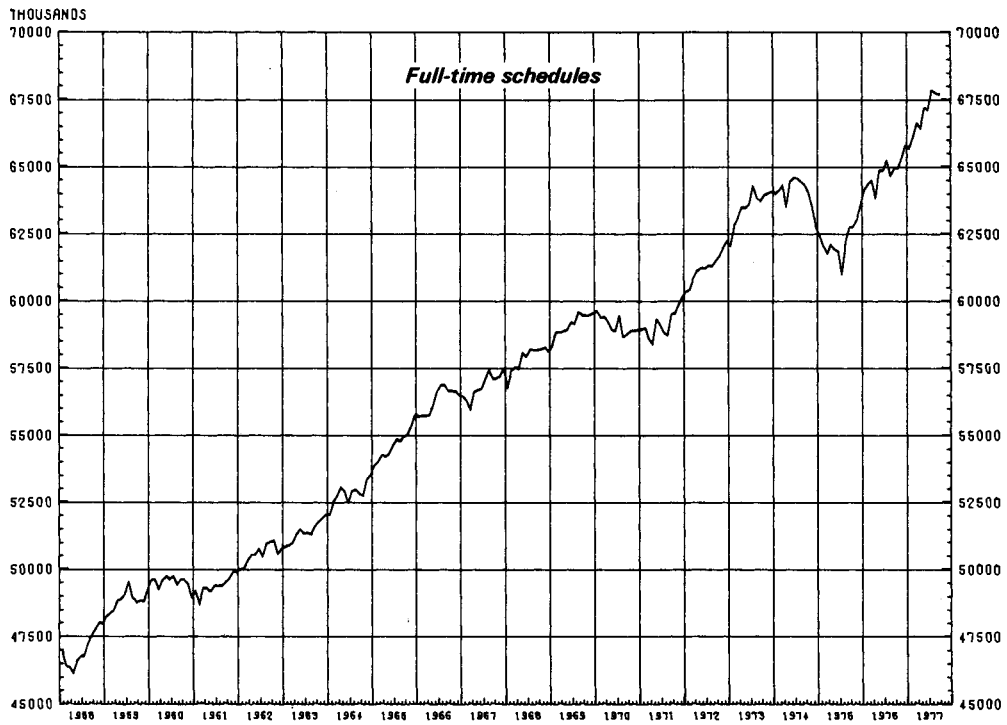
Chart 7. Nonagricultural payroll employment by industry
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

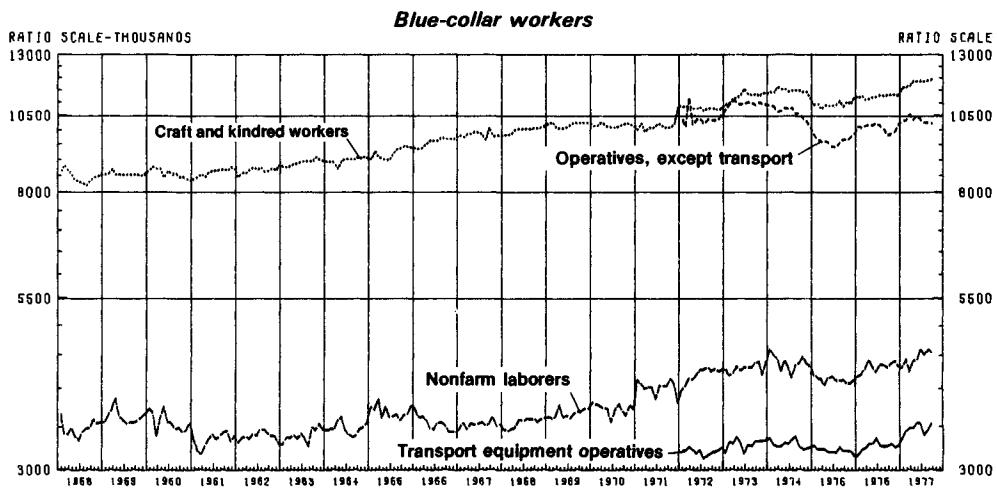
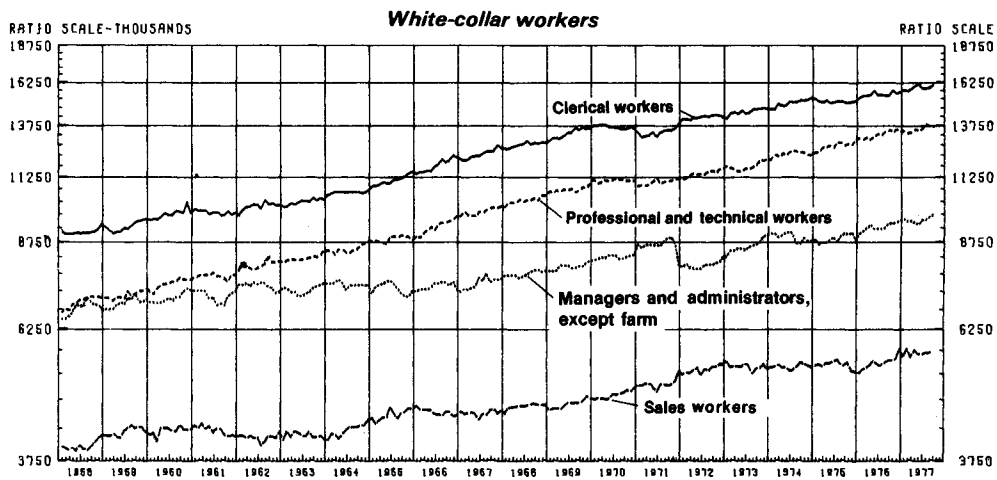
SOURCE: Table B-5.

**Chart 8. Persons at work full and part time
in nonagricultural industries
(Seasonally adjusted)**



SOURCE: Table A-42.

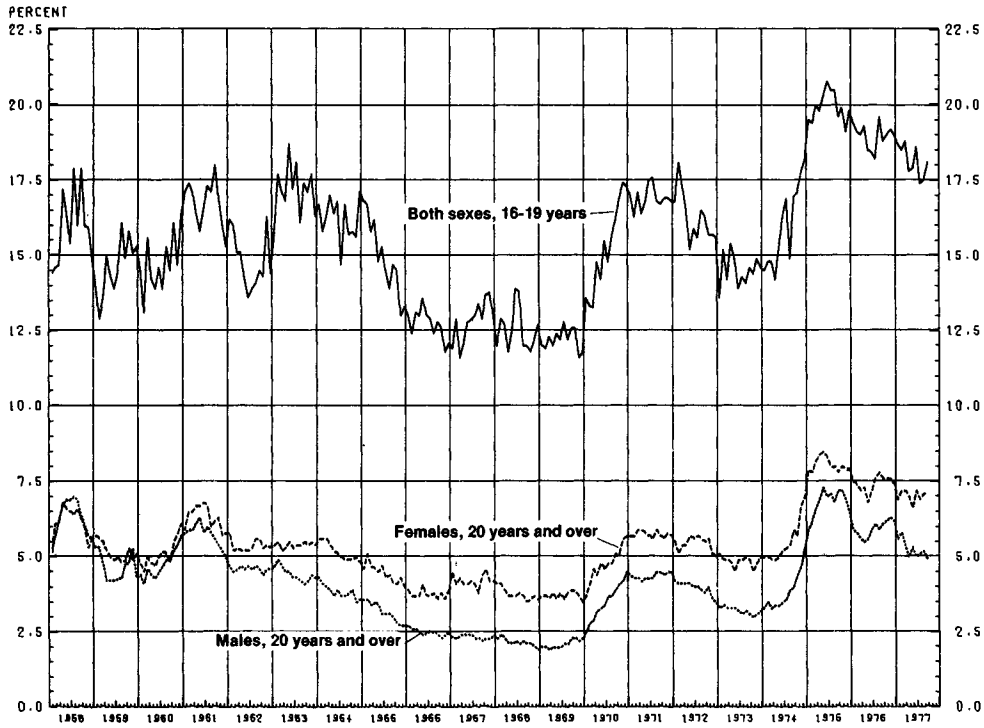
Chart 9. Employment in nonfarm occupations
(Seasonally adjusted)



NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

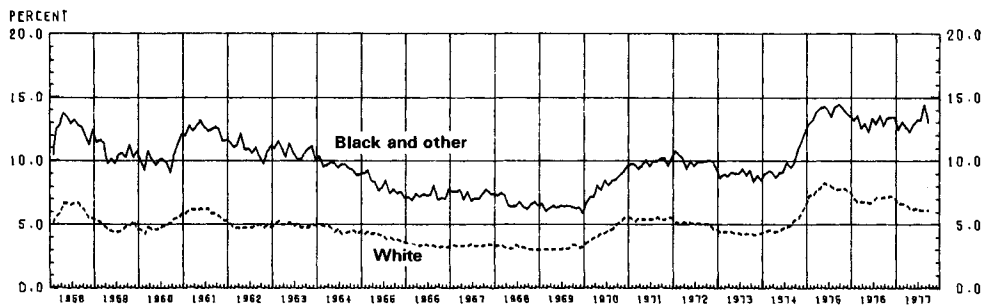
SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age
(Seasonally adjusted)

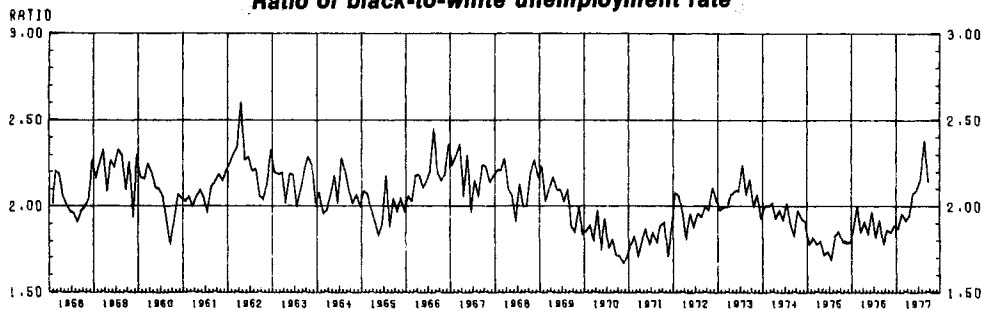


SOURCE: Table A-36.

Chart 11. Unemployment rates by race
(Seasonally adjusted)

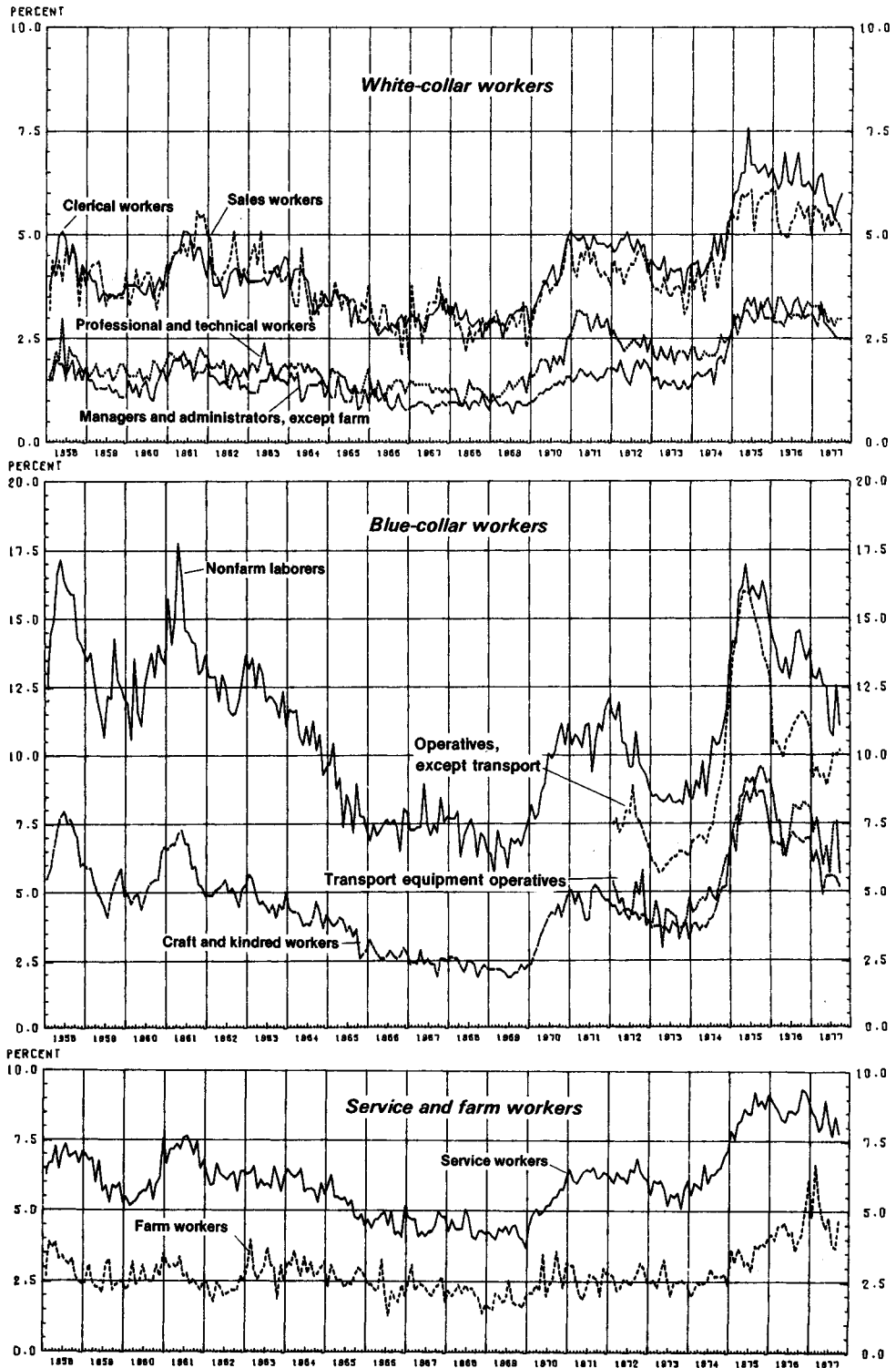


Ratio of black-to-white unemployment rate



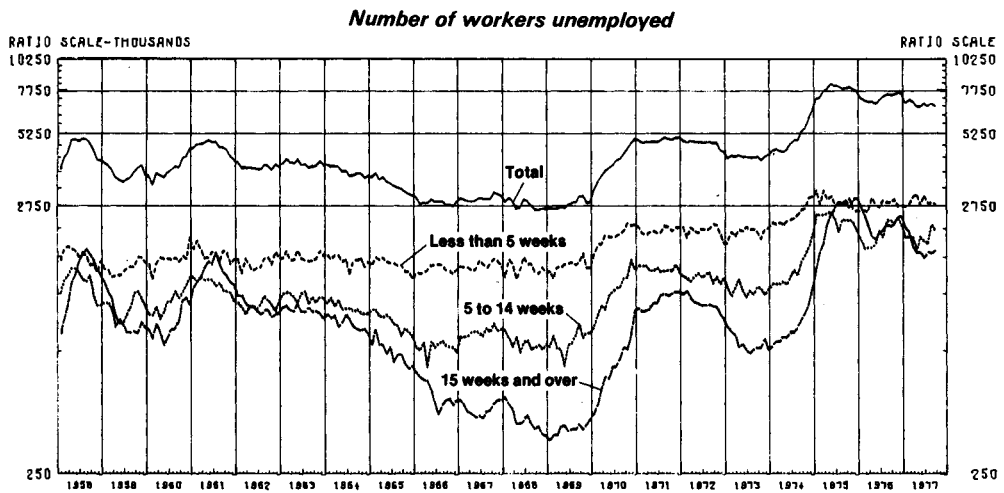
SOURCE: Table A-35.

Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

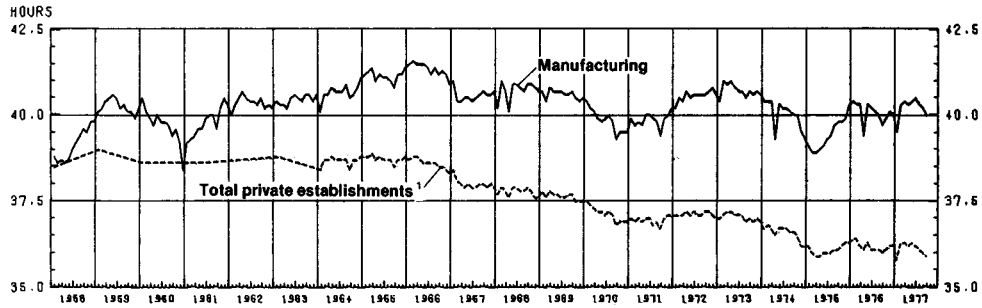
Chart 13. Duration of unemployment
(Seasonally adjusted)



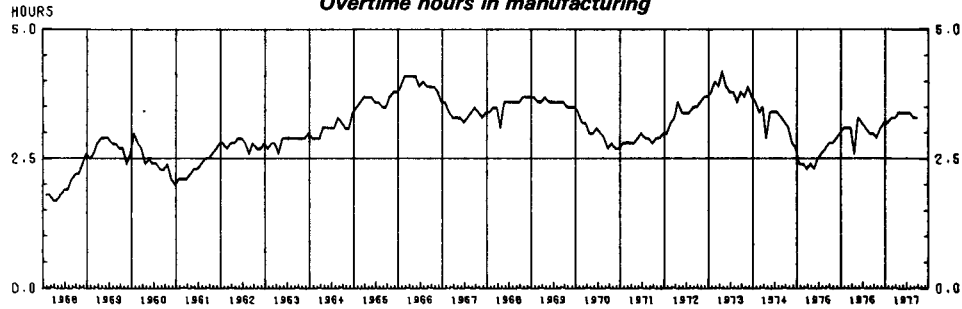
SOURCE: Table A-37.

Chart 14. Average weekly hours in nonagricultural industries

(Seasonally adjusted)



Overtime hours in manufacturing



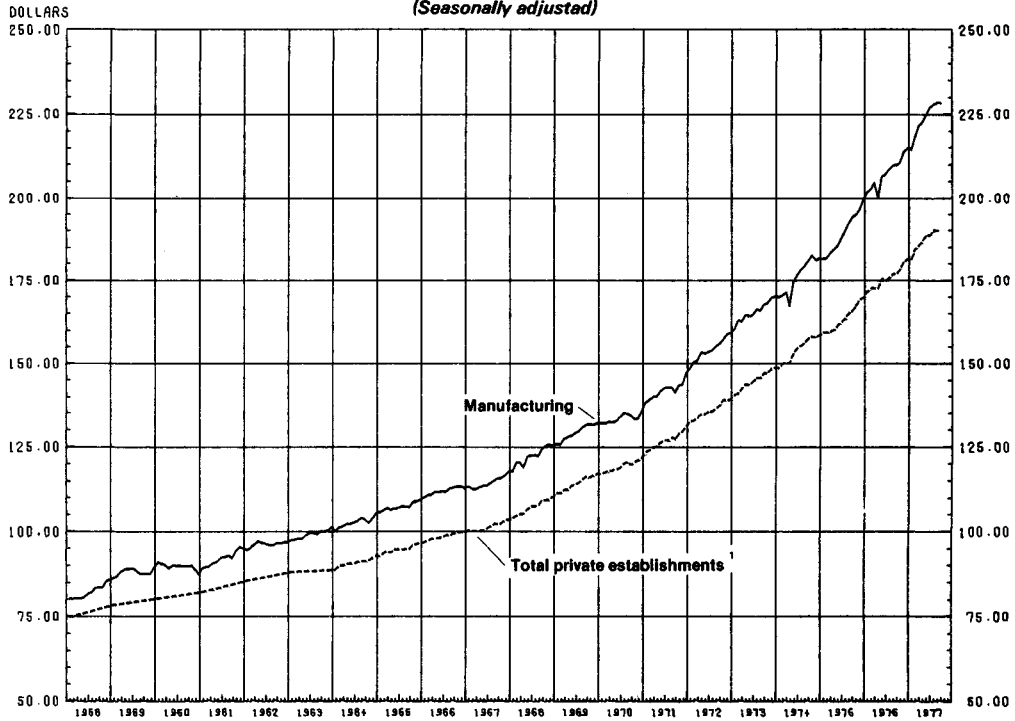
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

Chart 15. Average weekly earnings in nonagricultural industries

(Seasonally adjusted)



¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings
(Seasonally adjusted)

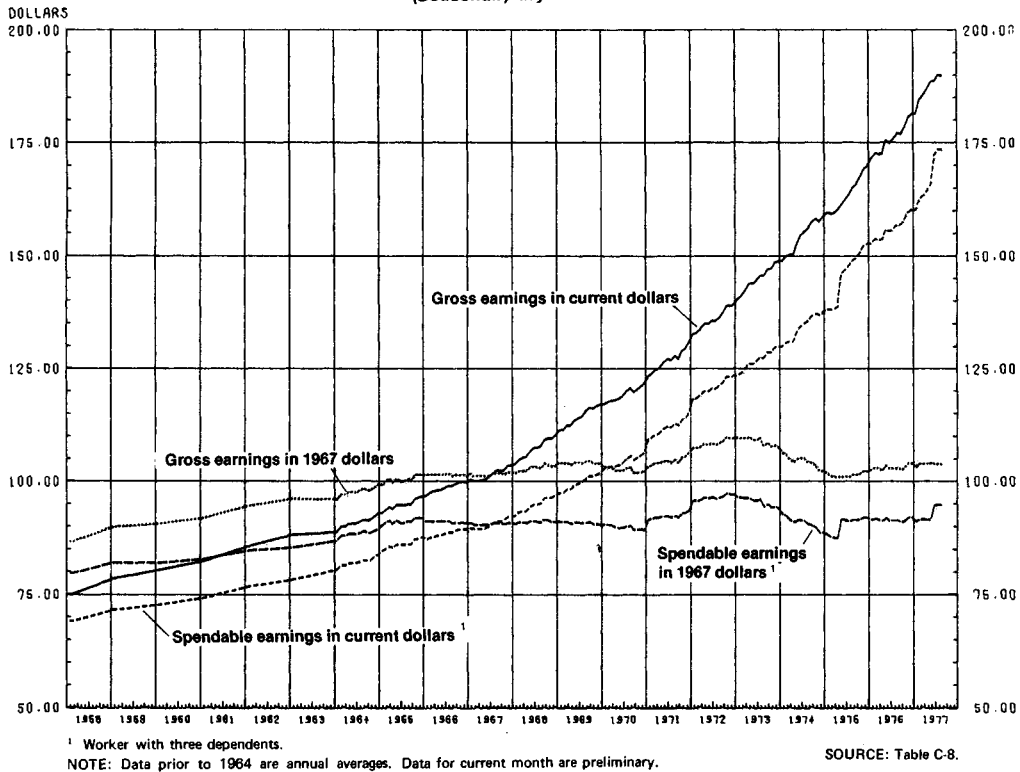
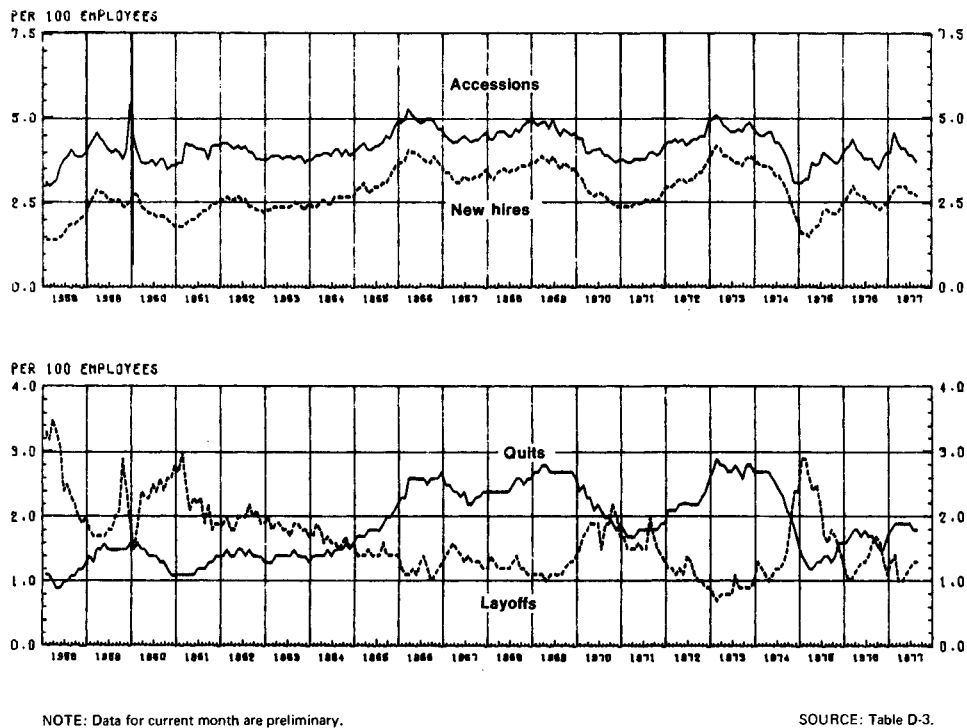


Chart 17. Labor turnover rates in manufacturing
(Seasonally adjusted)



**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1947 to date

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number		Percent of labor force
TOTAL										
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
Monthly data, seasonally adjusted²										
1976:										
September.....	156,595	97,387	62.2	95,242	87,794	3,278	84,516	7,448	7.8	59,209
October.....	156,788	97,449	62.2	95,302	87,738	3,310	84,428	7,564	7.9	59,340
November.....	157,006	98,020	62.4	95,871	88,220	3,248	84,972	7,651	8.0	58,986
December.....	157,176	98,106	62.4	96,960	88,441	3,257	85,184	7,519	7.8	59,071
1977:										
January.....	157,381	97,649	62.0	95,516	88,558	3,090	85,468	6,958	7.3	59,732
February.....	157,584	98,282	62.4	96,145	88,962	3,090	85,872	7,183	7.5	59,302
March.....	157,782	98,677	62.5	96,539	89,475	3,116	86,359	7,064	7.3	59,104
April.....	157,986	98,892	62.6	96,760	90,023	3,260	86,763	6,737	7.0	59,024
May.....	158,228	99,286	62.7	97,158	90,408	3,386	87,022	6,750	6.9	58,943
June.....	158,456	99,770	63.0	97,641	90,679	3,338	87,341	6,962	7.1	58,686
July.....	158,682	99,440	62.7	97,305	90,561	3,213	87,348	6,744	6.9	59,242
August.....	158,899	99,834	62.8	97,697	90,771	3,252	87,519	6,926	7.1	59,064
September.....	159,114	99,999	62.7	97,868	91,095	3,215	87,880	6,773	6.9	58,114

¹ Not strictly comparable with prior years due to the introduction of population adjustments in these years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

² Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

HOUSEHOLD DATA HISTORICAL

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
Monthly data, seasonally adjusted²										
1976:										
September.....	74,990	58,641	78.2	56,606	52,546	2,691	49,855	4,060	7.2	16,349
October.....	75,095	58,791	78.3	56,754	52,576	2,688	49,888	4,178	7.4	16,304
November.....	75,198	58,929	78.4	56,887	52,643	2,625	50,018	4,244	7.5	16,269
December.....	76,325	58,987	78.3	56,951	52,799	2,624	50,175	4,152	7.3	16,338
1977:										
January.....	75,422	58,654	77.8	56,632	52,918	2,548	50,370	3,714	6.6	16,768
February.....	75,519	58,976	78.1	56,950	53,046	2,546	50,500	3,904	6.9	16,543
March.....	75,610	59,007	78.0	56,982	53,270	2,544	50,726	3,712	6.5	16,603
April.....	75,706	59,060	78.0	57,041	53,575	2,626	50,949	3,466	6.1	16,646
May.....	75,823	59,346	78.3	57,331	53,722	2,724	50,998	3,609	6.3	16,477
June.....	75,932	59,581	78.5	57,567	53,987	2,698	51,289	3,580	6.2	16,351
July.....	76,041	59,457	78.2	57,438	53,900	2,624	51,276	3,538	6.2	16,584
August.....	76,144	59,588	78.2	57,567	53,958	2,675	51,283	3,609	6.3	16,556
September.....	76,246	59,419	77.7	57,405	53,966	2,650	51,316	3,439	6.0	16,827
FEMALES										
Annual averages										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972.....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
Monthly data, seasonally adjusted²										
1976:										
September.....	81,605	38,745	47.5	38,636	35,248	587	34,661	3,388	8.8	42,860
October.....	81,694	38,657	47.3	38,548	35,162	622	34,540	3,386	8.8	43,037
November.....	81,808	39,093	47.8	38,984	35,577	623	34,954	3,407	8.8	42,715
December.....	81,851	39,118	47.8	39,009	35,642	633	35,009	3,367	8.6	42,733
1977:										
January.....	81,959	38,995	47.6	38,884	35,640	542	35,098	3,244	8.3	42,964
February.....	82,065	39,306	47.9	39,195	35,916	544	35,372	3,279	8.4	42,759
March.....	82,172	39,671	48.3	39,557	36,205	572	35,633	3,352	8.5	42,501
April.....	82,280	39,832	48.4	39,719	36,448	634	35,814	3,271	8.2	42,448
May.....	82,405	39,940	48.5	39,827	36,686	662	36,024	3,141	7.9	42,465
June.....	82,524	40,190	48.7	40,074	36,692	640	36,052	3,382	8.4	42,334
July.....	82,642	39,983	48.4	39,867	36,661	589	36,072	3,206	8.0	42,659
August.....	82,755	40,246	48.6	40,130	36,813	577	36,236	3,317	8.3	42,509
September.....	82,868	40,581	49.0	40,463	37,129	565	36,564	3,334	8.2	42,287

¹ Not strictly comparable with prior years due to the introduction of population adjustments in these years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

² Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

HOUSEHOLD DATA

A-3. Employment status of the noninstitutional population by sex, age, and race

(Numbers in thousands)

Sex, age, and race	September 1977										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	59,209	77.7	57,195	54,256	2,940	5.1	17,037	321	4,469	1,790	10,458
16 to 21 years	8,379	65.8	7,679	6,539	1,140	14.8	4,352	15	3,758	35	544
16 to 19 years	4,991	58.7	4,667	3,881	786	16.8	3,510	11	3,080	13	406
16 to 17 years	2,002	47.1	1,969	1,611	358	18.2	2,246	8	2,068	3	167
18 to 19 years	2,989	70.3	2,699	2,271	428	15.9	1,264	3	1,012	10	239
20 to 64 years	52,331	89.4	50,641	48,573	2,068	4.1	6,175	127	1,389	1,290	3,369
20 to 24 years	8,562	85.7	7,815	7,074	740	9.5	1,425	5	1,060	57	303
25 to 54 years	36,726	94.2	35,785	34,666	1,119	3.1	2,242	73	322	683	1,163
25 to 29 years	8,268	94.6	7,895	7,501	394	5.0	470	9	219	58	184
30 to 34 years	7,322	96.5	7,078	6,811	267	3.8	268	9	49	81	129
35 to 39 years	5,797	96.2	5,604	5,469	135	2.4	228	6	19	73	130
40 to 44 years	5,156	95.2	5,064	4,950	114	2.3	261	11	19	100	131
45 to 49 years	5,139	92.6	5,106	5,009	97	1.9	408	19	10	159	220
50 to 54 years	5,045	89.3	5,038	4,926	113	2.2	607	18	6	213	369
55 to 64 years	7,043	73.7	7,041	6,833	208	3.0	2,509	49	8	550	1,902
55 to 59 years	4,336	83.0	4,335	4,214	121	2.8	889	26	1	272	590
60 to 64 years	2,707	62.6	2,707	2,619	87	3.2	1,620	23	6	278	1,313
65 years and over	1,887	20.4	1,887	1,801	86	4.5	7,352	182	--	487	6,683
65 to 69 years	1,104	30.0	1,104	1,042	62	5.6	2,578	63	--	158	2,356
70 years and over	783	14.1	783	759	24	3.1	4,774	118	--	329	4,327
White											
16 years and over	52,963	78.6	51,316	49,028	2,287	4.5	14,386	261	3,595	1,432	9,098
16 to 21 years	7,422	68.3	6,856	5,964	892	13.0	3,441	15	3,015	24	386
16 to 19 years	4,469	61.8	4,205	3,581	624	14.8	2,764	12	2,453	8	292
16 to 17 years	1,835	51.0	1,808	1,512	296	16.3	1,763	10	1,633	--	121
18 to 19 years	2,633	72.5	2,397	2,069	328	13.7	1,001	2	820	8	171
20 to 64 years	46,768	90.3	45,385	43,799	1,587	3.5	5,019	105	1,143	1,020	2,751
20 to 24 years	7,480	86.7	6,886	6,352	534	7.8	1,151	5	889	43	214
25 to 54 years	32,826	95.1	32,039	21,166	874	2.7	1,675	54	247	531	843
25 to 29 years	13,857	96.2	13,345	12,840	506	3.8	544	14	208	104	217
30 to 34 years	9,763	96.5	9,522	9,320	202	2.1	352	12	24	132	184
35 to 44 years	9,207	92.2	9,172	9,006	166	1.8	780	28	15	295	443
45 to 54 years	6,462	74.7	6,460	6,282	179	2.8	2,193	46	7	447	1,693
55 to 64 years	3,965	84.0	3,964	3,866	97	2.5	756	24	--	215	517
55 to 59 years	2,497	63.5	2,497	2,415	81	3.3	1,436	21	6	232	1,177
60 to 64 years	1,726	20.7	1,726	1,648	77	4.5	6,604	144	--	404	6,056
65 years and over	1,726	20.7	1,726	1,648	77	4.5	6,604	144	--	404	6,056
Black and other											
16 years and over	6,246	70.2	5,880	5,227	652	11.1	2,651	60	874	358	1,359
16 to 21 years	957	51.2	823	575	248	30.1	911	--	742	12	158
16 to 19 years	522	41.2	462	300	162	35.1	746	--	627	5	114
16 to 17 years	167	25.6	161	99	62	38.7	483	--	435	3	46
18 to 19 years	356	57.5	301	201	100	33.2	263	1	192	2	68
20 to 64 years	5,563	82.8	5,257	4,774	482	9.2	1,157	23	247	270	618
20 to 24 years	1,082	79.8	929	723	206	22.2	274	--	171	14	89
25 to 54 years	3,899	87.3	3,746	3,500	245	6.5	566	19	75	152	320
25 to 29 years	1,733	89.9	1,628	1,473	155	9.5	195	5	60	34	96
30 to 34 years	1,190	89.7	1,146	1,098	48	4.2	137	5	13	41	77
35 to 44 years	977	80.6	973	929	43	4.4	235	9	1	77	147
45 to 54 years	581	64.7	581	551	29	5.1	317	4	1	103	209
55 to 64 years	371	73.6	371	348	24	6.4	133	2	1	57	136
60 to 64 years	210	53.3	210	204	6	2.8	184	2	--	46	136
65 years and over	161	17.7	161	153	8	5.2	748	37	--	83	627

HOUSEHOLD DATA

A-3. Employment status of the noninstitutional population by sex, age, and race—Continued

[Numbers in thousands]

Sex, age, and race	September 1977										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	40,606	49.0	40,488	36,991	3,497	8.6	42,262	33,114	4,312	999	3,838
16 to 21 years	6,822	54.7	6,773	5,612	1,161	17.1	5,654	1,470	3,718	19	447
16 to 19 years	4,124	49.5	4,106	3,282	824	20.1	4,200	711	3,164	7	317
16 to 17 years	1,683	40.9	1,682	1,331	351	20.9	2,434	174	2,117	4	139
18 to 19 years	2,442	58.0	2,424	1,951	473	19.5	1,766	537	1,048	3	179
20 to 64 years	35,400	57.7	35,300	32,675	2,625	7.4	26,004	22,732	1,132	424	1,716
20 to 24 years	6,752	67.7	6,688	5,919	768	11.5	3,218	2,116	788	27	287
25 to 54 years	24,235	59.5	24,200	22,527	1,673	6.9	16,514	15,164	327	210	813
25 to 29 years	5,675	63.7	5,651	5,157	493	8.7	3,228	2,917	156	13	142
30 to 34 years	4,533	58.2	4,526	4,190	336	7.4	3,257	3,020	80	24	132
35 to 39 years	3,818	60.2	3,816	3,554	262	6.9	2,529	2,342	39	33	115
40 to 44 years	3,456	60.4	3,455	3,232	224	6.5	2,268	2,098	15	34	121
45 to 49 years	3,420	58.4	3,419	3,246	173	5.0	2,438	2,240	21	40	137
50 to 54 years	3,333	54.4	3,332	3,148	184	5.5	2,793	2,547	15	65	166
55 to 64 years	4,413	41.3	4,413	4,228	184	4.2	6,272	5,451	17	188	616
55 to 59 years	2,780	48.4	2,780	2,662	118	4.3	2,963	2,641	11	78	233
60 to 64 years	1,632	33.0	1,632	1,566	66	4.0	3,308	2,810	6	109	383
65 years and over	1,082	8.2	1,082	1,034	48	4.4	12,058	9,671	16	567	1,804
65 to 69 years	672	14.5	672	636	36	5.3	3,974	3,392	8	95	478
70 years and over	409	4.8	409	398	12	2.9	8,084	6,278	7	472	1,326
White											
16 years and over	35,161	48.5	35,066	32,366	2,700	7.7	37,278	29,697	3,453	809	3,318
16 to 21 years	6,054	57.4	6,014	5,143	871	14.5	4,497	1,169	2,973	9	346
16 to 19 years	3,701	52.7	3,686	3,054	632	17.1	3,328	567	2,521	4	236
16 to 17 years	1,564	45.1	1,564	1,275	288	18.4	1,901	133	1,672	1	94
18 to 19 years	2,137	60.0	2,122	1,779	344	16.2	1,427	434	849	3	141
20 to 64 years	30,506	57.0	30,426	28,401	2,026	6.7	22,974	20,277	917	321	1,459
20 to 24 years	5,830	68.8	5,779	5,246	533	9.2	2,647	1,761	645	19	222
25 to 54 years	20,738	58.6	20,710	19,380	1,331	6.4	14,638	13,541	258	155	683
25 to 34 years	8,611	59.9	8,587	7,948	639	7.4	5,767	5,321	181	29	236
35 to 44 years	6,241	59.8	6,238	5,840	398	6.4	4,190	3,899	47	46	199
45 to 54 years	5,886	55.7	5,885	5,592	293	5.0	4,680	4,322	30	80	248
55 to 64 years	3,937	40.9	3,937	3,775	162	4.1	5,689	4,974	13	147	554
55 to 59 years	2,477	48.0	2,477	2,376	100	4.1	2,684	2,411	8	59	207
60 to 64 years	1,461	32.7	1,461	1,398	62	4.3	3,005	2,563	6	88	348
65 years and over	954	8.0	954	911	43	4.5	10,977	8,853	16	485	1,624
Black and other											
16 years and over	5,445	52.2	5,422	4,625	797	14.7	4,983	3,417	858	189	519
16 to 21 years	768	39.9	759	469	290	38.2	1,157	302	745	10	100
16 to 19 years	423	32.7	420	228	192	45.7	872	144	643	3	82
16 to 17 years	118	18.2	118	55	63	53.3	533	41	445	3	45
18 to 19 years	305	47.3	302	173	129	42.8	339	103	199	--	37
20 to 64 years	4,894	61.8	4,874	4,274	600	12.3	3,031	2,455	215	104	257
20 to 24 years	922	61.7	909	673	236	25.9	572	355	143	9	65
25 to 54 years	3,497	65.1	3,490	3,148	342	9.8	1,876	1,624	69	54	129
25 to 34 years	1,596	69.0	1,590	1,400	190	12.0	718	617	56	7	39
35 to 44 years	1,034	63.0	1,033	945	88	8.5	607	541	7	22	36
45 to 54 years	867	61.1	866	803	64	7.4	551	465	6	25	55
55 to 64 years	475	44.9	475	454	22	4.6	583	477	3	41	62
55 to 59 years	303	52.1	303	285	18	5.9	279	229	3	20	27
60 to 64 years	172	36.1	172	168	4	2.2	304	247	--	21	35
65 years and over	128	10.6	128	123	5	4.0	1,080	818	--	82	180

A-4. Labor force by sex, age, and race

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
MALES								
16 years and over	58,338	59,209	77.8	77.7	56,302	57,195	77.2	77.0
16 to 19 years	4,834	4,991	56.9	58.7	4,493	4,667	55.1	57.1
16 to 17 years	1,890	2,002	44.7	47.1	1,856	1,969	44.2	46.7
18 to 19 years	2,944	2,989	69.0	70.3	2,636	2,699	66.6	68.1
20 to 24 years	8,367	8,562	85.4	85.7	7,611	7,815	84.2	84.6
25 to 54 years	36,201	36,726	94.5	94.2	35,265	35,785	94.4	94.1
25 to 34 years	15,135	15,590	95.7	95.5	14,525	14,973	95.5	95.3
35 to 44 years	10,723	10,953	95.8	95.7	10,434	10,668	95.7	95.6
45 to 54 years	10,344	10,183	91.6	90.9	10,305	10,144	91.5	90.9
55 to 64 years	7,063	7,043	75.2	73.7	7,061	7,041	75.2	73.7
55 to 59 years	4,278	4,336	84.0	83.0	4,276	4,335	84.0	83.0
60 to 64 years	2,785	2,707	64.8	62.6	2,785	2,707	64.8	62.6
65 years and over	1,873	1,887	20.8	20.4	1,873	1,887	20.8	20.4
White								
16 years and over	52,173	52,963	78.7	78.6	50,485	51,316	78.1	78.1
16 to 19 years	4,338	4,469	59.9	61.8	4,053	4,205	58.3	60.3
16 to 17 years	1,744	1,835	48.6	51.0	1,715	1,808	48.2	50.6
18 to 19 years	2,595	2,633	71.1	72.5	2,338	2,397	68.9	70.5
20 to 24 years	7,339	7,480	86.6	86.7	6,732	6,886	85.5	85.7
25 to 54 years	32,331	32,826	95.2	95.1	31,538	32,039	95.1	95.0
25 to 34 years	13,437	13,857	96.2	96.2	12,924	13,345	96.0	96.1
35 to 44 years	9,548	9,763	96.5	96.5	9,302	9,522	96.4	96.4
45 to 54 years	9,346	9,207	92.6	92.2	9,312	9,172	92.5	92.2
55 to 64 years	6,474	6,462	76.1	74.7	6,472	6,460	76.1	74.7
55 to 59 years	3,909	3,965	84.8	84.0	3,907	3,964	84.8	84.0
60 to 64 years	2,565	2,497	65.7	63.5	2,565	2,497	65.7	63.5
65 years and over	1,690	1,726	20.8	20.7	1,690	1,726	20.8	20.7
Black and other								
16 years and over	6,165	6,246	71.1	70.2	5,817	5,880	69.9	68.9
16 to 19 years	495	522	39.3	41.2	440	462	36.5	38.3
16 to 17 years	146	167	22.7	25.6	142	161	22.1	25.0
18 to 19 years	349	356	56.7	57.5	298	301	52.8	53.4
20 to 24 years	1,028	1,082	78.0	79.8	879	929	75.2	77.2
25 to 54 years	3,870	3,899	89.2	87.3	3,727	3,746	88.8	86.9
25 to 34 years	1,698	1,733	92.0	89.9	1,601	1,628	91.6	89.3
35 to 44 years	1,175	1,190	90.7	89.7	1,132	1,146	90.4	89.4
45 to 54 years	997	977	83.1	80.6	994	973	83.0	80.6
55 to 64 years	589	581	67.1	64.7	589	581	67.1	64.7
55 to 59 years	369	371	76.5	73.6	369	371	76.5	73.6
60 to 64 years	220	210	55.6	53.3	220	210	55.6	53.3
65 years and over	183	161	20.9	17.7	183	161	20.9	17.7

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A-4. Labor force by sex, age, and race—Continued

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
FEMALES								
16 years and over	38,782	40,606	47.5	49.0	38,673	40,488	47.5	48.9
16 to 19 years	3,964	4,124	47.6	49.5	3,945	4,106	47.5	49.4
16 to 17 years	1,576	1,683	38.4	40.9	1,575	1,682	38.4	40.9
18 to 19 years	2,388	2,442	56.7	58.0	2,369	2,424	56.5	57.9
20 to 24 years	6,335	6,752	64.8	67.7	6,275	6,688	64.6	67.5
25 to 54 years	23,117	24,235	57.7	59.5	23,088	24,200	57.6	59.4
25 to 34 years	9,434	10,208	58.3	61.1	9,409	10,177	58.2	61.1
35 to 44 years	6,955	7,275	58.9	60.3	6,952	7,272	58.9	60.3
45 to 54 years	6,728	6,752	55.6	56.3	6,727	6,751	55.6	56.3
55 to 64 years	4,300	4,413	40.9	41.3	4,300	4,413	40.9	41.3
55 to 59 years	2,721	2,780	48.5	48.4	2,721	2,780	48.5	48.4
60 to 64 years	1,579	1,632	32.1	33.0	1,579	1,632	32.1	33.0
65 years and over	1,065	1,082	8.3	8.2	1,065	1,082	8.3	8.2
White								
16 years and over	33,723	35,161	47.2	48.5	33,634	35,066	47.1	48.5
16 to 19 years	3,588	3,701	51.0	52.7	3,572	3,686	50.9	52.6
16 to 17 years	1,477	1,564	42.7	45.1	1,476	1,564	42.6	45.1
18 to 19 years	2,112	2,137	59.0	60.0	2,096	2,122	58.9	59.8
20 to 24 years	5,504	5,830	66.1	68.8	5,455	5,779	65.9	68.6
25 to 54 years	19,866	20,738	57.0	58.6	19,841	20,710	56.9	58.6
25 to 34 years	7,979	8,611	57.1	59.9	7,958	8,587	57.1	59.8
35 to 44 years	5,957	6,241	58.4	59.8	5,954	6,238	58.4	59.8
45 to 54 years	5,930	5,886	55.4	55.7	5,929	5,885	55.4	55.7
55 to 64 years	3,824	3,937	40.3	40.9	3,824	3,937	40.3	40.9
55 to 59 years	2,425	2,477	48.1	48.0	2,425	2,477	48.1	48.0
60 to 64 years	1,399	1,461	31.5	32.7	1,399	1,461	31.5	32.7
65 years and over	941	954	8.0	8.0	941	954	8.0	8.0
Black and other								
16 years and over	5,058	5,445	49.9	52.2	5,039	5,422	49.8	52.1
16 to 19 years	376	423	29.3	32.7	373	420	29.2	32.5
16 to 17 years	99	118	15.4	18.2	99	118	15.4	18.2
18 to 19 years	276	305	43.5	47.3	274	302	43.3	47.1
20 to 24 years	831	922	57.5	61.7	819	909	57.1	61.4
25 to 54 years	3,252	3,497	62.4	65.1	3,247	3,490	62.4	65.0
25 to 34 years	1,456	1,596	65.7	69.0	1,451	1,590	65.6	68.9
35 to 44 years	998	1,034	62.5	63.0	997	1,033	62.5	63.0
45 to 54 years	798	867	57.0	61.1	798	866	57.0	61.1
55 to 64 years	477	475	46.1	44.9	477	475	46.1	44.9
55 to 59 years	296	303	52.9	52.1	296	303	52.9	52.1
60 to 64 years	180	172	38.1	36.1	180	172	38.1	36.1
65 years and over	124	128	10.6	10.6	124	128	10.6	10.6

A-5. Employment status of black workers by sex and age

[Numbers in thousands]

Sex and age	September 1977						Not in labor force
	Civilian labor force					Percent of labor force	
	Total	Employed		Unemployed			
Total		Agri-culture	Nonagri-cultural industries	Number			
Total							
16 years and over	9,735	8,382	205	8,177	1,352	13.9	6,670
16 to 19 years	779	442	22	420	337	43.3	1,470
16 to 17 years	239	118	10	109	120	50.5	937
18 to 19 years	540	324	12	312	216	40.1	533
20 to 24 years	1,602	1,184	23	1,161	419	26.1	707
25 to 54 years	6,153	5,613	111	5,501	540	9.6	2,806
25 to 34 years	2,703	2,387	40	2,347	316	11.7	738
35 to 44 years	1,876	1,750	37	1,713	126	6.7	630
45 to 54 years	1,574	1,476	35	1,441	98	6.2	685
55 to 64 years	936	893	29	865	42	4.5	818
55 to 59 years	602	569	15	554	33	5.4	377
60 to 64 years	334	325	14	310	10	2.9	441
65 years and over	265	251	20	231	14	5.3	1,623
Males							
16 years and over	5,068	4,458	168	4,290	610	12.0	2,306
16 to 19 years	405	253	22	231	152	37.5	673
16 to 17 years	143	83	9	74	60	42.1	446
18 to 19 years	262	170	13	157	92	35.0	227
20 to 24 years	825	624	20	604	201	24.3	213
25 to 54 years	3,186	2,961	86	2,874	225	7.6	481
25 to 34 years	1,359	1,219	33	1,186	140	10.3	162
35 to 44 years	983	938	22	916	45	4.6	120
45 to 54 years	843	804	31	773	39	4.7	199
55 to 64 years	505	481	22	459	24	4.8	295
55 to 59 years	325	307	13	295	18	5.6	127
60 to 64 years	180	174	10	164	6	3.2	169
65 years and over	148	139	18	121	9	6.0	643
Females							
16 years and over	4,667	3,924	37	3,887	742	15.9	4,364
16 to 19 years	374	189	--	189	185	49.5	796
16 to 17 years	95	35	1	35	60	63.1	491
18 to 19 years	278	153	--	154	125	44.8	306
20 to 24 years	778	560	3	557	218	28.0	494
25 to 54 years	2,968	2,652	26	2,626	315	11.9	1,571
25 to 34 years	1,343	1,168	7	1,160	176	13.1	576
35 to 44 years	893	812	15	797	81	9.1	510
45 to 54 years	731	672	4	669	59	8.1	486
55 to 64 years	430	412	7	406	18	4.2	522
55 to 59 years	276	262	2	260	15	5.3	250
60 to 64 years	154	151	5	146	4	2.4	272
65 years and over	117	112	2	110	5	4.4	980

NOTE: According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

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A-6. Employment status of the noninstitutional population by sex, age, and race

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
TOTAL								
Total noninstitutional population	156,595	159,114	66,491	67,745	73,286	74,543	16,819	16,825
Total labor force	97,120	99,815	53,504	54,218	34,818	36,482	8,798	9,115
Percent of population	62.0	62.7	80.5	80.0	47.5	48.9	52.3	54.2
Civilian labor force	94,975	97,684	51,810	52,528	34,728	36,382	8,438	8,773
Employed	87,949	91,247	49,172	50,374	31,943	33,709	6,834	7,163
Agriculture	3,396	3,326	2,405	2,406	560	529	430	391
Nonagricultural industries	84,553	87,921	46,766	47,969	31,383	33,180	6,404	6,772
Unemployed	7,026	6,437	2,638	2,154	2,785	2,673	1,603	1,610
Percent of labor force	7.4	6.6	5.1	4.1	8.0	7.3	19.0	18.3
Not in labor force	59,476	59,299	12,987	13,527	38,468	38,062	8,021	7,710
White								
Total noninstitutional population	137,782	139,789	59,076	60,117	64,429	65,411	14,277	14,261
Total labor force	85,896	88,124	47,834	48,494	30,135	31,460	7,927	8,170
Percent of population	62.3	63.0	81.0	80.7	46.8	48.1	55.5	57.3
Civilian labor force	84,119	86,382	46,432	47,111	30,062	31,380	7,625	7,891
Employed	78,452	81,394	44,248	45,447	27,849	29,312	6,355	6,635
Agriculture	3,134	3,076	2,188	2,227	540	479	406	369
Nonagricultural industries	75,318	78,318	42,060	43,219	27,309	28,833	5,949	6,266
Unemployed	5,667	4,988	2,184	1,664	2,213	2,069	1,270	1,255
Percent of labor force	6.7	5.8	4.7	3.5	7.4	6.6	16.7	15.9
Not in labor force	51,886	51,665	11,242	11,623	34,294	33,951	6,350	6,091
Black and other								
Total noninstitutional population	18,813	19,325	7,414	7,629	8,857	9,133	2,542	2,564
Total labor force	11,224	11,691	5,670	5,724	4,683	5,022	871	945
Percent of population	59.7	60.5	76.5	75.0	52.9	55.0	34.3	36.9
Civilian labor force	10,856	11,302	5,377	5,418	4,666	5,002	813	882
Employed	9,497	9,853	4,923	4,927	4,094	4,397	479	528
Agriculture	262	250	217	178	21	50	24	22
Nonagricultural industries	9,235	9,603	4,707	4,749	4,073	4,347	455	506
Unemployed	1,359	1,449	454	490	572	605	334	354
Percent of labor force	12.5	12.8	8.4	9.0	12.3	12.1	41.0	40.2
Not in labor force	7,589	7,634	1,744	1,905	4,174	4,111	1,671	1,618

A-7. Employment status of the noninstitutional population 16-21 years of age by race and sex

[Numbers in thousands]

Employment status	September 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,207	12,731	12,476	21,414	10,863	10,551	3,793	1,868	1,925
Total labor force	15,201	8,379	6,822	13,476	7,422	6,054	1,724	957	768
Percent of population	60.3	65.8	54.7	62.9	68.3	57.4	45.5	51.2	39.9
Civilian labor force	14,453	7,679	6,773	12,870	6,856	6,014	1,582	823	759
Employed	12,151	6,539	5,612	11,107	5,964	5,143	1,044	575	469
Agriculture	579	483	96	547	452	95	32	31	--
Nonagricultural industries	11,573	6,056	5,517	10,560	5,512	5,048	1,013	544	469
Unemployed	2,301	1,140	1,161	1,763	892	871	538	248	290
Percent of labor force	15.9	14.8	17.1	13.7	13.0	14.5	34.0	30.1	38.2
Looking for full-time work	1,306	672	634	956	509	447	350	163	187
Looking for part-time work	995	468	527	807	383	424	188	85	103
Not in labor force	10,006	4,352	5,654	7,938	3,441	4,497	2,068	911	1,157
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	3,872	2,030	1,842	3,517	1,847	1,670	355	183	172
Employed	2,993	1,574	1,419	2,816	1,483	1,333	177	91	86
Agriculture	153	125	28	148	120	28	5	5	--
Nonagricultural industries	2,839	1,449	1,391	2,668	1,363	1,305	171	85	86
Unemployed	879	457	423	701	364	336	178	92	86
Percent of labor force	22.7	22.5	23.0	19.9	19.7	20.2	50.3	50.4	50.1
Looking for full-time work	55	27	28	32	17	15	23	10	13
Looking for part-time work	824	429	395	669	347	321	155	82	74
Not in labor force	7,476	3,758	3,718	5,988	3,015	2,973	1,488	742	745
MAJOR ACTIVITY: OTHER									
Civilian labor force	10,581	5,649	4,932	9,353	5,009	4,345	1,227	640	587
Employed	9,159	4,966	4,193	8,291	4,481	3,810	868	484	383
Agriculture	425	358	67	399	332	67	26	26	1
Nonagricultural industries	8,734	4,608	4,126	7,892	4,149	3,743	841	458	383
Unemployed	1,422	684	739	1,062	528	535	360	156	204
Percent of labor force	13.4	12.1	15.0	11.4	10.5	12.3	29.3	24.4	34.7
Looking for full-time work	1,251	645	607	924	492	432	327	152	175
Looking for part-time work	171	39	132	138	35	103	33	4	29
Not in labor force	2,531	594	1,936	1,950	425	1,524	581	169	412

A-8. Full- and part-time status of the civilian labor force by sex, age, and race

(Numbers in thousands)

Race, sex, and age	September 1977								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full- time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over	83,103	75,048	3,237	4,818	5.8	14,581	12,962	1,619	11.1
16 to 21 years	9,174	7,001	867	1,306	14.2	5,278	4,284	995	18.8
16 to 19 years	4,556	3,217	572	767	16.8	4,217	3,374	843	20.0
16 to 17 years	810	524	144	142	17.5	2,840	2,273	567	20.0
18 to 19 years	3,746	2,693	428	625	16.7	1,377	1,101	276	20.0
20 years and over	78,546	71,831	2,665	4,051	5.2	10,364	9,588	776	7.5
20 to 24 years	12,523	10,609	666	1,248	10.0	1,980	1,719	261	13.2
25 years and over	66,023	61,222	1,999	2,803	4.2	8,384	7,869	515	6.1
25 to 54 years	54,410	50,385	1,604	2,421	4.4	5,575	5,204	371	6.7
55 years and over	11,613	10,836	395	382	3.3	2,810	2,665	144	5.1
Males, 16 years and over	52,260	48,488	1,455	2,318	4.4	4,935	4,313	622	12.6
16 to 21 years	5,089	4,010	407	672	13.2	2,950	2,122	468	18.1
16 to 19 years	2,525	1,892	269	364	14.4	2,142	1,720	421	19.7
20 years and over	49,735	46,595	1,186	1,953	3.9	2,793	2,593	200	7.2
20 to 24 years	7,005	6,054	297	653	9.3	810	723	87	10.7
25 years and over	42,730	40,541	889	1,300	3.0	1,983	1,870	113	5.7
25 to 54 years	35,063	33,286	705	1,071	3.1	722	675	48	6.6
55 years and over	7,667	7,255	184	229	3.0	1,261	1,195	66	5.2
Females, 16 years and over	30,843	26,561	1,782	2,500	8.1	9,646	8,648	997	10.3
16 to 21 years	4,085	2,991	460	634	15.5	2,688	2,162	527	19.6
16 to 19 years	2,031	1,325	303	403	19.8	2,075	1,654	421	20.3
20 years and over	28,812	25,235	1,479	2,097	7.3	7,571	6,995	576	7.6
20 to 24 years	5,518	4,555	369	594	10.8	1,170	996	174	14.9
25 years and over	23,294	20,680	1,110	1,503	6.5	6,401	5,999	402	6.3
25 to 54 years	19,348	17,100	900	1,349	7.0	4,852	4,529	323	6.7
55 years and over	3,946	3,582	211	153	3.9	1,549	1,470	79	5.1
White									
Males, 16 years and over	46,864	43,904	1,176	1,784	3.8	4,451	3,948	504	11.3
16 to 21 years	4,476	3,631	336	509	11.4	2,380	1,997	383	16.1
16 to 19 years	2,248	1,735	229	284	12.6	1,956	1,617	339	17.3
20 years and over	44,616	42,169	947	1,499	3.4	2,495	2,331	164	6.6
20 to 24 years	6,134	5,434	239	461	7.5	752	679	73	9.7
25 years and over	38,482	36,735	708	1,038	2.7	1,743	1,652	91	5.2
25 to 54 years	31,427	30,034	549	844	2.7	612	583	29	4.7
55 years and over	7,054	6,702	159	194	2.8	1,131	1,070	63	5.6
Females, 16 years and over	26,359	23,041	1,457	1,860	7.1	8,707	7,867	840	9.6
16 to 21 years	3,579	2,717	415	447	12.5	2,435	2,011	424	17.4
16 to 19 years	1,794	1,210	292	292	16.3	1,892	1,552	340	18.0
20 years and over	24,564	21,831	1,165	1,568	6.4	6,816	6,315	500	7.3
20 to 24 years	4,745	4,049	301	395	8.3	1,033	896	138	13.3
25 years and over	19,819	17,782	864	1,173	5.9	5,783	5,419	362	6.3
25 to 54 years	16,280	14,552	691	1,037	6.4	4,430	4,137	294	6.6
55 years and over	3,539	3,230	173	136	3.8	1,352	1,283	69	5.1
Black and other									
Males, 16 years and over	5,396	4,583	278	534	9.9	484	366	118	24.4
16 to 21 years	613	379	71	163	26.5	210	125	85	40.6
16 to 19 years	277	157	39	80	28.9	185	103	82	44.3
20 years and over	5,119	4,426	239	454	8.9	299	263	36	12.1
20 to 24 years	871	621	58	192	22.1	58	44	14	(2)
25 years and over	4,248	3,805	181	262	6.2	241	219	22	9.1
25 to 54 years	3,635	3,252	156	227	6.2	111	92	18	16.2
55 years and over	613	554	25	34	5.5	129	126	3	2.3
Females, 16 years and over	4,484	3,519	325	640	14.3	938	781	157	16.7
16 to 21 years	506	274	45	187	37.0	253	150	103	40.6
16 to 19 years	237	115	11	111	46.8	184	102	82	44.4
20 years and over	4,247	3,404	314	529	12.5	755	679	76	10.0
20 to 24 years	773	506	67	199	25.8	136	100	36	26.6
25 years and over	3,474	2,898	247	330	9.5	619	579	40	6.5
25 to 54 years	3,069	2,548	208	312	10.2	422	392	30	7.1
55 years and over	406	350	38	18	4.4	196	187	9	4.6

¹ Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

² Percent not shown where base is less than 75,000.

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A-9. Unemployed persons by sex and age

Age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total, 16 years and over	3,469	2,940	6.2	5.1	3,558	3,497	9.2	8.6
16 to 19 years	830	786	18.5	16.8	773	824	19.6	20.1
16 to 17 years	377	358	20.3	18.2	317	351	20.1	20.9
18 to 19 years	453	428	17.2	15.9	456	473	19.3	19.5
20 years and over	2,638	2,154	5.1	4.1	2,785	2,673	8.0	7.3
20 to 24 years	804	740	10.6	9.5	778	768	12.4	11.5
25 years and over	1,834	1,413	4.1	3.2	2,007	1,905	7.1	6.4
25 to 34 years	774	661	5.3	4.4	917	830	9.7	8.2
35 to 44 years	371	249	3.6	2.3	476	486	6.9	6.7
45 to 54 years	346	209	3.4	2.1	357	357	5.3	5.3
55 to 64 years	265	208	3.7	3.0	207	184	4.8	4.2
55 to 59 years	164	121	3.8	2.8	139	118	5.1	4.3
60 to 64 years	100	87	3.6	3.2	68	66	4.3	4.0
65 years and over	78	86	4.2	4.5	50	48	4.7	4.4
Household heads, 16 years and over	1,783	1,364	3.9	3.0	681	726	7.8	7.8
16 to 24 years	284	231	6.9	5.4	138	168	11.4	12.2
25 to 54 years	1,176	856	3.6	2.6	443	441	8.3	7.7
55 years and over	323	277	3.7	3.2	101	119	4.7	5.5

A-10. Unemployed persons by marital status, sex, age, and race

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total, 16 years and over	3,469	2,940	6.2	5.1	3,558	3,497	9.2	8.6
Married, spouse present	1,430	1,066	3.6	2.7	1,769	1,597	7.9	6.9
Widowed, divorced, or separated	314	244	8.1	5.8	602	585	8.6	7.9
Single (never married)	1,724	1,630	13.9	12.4	1,187	1,315	12.8	13.1
White, 16 years and over	2,840	2,287	5.6	4.5	2,827	2,700	8.4	7.7
Married, spouse present	1,246	879	3.4	2.4	1,521	1,375	7.6	6.7
Widowed, divorced, or separated	251	191	7.9	5.6	447	426	8.0	7.2
Single (never married)	1,343	1,217	12.4	10.6	859	899	10.8	10.5
Black and other, 16 years and over	628	652	10.8	11.1	731	797	14.5	14.7
Married, spouse present	184	186	5.2	5.5	249	222	10.7	9.2
Widowed, divorced, or separated	63	54	8.6	7.0	155	159	11.1	10.7
Single (never married)	381	412	24.8	24.2	328	416	24.9	27.4
Total, 20 to 64 years of age	2,560	2,068	5.1	4.1	3,735	2,625	8.1	7.4
Married, spouse present	1,341	982	3.5	2.6	1,667	1,482	7.7	6.7
Widowed, divorced, or separated	300	226	8.2	5.7	551	533	8.7	7.9
Single (never married)	920	859	11.4	9.9	517	610	9.0	9.6
White, 20 to 64 years of age	2,119	1,587	4.7	3.5	2,164	2,026	7.4	6.7
Married, spouse present	1,172	802	3.4	2.3	1,434	1,281	7.4	6.5
Widowed, divorced, or separated	238	177	8.0	5.5	398	383	7.9	7.1
Single (never married)	709	608	10.2	8.2	332	361	7.0	7.0
Black and other, 20 to 64 years of age	441	482	8.5	9.2	571	600	12.6	12.3
Married, spouse present	168	180	4.9	5.5	232	202	10.3	8.6
Widowed, divorced, or separated	62	50	9.1	6.8	154	154	11.8	11.1
Single (never married)	211	251	19.0	20.2	185	244	19.0	21.5

A-11. Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total	7,026	6,437	7.4	6.6	6.2	5.1	9.2	8.6
White-collar workers	2,235	2,153	4.8	4.5	3.0	2.8	6.6	6.2
Professional and technical	499	491	3.5	3.4	2.5	2.3	4.9	4.8
Managers and administrators, except farm	304	236	3.1	2.3	2.5	1.8	5.2	4.1
Sales workers	299	282	5.1	4.7	3.3	3.5	7.4	6.3
Clerical workers	1,132	1,144	6.9	6.7	5.2	5.2	7.4	7.1
Blue-collar workers	2,594	2,150	8.2	6.6	7.3	5.7	12.1	10.2
Craft and kindred workers	696	536	5.7	4.3	5.5	4.1	9.9	7.9
Carpenters and other construction craft	332	235	8.8	6.1	8.7	6.2	(1)	(1)
All other	364	300	4.4	3.4	4.0	3.1	9.3	8.4
Operatives, except transport	1,056	966	9.5	8.5	7.3	6.6	12.9	11.1
Transport equipment operatives	215	163	6.1	4.4	6.2	4.4	4.6	4.1
Nonfarm laborers	627	485	12.5	9.5	12.7	9.7	11.3	7.4
Construction laborers	202	133	20.4	13.7	20.4	13.6	(1)	(1)
All other	425	352	10.6	8.5	10.5	8.7	11.0	6.7
Service workers	1,192	1,103	9.0	8.2	8.5	7.1	9.4	8.7
Private household	51	67	4.3	5.5	(1)	(1)	4.2	5.6
All other	1,141	1,036	9.5	8.4	8.5	7.2	10.2	9.2
Farm workers	108	122	3.6	4.2	2.6	3.4	7.9	7.6
No previous work experience	897	908	--	--	--	--	--	--
16 to 19 years	621	639	--	--	--	--	--	--
20 to 24 years	171	176	--	--	--	--	--	--
25 years and over	106	92	--	--	--	--	--	--

¹ Percent not shown where base is less than 75,000.

A-12. Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total	100.0	100.0	7.4	6.6	6.2	5.1	9.2	8.6
Nonagricultural private wage and salary workers	72.8	69.9	7.5	6.4	6.3	5.1	9.2	8.2
Mining	.4	.3	3.8	2.1	3.7	1.7	(1)	(1)
Construction	7.6	5.5	12.0	7.8	12.2	7.8	9.2	8.1
Manufacturing	20.9	20.8	6.9	6.2	5.1	4.5	11.1	9.8
Durable goods	11.7	11.2	6.5	5.6	5.3	4.5	10.6	9.3
Lumber and wood products	.6	.6	6.5	5.4	6.1	4.9	8.8	9.0
Furniture and fixtures	.4	.6	4.7	7.8	5.2	6.2	3.3	11.9
Stone, clay, and glass products	.4	.9	3.7	7.7	4.2	7.1	1.8	10.0
Primary metal industries	1.0	1.0	5.4	4.6	4.7	4.3	11.7	7.5
Fabricated metal products	1.8	1.7	7.9	7.2	7.0	6.1	10.9	11.0
Machinery, except electrical equipment	1.7	1.7	5.2	4.5	4.8	3.7	7.3	8.4
Electrical equipment	2.4	1.8	7.8	5.4	4.1	3.1	12.6	8.2
Transportation equipment	2.0	1.5	6.9	4.3	5.5	3.5	15.0	8.8
Automobiles	.7	.5	4.4	2.2	3.2	1.8	11.7	4.2
Other transportation equipment	1.3	1.1	10.0	7.3	8.3	5.7	19.0	16.1
Instruments and related products	.4	.5	4.9	5.8	2.5	3.6	8.8	8.7
Other durable goods industries	1.0	1.0	10.9	9.0	8.9	6.8	13.7	12.4
Nondurable goods	9.2	9.6	7.6	6.9	4.8	4.6	11.6	10.3
Food and kindred products	2.3	2.4	8.6	7.7	7.2	6.0	12.1	11.6
Textile mill products	1.0	1.1	8.3	8.0	2.4	8.6	14.4	7.4
Apparel and other textile products	2.0	2.2	10.3	10.5	4.4	8.1	11.8	11.1
Paper and allied products	.6	.5	6.5	4.8	4.2	3.0	14.5	11.7
Printing and publishing	.8	1.2	4.3	5.7	3.2	3.6	6.1	8.7
Chemicals and allied products	1.0	.7	5.7	3.7	4.9	2.0	7.9	8.4
Rubber and plastics products	.8	.7	9.0	5.9	3.5	3.5	19.2	10.4
Other nondurable goods industries	.6	.7	7.5	8.0	4.7	3.8	12.1	14.5
Transportation and public utilities	3.4	3.6	4.7	4.5	4.4	3.8	6.8	7.0
Railroads and railway express	.3	.2	3.8	2.5	3.8	2.6	(1)	(1)
Other transportation	2.0	2.3	6.2	6.2	6.0	5.8	7.2	7.9
Communication and other public utilities	1.1	1.0	3.0	3.2	2.4	1.6	6.5	6.7
Wholesale and retail trade	21.3	20.2	8.5	7.3	6.8	5.9	10.5	8.9
Finance, insurance, and real estate	3.0	3.0	4.7	4.0	3.6	2.5	5.5	5.2
Service industries	16.3	16.6	7.4	6.7	6.8	6.0	7.9	7.5
Professional services	7.0	7.0	5.8	5.0	4.0	3.2	6.7	5.9
All other service industries	9.2	9.6	9.7	8.8	9.3	7.6	10.0	10.1
Agricultural wage and salary workers	2.1	2.2	9.8	9.0	7.6	7.8	18.2	14.0
All other classes of workers	12.3	13.8	3.9	3.6	3.3	2.8	4.8	4.7
No previous work experience	12.8	14.1	--	--	--	--	--	--

¹ Percent not shown where base is less than 75,000.

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A-13. Unemployed persons by reason for unemployment, sex, age, and race

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	7,026	6,437	2,638	2,154	2,785	2,673	1,603	1,610	5,667	4,988	1,359	1,449
Job losers	2,986	2,518	1,714	1,302	979	917	293	300	2,427	1,969	559	549
On layoff	783	595	451	282	267	253	65	60	666	515	117	80
Other job losers	2,204	1,923	1,263	1,020	712	664	229	239	1,761	1,454	442	469
Job leavers	1,071	1,001	368	348	528	453	174	199	927	853	143	147
Reentrants	2,071	2,010	467	418	1,090	1,122	513	471	1,642	1,522	428	488
New entrants	899	908	90	87	187	182	623	640	671	643	228	265
Total unemployed, percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.5	39.1	65.0	60.5	35.2	34.3	18.2	18.7	42.8	39.5	41.2	37.8
On layoff	11.1	9.2	17.1	13.1	9.6	9.5	4.0	3.8	11.7	10.3	8.6	5.5
Other job losers	31.4	29.9	47.9	47.4	25.6	24.8	14.2	14.9	31.1	29.2	32.6	32.3
Job leavers	15.2	15.5	13.9	16.1	19.0	17.0	10.9	12.4	16.4	17.1	10.5	10.2
Reentrants	29.5	31.2	17.7	19.4	39.2	42.0	32.0	29.2	29.0	30.5	31.5	33.7
New entrants	12.8	14.1	3.4	4.0	6.7	6.8	38.9	39.7	11.8	12.9	16.8	18.3
UNEMPLOYMENT RATE												
Total unemployment rate	7.4	6.6	5.1	4.1	8.0	7.3	19.0	18.3	6.7	5.8	12.5	12.8
Job loser rate ¹	3.1	2.6	3.3	2.4	2.8	2.5	3.5	3.4	2.9	2.3	5.2	4.8
Job leaver rate ¹	1.1	1.0	.7	.7	1.5	1.2	2.1	2.3	1.1	1.0	1.3	1.3
Reentrant rate ¹	2.2	2.1	.9	.8	3.1	3.1	6.1	5.4	2.0	1.8	3.9	4.3
New entrant rate ¹	.9	.9	.2	.2	.5	.5	7.4	7.3	.8	.7	2.1	2.3

¹ Unemployment rates are calculated as a percent of the civilian labor force.

A-14. Unemployed persons by reason for unemployment, duration, sex, and age

[Percent distribution]

Reason, sex, and age	September 1977						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,437	100.0	48.2	27.9	23.9	10.7	15.2
Job losers	2,518	100.0	36.3	29.5	34.2	15.2	19.0
On layoff	595	100.0	51.4	28.2	20.4	12.3	8.1
Other job losers	1,923	100.0	31.6	29.9	38.4	16.1	22.3
Job leavers	1,001	100.0	56.9	26.6	16.5	7.2	9.3
Reentrants	2,010	100.0	58.3	24.4	17.2	7.1	10.1
New entrants	908	100.0	48.8	32.3	18.8	10.3	8.5
Males, 20 years and over	2,154	100.0	37.8	27.7	34.5	13.7	20.8
Job losers	1,302	100.0	33.1	28.4	38.6	16.4	22.2
On layoff	282	100.0	53.0	27.8	19.2	12.1	7.1
Other job losers	1,020	100.0	27.6	28.5	43.9	17.5	26.4
Job leavers	348	100.0	54.3	23.9	21.9	7.5	14.4
Reentrants	418	100.0	41.2	27.1	31.6	9.1	22.5
New entrants	87	100.0	27.9	34.9	37.2	20.9	16.3
Females, 20 years and over	2,673	100.0	47.7	28.5	23.8	11.4	12.4
Job losers	917	100.0	31.1	33.3	35.6	17.1	18.5
On layoff	253	100.0	43.3	32.5	24.2	13.5	10.7
Other job losers	664	100.0	26.5	33.6	39.9	18.5	21.4
Job leavers	453	100.0	50.1	31.6	17.9	9.1	8.8
Reentrants	1,122	100.0	60.7	23.3	16.1	7.6	8.5
New entrants	182	100.0	45.3	28.7	26.0	11.6	14.4
Both sexes, 16 to 19 years	1,610	100.0	62.7	27.1	10.3	5.7	4.6
Job losers	300	100.0	65.8	23.3	10.9	4.3	6.6
On layoff	60	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	239	100.0	62.8	25.9	11.3	3.8	7.5
Job leavers	199	100.0	76.8	19.7	3.5	2.0	1.5
Reentrants	471	100.0	67.9	24.5	7.6	4.2	3.4
New entrants	640	100.0	52.7	32.8	14.0	8.4	5.6

¹ Percent not shown where base is less than 75,000.

A-15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race

Sex, age, and race	September 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,437	5,708	24.8	6.2	72.5	30.9	13.3	6.4	1.54
16 to 19 years	1,610	1,519	18.6	3.6	77.1	26.5	12.7	6.3	1.45
20 to 24 years	1,509	1,353	28.2	7.9	74.4	31.9	14.6	6.7	1.64
25 to 34 years	1,490	1,297	29.0	6.2	72.2	33.6	12.4	5.2	1.59
35 to 44 years	736	612	28.6	6.4	68.5	30.7	13.9	5.9	1.54
45 to 54 years	566	477	23.3	8.6	62.9	35.8	12.8	8.0	1.51
55 to 64 years	393	328	20.7	7.9	64.9	31.4	15.2	9.8	1.50
65 years and over	133	122	14.8	5.7	79.5	23.8	10.7	1.6	1.36
Males, 16 years and over	2,940	2,548	28.3	7.1	72.6	29.2	14.8	7.3	1.59
16 to 19 years	786	728	21.2	2.9	78.0	26.5	12.0	6.3	1.47
20 to 24 years	740	654	30.7	10.6	74.0	30.9	15.1	6.7	1.68
25 to 34 years	661	533	37.1	8.1	70.0	31.7	16.3	7.3	1.71
35 to 44 years	249	201	39.8	6.5	68.2	19.9	13.9	10.9	1.59
45 to 54 years	209	179	20.1	8.9	62.6	37.4	18.4	10.1	1.58
55 to 64 years	208	175	22.3	6.9	66.3	32.0	20.0	10.3	1.58
65 years and over	86	79	15.2	7.6	75.9	24.1	7.6	1.3	1.32
Females, 16 years and over	3,497	3,160	21.9	5.5	72.5	32.2	12.2	5.6	1.50
16 to 19 years	824	791	16.3	4.3	76.2	26.5	13.3	6.4	1.43
20 to 24 years	768	699	25.9	5.4	74.7	32.8	14.2	6.7	1.60
25 to 34 years	830	764	23.3	4.8	73.7	34.9	9.7	3.8	1.50
35 to 44 years	486	412	23.3	6.3	68.4	35.9	13.8	3.4	1.51
45 to 54 years	357	298	25.2	8.4	63.1	34.9	9.4	7.0	1.48
55 to 64 years	184	153	19.0	9.2	63.4	30.7	10.5	9.2	1.42
65 years and over	48	43	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	4,988	4,358	21.0	6.1	73.9	32.8	12.8	6.1	1.53
Males	2,287	1,950	24.5	6.8	73.9	30.4	14.1	7.9	1.58
Females	2,700	2,408	18.2	5.5	74.0	34.8	11.8	4.7	1.49
Black and other	1,449	1,350	36.7	6.7	68.1	24.4	15.2	7.1	1.58
Males	652	598	40.5	8.0	68.4	25.4	17.1	5.7	1.65
Females	797	752	33.8	5.5	67.8	23.7	13.6	8.2	1.53

¹ Percent not shown where base is less than 75,000.

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or

A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment

Sex and reason	September 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,437	5,708	24.8	6.2	72.5	30.9	13.3	6.4	1.54
Job losers	2,518	1,906	32.4	8.0	70.8	32.7	15.3	5.8	1.65
Job leavers	1,001	995	24.8	6.9	75.8	35.2	11.5	4.5	1.59
Reentrants	2,010	1,912	21.0	4.6	71.8	28.3	12.0	6.9	1.45
New entrants	908	896	16.5	5.2	74.3	27.5	14.1	8.4	1.46
Males, 16 years and over	2,940	2,548	28.3	7.1	72.6	29.2	14.8	7.3	1.59
Job losers	1,503	1,166	34.5	8.4	69.0	31.8	16.0	6.9	1.67
Job leavers	446	445	23.1	8.8	77.3	35.1	12.4	4.9	1.62
Reentrants	645	592	25.5	4.2	73.1	19.9	14.2	9.8	1.47
New entrants	346	344	18.6	5.2	78.2	29.4	14.8	7.8	1.54
Females, 16 years and over	3,497	3,160	21.9	5.5	72.5	32.2	12.2	5.6	1.50
Job losers	1,015	740	29.1	7.3	73.6	34.2	14.3	4.1	1.63
Job leavers	555	550	26.2	5.5	74.4	35.5	10.7	4.2	1.57
Reentrants	1,365	1,319	19.0	4.7	71.3	32.1	10.9	5.6	1.44
New entrants	562	551	15.2	5.3	72.1	26.3	13.6	8.7	1.41

NOTE: See note, table A-15.

HOUSEHOLD DATA

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Household heads			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total	7,026	6,437	100.0	100.0	2,464	2,091	100.0	100.0
Less than 5 weeks	3,170	3,101	45.1	48.2	900	816	36.5	39.0
5 to 14 weeks	1,945	1,793	27.7	27.9	667	582	27.1	27.8
5 to 10 weeks	1,316	1,200	18.7	18.6	463	427	18.8	20.4
11 to 14 weeks	629	593	9.0	9.2	204	155	8.3	7.4
15 weeks and over	1,911	1,543	27.2	24.0	897	693	36.4	33.1
15 to 26 weeks	815	691	11.6	10.7	331	280	13.4	13.4
27 weeks and over	1,097	852	15.6	13.2	566	413	23.0	19.8
27 to 51 weeks	560	419	8.0	6.5	280	207	11.4	9.9
52 weeks and over	537	433	7.6	6.7	287	206	11.6	9.9
Average (mean) duration	14.2	13.1	--	--	18.4	17.0	--	--

A-18. Unemployed persons by duration, sex, age, race, and marital status

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over		Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
	September 1977						Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
Total, 16 years and over	6,437	3,101	1,793	691	852	13.1	45.1	48.2	27.2	24.0
16 to 21 years	2,301	1,373	623	164	142	8.7	54.1	59.6	16.4	13.3
16 to 19 years	1,610	1,009	436	91	73	7.6	55.3	62.7	14.9	10.2
20 to 24 years	1,509	746	428	171	165	11.8	48.6	49.4	23.4	22.2
25 to 34 years	1,490	642	418	198	232	15.1	43.5	43.1	27.4	28.9
35 to 44 years	736	327	199	80	130	15.2	40.1	44.4	32.6	28.5
45 to 54 years	566	199	168	83	116	17.2	35.8	35.2	41.2	35.2
55 to 64 years	393	129	113	51	100	20.8	33.9	32.8	44.6	38.5
65 years and over	133	49	31	18	35	22.3	21.6	37.0	48.3	39.8
Males, 16 years and over	2,940	1,302	800	340	497	15.4	39.3	44.3	32.1	28.5
16 to 21 years	1,140	667	288	86	98	9.9	51.7	58.5	18.5	16.2
16 to 19 years	786	487	204	45	50	8.4	54.4	62.0	15.0	12.1
20 to 24 years	740	348	195	97	100	13.3	42.6	47.0	29.3	26.6
25 to 34 years	661	221	197	102	141	19.2	34.9	33.4	32.6	36.8
35 to 44 years	249	87	74	31	58	19.3	30.9	34.7	41.4	35.5
45 to 54 years	209	58	61	27	63	22.6	26.7	27.6	52.5	43.0
55 to 64 years	208	68	53	25	62	23.2	28.4	32.7	50.8	41.9
65 years and over	86	33	16	13	23	20.3	21.2	38.9	38.5	41.9
Females, 16 years and over	3,497	1,799	993	350	356	11.2	50.8	51.4	22.5	20.2
16 to 21 years	1,161	705	335	78	44	7.5	56.8	60.7	14.1	10.5
16 to 19 years	824	522	232	46	24	6.9	56.3	63.4	14.9	8.5
20 to 24 years	768	397	233	73	65	10.3	54.9	51.7	17.2	17.9
25 to 34 years	830	421	222	96	91	11.7	50.7	50.7	23.1	22.6
35 to 44 years	486	240	125	49	72	13.1	47.3	49.4	25.7	24.9
45 to 54 years	357	141	106	56	53	14.1	44.7	39.6	30.3	30.6
55 to 64 years	184	61	60	25	38	18.1	40.9	32.9	36.7	34.5
65 years and over	48	16	15	5	13	25.9	(1)	(1)	(1)	(1)
White	4,988	2,490	1,354	535	609	12.4	45.7	49.9	26.9	22.9
Males	2,287	1,058	611	259	359	14.4	39.4	46.3	32.4	27.0
Females	2,700	1,432	743	276	249	10.8	52.1	53.0	21.4	19.5
Black and other	1,449	611	439	155	244	15.5	42.5	42.2	28.3	27.5
Males	652	244	189	82	137	18.8	38.8	37.4	30.3	33.6
Females	797	367	250	74	106	12.7	45.7	46.0	26.6	22.6
Males:										
Married, spouse present	1,066	364	321	156	225	18.2	33.1	34.1	39.3	35.8
Widowed, divorced, or separated	244	91	57	28	69	20.2	32.9	37.2	40.0	39.7
Single (never married)	1,630	848	423	156	203	12.8	45.6	52.0	24.6	22.0
Females:										
Married, spouse present	1,597	833	446	162	156	10.5	50.4	52.2	22.9	19.9
Widowed, divorced, or separated	585	222	193	87	83	15.3	41.2	37.9	31.8	29.1
Single (never married)	1,315	743	354	101	116	10.3	56.2	56.5	17.0	16.5

¹ Percent not shown where base is less than 75,000.

A-19. Unemployed persons by duration, occupation, and industry of last job

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over		Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
	September 1977									
OCCUPATION										
White-collar workers	2,153	1,020	596	265	272	12.4	46.3	47.4	28.6	24.9
Professional and managerial	727	335	211	74	106	12.7	44.5	46.1	33.0	24.8
Sales workers	282	128	72	38	44	13.6	47.2	45.5	30.7	29.1
Clerical workers	1,144	556	313	153	121	11.8	47.4	48.6	25.0	24.0
Blue-collar workers	2,150	974	589	231	357	15.0	41.0	45.3	30.8	27.3
Craft and kindred workers	536	212	152	74	98	16.1	34.4	39.5	33.7	32.1
Operatives, except transport	966	466	255	101	143	14.3	42.3	48.3	29.5	25.4
Transport equipment operatives	163	67	58	20	18	13.9	34.7	40.8	36.9	23.6
Nonfarm laborers	485	229	124	35	97	15.8	48.4	47.3	27.8	27.2
Service workers	1,103	586	284	94	139	12.6	48.1	53.2	22.9	21.1
INDUSTRY¹										
Agriculture	143	92	35	8	8	7.5	54.8	64.3	16.0	11.0
Construction	382	154	108	38	82	17.1	44.9	40.3	25.0	31.5
Manufacturing	1,344	597	375	147	225	15.2	41.7	44.4	33.4	27.7
Durable goods	725	332	174	76	144	16.5	38.4	45.7	37.0	30.3
Nondurable goods	619	265	201	71	82	13.7	46.0	42.8	28.7	24.6
Transportation and public utilities	262	120	72	24	46	15.9	35.5	45.8	32.6	26.7
Wholesale and retail trade	1,304	623	358	154	169	13.0	42.3	47.8	29.0	24.8
Finance and service industries	1,721	871	454	195	201	11.9	50.2	50.6	23.9	23.5
Public administration	240	129	63	18	30	10.9	39.2	53.9	31.6	19.9
No previous work experience	908	444	293	94	77	11.7	48.8	48.9	20.5	18.8

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
	All industries	87,949	91,247	52,834	54,256	35,115	36,991
16 to 19 years	6,834	7,163	3,662	3,881	3,172	3,282
16 to 17 years	2,738	2,941	1,479	1,611	1,259	1,331
18 to 19 years	4,096	4,222	2,183	2,271	1,913	1,951
20 to 24 years	12,303	12,994	6,807	7,074	5,497	5,919
25 to 54 years	55,110	57,193	33,773	34,666	21,339	22,526
25 to 34 years	22,244	23,660	13,751	14,312	8,493	9,347
35 to 44 years	16,538	17,204	10,063	10,419	6,476	6,785
45 to 54 years	16,328	16,329	9,959	9,935	6,370	6,394
55 to 64 years	10,890	11,061	6,797	6,833	4,093	4,228
55 to 59 years	6,694	6,876	4,112	4,214	2,582	2,662
60 to 64 years	4,196	4,186	2,685	2,619	1,511	1,566
65 years and over	2,811	2,835	1,795	1,801	1,015	1,034
Nonagricultural industries	84,553	87,921	50,066	51,533	34,487	36,388
16 to 19 years	6,404	6,772	3,300	3,564	3,104	3,208
16 to 17 years	2,530	2,756	1,305	1,473	1,225	1,284
18 to 19 years	3,875	4,016	1,995	2,091	1,879	1,924
20 to 24 years	11,903	12,558	6,468	6,699	5,435	5,859
25 to 54 years	53,410	55,551	32,439	33,378	20,971	22,175
25 to 34 years	21,653	23,074	13,275	13,856	8,378	9,219
35 to 44 years	16,041	16,725	9,689	10,052	6,352	6,674
45 to 54 years	15,716	15,752	9,475	9,470	6,241	6,282
55 to 64 years	10,361	10,559	6,355	6,404	4,006	4,155
55 to 59 years	6,398	6,575	3,862	3,955	2,536	2,620
60 to 64 years	3,964	3,983	2,493	2,449	1,471	1,535
65 years and over	2,476	2,481	1,505	1,489	970	993
Agriculture	3,396	3,326	2,768	2,723	628	603
16 to 19 years	430	391	362	317	68	74
16 to 17 years	208	185	175	138	33	47
18 to 19 years	222	206	188	179	34	27
20 to 24 years	401	436	339	376	62	60
25 to 54 years	1,701	1,642	1,334	1,288	367	354
25 to 34 years	591	585	476	456	115	129
35 to 44 years	497	479	374	367	123	112
45 to 54 years	613	578	484	465	129	113
55 to 64 years	528	503	442	429	87	74
55 to 59 years	296	300	250	258	46	42
60 to 64 years	232	203	192	171	41	32
65 years and over	335	354	290	313	45	41

HOUSEHOLD DATA

A-21. Employed persons by occupation, sex, and age

In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
TOTAL	87,949	91,247	49,172c	50,374	31,943	33,709	3,662	3,881	3,172	3,282
White-collar workers	43,950	45,361	21,327	21,550	20,559	21,543	575	668	1,488	1,600
Professional and technical	13,673	13,873	7,830	7,826	5,701	5,921	80	62	62	65
Health workers	2,353	2,479	792	846	1,542	1,615	4	6	14	14
Teachers, except college	3,191	3,094	901	894	2,269	2,189	6	2	15	8
Other professional and technical	8,129	8,300	6,137	6,086	1,890	2,117	70	54	33	43
Managers and administrators, except farm	9,532	9,865	7,481	7,618	1,982	2,138	48	65	21	45
Salaried workers	7,710	7,898	6,027	6,120	1,616	1,680	44	58	22	40
Self-employed workers in retail trade	925	973	666	685	260	283	--	2	--	3
Self-employed workers, except retail trade	897	994	788	813	105	175	4	5	--	2
Sales workers	5,523	5,714	2,887	3,000	2,025	2,099	236	264	375	351
Retail trade	3,013	3,131	929	995	1,551	1,600	187	211	346	326
Other industries	2,509	2,583	1,958	2,005	474	499	49	53	28	25
Clerical workers	15,223	15,909	3,129	3,106	10,851	11,386	212	279	1,030	1,138
Stenographers, typists, and secretaries	4,220	4,468	79	61	3,835	4,049	5	10	301	347
Other clerical workers	11,003	11,441	3,050	3,045	7,016	7,337	207	269	729	791
Blue-collar workers	29,101	30,656	22,050	23,061	4,676	5,057	1,986	2,135	390	404
Craft and kindred workers	11,405	12,046	10,485	11,010	507	588	380	411	32	37
Carpenters	1,025	1,228	965	1,118	8	6	52	99	--	5
Construction craft, except carpenters	2,421	2,421	2,297	2,289	28	27	98	103	--	1
Mechanics and repairers	3,009	3,270	2,838	3,109	28	48	142	112	3	2
Metal craft	1,204	1,238	1,140	1,182	32	24	25	31	6	1
Blue-collar worker supervisors, not elsewhere classified	1,407	1,591	1,289	1,434	112	150	5	6	1	2
All other	2,338	2,297	1,957	1,878	299	334	58	60	24	26
Operatives, except transport	10,018	10,415	5,564	5,608	3,655	3,906	559	626	240	275
Durable goods manufacturing	4,540	4,717	2,940	2,940	1,350	1,479	179	221	70	76
Nondurable goods manufacturing	3,182	3,345	1,224	1,246	1,728	1,838	112	127	119	134
Other industries	2,296	2,353	1,400	1,422	577	589	268	278	51	65
Transport equipment operatives	3,296	3,562	2,903	3,158	201	224	179	166	12	14
Drivers, motor vehicles	2,763	2,963	2,424	2,620	187	206	144	124	8	13
All other	533	599	479	538	14	18	36	42	4	1
Nonfarm laborers	4,382	4,633	3,096	3,284	312	338	867	932	107	78
Construction	789	834	629	692	12	9	147	128	2	5
Manufacturing	1,110	1,107	846	829	136	142	116	126	12	11
Other industries	2,482	2,691	1,621	1,764	165	187	604	678	92	62
Service workers	11,998	12,431	3,719	3,708	6,232	6,681	801	814	1,245	1,228
Private household workers	1,142	1,150	23	17	867	941	13	7	239	185
Service workers, except private household	10,856	11,281	3,696	3,691	5,365	5,740	788	807	1,006	1,043
Food service workers	4,016	4,251	770	749	2,049	2,228	489	521	707	753
Protective service workers	1,250	1,319	1,151	1,175	75	112	22	25	3	5
All other	5,590	5,711	1,775	1,767	3,241	3,400	277	261	296	285
Farm workers	2,900	2,798	2,075	2,056	476	428	300	264	49	51
Farmers and farm managers	1,495	1,458	1,374	1,352	104	90	15	17	2	--
Farm laborers and supervisors	1,405	1,340	701	704	372	338	285	248	47	51
Paid workers	1,055	1,061	661	676	150	149	213	199	31	38
Unpaid family workers	350	279	40	28	222	189	72	49	16	13

c = corrected

A-22. Employed persons by occupation, sex, and race

[Percent distribution]

Occupation and race	Total		Males		Females	
	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977	Sept. 1976	Sept. 1977
TOTAL						
Total employed (thousands)	87,949	91,247	52,834	54,256	35,115	36,991
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.0	49.7	41.5	41.0	62.8	62.6
Professional and technical	15.5	15.2	15.0	14.5	16.4	16.2
Managers and administrators, except farm	10.8	10.8	14.3	14.2	5.7	5.9
Sales workers	6.3	6.3	5.9	6.0	6.8	6.6
Clerical workers	17.3	17.4	6.3	6.2	33.8	33.9
Blue-collar workers	33.1	33.6	45.5	46.4	14.4	14.8
Craft and kindred workers	13.0	13.2	20.6	21.1	1.5	1.7
Operatives, except transport	11.4	11.4	11.6	11.5	11.1	11.3
Transport equipment operatives	3.7	3.9	5.8	6.1	.6	.6
Nonfarm laborers	5.0	5.1	7.5	7.8	1.2	1.1
Service workers	13.6	13.6	8.6	8.3	21.3	21.4
Private household workers	1.3	1.3	.1	(1)	3.1	3.0
Other service workers	12.3	12.4	8.5	8.3	18.1	18.3
Farm workers	3.3	3.1	4.5	4.3	1.5	1.3
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.2
Farm laborers and supervisors	1.6	1.5	1.9	1.8	1.2	1.1
White						
Total employed (thousands)	78,452	81,394	47,645	49,028	30,807	32,366
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.8	51.5	43.1	42.5	65.3	65.0
Professional and technical	16.0	15.7	15.5	15.1	16.7	16.5
Managers and administrators, except farm	11.6	11.6	15.1	15.0	6.1	6.4
Sales workers	6.7	6.7	6.3	6.4	7.5	7.1
Clerical workers	17.5	17.6	6.2	6.1	35.0	35.0
Blue-collar workers	32.5	33.1	44.5	45.5	13.8	14.3
Craft and kindred workers	13.5	13.7	21.3	21.6	1.6	1.7
Operatives, except transport	10.8	11.0	11.1	11.1	10.4	10.8
Transport equipment operatives	3.6	3.7	5.5	5.7	.6	.7
Nonfarm laborers	4.5	4.7	6.6	7.0	1.1	1.1
Service workers	12.3	12.2	7.8	7.5	19.3	19.3
Private household workers	.9	.9	.1	(1)	2.3	2.1
Other service workers	11.4	11.4	7.7	7.5	17.1	17.2
Farm workers	3.4	3.2	4.6	4.4	1.6	1.3
Farmers and farm managers	1.9	1.8	2.8	2.8	.3	.3
Farm laborers and supervisors	1.6	1.4	1.7	1.7	1.3	1.1
Black and other						
Total employed (thousands)	9,497	9,853	5,189	5,227	4,308	4,625
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	34.7	35.1	26.2	26.2	45.1	45.2
Professional and technical	11.9	11.4	9.8	9.0	14.4	14.1
Managers and administrators, except farm	4.7	4.6	6.2	6.6	2.8	2.5
Sales workers	2.5	2.9	2.7	2.8	2.4	2.9
Clerical workers	15.6	16.2	7.4	7.8	25.5	25.6
Blue-collar workers	38.4	37.7	54.4	55.0	19.0	18.1
Craft and kindred workers	8.2	9.1	14.2	15.7	1.0	1.5
Operatives, except transport	16.0	15.0	16.1	14.8	15.8	15.2
Transport equipment operatives	5.0	5.3	8.6	9.7	.5	.3
Nonfarm laborers	9.2	8.4	15.4	14.8	1.6	1.1
Service workers	24.7	25.2	15.8	15.9	35.3	35.7
Private household workers	4.4	4.6	.2	.2	9.4	9.6
Other service workers	20.3	20.6	15.6	15.6	25.9	26.1
Farm workers	2.2	2.1	3.6	2.9	.5	1.1
Farmers and farm managers	.4	.2	.7	.4	(1)	(1)
Farm laborers and supervisors	1.9	1.9	3.0	2.6	.5	1.1

¹ Less than 0.05 percent.

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A-23. Employed persons by class of worker, age, and sex

(In thousands)

Age and sex	September 1977								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	81,364	1,406	15,159	64,799	6,060	497	1,443	1,596	287
16 to 19 years	6,669	269	387	6,013	81	21	300	29	63
16 to 17 years	2,707	212	111	2,383	40	10	125	15	45
18 to 19 years	3,962	57	275	3,630	42	12	175	13	18
20 to 24 years	12,253	106	1,577	10,571	274	30	297	114	25
25 to 34 years	21,614	171	4,396	17,046	1,369	92	309	240	36
35 to 44 years	15,233	197	3,189	11,847	1,357	135	164	267	48
45 to 54 years	14,231	231	3,283	10,717	1,394	127	171	350	57
55 to 64 years	9,467	254	2,001	7,213	1,023	69	119	348	36
55 to 59 years	5,921	148	1,318	4,455	613	42	65	217	18
60 to 64 years	3,546	106	682	2,757	411	27	54	131	18
65 years and over	1,897	178	326	1,392	561	24	84	248	22
Males, 16 years and over	47,103	214	7,642	39,248	4,377	52	1,171	1,475	78
16 to 19 years	3,505	77	179	3,249	49	10	243	25	50
16 to 17 years	1,441	61	53	1,327	23	8	91	15	32
18 to 19 years	2,063	16	126	1,921	25	3	152	10	17
20 to 24 years	6,514	31	618	5,864	169	16	251	109	16
25 to 34 years	12,892	19	2,221	10,652	958	6	234	220	3
35 to 44 years	9,038	18	1,613	7,407	1,012	1	128	239	--
45 to 54 years	8,430	19	1,720	6,692	1,036	4	143	320	2
55 to 64 years	5,632	21	1,082	4,529	766	7	101	328	--
55 to 59 years	3,495	8	697	2,790	458	3	56	203	--
60 to 64 years	2,137	13	384	1,740	308	4	45	125	--
65 years and over	1,093	29	210	854	388	8	72	235	6
Females, 16 years and over	34,260	1,193	7,516	25,551	1,683	445	272	122	209
16 to 19 years	3,164	192	208	2,764	33	11	57	3	13
16 to 17 years	1,266	151	59	1,056	16	2	34	1	12
18 to 19 years	1,899	41	149	1,708	16	9	23	3	1
20 to 24 years	5,739	75	959	4,706	106	14	47	5	8
25 to 34 years	8,722	152	2,175	6,394	411	86	75	21	33
35 to 44 years	6,195	179	1,576	4,440	345	134	36	28	48
45 to 54 years	5,801	213	1,564	4,025	358	123	27	30	55
55 to 64 years	3,835	233	919	2,683	258	62	18	20	36
55 to 59 years	2,426	139	621	1,665	155	39	9	15	18
60 to 64 years	1,409	93	298	1,018	103	23	9	5	18
65 years and over	804	149	116	539	173	16	12	14	16

A-24. Employed persons by industry and occupation

(In thousands)

Industry	September 1977											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Profes-sional and technical workers	Managers and adminis-trators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,326	72	37	15	66	51	8	41	228	--	8	1,340
Mining	828	103	84	1	82	259	238	33	12	--	16	--
Construction	5,626	187	621	16	361	3,119	276	184	834	--	27	--
Manufacturing	20,837	2,140	1,351	430	2,344	4,117	8,062	848	1,107	--	436	--
Durable goods	12,439	1,402	769	134	1,311	2,757	4,717	440	665	--	242	--
Nondurable goods	8,398	738	582	296	1,033	1,360	3,345	407	442	--	194	--
Transportation and public utilities	5,866	473	549	43	1,266	1,279	178	1,464	470	--	145	--
Wholesale and retail trade	18,827	390	3,693	3,966	3,169	1,449	904	711	1,153	--	3,392	--
Wholesale trade	3,657	130	834	835	751	324	128	387	236	--	31	--
Retail trade	15,171	260	2,859	3,131	2,418	1,125	777	324	917	--	3,361	--
Finance, insurance, and real estate	5,038	229	985	1,112	2,301	81	7	16	59	--	248	--
Services	25,958	9,370	1,905	125	4,539	1,387	698	230	610	1,150	5,945	--
Private households	1,434	21	--	--	13	5	6	8	180	1,150	51	--
Other service industries	24,524	9,349	1,905	125	4,526	1,382	692	222	430	--	5,894	--
Public administration	4,940	909	640	6	1,781	305	43	35	159	--	1,063	--

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A-25. Employed persons with a job but not at work by reason, pay status, and sex

(In thousands)

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Sept. 1976	Sept. 1977			Sept. 1976	Sept. 1977	Paid absences ²		Unpaid absences^{2}
			Sept. 1976	Sept. 1977			Sept. 1976	Sept. 1977
Total	4,260	4,586	4,163	4,449	2,056	2,233	1,727	1,748
Vacation	2,007	2,335	1,984	2,303	1,463	1,670	398	468
Illness	1,296	1,334	1,258	1,301	477	451	691	717
Bad weather	38	115	28	79	--	--	--	--
Industrial dispute	187	131	187	131	--	--	--	--
All other reasons	733	671	707	636	116	112	638	562
Males	2,431	2,727	2,359	2,608	1,359	1,448	787	888
Vacation	1,201	1,431	1,185	1,404	1,002	1,106	121	206
Illness	744	799	713	773	281	288	378	405
All other reasons ³	486	497	461	431	75	54	289	277
Females	1,830	1,859	1,804	1,841	697	784	939	860
Vacation	806	904	799	899	460	564	277	262
Illness	551	536	545	528	196	162	313	313
All other reasons ³	473	419	460	414	41	57	350	285

¹Excludes private household.

³Includes bad weather and industrial dispute, not shown separately.

²Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

A-26. Persons at work by type of industry and hours of work

Hours of work	September 1977					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	86,661	83,472	3,189	100.0	100.0	100.0
1-34 hours	20,322	19,365	957	23.5	23.2	30.0
1-4 hours	760	716	44	.9	.9	1.4
5-14 hours	3,840	3,623	217	4.4	4.3	6.8
15-29 hours	10,245	9,736	509	11.8	11.7	16.0
30-34 hours	5,477	5,290	187	6.3	6.3	5.9
35 hours and over	66,338	64,107	2,233	76.5	76.8	70.0
35-39 hours	6,055	5,905	151	7.0	7.1	4.7
40 hours	35,791	35,316	476	41.3	42.3	14.9
41 hours and over	24,492	22,886	1,606	28.3	27.4	50.3
41 to 48 hours	9,711	9,498	213	11.2	11.4	6.7
49 to 59 hours	8,078	7,655	423	9.3	9.2	13.3
60 hours and over	6,703	5,733	970	7.7	6.9	30.4
Average hours, total at work	39.2	39.0	45.1	--	--	--
Average hours, workers on full-time schedules	43.5	43.1	53.1	--	--	--

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A-27. Persons at work 1 - 34 hours by usual status and reason for working less than 35 hours

[Numbers in thousands]

Reason for working less than 35 hours	September 1977					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	20,322	6,253	14,069	19,365	5,905	13,460
Economic reasons	3,237	1,278	1,959	3,025	1,155	1,870
Slack work	1,424	874	550	1,268	766	502
Material shortages or repairs to plant and equipment	66	66	--	62	62	--
New job started during week	248	248	--	244	244	--
Job terminated during week	89	89	--	83	83	--
Could find only part-time work	1,409	--	1,409	1,368	--	1,368
Other reasons	17,086	4,976	12,110	16,340	4,750	11,590
Does not want, or unavailable for, full-time work	9,995	--	9,995	9,597	--	9,597
Vacation	723	723	--	710	710	--
Illness	1,679	1,464	215	1,631	1,436	195
Bad weather	559	559	--	421	421	--
Industrial dispute	74	74	--	74	74	--
Legal or religious holiday	723	723	--	723	723	--
Full time for this job	1,385	--	1,385	1,339	--	1,339
All other reasons	1,948	1,433	515	1,845	1,387	458
Average hours:						
Economic reasons	21.6	24.0	20.1	21.7	24.3	20.1
Other reasons	20.8	26.0	18.6	20.8	26.2	18.6
Worked 30 to 34 hours:						
Economic reasons	972	531	441	919	498	421
Other reasons	4,505	2,508	1,997	4,371	2,437	1,934

A-28. Nonagricultural workers by industry and full- or part-time status

[Numbers in thousands]

Industry	September 1977								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total ¹	83,472	3,025	11,590	68,857	45,971	9,498	13,388	39.0	43.1
Wage and salary workers	77,313	2,754	10,483	64,076	44,023	8,866	11,187	38.7	42.6
Construction	4,424	250	226	3,948	2,939	428	581	38.9	41.1
Manufacturing	19,392	513	648	18,231	12,145	3,124	2,962	41.5	42.7
Durable goods	11,534	185	284	11,065	7,259	1,881	1,925	42.1	43.0
Nondurable goods	7,858	328	364	7,166	4,886	1,243	1,037	40.4	42.3
Transportation and public utilities	5,261	136	356	4,769	3,307	595	867	41.3	43.4
Wholesale and retail trade	16,034	830	3,942	11,262	6,945	1,900	2,417	36.5	43.6
Finance, insurance, and real estate	4,477	61	463	3,953	2,913	422	618	39.3	41.9
Service industries	22,330	921	4,610	16,799	11,988	1,837	2,974	36.4	42.2
Private households	1,336	178	751	407	275	37	95	23.1	44.6
All other industries	20,994	743	3,859	16,392	11,713	1,800	2,879	37.2	42.3
Public administration	4,664	32	224	4,408	3,392	437	579	40.6	41.9
Self-employed workers	5,661	264	914	4,483	1,807	587	2,089	43.0	49.6
Unpaid family workers	497	8	193	296	138	46	112	37.7	48.9

¹ Includes mining not shown separately.

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A-29. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status

[Numbers in thousands]

Sex, age, race, and marital status	September 1977							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	83,472	3,025	11,590	68,857	45,971	22,886	39.0	43.1
16 to 21 years	11,237	806	4,000	6,431	4,940	1,491	30.9	40.8
16 to 19 years	6,616	519	3,149	2,948	2,315	633	27.7	40.4
16 to 17 years	2,704	126	2,112	466	370	96	20.1	38.6
18 to 19 years	3,912	393	1,037	2,482	1,946	536	32.9	40.8
20 years and over	76,856	2,506	8,441	65,909	43,654	22,255	39.9	43.3
20 to 24 years	12,049	644	1,598	9,807	7,102	2,705	37.8	41.8
25 years and over	64,807	1,862	6,843	56,102	36,552	19,550	40.3	43.6
25 to 44 years	38,015	1,123	3,353	33,539	21,547	11,992	40.8	43.5
45 to 64 years	24,527	655	2,369	21,503	14,321	7,182	40.6	43.4
65 years and over	2,265	83	1,121	1,061	686	375	29.2	43.9
Males, 16 years and over	48,924	1,303	3,698	43,923	26,217	17,706	41.9	44.5
16 to 21 years	5,888	363	1,929	3,596	2,582	1,014	32.4	41.7
16 to 19 years	3,473	230	1,554	1,689	1,275	414	29.1	41.1
16 to 17 years	1,443	56	1,100	287	224	63	21.2	39.4
18 to 19 years	2,030	172	454	1,404	1,054	350	34.7	41.5
20 years and over	45,451	1,073	2,145	42,233	24,941	17,292	42.9	44.7
20 to 24 years	36,446	282	668	5,496	3,574	1,922	39.6	43.1
25 years and over	39,005	791	1,477	36,737	21,367	15,370	43.4	44.9
25 to 44 years	22,896	480	437	21,979	12,552	9,427	44.1	45.0
45 to 64 years	14,761	266	427	14,068	8,381	5,687	43.7	44.8
65 years and over	1,348	46	612	690	435	255	30.2	43.2
Females, 16 years and over	34,548	1,722	7,891	24,935	19,755	5,180	34.7	40.6
16 to 21 years	5,349	443	2,071	2,835	2,359	476	29.3	39.6
16 to 19 years	3,143	290	1,595	1,258	1,039	219	26.1	39.5
16 to 17 years	1,261	70	1,012	179	145	34	18.8	37.3
18 to 19 years	1,882	221	583	1,078	892	186	31.0	39.8
20 years and over	31,405	1,433	6,296	23,676	18,713	4,963	35.6	40.7
20 to 24 years	5,603	362	930	4,311	3,528	783	35.6	40.2
25 years and over	25,802	1,071	5,366	19,365	15,185	4,180	35.6	40.8
25 to 44 years	15,119	644	2,916	11,559	8,993	2,566	35.9	40.7
45 to 64 years	9,766	389	1,942	7,435	5,941	1,494	35.9	40.7
65 years and over	917	36	509	372	251	121	27.8	45.3
RACE								
White	74,450	2,470	10,571	61,409	39,927	21,482	39.2	43.4
Males	44,223	1,060	3,386	39,777	23,075	16,702	42.2	44.8
Females	30,227	1,410	7,185	21,632	16,853	4,779	34.7	40.8
Black and other	9,022	555	1,019	7,448	6,043	1,405	37.1	40.9
Males	4,701	243	312	4,146	3,142	1,004	39.2	41.9
Females	4,321	313	707	3,301	2,899	402	34.8	39.7
MARITAL STATUS								
Males:								
Married, spouse present	35,024	590	1,211	33,223	18,936	14,287	43.8	45.1
Widowed, divorced, or separated	3,521	149	187	3,185	1,951	1,234	42.0	44.3
Single (never married)	10,379	564	2,300	7,515	5,331	2,184	35.6	42.2
Females:								
Married, spouse present	19,851	888	4,665	14,298	11,342	2,956	34.8	40.6
Widowed, divorced, or separated	6,367	339	974	5,054	3,919	1,135	36.8	41.1
Single (never married)	8,330	496	2,253	5,581	4,490	1,091	33.1	40.5

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A-30. Persons at work in nonfarm occupations by full- or part-time status and sex

[Numbers in thousands]

Occupational group and sex	September 1977								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
TOTAL									
White-collar workers	43,320	889	5,874	36,557	23,838	4,642	8,077	39.7	43.5
Professional and technical	13,251	226	1,414	11,611	7,499	1,482	2,630	40.3	43.4
Managers and administrators, except farm	9,437	59	444	8,934	4,106	1,330	3,498	46.2	47.7
Sales workers	5,490	203	1,349	3,938	2,286	543	1,109	37.1	44.3
Clerical workers	15,142	401	2,667	12,074	9,946	1,287	841	36.1	40.2
Blue-collar workers	28,877	1,313	2,056	25,508	16,968	4,099	4,441	40.3	42.9
Craft and kindred workers	11,306	375	377	10,554	6,744	1,802	2,008	41.7	43.2
Operatives, except transport	9,824	495	595	8,734	6,156	1,398	1,180	40.1	42.3
Transport equipment operatives	3,351	124	291	2,936	1,602	486	848	42.3	45.6
Nonfarm laborers	4,396	320	794	3,282	2,465	413	404	35.4	41.3
Service workers	11,783	858	3,753	7,172	5,396	799	977	32.9	42.1
Private household	1,091	150	614	327	225	25	77	23.3	44.3
Other service workers	10,692	708	3,139	6,845	5,170	774	901	33.9	42.0
Males									
White-collar workers	21,283	236	1,384	19,663	10,469	2,796	6,398	43.8	45.9
Professional and technical	7,564	94	422	7,048	4,167	878	2,003	42.9	44.7
Managers and administrators, except farm	7,361	37	215	7,109	2,955	1,066	3,088	47.6	48.6
Sales workers	3,180	52	386	2,742	1,394	414	934	41.9	45.6
Clerical workers	3,178	51	361	2,766	1,955	439	372	39.0	42.0
Blue-collar workers	23,722	931	1,471	21,320	13,686	3,476	4,158	41.0	43.4
Craft and kindred workers	10,715	344	300	10,071	6,389	1,724	1,958	42.0	43.3
Operatives, except transport	5,888	179	301	5,408	3,501	924	983	41.7	43.6
Transport equipment operatives	3,124	107	182	2,835	1,532	470	833	43.2	45.7
Nonfarm laborers	3,995	302	688	3,005	2,262	358	385	35.5	41.3
Service workers	4,305	158	890	3,257	2,242	405	610	37.8	44.0
Private household	24	2	12	10	3	--	7	28.5	47.9
Other service workers	4,281	157	878	3,246	2,237	405	604	37.8	44.0
Females									
White-collar workers	22,037	653	4,490	16,894	13,367	1,846	1,681	35.8	40.7
Professional and technical	5,688	130	992	4,566	3,335	604	627	36.8	41.3
Managers and administrators, except farm	2,076	23	228	1,825	1,150	264	411	41.3	44.2
Sales workers	2,310	151	964	1,195	892	129	174	30.6	41.2
Clerical workers	11,964	349	2,307	9,308	7,992	848	468	35.3	39.7
Blue-collar workers	5,155	383	585	4,187	3,282	623	282	37.0	40.4
Craft and kindred workers	591	32	77	482	353	78	51	37.3	41.3
Operatives, except transport	3,936	316	294	3,326	2,655	474	197	37.6	40.2
Transport equipment operatives	227	17	108	102	70	16	16	29.6	42.5
Nonfarm laborers	401	18	106	277	203	55	19	34.4	41.3
Service workers	7,478	700	2,863	3,915	3,153	395	367	30.1	40.6
Private household	1,067	148	602	317	221	26	70	23.2	44.2
Other service workers	6,411	551	2,261	3,599	2,933	369	297	31.2	40.2

A-31. Employment status of 14-15 year-olds by sex and race

[Numbers in thousands]

Employment status	September 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,265	4,206	4,059	6,950	3,546	3,405	1,314	660	654
Civilian labor force	1,510	810	699	1,452	778	674	58	32	26
Employed	1,282	680	602	1,257	666	591	25	14	10
Agriculture	152	132	20	148	126	21	5	5	--
Nonagricultural industries	1,130	548	581	1,109	539	570	20	9	11
Unemployed	228	130	98	195	113	82	33	18	16
Unemployment rate	15.1	16.0	14.0	13.4	14.5	12.2	(1)	(1)	(1)
Not in labor force	6,755	3,396	3,359	5,498	2,768	2,731	1,257	628	629
Keeping house	49	3	46	49	1	48	2	2	--
Going to school	6,513	3,296	3,217	5,320	2,689	2,631	1,194	607	587
Unable to work	13	7	6	12	7	5	2	--	2
All other reasons	180	90	90	118	70	47	62	19	43

¹ Percent not shown where base is less than 75,000.

A-32. Employed 14-15 year-olds by sex, class of worker, and occupation

Characteristics	September 1977					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,282	680	602	100.0	100.0	100.0
Nonagricultural industries	1,130	548	581	88.1	80.6	96.7
Wage and salary workers	1,042	476	566	81.2	69.9	94.0
Private household workers	488	112	377	38.1	16.4	62.6
Government workers	15	14	--	1.2	2.1	--
Other wage and salary workers	538	350	189	42.0	51.4	31.4
Self-employed workers	82	69	14	6.4	10.1	2.3
Unpaid family workers	6	4	2	.5	.6	.3
Agriculture	152	132	20	11.9	19.4	3.3
Wage and salary workers	87	77	10	6.8	11.3	1.7
Self-employed workers	22	20	1	1.7	2.9	.2
Unpaid family workers	44	35	9	3.4	5.1	1.5
OCCUPATION						
Total	1,282	680	602	100.0	100.0	100.0
White-collar workers	273	199	73	21.2	29.5	12.3
Professional and technical	1	--	2	.1	--	.3
Managers and administrators, except farm	--	1	--	--	.1	--
Sales workers	236	184	52	18.4	27.0	8.6
Clerical workers	35	16	20	2.7	2.3	3.3
Blue-collar workers	253	231	22	19.7	33.9	3.8
Craft and kindred workers	7	9	--	.5	1.3	--
Operatives, except transport	38	32	6	3.0	4.7	1.0
Transport equipment operatives	1	1	--	.1	.1	--
Nonfarm laborers	206	189	17	16.1	27.7	2.8
Service workers	635	146	489	49.6	21.4	81.0
Private household workers	377	7	370	29.4	1.0	61.3
Other service workers	259	139	119	20.2	20.4	19.7
Farm workers	121	104	17	9.4	15.2	3.0
Farmers and farm managers	1	2	--	.1	.3	--
Farm laborers and supervisors	120	102	18	9.4	15.0	3.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-35. Employment status by race, sex, and age, seasonally adjusted

[Numbers in thousands]

Characteristics	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Total, 16 years and over:													
Civilian labor force	84,313	84,511	84,816	84,854	84,616	85,086	85,482	85,642	85,937	86,268	85,968	86,285	86,471
Employed	78,276	78,384	78,647	78,828	78,923	79,365	79,832	80,249	80,603	80,813	80,752	81,010	81,214
Unemployed	6,037	6,127	6,169	6,026	5,693	5,721	5,650	5,393	5,334	5,455	5,216	5,275	5,257
Unemployment rate	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1	6.1
Males, 20 years and over:													
Civilian labor force	46,489	46,561	46,667	46,624	46,347	46,605	46,584	46,600	46,769	46,967	46,948	47,086	47,057
Employed	43,844	43,926	43,996	44,044	44,035	44,159	44,299	44,434	44,563	44,856	44,811	44,987	45,042
Unemployed	2,645	2,635	2,671	2,580	2,312	2,446	2,285	2,166	2,206	2,111	2,137	2,099	2,015
Unemployment rate	5.7	5.7	5.7	5.5	5.0	5.2	4.9	4.6	4.7	4.5	4.6	4.5	4.3
Females, 20 years and over:													
Civilian labor force	29,876	29,914	30,138	30,211	30,071	30,261	30,588	30,663	30,838	30,879	30,868	30,873	31,188
Employed	27,805	27,775	28,017	28,143	28,170	28,328	28,604	28,781	29,021	28,895	28,958	28,921	29,253
Unemployed	2,071	2,139	2,121	2,068	1,901	1,933	1,984	1,882	1,817	1,984	1,910	1,952	1,935
Unemployment rate	6.9	7.2	7.0	6.8	6.3	6.4	6.5	6.1	5.9	6.4	6.2	6.3	6.2
Both sexes, 16 to 19 years:													
Civilian labor force	7,948	8,036	8,011	8,019	8,198	8,220	8,310	8,379	8,330	8,422	8,152	8,326	8,226
Employed	6,627	6,683	6,634	6,641	6,718	6,878	6,929	7,034	7,019	7,062	6,983	7,102	6,919
Unemployed	1,321	1,353	1,377	1,378	1,480	1,342	1,381	1,345	1,311	1,360	1,169	1,224	1,307
Unemployment rate	16.6	16.8	17.2	17.2	18.1	16.3	16.6	16.1	15.7	16.1	14.3	14.7	15.9
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	10,906	10,910	11,114	11,109	11,030	11,163	11,104	11,071	11,171	11,325	11,236	11,402	11,359
Employed	9,508	9,444	9,618	9,623	9,648	9,697	9,690	9,711	9,730	9,833	9,758	9,744	9,868
Unemployed	1,398	1,466	1,496	1,486	1,382	1,466	1,414	1,360	1,441	1,492	1,478	1,658	1,491
Unemployment rate	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5	13.1
Males, 20 years and over:													
Civilian labor force	5,371	5,388	5,437	5,457	5,464	5,523	5,506	5,432	5,502	5,551	5,494	5,514	5,414
Employed	4,847	4,802	4,806	4,838	4,907	4,976	4,991	4,972	4,959	5,018	4,941	4,867	4,849
Unemployed	524	586	631	619	557	547	515	460	543	533	553	647	565
Unemployment rate	9.8	10.9	11.6	11.3	10.2	9.9	9.4	8.5	9.9	9.6	10.1	11.7	10.4
Females, 20 years and over:													
Civilian labor force	4,639	4,602	4,728	4,714	4,674	4,758	4,725	4,775	4,811	4,784	4,741	4,847	4,972
Employed	4,108	4,072	4,209	4,173	4,171	4,167	4,176	4,188	4,245	4,215	4,223	4,257	4,410
Unemployed	531	530	519	541	503	591	549	587	566	569	518	590	562
Unemployment rate	11.4	11.5	11.0	11.5	10.8	12.4	11.6	12.3	11.8	11.9	10.9	12.2	11.3
Both sexes, 16 to 19 years:													
Civilian labor force	896	920	949	938	892	882	873	864	858	990	1,001	1,041	973
Employed	553	570	603	612	570	554	523	551	526	600	594	620	609
Unemployed	343	350	346	326	322	328	350	313	332	390	407	421	364
Unemployment rate	38.3	38.0	36.5	34.8	36.1	37.2	40.1	36.2	38.7	39.4	40.7	40.4	37.4

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Characteristics													
Total (all civilian workers)	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1	6.9
Males, 20 years and over	6.1	6.2	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1	5.2	4.9
Females, 20 years and over	7.6	7.6	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9	7.1	7.0
Both sexes, 16-19 years	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5	18.1
White	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1	6.1
Black and other	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5	13.1
Household heads	5.4	5.4	5.3	5.1	4.8	4.9	4.6	4.4	4.5	4.3	4.3	4.6	4.5
Married men	4.5	4.4	4.5	4.3	3.8	4.1	3.7	3.6	3.6	3.4	3.4	3.5	3.4
Full-time workers	7.5	7.6	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5	6.8	6.4
Part-time workers	9.6	10.3	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2	8.9	9.5
Unemployed 15 weeks and over ¹	2.4	2.5	2.6	2.6	2.4	2.3	2.0	1.9	1.9	1.8	1.9	1.9	1.9
Labor force time lost ²	8.4	8.6	8.6	8.4	8.0	7.9	7.8	7.4	7.5	7.5	7.4	7.7	7.4
OCCUPATION													
White-collar workers	4.6	4.6	4.7	4.5	4.5	4.6	4.7	4.4	4.3	4.2	4.0	4.2	4.2
Professional and technical	3.0	3.2	3.4	3.3	3.3	3.3	3.1	3.2	2.9	3.0	2.8	3.0	3.0
Managers and administrators, except farm	3.2	3.0	3.1	3.1	3.0	2.8	3.4	2.9	2.8	2.7	2.6	2.5	2.5
Sales workers	5.6	5.4	5.7	5.0	5.7	5.6	5.5	5.1	5.5	5.2	5.4	5.3	5.1
Clerical workers	6.2	6.2	6.3	6.1	6.0	6.4	6.5	6.0	5.7	5.7	5.4	5.8	6.0
Blue-collar workers	9.8	9.8	9.7	9.6	8.4	8.7	8.3	7.8	7.9	7.7	8.2	8.4	7.9
Craft and kindred workers	6.9	6.8	7.0	7.0	6.1	6.5	6.0	4.9	5.6	5.6	5.6	5.5	5.2
Operatives, except transport	11.5	11.6	11.3	11.0	9.2	9.6	9.2	9.3	8.9	9.4	10.1	10.0	10.2
Transport equipment operatives	8.0	8.3	8.2	8.1	7.2	7.7	6.9	6.0	6.7	5.7	7.5	7.6	5.7
Nonfarm laborers	14.6	14.0	13.5	13.9	12.9	12.8	13.2	12.6	12.5	10.9	10.7	12.6	11.1
Service workers	8.7	9.4	9.3	9.0	8.6	8.4	7.9	8.1	9.0	8.2	7.7	8.4	7.8
Farm workers	4.0	4.2	5.1	6.1	4.8	6.7	5.4	4.8	4.4	4.8	3.8	3.7	4.7
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.1	8.2	8.2	7.9	7.4	7.6	7.4	7.0	7.1	6.9	6.8	7.0	6.9
Construction	15.7	15.1	15.4	14.1	14.9	15.2	14.2	12.0	13.0	12.6	12.1	11.5	10.4
Manufacturing	8.1	8.2	8.2	8.2	6.9	7.1	6.6	6.7	6.2	6.3	6.7	7.0	7.2
Durable goods	7.6	8.0	7.7	8.0	6.5	7.0	6.6	6.0	5.7	5.6	6.1	6.5	6.6
Nondurable goods	8.9	8.5	8.9	8.6	7.4	7.3	7.3	7.7	7.0	7.3	7.6	7.7	8.2
Transportation and public utilities	5.4	5.6	5.7	5.2	4.7	4.6	5.1	4.4	4.3	4.1	4.7	4.9	5.0
Wholesale and retail trade	8.9	8.9	9.0	8.2	8.4	8.7	8.4	7.8	8.3	7.9	7.7	8.3	7.6
Finance and service industries	6.4	6.7	6.8	6.8	6.2	6.2	6.4	6.1	6.6	6.0	5.7	5.6	5.7
Government workers	3.9	4.4	4.3	4.4	4.3	4.5	4.0	4.0	4.1	4.2	3.9	4.4	4.0
Agricultural wage and salary workers	11.2	11.5	13.2	14.0	12.6	13.4	13.2	12.3	11.5	11.0	9.7	9.3	10.4

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

² Aggregate hours lost by the unemployed and persons on part-time for economic reasons

³ Includes mining, not shown separately.

A-37. Unemployed persons by duration of unemployment, seasonally adjusted

[Numbers in thousands]

Weeks of unemployment	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Duration													
Less than 5 weeks	2,852	2,952	2,759	2,765	2,762	2,804	3,005	3,100	2,782	3,058	2,830	2,870	2,789
5 to 14 weeks	2,426	2,367	2,494	2,319	2,083	2,107	2,098	1,857	2,093	2,023	1,969	2,338	2,236
15 weeks and over	2,311	2,360	2,517	2,514	2,283	2,182	1,923	1,816	1,836	1,737	1,834	1,808	1,866
15 to 26 weeks	1,118	1,094	1,188	1,130	1,038	947	777	715	800	798	917	966	940
27 weeks and over	1,193	1,266	1,329	1,384	1,245	1,235	1,146	1,101	1,036	939	917	842	926
Average (mean) duration, in weeks	15.4	15.3	15.5	15.6	15.5	14.7	14.0	14.3	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	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	37.6	38.4	35.5	36.4	38.7	39.5	42.8	45.8	41.5	44.9	42.7	40.9	40.5
5 to 14 weeks	32.0	30.8	32.1	30.5	29.2	29.7	29.9	27.4	31.2	29.7	29.7	33.3	32.4
15 weeks and over	30.5	30.7	32.4	33.1	32.0	30.8	27.4	26.8	27.4	25.5	27.6	25.8	27.1
15 to 26 weeks	14.7	14.2	15.3	14.9	14.6	13.4	11.1	10.6	11.9	11.7	13.8	13.8	13.6
27 weeks and over	15.7	16.5	17.1	18.2	17.5	17.4	16.3	16.3	15.4	13.8	13.8	12.0	13.4

HOUSEHOLD DATA
SEASONALLY ADJUSTED

A-38. Rates of unemployment by sex and age, seasonally adjusted

Sex and age	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1	6.9
16 to 19 years	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5	18.1
16 to 17 years	20.6	21.3	21.6	20.7	21.1	19.8	22.2	19.2	20.4	21.3	19.9	20.7	19.8
18 to 19 years	17.5	17.5	17.6	17.7	17.0	17.5	16.6	16.8	16.3	16.5	15.3	15.6	16.9
20 to 24 years	11.7	12.6	12.7	12.5	11.4	12.0	11.4	10.8	10.7	10.5	10.6	11.1	10.7
25 years and over	5.8	5.7	5.6	5.5	5.1	5.2	5.1	4.9	4.8	5.0	5.0	5.0	4.8
25 to 54 years	5.9	6.0	5.9	5.9	5.3	5.3	5.2	5.1	5.1	5.3	5.2	5.3	4.9
55 years and over	4.8	4.6	4.6	4.2	4.1	4.8	4.3	4.1	4.0	3.8	3.9	3.9	4.2
Males, 16 years and over	7.2	7.4	7.5	7.3	6.6	6.9	6.5	6.1	6.3	6.2	6.2	6.3	6.0
16 to 19 years	19.1	19.6	19.7	19.1	17.4	18.6	18.7	17.0	17.0	18.6	16.9	17.6	17.5
16 to 17 years	21.3	22.3	22.2	21.0	19.5	19.3	22.2	17.9	18.7	22.7	20.2	21.7	19.2
18 to 19 years	17.3	17.7	18.1	17.4	16.1	17.9	16.1	16.0	16.0	15.5	14.7	14.8	16.0
20 to 24 years	11.7	12.7	12.6	12.9	11.3	12.1	11.2	10.5	10.6	9.9	10.6	11.3	10.5
25 years and over	5.2	5.1	5.2	5.0	4.6	4.6	4.3	4.1	4.2	4.1	4.2	4.2	3.9
25 to 54 years	5.2	5.3	5.4	5.2	4.7	4.6	4.3	4.3	4.4	4.3	4.3	4.4	3.8
55 years and over	4.6	4.4	4.4	3.9	4.0	4.7	4.4	3.7	3.9	3.3	3.6	3.5	3.9
Females, 16 years and over	8.8	8.8	8.7	8.6	8.3	8.4	8.5	8.2	7.9	8.4	8.0	8.3	8.2
16 to 19 years	18.4	18.3	18.5	18.9	20.1	18.4	18.9	18.8	19.0	18.7	17.9	17.4	18.9
16 to 17 years	19.8	20.1	20.8	20.2	23.0	20.4	22.2	20.8	22.5	19.7	19.5	19.4	20.5
18 to 19 years	17.6	17.3	17.1	18.0	18.1	16.9	17.1	17.7	16.6	17.5	16.0	16.4	17.9
20 to 24 years	11.8	12.4	12.8	11.9	11.4	11.9	11.7	11.2	10.9	11.0	10.5	10.8	10.9
25 years and over	6.7	6.6	6.4	6.4	5.9	6.1	6.1	6.0	5.7	6.3	6.2	6.2	6.1
25 to 54 years	7.1	7.1	6.7	6.9	6.2	6.3	6.6	6.5	6.1	6.7	6.4	6.6	6.4
55 years and over	5.2	4.9	5.1	4.7	4.3	4.9	4.2	4.6	4.3	4.6	4.4	4.6	4.5

A-39. Unemployed persons by reason for unemployment, seasonally adjusted

[Numbers in thousands]

Reason for unemployment	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Job losers	3,727	3,756	3,802	3,736	3,207	3,396	3,143	2,953	3,038	2,927	3,075	3,289	3,144
On layoff	1,222	1,107	1,067	1,057	791	1,001	865	754	749	827	919	1,018	928
Other job losers	2,505	2,649	2,735	2,679	2,416	2,395	2,278	2,199	2,289	2,100	2,156	2,271	2,216
Job leavers	934	936	858	831	932	852	919	846	944	954	841	910	873
Reentrants	1,912	1,927	2,061	1,957	1,991	1,963	2,013	2,001	1,993	1,889	1,822	1,857	1,856
New entrants	926	894	920	942	905	936	1,003	972	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	100.0	100.0	100.0	100.0	100.0
Job losers	49.7	50.0	49.8	50.0	45.6	47.5	44.4	43.6	44.2	42.7	45.8	46.6	46.2
On layoff	16.3	14.7	14.0	14.2	11.2	14.0	12.2	11.1	10.9	12.1	13.7	14.4	13.6
Other job losers	33.4	35.3	35.8	35.9	34.3	33.5	32.2	32.5	33.2	30.7	32.1	32.2	32.5
Job leavers	12.5	12.5	11.2	11.1	13.2	11.9	13.0	12.5	13.7	13.9	12.5	12.9	12.8
Reentrants	25.5	25.6	27.0	26.2	28.3	27.5	28.4	29.5	29.0	27.6	27.1	26.3	27.3
New entrants	12.3	11.9	12.0	12.6	12.9	13.1	14.2	14.4	13.0	15.7	14.5	14.2	13.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.9	3.9	4.0	3.9	3.4	3.5	3.3	3.1	3.1	3.0	3.2	3.4	3.2
Job leavers	1.0	1.0	.9	.9	1.0	.9	1.0	.9	1.0	1.0	.9	.9	.9
Reentrants	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	1.9	1.9	1.9	1.9
New entrants	1.0	.9	1.0	1.0	.9	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-40. Employed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	87,794	87,738	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561	90,771	91,095
16 to 19 years	7,187	7,243	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555	7,745	7,539
16 to 17 years	2,916	2,861	2,882	2,914	2,906	3,017	2,972	3,092	3,044	3,056	3,029	3,111	3,134
18 to 19 years	4,319	4,380	4,356	4,332	4,396	4,402	4,461	4,527	4,499	4,605	4,507	4,616	4,451
20 to 24 years	12,321	12,279	12,378	12,459	12,598	12,634	12,706	12,710	12,758	12,986	12,901	12,887	13,008
25 years and over	68,317	68,257	68,533	68,762	68,759	68,980	69,336	69,744	70,082	70,014	70,033	70,032	70,582
25 to 54 years	54,751	54,688	54,873	55,059	55,239	55,511	55,787	56,010	56,233	56,356	56,456	56,496	56,828
55 years and over	13,566	13,599	13,644	13,702	13,564	13,538	13,530	13,698	13,780	13,671	13,602	13,586	13,757
Males, 16 years and over	52,546	52,576	52,643	52,799	52,918	53,046	53,270	53,575	53,722	53,987	53,900	53,958	53,966
16 to 19 years	3,845	3,892	3,870	3,940	3,957	3,955	4,003	4,110	4,191	4,128	4,106	4,104	4,082
16 to 17 years	1,587	1,588	1,577	1,622	1,588	1,617	1,613	1,714	1,734	1,640	1,674	1,702	1,729
18 to 19 years	2,298	2,301	2,289	2,316	2,358	2,358	2,384	2,433	2,481	2,451	2,420	2,392	2,391
20 to 24 years	6,778	6,787	6,832	6,879	6,975	6,951	6,988	6,958	6,929	7,069	7,036	7,034	7,041
25 years and over	41,955	41,922	41,931	42,016	41,993	42,160	42,298	42,500	42,639	42,809	42,687	42,708	42,881
25 to 54 years	33,468	33,505	33,478	33,529	33,594	33,799	33,908	34,029	34,070	34,190	34,123	34,175	34,358
55 years and over	8,464	8,461	8,460	8,500	8,449	8,384	8,395	8,461	8,543	8,592	8,558	8,524	8,502
Females, 16 years and over	35,248	35,162	35,577	35,642	35,640	35,916	36,205	36,448	36,686	36,692	36,661	36,813	37,129
16 to 19 years	3,342	3,351	3,369	3,302	3,309	3,439	3,455	3,463	3,398	3,576	3,449	3,641	3,457
16 to 17 years	1,329	1,273	1,305	1,292	1,318	1,400	1,359	1,378	1,310	1,416	1,355	1,409	1,405
18 to 19 years	2,021	2,079	2,067	2,016	2,015	2,044	2,077	2,094	2,081	2,154	2,087	2,224	2,060
20 to 24 years	5,543	5,492	5,546	5,580	5,623	5,683	5,718	5,752	5,829	5,917	5,865	5,853	5,967
25 years and over	26,362	26,335	26,602	26,746	26,766	26,820	27,038	27,244	27,443	27,205	27,346	27,324	27,701
25 to 54 years	21,283	21,183	21,395	21,530	21,645	21,712	21,879	21,981	22,163	22,166	22,333	22,321	22,470
55 years and over	5,102	5,138	5,184	5,202	5,115	5,154	5,135	5,237	5,237	5,079	5,044	5,062	5,255

A-41. Unemployed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	7,448	7,564	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744	6,926	6,773
16 to 19 years	1,664	1,703	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589	1,641	1,671
16 to 17 years	758	776	792	760	777	746	847	736	779	829	752	811	773
18 to 19 years	913	930	930	930	901	931	886	916	873	907	815	851	905
20 to 24 years	1,639	1,767	1,802	1,779	1,617	1,722	1,638	1,545	1,533	1,516	1,522	1,609	1,559
25 years and over	4,180	4,106	4,102	4,027	3,681	3,766	3,689	3,580	3,565	3,667	3,679	3,662	3,561
25 to 54 years	3,448	3,470	3,438	3,449	3,090	3,088	3,086	3,039	3,006	3,137	3,076	3,147	2,919
55 years and over	688	652	664	608	583	679	608	579	580	533	552	550	599
Males, 16 years and over	4,060	4,178	4,244	4,152	3,714	3,904	3,712	3,466	3,609	3,580	3,538	3,609	3,439
16 to 19 years	910	950	951	933	833	903	918	842	858	942	838	875	866
16 to 17 years	429	455	449	432	384	387	459	374	399	481	424	472	410
18 to 19 years	481	496	505	487	457	515	459	465	459	449	417	414	456
20 to 24 years	899	990	987	1,022	892	958	879	819	823	781	833	899	828
25 years and over	2,282	2,236	2,281	2,194	2,002	2,034	1,919	1,835	1,892	1,843	1,874	1,856	1,759
25 to 54 years	1,830	1,862	1,902	1,853	1,656	1,616	1,534	1,517	1,563	1,548	1,551	1,566	1,370
55 years and over	410	385	387	349	354	414	385	328	343	289	319	307	349
Females, 16 years and over	3,388	3,386	3,407	3,367	3,244	3,279	3,352	3,271	3,141	3,382	3,206	3,317	3,334
16 to 19 years	754	753	767	769	835	774	807	801	795	823	751	766	805
16 to 17 years	329	321	343	328	393	359	388	362	380	348	328	339	363
18 to 19 years	432	434	425	443	444	416	427	451	414	458	398	437	449
20 to 24 years	740	777	815	757	725	764	759	726	710	735	689	710	731
25 years and over	1,898	1,870	1,821	1,833	1,679	1,732	1,770	1,745	1,673	1,824	1,805	1,806	1,802
25 to 54 years	1,618	1,608	1,536	1,596	1,434	1,472	1,552	1,522	1,443	1,589	1,525	1,581	1,549
55 years and over	278	267	277	259	229	265	223	251	237	244	233	243	250

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-42. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Selected categories	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total employed	87,794	87,738	88,220	88,441	88,588	88,962	89,475	90,023	90,408	90,679	90,561	90,771	91,095
Household heads	51,185	51,159	51,356	51,525	51,710	51,729	51,970	52,230	52,314	52,437	52,295	52,395	52,520
Married men, spouse present	38,140	37,989	37,895	37,998	38,195	38,159	38,294	38,536	38,509	38,582	38,434	38,316	38,358
Married women, spouse present	20,470	20,384	20,482	20,498	20,511	20,756	20,963	21,076	20,962	20,831	20,846	20,814	21,232
Occupation													
White-collar workers	44,023	44,207	44,297	44,648	44,521	44,451	44,495	44,851	44,766	44,798	45,105	45,114	45,437
Professional and technical	13,581	13,427	13,597	13,544	13,444	13,408	13,439	13,591	13,483	13,638	13,863	13,720	13,777
Managers and administrators, except farm	9,446	9,436	9,491	9,564	9,613	9,502	9,543	9,434	9,400	9,570	9,583	9,688	9,777
Sales workers	5,555	5,551	5,597	5,815	5,633	5,815	5,617	5,765	5,695	5,673	5,716	5,722	5,748
Clerical workers	15,441	15,793	15,612	15,725	15,831	15,726	15,896	16,061	16,188	15,917	15,943	15,984	16,135
Blue-collar workers	28,745	28,921	29,001	29,150	29,634	29,917	30,025	30,193	30,423	30,432	30,063	30,231	30,282
Craft and kindred workers	11,340	11,352	11,353	11,302	11,626	11,668	11,709	11,896	11,894	11,891	11,887	11,931	11,974
Operatives, except transport	9,820	9,885	9,970	10,231	10,341	10,341	10,574	10,394	10,530	10,378	10,270	10,242	10,211
Transport equipment operatives	3,275	3,297	3,258	3,283	3,358	3,448	3,487	3,482	3,552	3,551	3,397	3,462	3,541
Nonfarm laborers	4,310	4,387	4,420	4,334	4,309	4,450	4,255	4,421	4,447	4,612	4,509	4,596	4,556
Service workers	12,165	11,972	12,026	11,880	11,874	12,017	12,272	12,254	12,372	12,697	12,460	12,591	12,604
Farm workers	2,772	2,829	2,743	2,791	2,624	2,663	2,652	2,779	2,904	2,838	2,743	2,778	2,676
Major industry and class of worker													
Agriculture:													
Wage and salary workers	1,309	1,310	1,285	1,380	1,246	1,280	1,282	1,310	1,325	1,381	1,271	1,331	1,350
Self-employed workers	1,608	1,671	1,627	1,530	1,490	1,511	1,513	1,548	1,655	1,595	1,561	1,604	1,566
Unpaid family workers	344	343	342	340	354	338	319	366	393	378	363	315	275
Nonagricultural industries:													
Wage and salary workers	78,440	78,498	78,766	78,957	79,205	79,520	79,869	80,306	80,429	80,814	80,738	80,951	81,341
Private households	1,400	1,377	1,448	1,384	1,391	1,317	1,313	1,320	1,305	1,388	1,445	1,401	1,409
Government	15,143	14,998	15,045	14,967	15,013	14,913	14,923	14,960	15,075	14,961	15,131	15,282	15,296
Other	61,897	62,123	62,273	62,606	62,801	63,290	63,633	64,026	64,049	64,465	64,162	64,268	64,636
Self-employed workers	5,701	5,632	5,771	5,798	5,853	5,854	5,919	5,954	6,050	5,997	5,896	6,151	6,072
Unpaid family workers	433	448	449	460	419	516	536	499	550	518	523	469	504
Persons at work ¹													
Nonagricultural industries	79,796	79,469	79,940	80,369	79,832	80,837	81,330	81,005	81,771	81,618	82,572	82,613	82,799
Full-time schedules	64,965	64,955	65,385	65,846	65,700	66,144	66,659	66,436	67,219	67,126	67,867	67,755	67,706
Part time for economic reasons	3,376	3,448	3,545	3,454	3,320	3,438	3,276	3,174	3,290	3,368	3,371	3,199	3,315
Usually work full time	1,378	1,339	1,289	1,234	1,112	1,335	1,212	1,167	1,314	1,341	1,440	1,196	1,246
Usually work part time	1,998	2,109	2,256	2,220	2,208	2,103	2,064	2,007	1,976	2,027	1,931	2,003	2,069
Part time for noneconomic reasons	11,455	11,066	11,010	11,069	10,812	11,255	11,395	11,395	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 dispute.

HOUSEHOLD DATA

A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age

[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
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,735	6,813	6,815	6,735	6,865	6,819	6,817	6,813	6,815
Civilian labor force	6,316	6,560	6,494	6,364	6,508	6,500	6,517	6,543	6,527
Employed	5,863	6,121	6,095	5,795	6,019	6,004	6,000	6,032	6,025
Unemployed	453	439	399	569	489	496	517	511	502
Unemployment rate	7.2	6.7	6.1	8.9	7.5	7.6	7.9	7.8	7.7
20 to 24 years									
Civilian noninstitutional population ²	1,073	1,040	1,036	1,073	1,073	1,058	1,050	1,040	1,036
Civilian labor force	933	963	929	937	921	937	942	947	936
Employed	784	808	774	757	796	767	788	782	748
Unemployed	149	155	155	180	125	170	154	165	188
Unemployment rate	16.0	16.1	16.7	19.2	13.6	18.1	16.3	17.4	20.1
25 to 29 years									
Civilian noninstitutional population ²	3,227	2,994	2,960	3,227	3,012	3,062	3,028	2,994	2,960
Civilian labor force	3,013	2,887	2,814	3,046	2,872	2,923	2,895	2,872	2,836
Employed	2,819	2,717	2,676	2,804	2,647	2,715	2,688	2,690	2,663
Unemployed	194	170	138	242	225	208	207	182	173
Unemployment rate	6.4	5.9	4.9	7.9	7.8	7.1	7.2	6.3	6.1
30 to 34 years									
Civilian noninstitutional population ²	2,435	2,779	2,819	2,435	2,780	2,699	2,739	2,779	2,819
Civilian labor force	2,370	2,710	2,751	2,381	2,715	2,640	2,680	2,724	2,755
Employed	2,260	2,596	2,645	2,234	2,576	2,522	2,524	2,560	2,614
Unemployed	110	114	106	147	139	118	156	164	141
Unemployment rate	4.6	4.2	3.9	6.2	5.1	4.5	5.8	6.0	5.1
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	16,911	17,712	17,781	16,911	17,432	17,556	17,640	17,172	17,781
Civilian labor force	15,230	16,468	15,953	15,230	15,646	15,870	15,917	16,604	15,928
Employed	14,120	15,290	14,961	13,980	14,527	14,780	14,713	14,743	14,809
Unemployed	1,110	1,178	992	1,250	1,119	1,090	1,204	1,261	1,119
Unemployment rate	7.3	7.2	6.2	8.2	7.2	6.9	7.6	7.9	7.0
20 to 24 years									
Civilian noninstitutional population ²	7,968	8,183	8,204	7,968	8,104	8,133	8,158	8,183	8,204
Civilian labor force	6,678	7,394	6,886	6,718	6,831	6,909	6,902	6,970	6,918
Employed	6,023	6,715	6,301	6,013	6,135	6,293	6,222	6,241	6,288
Unemployed	655	679	585	705	696	616	680	729	630
Unemployment rate	9.8	9.2	8.5	10.5	10.2	8.9	9.9	10.5	9.1
25 to 29 years									
Civilian noninstitutional population ²	5,141	5,354	5,404	5,141	5,238	5,276	5,307	5,354	5,404
Civilian labor force	4,902	5,083	5,080	4,863	4,990	5,006	5,015	5,070	5,030
Employed	4,601	4,777	4,824	4,515	4,722	4,689	4,674	4,734	4,734
Unemployed	301	306	256	348	268	317	341	336	296
Unemployment rate	6.1	6.0	5.0	7.2	5.4	6.3	6.8	6.6	5.9
30 to 34 years									
Civilian noninstitutional population ²	3,802	4,175	4,173	3,802	4,000	4,147	4,175	4,175	4,173
Civilian labor force	3,650	3,991	3,987	3,649	3,825	3,955	4,000	3,964	3,980
Employed	3,496	3,798	3,836	3,452	3,670	3,798	3,817	3,768	3,787
Unemployed	154	193	151	197	155	157	183	196	193
Unemployment rate	4.2	4.8	3.8	5.4	4.1	4.0	4.6	4.9	4.8

¹ Vietnam-era veterans are those who served between August 5, 1964, and May 7, 1975.

² Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted

(Numbers in thousands)

Full- and part-time employment status, sex, and age	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
FULL TIME													
Total, 16 years and over:													
Civilian labor force	77,989	78,438	78,564	79,021	79,289	79,652	80,025	80,657	81,053	81,710	81,917	82,758	83,184
Employed ¹	74,006	73,603	72,485	72,299	72,684	73,175	74,308	74,981	75,033	75,553	76,375	77,380	77,702
Unemployed	3,983	4,835	6,079	6,722	6,605	6,477	5,717	5,676	6,020	6,157	5,542	5,378	5,482
Unemployment rate	5.1	6.2	7.7	8.5	8.3	8.1	7.1	7.0	7.4	7.5	6.8	6.5	6.6
Males, 20 years and over:													
Civilian labor force	47,872	48,091	48,011	48,207	48,492	48,562	48,479	48,792	49,209	49,442	49,325	49,588	49,810
Employed ¹	46,124	45,848	45,064	44,880	45,118	45,262	45,774	46,110	46,291	46,409	46,675	47,147	47,323
Unemployed	1,749	2,243	2,946	3,327	3,374	3,299	2,705	2,682	2,918	3,033	2,650	2,441	2,487
Unemployment rate	3.7	4.7	6.1	6.9	7.0	6.8	5.6	5.5	5.9	6.1	5.4	4.9	5.0
Females, 20 years and over:													
Civilian labor force	25,193	25,315	25,732	25,887	25,961	26,330	26,636	26,901	27,031	27,401	27,616	28,040	28,348
Employed ¹	23,797	23,633	23,619	23,590	23,805	24,158	24,615	24,920	24,902	25,258	25,661	26,053	26,277
Unemployed	1,397	1,682	2,113	2,297	2,157	2,173	2,021	1,982	2,129	2,143	1,955	1,987	2,071
Unemployment rate	5.5	6.6	8.2	8.9	8.3	8.3	7.6	7.4	7.9	7.8	7.1	7.1	7.3
Both sexes, 16-19 years:													
Civilian labor force	4,924	5,031	4,821	4,926	4,836	4,760	4,911	4,964	4,813	4,867	4,975	5,130	5,027
Employed ¹	4,086	4,122	3,801	3,828	3,762	3,755	3,920	3,951	3,841	3,886	4,038	4,180	4,102
Unemployed	838	909	1,020	1,098	1,074	1,005	991	1,013	973	981	937	950	924
Unemployment rate	17.0	18.1	21.2	22.3	22.2	21.1	20.2	20.4	20.2	20.2	18.8	18.5	18.4
PART TIME													
Total, 16 years and over:													
Civilian labor force	13,231	13,250	13,307	13,530	13,849	13,400	13,659	13,903	14,291	14,006	14,224	14,405	14,454
Employed ¹	12,083	12,006	11,924	12,117	12,453	12,062	12,254	12,518	12,855	12,578	12,702	12,940	13,125
Unemployed	1,148	1,245	1,382	1,413	1,396	1,338	1,405	1,386	1,435	1,428	1,522	1,465	1,329
Unemployment rate	8.7	9.4	10.4	10.4	10.1	10.4	10.3	10.0	10.0	10.2	10.7	10.2	9.2
Males, 20 years and over:													
Civilian labor force	2,485	2,524	2,535	2,602	2,641	2,495	2,543	2,597	2,547	2,585	2,696	2,683	2,709
Employed ¹	2,312	2,343	2,332	2,365	2,415	2,271	2,309	2,357	2,337	2,371	2,452	2,450	2,517
Unemployed	173	181	202	237	227	224	233	240	210	214	243	233	192
Unemployment rate	7.0	7.2	8.0	9.1	8.6	9.0	9.2	9.3	8.2	8.3	9.0	8.7	7.1
Females, 20 years and over:													
Civilian labor force	6,925	6,837	6,827	7,001	7,147	6,989	7,151	7,186	7,485	7,392	7,434	7,559	7,485
Employed ¹	6,545	6,438	6,357	6,516	6,682	6,523	6,699	6,725	6,974	6,857	6,913	7,064	7,050
Unemployed	381	399	471	485	465	465	452	461	511	485	521	495	435
Unemployment rate	5.5	5.8	6.9	6.9	6.5	6.7	6.3	6.4	6.8	6.6	7.0	6.5	5.8
Both sexes, 16-19 years:													
Civilian labor force	3,821	3,889	3,945	3,927	4,061	3,976	3,965	4,120	4,259	4,079	4,094	4,162	4,260
Employed ¹	3,227	3,225	3,235	3,236	3,356	3,267	3,246	3,436	3,544	3,350	3,336	3,425	3,558
Unemployed	594	664	709	691	704	708	720	684	715	729	758	737	702
Unemployment rate	15.5	17.1	18.0	17.6	17.3	17.8	18.1	16.6	16.8	17.9	18.5	17.7	16.5

¹ Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-46. Employment status by race, sex, and age, seasonally adjusted

[Numbers in thousands]

Characteristics	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Total, 16 years and over:													
Civilian labor force	80,917	81,318	81,469	82,055	82,418	82,505	82,884	83,644	84,323	84,727	85,061	85,949	86,241
Employed	76,796	76,439	75,394	75,402	75,925	76,115	77,166	77,993	78,314	78,620	79,373	80,555	80,992
Unemployed	4,121	4,879	6,075	6,653	6,493	6,390	5,718	5,651	6,010	6,107	5,688	5,394	5,249
Unemployment rate	5.1	6.0	7.5	8.1	7.9	7.7	6.9	6.8	7.1	7.2	6.7	6.3	6.1
Males, 20 years and over:													
Civilian labor force	45,220	45,465	45,340	45,646	45,797	45,777	45,738	46,058	46,377	46,617	46,512	46,779	47,030
Employed	43,636	43,483	42,752	42,690	42,839	42,912	43,368	43,675	43,800	43,989	44,164	44,618	44,947
Unemployed	1,584	1,982	2,589	2,956	2,958	2,864	2,369	2,384	2,577	2,629	2,348	2,161	2,084
Unemployment rate	3.5	4.4	5.7	6.5	6.5	6.3	5.2	5.2	5.6	5.6	5.0	4.6	4.4
Females, 20 years and over:													
Civilian labor force	27,863	27,917	28,263	28,552	28,717	28,917	29,202	29,485	29,877	30,088	30,307	30,793	30,976
Employed	26,437	26,244	26,144	26,296	26,624	26,765	27,228	27,555	27,787	27,978	28,367	28,899	29,044
Unemployed	1,426	1,673	2,119	2,256	2,093	2,151	1,973	1,930	2,090	2,109	1,939	1,894	1,932
Unemployment rate	5.1	6.0	7.5	7.9	7.3	7.4	6.8	6.5	7.0	7.0	6.4	6.2	6.2
Both sexes, 16 to 19 years:													
Civilian labor force	7,834	7,936	7,866	7,857	7,905	7,812	7,944	8,101	8,069	8,022	8,243	8,377	8,235
Employed	6,723	6,712	6,499	6,416	6,462	6,437	6,569	6,763	6,726	6,653	6,842	7,038	7,001
Unemployed	1,111	1,224	1,368	1,441	1,442	1,375	1,375	1,338	1,343	1,369	1,401	1,339	1,233
Unemployment rate	14.2	15.4	17.4	18.3	18.2	17.6	17.3	16.5	16.6	17.1	17.0	16.0	15.0
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	10,343	10,390	10,393	10,457	10,617	10,657	10,773	10,855	10,918	11,044	11,099	11,189	11,332
Employed	9,336	9,179	9,000	8,973	9,121	9,179	9,360	9,454	9,485	9,562	9,678	9,758	9,790
Unemployed	1,008	1,212	1,393	1,484	1,496	1,478	1,413	1,401	1,432	1,483	1,421	1,431	1,542
Unemployment rate	9.7	11.7	13.4	14.2	14.1	13.9	13.1	12.9	13.1	13.4	12.8	12.8	13.6
Males, 20 years and over:													
Civilian labor force	5,138	5,168	5,183	5,186	5,309	5,285	5,254	5,346	5,367	5,427	5,498	5,495	5,474
Employed	4,797	4,728	4,624	4,565	4,668	4,642	4,689	4,804	4,819	4,815	4,958	4,983	4,886
Unemployed	340	439	559	621	641	642	565	542	548	612	540	512	588
Unemployment rate	6.6	8.5	10.8	12.0	12.1	12.2	10.7	10.1	10.2	11.3	9.8	9.3	10.7
Females, 20 years and over:													
Civilian labor force	4,250	4,267	4,276	4,327	4,369	4,430	4,571	4,591	4,624	4,681	4,719	4,790	4,853
Employed	3,903	3,842	3,805	3,811	3,853	3,932	4,059	4,087	4,087	4,151	4,171	4,216	4,297
Unemployed	347	425	471	516	515	498	512	503	537	530	548	574	557
Unemployment rate	8.2	10.0	11.0	11.9	11.8	11.2	11.2	11.0	11.6	11.3	11.6	12.0	11.5
Both sexes, 16 to 19 years:													
Civilian labor force	956	956	934	944	939	943	948	919	927	936	882	904	1,005
Employed	635	608	572	597	600	605	612	563	579	595	549	559	608
Unemployed	320	348	362	347	340	338	336	356	348	341	333	345	397
Unemployment rate	33.5	36.4	38.8	36.7	36.2	35.9	35.4	38.8	37.5	36.4	37.8	38.2	39.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-47. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTICS													
Total (all civilian workers)	5.6	6.6	8.1	8.8	8.6	8.4	7.6	7.4	7.8	7.9	7.4	7.0	7.0
Males, 20 years and over	3.8	4.8	6.2	7.0	7.0	6.9	5.8	5.7	6.0	6.2	5.6	5.1	5.1
Females, 20 years and over	5.6	6.5	8.0	8.4	7.9	7.9	7.4	7.1	7.7	7.6	7.1	6.9	7.0
Both sexes, 16-19 years	16.3	17.7	19.6	20.3	20.2	19.6	19.2	18.8	18.8	19.1	18.6	18.1	17.7
White	5.1	6.0	7.5	8.1	7.9	7.7	6.9	6.8	7.1	7.2	6.7	6.3	6.1
Black and other	9.7	11.7	13.4	14.2	14.1	13.9	13.1	12.9	13.1	13.4	12.8	12.8	13.6
Household heads, total	3.3	4.1	5.4	6.0	5.9	5.8	5.0	4.9	5.3	5.3	4.8	4.4	4.5
Males	2.9	3.8	5.0	5.7	5.7	5.5	4.6	4.5	4.8	4.9	4.3	3.9	3.8
With relatives	2.7	3.4	4.7	5.4	5.2	5.0	4.1	4.0	4.3	4.4	3.8	3.5	3.4
Without relatives	4.9	7.1	8.5	8.9	9.3	9.9	8.5	8.7	8.6	8.7	8.0	7.1	6.6
Females	5.3	6.5	7.3	7.7	7.5	8.1	7.7	6.8	7.9	7.7	7.1	6.7	7.6
With relatives	6.7	8.1	9.4	9.9	10.2	10.4	9.9	9.2	10.6	10.3	9.3	9.0	10.0
Without relatives	4.0	5.0	5.3	5.6	5.1	6.0	5.5	4.6	5.4	5.3	5.0	4.7	5.2
Married men, spouse present	2.8	3.5	4.7	5.5	5.4	5.1	4.1	4.1	4.4	4.4	3.9	3.5	3.4
Full-time workers	5.1	6.2	7.7	8.5	8.3	8.1	7.1	7.0	7.4	7.5	6.8	6.5	6.6
Part-time workers	8.7	9.4	10.4	10.4	10.1	10.4	10.3	10.0	10.0	10.2	10.7	10.2	9.2
Unemployed 15 weeks and over ¹	1.0	1.3	2.0	2.8	3.1	3.1	2.7	2.2	2.4	2.6	2.2	1.8	1.9
Labor force time lost ²	6.2	7.2	8.9	9.4	9.1	9.0	8.2	8.0	8.3	8.5	7.9	7.5	7.5
OCCUPATION													
White-collar workers	3.4	3.7	4.5	5.0	4.7	4.8	4.6	4.6	4.7	4.6	4.6	4.3	4.2
Professional and technical	2.3	2.5	3.0	3.4	3.3	3.3	3.3	3.1	3.1	3.3	3.2	3.1	2.9
Managers and administrators, except farm	1.8	2.3	2.9	3.1	3.1	3.0	2.9	3.0	3.4	3.1	3.0	2.8	2.5
Sales workers	4.0	5.0	5.6	6.0	5.6	6.0	5.5	5.1	5.6	6.0	5.6	5.3	5.3
Clerical workers	4.8	5.0	6.2	6.9	6.6	6.6	6.3	6.5	6.6	6.2	6.3	5.8	5.8
Blue-collar workers	6.8	8.6	11.1	12.6	12.1	11.2	9.3	9.0	9.8	9.7	8.5	7.8	8.2
Craft and kindred workers	4.5	5.6	7.4	8.9	8.8	8.0	6.8	6.7	7.0	7.0	6.2	5.4	5.4
Operatives, except transport	8.3	10.9	14.4	16.0	14.9	13.3	10.4	10.4	11.3	11.3	9.3	9.2	10.1
Transport equipment operatives	4.9	6.2	7.5	8.4	9.2	9.2	7.9	6.7	8.1	8.2	7.2	6.1	7.0
Nonfarm laborers	10.6	12.0	14.8	16.4	15.9	15.7	13.8	13.2	14.2	13.8	13.0	12.0	11.5
Service workers	6.4	6.9	7.9	8.5	8.9	9.0	8.8	8.4	8.6	9.2	8.3	8.5	8.0
Farm workers	2.8	2.6	3.5	3.3	3.5	3.9	4.2	4.4	4.0	5.1	5.6	4.7	4.0
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.8	7.0	8.8	9.7	9.3	9.0	7.9	7.6	8.1	8.1	7.4	7.0	6.9
Construction	10.9	13.6	16.8	20.1	19.1	17.5	15.8	15.3	16.4	14.9	14.8	12.5	11.3
Manufacturing	5.8	7.7	10.6	11.9	11.2	10.1	7.8	7.5	8.0	8.2	6.9	6.4	7.0
Durable goods	5.2	7.5	10.6	12.3	12.0	10.5	7.9	7.4	7.6	7.9	6.5	5.7	6.4
Nondurable goods	6.6	8.1	10.6	11.3	10.0	9.6	7.7	7.7	8.7	8.7	7.4	7.3	7.8
Transportation and public utilities	3.4	3.8	5.5	6.1	5.7	5.2	4.7	4.7	5.1	5.5	4.8	4.3	4.9
Wholesale and retail trade	6.5	7.3	8.3	8.8	8.8	9.1	8.6	8.3	8.8	8.7	8.5	8.0	7.9
Finance and service industries	4.7	5.2	6.3	6.7	6.5	6.9	6.5	6.3	6.5	6.8	6.3	6.2	5.7
Government workers	3.0	3.3	3.6	4.1	4.1	4.2	4.4	4.5	4.3	4.4	4.3	4.1	4.1
Agricultural wage and salary workers	7.5	7.8	10.1	10.1	10.2	11.0	11.0	11.6	11.1	12.9	13.1	11.6	9.8

¹ Unemployment as a percent of civilian labor force.

as percent of potentially available labor force hours.

² Aggregate hours lost by the unemployed and persons on part-time for economic reasons

³ Includes mining, not shown separately.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-48. Unemployed persons by duration of unemployment, seasonally adjusted

[Numbers in thousands]

Weeks of unemployment	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Duration													
Less than 5 weeks	2,592	2,921	3,071	2,934	2,824	2,758	2,634	2,838	2,883	2,825	2,857	2,980	2,830
5 to 14 weeks	1,583	1,956	2,557	2,569	2,355	2,340	1,957	2,032	2,317	2,393	2,096	1,991	2,181
15 weeks and over	947	1,190	1,803	2,553	2,875	2,888	2,546	2,106	2,300	2,464	2,129	1,796	1,836
15 to 26 weeks	574	733	1,098	1,462	1,427	1,288	1,001	822	1,101	1,137	921	771	941
27 weeks and over	373	456	705	1,091	1,448	1,600	1,545	1,284	1,199	1,326	1,209	1,025	895
Average (mean) duration in weeks	9.7	9.9	11.3	13.9	15.5	16.4	16.4	15.9	15.5	15.5	14.7	14.5	13.9
Percent distribution													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	50.6	48.1	41.3	36.4	35.1	34.5	36.9	40.7	38.4	36.8	40.3	44.0	41.3
5 to 14 weeks	30.9	32.2	34.4	31.9	29.2	29.3	27.4	29.1	30.9	31.2	29.6	29.4	31.9
15 weeks and over	18.5	19.6	24.3	31.7	35.7	36.2	35.7	30.2	30.7	32.1	30.1	26.5	26.8
15 to 26 weeks	11.2	12.1	14.8	18.1	17.7	16.1	14.0	11.8	14.7	14.8	13.0	11.4	13.7
27 weeks and over	7.3	7.5	9.5	13.5	18.0	20.0	21.6	18.4	16.0	17.3	17.1	15.1	13.1

A-49. Rates of unemployment by sex and age, seasonally adjusted

Sex and age	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	5.6	6.6	8.1	8.8	8.6	8.4	7.6	7.4	7.8	7.9	7.4	7.0	7.0
16 to 19 years	16.3	17.7	19.6	20.3	20.2	19.6	19.2	18.8	18.8	19.1	18.6	18.1	17.7
16 to 17 years	18.3	19.9	21.2	21.2	22.0	21.0	20.9	21.3	21.2	21.2	21.0	20.3	20.1
18 to 19 years	14.9	16.0	18.5	19.5	18.9	18.5	18.1	17.0	17.1	17.6	17.0	16.5	15.9
20 to 24 years	9.3	10.6	13.1	14.0	13.8	13.7	12.2	11.6	11.7	12.6	11.6	10.7	10.8
25 years and over	3.6	4.5	5.7	6.4	6.2	6.1	5.3	5.2	5.8	5.6	5.1	4.9	4.9
25 to 54 years	3.7	4.7	6.0	6.8	6.5	6.3	5.4	5.4	6.0	5.9	5.3	5.2	5.1
55 years and over	3.1	3.4	4.4	4.9	4.8	5.0	4.6	4.5	4.8	4.5	4.4	3.9	4.0
Males, 16 years and over	4.9	5.9	7.4	8.2	8.2	7.9	6.9	6.9	7.1	7.4	6.6	6.2	6.1
16 to 19 years	15.8	17.4	19.7	20.8	20.4	19.4	19.4	19.3	18.7	19.5	18.2	17.5	17.3
16 to 17 years	18.5	20.0	21.3	21.9	22.4	20.6	21.1	21.7	21.2	21.8	20.3	19.8	20.4
18 to 19 years	13.9	15.3	18.5	19.9	19.0	18.6	18.3	17.5	16.9	17.7	16.7	15.8	15.2
20 to 24 years	8.9	10.5	13.5	14.8	15.0	14.3	12.3	11.4	11.8	12.8	11.5	10.4	10.8
25 years and over	3.0	3.8	5.0	5.7	5.7	5.6	4.6	4.7	5.1	5.1	4.5	4.2	4.1
25 to 54 years	3.0	4.0	5.2	6.0	6.0	5.8	4.7	4.7	5.2	5.3	4.5	4.3	4.2
55 years and over	2.9	3.1	4.2	4.6	4.6	4.8	4.5	4.5	4.5	4.2	4.4	3.6	3.7
Females, 16 years and over	6.8	7.8	9.2	9.6	9.2	9.2	8.6	8.3	8.9	8.7	8.4	8.2	8.2
16 to 19 years	16.9	18.0	19.5	19.6	20.0	19.7	19.0	18.2	19.0	18.6	19.1	18.8	18.0
16 to 17 years	17.9	19.8	21.2	20.4	21.5	21.5	20.5	20.8	21.2	20.4	21.9	21.0	19.8
18 to 19 years	16.1	16.7	18.4	19.1	18.8	18.4	18.0	16.4	17.4	17.4	17.3	17.3	16.8
20 to 24 years	9.9	10.6	12.6	13.0	12.3	12.9	12.1	11.7	11.4	12.4	11.7	11.0	10.7
25 years and over	4.6	5.6	6.9	7.4	7.0	6.8	6.3	6.1	6.8	6.5	6.0	6.0	6.2
25 to 54 years	4.8	5.9	7.4	8.0	7.4	7.2	6.6	6.5	7.1	6.9	6.4	6.4	6.5
55 years and over	3.3	4.1	4.8	5.3	5.0	5.4	4.8	4.6	5.4	4.9	4.4	4.5	4.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-50. Unemployed persons by reason for unemployment, seasonally adjusted

[In thousands]

Reason for unemployment	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Job losers	2,167	2,866	4,003	4,637	4,645	4,257	3,524	3,516	3,758	3,765	3,249	3,973	3,169
On layoff	716	1,065	1,586	1,894	1,789	1,500	979	995	1,185	1,077	886	777	955
Other job losers	1,451	1,801	2,418	2,743	2,856	2,757	2,546	2,521	2,573	2,688	2,363	2,196	2,214
Job leavers	762	788	770	828	805	848	822	876	962	875	901	915	875
Reentrants	1,523	1,626	1,809	1,925	1,842	1,895	1,885	1,809	1,911	1,982	1,989	1,961	1,845
New entrants	685	756	777	773	851	847	858	860	892	919	948	981	970
PERCENT DISTRIBUTION													
Job losers	42.2	47.5	54.4	56.8	57.0	54.3	49.7	49.8	50.0	49.9	45.8	43.5	46.2
On layoff	13.9	17.6	21.5	23.2	22.0	19.1	13.8	14.1	15.8	14.3	12.5	11.4	13.9
Other job losers	28.2	29.8	32.9	33.6	35.1	35.1	35.9	35.7	34.2	35.6	33.3	32.2	32.3
Job leavers	14.8	13.1	10.5	10.1	9.9	10.8	11.6	12.4	12.8	11.6	12.7	13.4	12.8
Reentrants	29.6	26.9	24.6	23.6	22.6	24.1	26.6	25.6	25.4	26.3	28.1	28.7	26.9
New entrants	13.3	12.5	10.6	9.5	10.5	10.8	12.1	12.2	11.9	12.2	13.4	14.4	14.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.4	3.1	4.4	5.0	5.0	4.6	3.8	3.7	3.9	3.9	3.4	3.1	3.2
On layoff .....	.8	.9	.8	.9	.9	.9	.9	.9	1.0	.9	.9	.9	.9
Other job losers	1.7	1.8	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.1	2.1	2.0	1.9
Job leavers .....	.8	.8	.8	.8	.9	.9	.9	.9	.9	1.0	1.0	1.0	1.0

A-51. Employed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	86,139	85,577	84,392	84,406	85,028	85,247	86,514	87,501	87,804	88,133	88,998	90,370	90,809
16 to 19 years	7,355	7,318	7,064	7,025	7,040	7,038	7,179	7,348	7,295	7,241	7,373	7,622	7,613
16 to 17 years	3,085	3,043	2,959	2,891	2,878	2,891	2,916	2,935	2,960	2,886	2,965	3,064	3,091
18 to 19 years	4,269	4,273	4,117	4,128	4,186	4,147	4,261	4,398	4,350	4,356	4,420	4,544	4,525
20 to 24 years	11,909	11,903	11,617	11,573	11,696	11,665	12,033	12,328	12,360	12,372	12,646	12,818	12,932
25 years and over	66,854	66,359	65,725	65,811	66,281	66,540	67,321	67,826	68,123	68,517	69,025	69,947	70,216
25 to 54 years	53,183	52,813	52,203	52,267	52,817	53,111	53,873	54,389	54,645	54,873	55,512	56,200	56,593
55 years and over	13,680	13,557	13,535	13,516	13,484	13,443	13,468	13,404	13,494	13,648	13,544	13,716	13,648
Males, 16 years and over	52,474	52,188	51,219	51,041	51,309	51,323	51,936	52,406	52,550	52,673	53,078	53,761	53,941
16 to 19 years	4,036	4,002	3,820	3,787	3,798	3,797	3,863	3,926	3,922	3,901	3,972	4,143	4,097
16 to 17 years	1,721	1,698	1,633	1,601	1,587	1,585	1,581	1,592	1,627	1,596	1,606	1,696	1,702
18 to 19 years	2,321	2,302	2,198	2,182	2,229	2,206	2,277	2,323	2,307	2,302	2,374	2,434	2,401
20 to 24 years	6,593	6,586	6,364	6,286	6,341	6,366	6,612	6,761	6,757	6,833	6,971	6,985	7,037
25 years and over	41,824	41,617	41,032	40,974	41,156	41,175	41,464	41,725	41,842	41,956	42,150	42,649	42,759
25 to 54 years	33,138	32,956	32,471	32,462	32,661	32,803	33,137	33,355	33,399	33,504	33,767	34,096	34,219
55 years and over	8,681	8,674	8,561	8,502	8,489	8,390	8,329	8,360	8,436	8,474	8,409	8,532	8,528
Females, 16 years and over	33,665	33,389	33,172	33,365	33,719	33,924	34,578	35,094	35,254	35,460	35,920	36,609	36,868
16 to 19 years	3,319	3,316	3,244	3,237	3,242	3,241	3,317	3,422	3,373	3,341	3,401	3,479	3,516
16 to 17 years	1,364	1,345	1,326	1,291	1,291	1,306	1,335	1,343	1,333	1,290	1,359	1,368	1,390
18 to 19 years	1,948	1,971	1,919	1,946	1,957	1,941	1,984	2,075	2,043	2,054	2,045	2,110	2,124
20 to 24 years	5,316	5,317	5,252	5,287	5,354	5,299	5,422	5,568	5,603	5,539	5,675	5,833	5,895
25 years and over	25,030	24,742	24,693	24,837	25,125	25,366	25,857	26,100	26,281	26,561	26,875	27,297	27,457
25 to 54 years	20,045	19,857	19,732	19,806	20,156	20,307	20,736	21,034	21,246	21,369	21,745	22,103	22,375
55 years and over	4,998	4,883	4,974	5,014	4,995	5,053	5,139	5,044	5,058	5,175	5,135	5,184	5,120

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-52. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Selected categories	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total employed	86,139	85,577	84,392	84,406	85,028	85,247	86,514	87,501	87,804	88,133	88,998	90,370	90,809
Household heads	50,894	50,614	49,882	49,912	50,258	50,276	50,795	51,151	51,114	51,347	51,803	52,327	52,403
Married men, spouse present	38,844	38,584	37,892	37,860	37,933	37,832	38,032	38,181	38,155	37,961	38,216	38,542	38,369
Married women, spouse present	19,756	19,593	19,367	19,434	19,608	19,816	20,058	20,249	20,408	20,455	20,743	20,956	20,964
Occupation													
White-collar workers	41,827	41,873	41,884	42,181	42,435	42,412	43,096	43,590	43,752	44,384	44,489	44,805	45,219
Professional and technical	12,461	12,335	12,511	12,713	12,870	12,909	13,138	13,222	13,448	13,523	13,430	13,571	13,787
Managers and administrators, except farm	8,818	8,830	8,777	8,849	8,948	8,989	9,169	9,274	9,327	9,497	9,553	9,468	9,683
Sales workers	5,418	5,433	5,447	5,508	5,500	5,387	5,344	5,488	5,500	5,654	5,668	5,711	5,729
Clerical workers	15,130	15,276	15,149	15,112	15,117	15,128	15,446	15,606	15,477	15,710	15,818	16,055	16,021
Blue-collar workers	29,808	29,261	28,021	27,776	27,869	28,167	28,789	29,105	28,919	29,024	29,859	30,349	30,192
Craft and kindred workers	11,510	11,351	10,905	10,902	10,974	11,098	11,218	11,239	11,318	11,336	11,668	11,894	11,931
Operatives, except transport	10,667	10,270	9,699	9,530	9,544	9,770	10,119	10,213	9,989	10,029	10,422	10,434	10,241
Transport equipment operatives	3,334	3,246	3,248	3,209	3,221	3,199	3,213	3,320	3,272	3,279	3,431	3,528	3,467
Nonfarm laborers	4,297	4,394	4,169	4,135	4,130	4,100	4,239	4,334	4,340	4,380	4,338	4,493	4,554
Service workers	11,467	11,500	11,616	11,545	11,658	11,807	11,853	12,007	12,203	11,959	12,054	12,441	12,552
Farm workers	2,962	2,941	2,880	2,955	3,001	2,874	2,790	2,861	2,849	2,788	2,646	2,840	2,732
Major industry and class of worker													
Agriculture:													
Wage and salary workers	1,317	1,348	1,230	1,252	1,340	1,275	1,310	1,323	1,318	1,325	1,269	1,339	1,317
Self-employed workers	1,729	1,675	1,720	1,737	1,719	1,685	1,611	1,659	1,665	1,609	1,505	1,599	1,577
Unpaid family workers	375	363	374	395	398	356	319	354	344	342	337	379	318
Nonagricultural industries:													
Wage and salary workers	76,509	76,060	74,996	74,929	75,488	75,763	77,073	78,003	78,371	78,740	79,531	80,516	81,010
Private households	1,379	1,305	1,340	1,386	1,338	1,327	1,277	1,343	1,406	1,403	1,340	1,338	1,418
Government	14,033	14,156	14,341	14,475	14,651	14,645	14,857	14,854	15,116	15,003	14,950	14,999	15,236
Other	61,098	60,599	59,314	59,068	59,499	59,791	60,940	61,806	61,850	62,334	63,241	64,180	64,355
Self-employed workers	5,702	5,676	5,546	5,609	5,624	5,722	5,683	5,673	5,667	5,734	5,875	6,000	6,040
Unpaid family workers	479	485	494	460	458	502	480	460	441	452	490	522	499
Persons at work¹													
Nonagricultural industries:													
Full-time schedules	64,452	63,421	62,093	61,968	62,009	63,164	64,367	64,529	64,971	65,395	66,168	66,927	67,776
Part-time for economic reasons	2,722	3,162	3,639	3,635	3,348	3,321	3,237	3,210	3,230	3,482	3,345	3,277	3,295
Usually work full time	1,275	1,605	1,874	1,704	1,499	1,403	1,283	1,357	1,346	1,287	1,220	1,274	1,294
Usually work part time	1,447	1,557	1,766	1,931	1,849	1,918	1,954	1,853	1,884	2,195	2,125	2,003	2,001
Part time for noneconomic reasons	10,584	10,500	10,445	10,626	10,740	10,574	10,731	10,901	11,147	11,048	11,154	11,260	11,590

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-53. Job desire of persons not in labor force by current activity, reasons for not seeking work, sex, and race, seasonally adjusted

[Numbers in thousands]

Characteristic	1974		1975				1976				1977		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total not in labor force	57,649	57,935	58,378	58,341	58,614	59,215	59,327	59,032	58,963	59,132	59,379	58,908	59,141
Do not want job now	52,988	53,333	52,885	53,414	52,575	54,050	53,831	53,938	54,715	53,991	53,792	53,190	53,429
Current activity:													
Going to school	6,072	6,139	6,146	6,344	6,404	6,387	6,360	6,249	6,879	6,338	6,101	6,137	6,367
Ill, disabled	4,824	4,875	4,944	4,816	4,671	4,739	4,710	4,675	4,875	4,603	4,739	4,482	4,582
Keeping house	31,804	31,594	31,171	31,494	31,272	31,387	30,970	31,055	30,688	30,338	30,555	30,237	30,070
Retired	7,403	7,528	7,660	7,657	7,822	8,277	8,304	8,470	8,785	8,828	8,717	9,012	9,044
Other	2,884	3,197	2,964	3,104	3,407	3,260	3,487	3,488	3,491	3,884	3,686	3,323	3,367
Want a job now	4,607	4,671	5,211	5,084	5,354	5,256	5,388	5,426	4,339	5,436	5,663	5,762	5,909
Reason not looking:													
School attendance	1,334	1,221	1,446	1,397	1,508	1,535	1,422	1,529	1,151	1,559	1,546	1,445	1,656
Ill health, disability	710	652	651	626	675	725	718	763	491	627	692	830	791
Home responsibilities	1,033	1,029	1,182	1,070	1,073	1,115	1,222	1,227	1,024	1,273	1,266	1,304	1,264
Think cannot get job	628	823	1,064	1,123	1,171	977	940	903	827	992	929	1,061	1,104
Job-market factors	423	570	868	809	957	803	649	617	568	762	644	726	746
Personal factors	205	255	196	314	214	174	291	286	259	230	285	335	358
Other reasons ¹	901	943	868	869	927	903	1,086	1,004	847	985	1,229	1,122	1,093
Males													
Total not in labor force	15,097	15,128	15,590	15,594	15,707	16,177	16,443	16,274	16,280	16,304	16,637	16,492	16,655
Do not want job now	13,417	13,712	13,766	14,031	14,280	14,563	14,626	14,680	15,244	14,777	14,849	14,647	14,837
Want a job now	1,476	1,453	1,610	1,576	1,739	1,707	1,702	1,658	1,297	1,671	1,715	1,770	1,820
Reason not looking:													
School attendance	670	649	774	699	783	751	716	767	574	746	786	745	773
Ill health, disability	293	276	275	277	308	338	325	333	199	269	307	357	314
Think cannot get job	226	277	336	373	392	340	366	308	281	341	283	316	381
Other reasons ¹	286	250	226	227	257	277	294	249	243	315	339	352	351
Females													
Total not in labor force	42,552	42,808	42,789	42,747	42,907	43,039	42,884	42,758	42,683	42,828	42,742	42,416	42,485
Do not want job now	39,571	39,621	39,119	39,383	39,295	39,487	39,205	39,257	39,471	39,215	38,943	38,543	38,592
Want a job now	3,131	3,217	3,601	3,508	3,615	3,549	3,686	3,768	3,042	3,765	3,948	3,992	4,089
Reason not looking:													
School attendance	664	572	673	698	726	784	706	762	577	813	760	699	883
Ill health, disability	417	376	376	348	366	387	393	430	292	358	385	473	477
Home responsibilities	1,033	1,029	1,182	1,070	1,073	1,115	1,222	1,227	1,024	1,273	1,266	1,304	1,264
Think cannot get job	402	548	728	749	780	637	574	595	546	651	647	745	723
Other reasons ¹	615	692	642	642	670	626	792	755	604	670	890	770	742
White													
Total not in labor force	50,723	50,869	51,249	51,165	51,346	51,797	51,939	51,659	51,500	51,599	51,751	51,384	51,629
Do not want job now	47,193	47,180	46,963	47,389	47,447	47,885	47,680	47,701	48,170	47,499	47,364	47,125	47,364
Want a job now	3,544	3,644	4,012	3,906	4,103	3,976	4,092	4,098	3,403	4,175	4,313	4,360	4,292
Reason not looking:													
School attendance	1,026	911	1,110	1,090	1,120	1,151	1,087	1,119	934	1,109	1,206	1,045	1,130
Ill health, disability	515	498	484	457	483	520	500	529	354	445	508	675	556
Home responsibilities	796	831	930	856	886	839	920	943	809	1,034	986	1,007	939
Think cannot get job	475	630	785	782	845	697	700	694	601	755	665	741	746
Other reasons ¹	732	774	703	721	768	769	886	813	705	831	948	892	922
Black and other													
Total not in labor force	6,939	7,020	7,133	7,195	7,259	7,360	7,375	7,418	7,483	7,473	7,535	7,572	7,562
Do not want job now	5,905	6,014	5,909	5,998	6,078	6,128	6,085	6,072	6,552	6,227	6,202	6,082	6,097
Want a job now	1,080	1,015	1,182	1,144	1,268	1,261	1,271	1,311	966	1,241	1,343	1,395	1,638
Reason not looking:													
School attendance	304	291	336	305	373	355	341	410	232	408	342	413	504
Ill health, disability	195	145	171	168	197	195	227	237	137	180	192	163	230
Home responsibilities	275	219	276	234	234	304	306	289	249	270	279	285	344
Think cannot get job	160	201	281	308	336	292	233	204	226	250	280	287	356
Other reasons ¹	147	159	118	130	129	115	163	171	122	132	249	246	204

¹ Includes small number of men not looking for work because of home responsibilities.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-54. Job desire of persons not in labor force and reasons for not seeking work by age and sex

[In thousands]

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	
Total											
Total not in labor force	57,941	58,074	6,338	6,092	4,318	4,203	23,399	23,306	23,885	20,276	
Do not want a job now	53,865	52,625	5,402	4,864	3,719	3,424	21,247	20,437	23,494	19,840	
Current activity:											
Going to school	3,711	3,451	2,360	2,177	898	903	448	360	6	6	
Ill, disabled	4,968	4,666	67	50	136	123	2,494	2,248	2,271	1,646	
Keeping house	30,954	30,329	729	696	2,058	1,850	16,197	15,613	11,971	9,932	
Retired	8,889	9,153	--	--	--	--	181	230	8,708	7,851	
Other	5,341	5,026	2,247	1,941	628	548	1,929	1,986	537	405	
Want a job now	4,076	5,448	936	1,226	599	779	2,152	2,866	391	438	
Reason not looking:											
School attendance	619	813	399	506	124	170	95	138	2	--	
Ill health, disability	495	793	21	24	32	60	317	559	126	118	
Home responsibilities	1,167	1,449	74	98	199	241	870	1,072	24	26	
Think cannot get job	799	1,096	188	299	90	136	391	430	130	177	
Job-market factors	544	734	129	192	73	117	292	312	50	87	
Personal factors	254	363	60	106	18	20	100	118	78	89	
Other reasons ¹	996	1,297	254	299	154	172	479	667	109	117	
Males											
Total not in labor force	15,370	15,686	2,662	2,539	1,078	1,039	2,934	3,092	8,695	7,597	
Do not want a job now	14,309	14,191	2,294	1,988	903	831	2,591	2,599	8,518	7,405	
Current activity:											
Going to school	1,886	1,664	1,177	1,003	485	486	223	173	--	--	
Ill, disabled	2,626	2,680	36	28	78	71	1,329	1,333	1,184	848	
Keeping house	215	255	14	8	--	4	66	57	132	156	
Retired	6,953	7,112	--	--	--	--	162	191	6,793	6,099	
Other	2,628	2,480	1,068	949	339	270	811	845	409	302	
Want a job now	1,062	1,496	368	551	175	206	343	493	177	192	
Reason not looking:											
School attendance	293	361	184	249	71	74	36	40	2	--	
Ill health, disability	217	342	4	13	20	32	133	236	60	49	
Think cannot get job	272	385	90	138	38	42	89	98	54	83	
Other reasons ¹	280	408	90	151	46	58	85	119	61	60	
Females											
Total not in labor force	42,570	42,387	3,676	3,553	3,240	3,163	20,466	20,213	15,189	12,680	
Do not want a job now	39,557	38,434	3,106	2,876	2,815	2,592	18,660	17,841	14,977	12,434	
Current activity:											
Going to school	1,825	1,787	1,184	1,173	410	416	225	187	6	6	
Ill, disabled	2,342	1,986	30	22	58	52	1,166	917	1,088	798	
Keeping house	30,740	30,073	713	690	2,058	1,846	16,131	15,557	11,839	9,774	
Retired	1,936	2,042	--	--	--	--	19	40	1,916	1,752	
Other	2,713	2,546	1,178	991	289	278	1,118	1,140	128	104	
Want a job now	3,013	3,953	570	675	425	572	1,806	2,371	212	246	
Reason not looking:											
School attendance	326	452	214	258	54	96	59	98	--	--	
Ill health, disability	278	451	18	11	12	28	183	322	65	69	
Home responsibilities	1,167	1,449	74	98	199	241	870	1,072	24	26	
Think cannot get job	526	711	98	160	51	93	302	333	75	94	
Other reasons	716	890	166	148	109	114	392	546	48	57	

¹ Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail in tables A-54, A-55, and A-57 may not add to not-in-labor-force totals because of differences in the weighting patterns used in aggregating these data.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-55. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex

[In thousands]

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over		1976	1977	1976	1977
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977				
WHITE												
Total not in labor force	50,683	50,735	8,487	8,189	20,541	20,403	21,654	22,142	13,059	13,334	37,624	37,401
Do not want a job now	47,488	46,688	7,353	6,828	18,799	18,192	21,339	21,660	12,253	12,225	35,235	34,463
Current activity:												
Going to school	2,922	2,776	2,546	2,470	371	296	6	10	1,483	1,337	1,439	1,439
Ill, disabled	3,911	3,804	163	145	1,933	1,796	1,814	1,860	2,085	2,169	1,826	1,635
Keeping house	28,156	27,634	2,376	2,206	14,724	14,242	11,058	11,181	182	207	27,974	27,427
Retired	8,124	8,319	--	--	165	213	7,959	8,105	6,394	6,509	1,730	1,810
Other	4,375	4,155	2,268	2,007	1,606	1,645	502	504	2,109	2,003	2,266	2,152
Want a job now	3,194	4,048	1,132	1,358	1,742	2,209	315	483	805	1,109	2,389	2,939
Reason not looking:												
School attendance	484	554	407	464	76	90	2	--	228	264	256	290
Ill health, disability	357	557	46	65	232	384	78	110	161	251	196	306
Home responsibilities ¹	930	1,114	175	227	733	858	21	31	--	--	930	1,114
Think cannot get job	574	736	176	247	277	300	119	188	188	257	386	479
Other reasons	849	1,087	328	355	424	577	95	154	228	337	621	750
BLACK AND OTHER												
Total not in labor force	7,257	7,339	2,170	2,107	2,858	2,903	2,230	2,330	2,311	2,353	4,946	4,986
Do not want a job now	6,374	5,940	1,767	1,461	2,445	2,250	2,159	2,235	2,053	1,967	4,321	3,973
Current activity:												
Going to school	789	676	712	610	76	64	--	--	403	327	386	349
Ill, disabled	1,057	863	38	29	560	457	459	383	540	512	517	351
Keeping house	2,797	2,695	410	339	1,472	1,370	915	987	32	48	2,765	2,647
Retired	765	835	--	--	16	17	749	818	559	603	206	232
Other	966	871	607	483	322	342	36	47	519	477	447	394
Want a job now	884	1,399	401	647	410	654	72	98	258	386	626	1,013
Reason not looking:												
School attendance	135	258	116	211	19	48	--	--	65	97	70	161
Ill health, disability	138	235	8	18	85	173	46	42	56	90	82	145
Home responsibilities ¹	238	335	98	114	138	215	3	6	--	--	238	335
Think cannot get job	225	360	100	187	114	130	10	44	84	128	141	232
Other reasons	148	211	79	117	54	88	13	6	53	71	95	140

¹ Small number of men not looking for work because of "home responsibilities" are included in "other reasons."

A-56. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason

[In thousands]

3rd Quarter 1977

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old	188	47	--	37	103	154	34
Lacks education or training	127	49	18	51	9	83	43
Other personal handicap	48	10	2	30	7	36	12
Job-market factors:							
Could not find job	450	150	84	177	39	229	221
Thinks no job available	284	42	33	135	74	233	51
Males							
Personal factors:							
Employers think too young or old	71	25	--	5	42	54	17
Lacks education or training	32	16	11	5	--	21	10
Other personal handicap	26	6	2	12	7	22	4
Job-market factors:							
Could not find job	167	71	22	47	28	92	75
Thinks no job available	89	21	8	29	31	67	22
Females							
Personal factors:							
Employers think too young or old	117	22	--	32	62	100	17
Lacks education or training	95	33	7	46	9	62	33
Other personal handicap	22	4	--	18	--	14	8
Job-market factors:							
Could not find job	283	79	62	131	11	137	146
Thinks no job available	195	22	25	106	42	166	29

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-59. Employment status of the civilian noninstitutional population and the white, black, and Hispanic origin components by sex and age

[Numbers in thousands]

Employment status	Total		White		Black ¹		Hispanic origin ²	
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977
TOTAL								
Civilian noninstitutional population	154,224	156,764	135,823	137,870	15,991	16,374	6,950	7,416
Civilian labor force	96,283	98,690	85,141	87,135	9,591	9,962	4,293	4,626
Percent of population	62.4	63.0	62.7	63.2	60.0	60.8	61.8	62.4
Employment	88,975	91,978	79,304	82,001	8,248	8,513	3,786	4,189
Agriculture	3,723	3,600	3,412	3,324	262	228	238	255
Nonagricultural industries	85,251	88,379	75,892	78,677	7,986	8,286	3,548	3,934
Unemployment	7,309	6,712	5,836	5,134	1,343	1,449	507	437
Unemployment rate	7.6	6.8	6.9	5.9	14.0	14.5	11.8	9.5
Not in labor force	57,941	58,074	50,683	50,735	6,399	6,411	2,656	2,790
Males, 20 years and over								
Civilian noninstitutional population	64,690	65,949	57,587	58,645	6,114	6,275	2,780	3,041
Civilian labor force	51,982	52,803	46,589	47,307	4,608	4,701	2,340	2,580
Percent of population	80.4	80.1	80.9	80.7	75.4	74.9	84.2	84.8
Employment	49,207	50,422	44,323	45,471	4,141	4,206	2,121	2,415
Agriculture	2,511	2,454	2,294	2,273	181	150	155	168
Nonagricultural industries	46,696	47,968	42,030	43,198	3,960	4,056	1,965	2,248
Unemployment	2,775	2,381	2,266	1,836	467	495	219	165
Unemployment rate	5.3	4.5	4.9	3.9	10.1	10.5	9.4	6.4
Not in labor force	12,708	13,147	10,998	11,338	1,505	1,574	440	461
Females, 20 years and over								
Civilian noninstitutional population	73,080	74,331	64,264	65,241	7,638	7,858	3,197	3,326
Civilian labor force	34,185	35,496	29,551	30,632	3,989	4,205	1,432	1,508
Percent of population	46.8	47.8	46.0	47.0	52.2	53.5	44.8	45.3
Employment	31,452	32,905	27,387	28,630	3,483	3,670	1,276	1,347
Agriculture	608	608	566	555	36	41	43	44
Nonagricultural industries	30,844	32,297	26,821	28,074	3,447	3,628	1,232	1,303
Unemployment	2,733	2,591	2,164	2,002	506	535	157	161
Unemployment rate	8.0	7.3	7.3	6.5	12.7	12.7	10.9	10.7
Not in labor force	38,895	38,835	34,713	34,609	3,649	3,653	1,765	1,818
Both sexes, 16-19 years								
Civilian noninstitutional population	16,454	16,484	13,973	13,984	2,239	2,240	973	1,048
Civilian labor force	10,116	10,391	9,000	9,196	994	1,057	521	537
Percent of population	61.5	63.0	64.4	65.8	44.4	47.2	53.5	51.2
Employment	8,315	8,651	7,594	7,900	623	637	390	426
Agriculture	604	538	553	495	45	36	39	44
Nonagricultural industries	7,711	8,113	7,041	7,405	579	601	351	382
Unemployment	1,801	1,740	1,406	1,296	370	419	131	111
Unemployment rate	17.8	16.7	15.6	14.1	37.3	39.7	25.1	20.7
Not in labor force	6,338	6,092	4,972	4,788	1,246	1,184	452	511

¹ According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

means that they are also included in the data for white and black workers. At the time of the 1970 Census, approximately 96 percent of their population was white.

² Data on persons of Hispanic origin are tabulated separately, without regard to race, which

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-60. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted		Seasonally adjusted								
			1975		1976				1977		
	III 1976	III 1977	III	IV	I	II	III	IV	I	II	III
VETERANS¹											
Total, 20 to 34 years:											
Civilian noninstitutional population ²	6,710	6,815	6,488	6,584	6,640	6,668	6,710	6,797	6,853	6,848	6,815
Civilian labor force	6,336	6,531	6,106	6,186	6,223	6,312	6,335	6,427	6,495	6,503	6,529
Employed	5,882	6,093	5,522	5,575	5,746	5,832	5,808	5,880	6,033	6,017	6,019
Unemployed	454	438	585	610	478	480	527	547	462	486	510
Unemployment rate	7.2	6.7	9.6	9.9	7.7	7.6	8.3	8.5	7.1	7.5	7.8
20 to 24 years											
Civilian noninstitutional population ²	1,071	1,042	1,146	1,128	1,101	1,088	1,071	1,083	1,084	1,069	1,042
Civilian labor force	938	948	1,003	967	926	951	931	957	963	938	942
Employed	785	798	812	756	765	793	758	789	804	794	773
Unemployed	153	150	191	211	161	158	173	168	159	144	169
Unemployment rate	16.3	15.8	19.0	21.8	17.4	16.6	18.6	17.5	16.5	15.4	17.9
25 to 29 years											
Civilian noninstitutional population ²	3,250	2,994	3,471	3,463	3,421	3,328	3,250	3,186	3,109	3,039	2,994
Civilian labor force	3,064	2,872	3,286	3,292	3,240	3,160	3,063	3,017	2,941	2,896	2,868
Employed	2,862	2,700	3,009	3,002	3,015	2,940	2,840	2,763	2,732	2,678	2,680
Unemployed	202	172	277	290	225	220	223	254	209	218	187
Unemployment rate	6.6	6.0	8.4	8.8	6.9	7.0	7.3	8.4	7.1	7.5	6.5
30 to 34 years											
Civilian noninstitutional population ²	2,389	2,779	1,871	1,993	2,118	2,252	2,389	2,528	2,660	2,740	2,779
Civilian labor force	2,334	2,711	1,817	1,927	2,057	2,201	2,341	2,453	2,590	2,669	2,720
Employed	2,235	2,595	1,701	1,818	1,965	2,099	2,210	2,328	2,497	2,545	2,566
Unemployed	99	116	116	109	92	103	131	125	94	124	154
Unemployment rate	4.2	4.3	6.4	5.7	4.5	4.7	5.6	5.1	3.6	4.6	5.7
NONVETERANS											
Total, 20 to 34 years:											
Civilian noninstitutional population ²	16,849	17,711	16,006	16,200	16,419	16,640	16,849	16,999	17,191	17,445	17,711
Civilian labor force	15,487	16,284	14,395	14,520	14,747	15,000	15,180	15,474	15,617	15,720 ^c	15,950
Employed	14,281	15,171	12,911	13,110	13,499	13,811	13,884	14,066	14,336	14,606 ^c	14,755
Unemployed	1,206	1,113	1,484	1,410	1,248	1,189	1,296	1,408	1,281	1,115	1,195
Unemployment rate	7.8	6.8	10.3	9.7	8.5	7.9	8.5	9.1	8.2	7.1 ^c	7.5
20 to 24 years											
Civilian noninstitutional population ²	7,951	8,181	7,639	7,723	7,819	7,885	7,951	7,982	8,037	8,106	8,181
Civilian labor force	7,006	7,236	6,433	6,465	6,621	6,693	6,716	6,881	6,931	6,863	6,930
Employed	6,306	6,584	5,518	5,613	5,856	5,975	5,985	6,045	6,179	6,196	6,250
Unemployed	700	652	915	852	765	718	731	835	752	667	680
Unemployment rate	10.0	9.0	14.2	13.2	11.6	10.7	10.9	12.1	10.8	9.7	9.8
25 to 29 years											
Civilian noninstitutional population ²	5,120	5,355	4,493	4,626	4,775	4,972	5,120	5,173	5,240	5,301	5,355
Civilian labor force	4,853	5,057	4,243	4,355	4,487	4,678	4,843	4,882	4,943	4,991	5,038
Employed	4,515	4,767	3,882	4,030	4,191	4,385	4,465	4,512	4,580	4,701	4,714
Unemployed	338	290	361	326	296	293	378	370	363	290	324
Unemployment rate	7.0	5.7	8.5	7.5	6.6	6.3	7.8	7.6	7.3	5.8	6.4
30 to 34 years											
Civilian noninstitutional population ²	3,778	4,175	3,874	3,851	3,825	3,783	3,778	3,844	3,914	4,038	4,175
Civilian labor force	3,628	3,991	3,720	3,700	3,638	3,630	3,621	3,711	3,743	3,866	3,981
Employed	3,460	3,820	3,512	3,468	3,452	3,452	3,434	3,509	3,577	3,709	3,791
Unemployed	168	171	208	232	187	178	187	202	165	157	191
Unemployment rate	4.6	4.3	5.6	6.3	5.1	4.9	5.2	5.4	4.4	4.1	4.8

¹ Vietnam-era veterans are those who served between August 5, 1964, and May 7, 1975.

² Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

c = corrected.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-61. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years by age and race

[Numbers in thousands]

Employment status	Veterans ¹						Nonveterans					
	White			Black and other			White			Black and other		
	III 1976	II 1977	III 1977	III 1976	II 1977	III 1977	III 1976	II 1977	III 1977	III 1976	II 1977	III 1977
Total, 20 to 34 years:												
Civilian noninstitutional population	5,989	6,160	6,099	721	688	716	14,709	15,163	15,423	2,140	2,282	2,288
Civilian labor force	5,693	5,877	5,870	643	617	661	13,660	13,820	14,340	1,827	1,926	1,944
Employed	5,322	5,486	5,537	560	520	556	11,609	12,941	13,523	1,579	1,671	1,648
Unemployed	371	391	333	83	97	105	958	879	817	248	255	296
Unemployment rate	6.5	6.5	5.7	12.9	15.7	15.9	7.0	6.4	5.7	13.6	13.2	15.2
20 to 24 years												
Civilian noninstitutional population	899	887	854	172	182	188	6,959	7,100	7,170	992	1,006	1,011
Civilian labor force	811	786	781	127	147	167	6,215	6,133	6,438	791	771	798
Employed	691	690	682	94	103	116	5,655	5,590	5,961	651	619	623
Unemployed	120	96	99	33	44	51	560	543	477	140	152	175
Unemployment rate	14.8	12.2	12.7	26.0	29.9	30.5	9.0	8.9	7.4	17.7	19.7	21.9
25 to 29 years												
Civilian noninstitutional population	2,927	2,757	2,700	323	282	294	4,478	4,600	4,657	642	701	698
Civilian labor force	2,764	2,638	2,597	300	258	275	4,286	4,352	4,435	567	630	622
Employed	2,593	2,450	2,454	269	223	246	2,927	4,132	4,215	495	569	552
Unemployed	171	188	143	31	35	29	266	220	220	72	61	70
Unemployment rate	6.2	7.1	5.5	10.3	13.6	10.5	6.2	5.1	5.0	12.7	9.7	11.3
30 to 34 years												
Civilian noninstitutional population	2,163	2,516	2,545	226	224	234	3,272	3,463	3,596	506	575	579
Civilian labor force	2,118	2,453	2,492	216	212	219	3,159	3,335	3,467	469	525	524
Employed	2,038	2,346	2,401	197	194	194	3,027	3,219	3,347	433	483	473
Unemployed	80	107	91	19	18	25	132	116	120	36	42	51
Unemployment rate	3.8	4.4	3.7	8.8	8.5	11.4	4.2	3.5	3.5	7.7	8.0	9.7

¹ See footnote 1, table A-60.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-62. Employment status of the population in metropolitan and nonmetropolitan areas by sex, age, and race

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977
Total												
Civilian noninstitutional population	105,153	106,713	45,254	45,204	59,899	61,509	49,071	50,051	4,802	4,735	44,269	45,316
Civilian labor force	66,429	67,856	27,666	27,654	38,763	40,202	29,855	30,834	3,113	3,093	26,742	27,741
Percent of population	63.2	63.6	61.1	61.2	64.7	65.4	60.8	61.6	64.8	65.3	60.4	61.2
Employed	61,127	63,024	25,103	25,266	36,024	37,758	27,847	28,954	3,040	3,020	24,807	25,934
Unemployed	5,302	4,832	2,562	2,388	2,740	2,444	2,007	1,880	73	73	1,934	1,807
Unemployment rate	8.0	7.1	9.3	8.6	7.1	6.1	6.7	6.1	2.3	2.4	7.2	5.5
Not in labor force	38,724	38,857	17,589	17,550	21,135	21,307	19,217	19,217	1,688	1,642	17,529	17,575
Males, 20 years and over												
Civilian noninstitutional population	43,933	44,723	18,574	18,603	25,359	26,120	20,757	21,226	2,189	2,154	18,568	19,072
Civilian labor force	35,762	36,269	14,570	14,489	21,192	21,780	16,220	16,534	1,867	1,816	14,353	14,718
Percent of population	81.4	81.1	78.4	77.9	83.6	83.4	78.1	77.9	85.3	84.3	77.3	77.2
Employed	33,693	34,501	13,513	13,548	20,180	20,953	15,514	15,921	1,843	1,796	13,671	14,125
Unemployed	2,069	1,768	1,056	941	1,013	827	706	612	24	19	68.2	593
Unemployment rate	5.8	4.9	7.2	6.5	4.8	3.8	4.4	3.7	1.3	1.1	4.8	4.0
Not in labor force	8,171	8,454	4,004	4,114	4,167	4,340	4,537	4,692	323	338	4,214	4,354
Females, 20 years and over												
Civilian noninstitutional population	49,986	50,837	22,152	22,192	27,834	28,645	23,094	23,494	2,045	2,014	21,049	21,480
Civilian labor force	23,813	24,630	10,561	10,666	13,252	13,964	10,372	10,866	863	885	9,509	9,981
Percent of population	47.6	48.4	47.7	48.1	47.6	48.7	44.9	46.3	42.2	43.9	45.2	46.5
Employed	21,883	22,806	9,656	9,792	12,227	13,014	9,570	10,099	832	856	8,738	9,243
Unemployed	1,931	1,824	904	873	1,027	951	802	767	31	29	771	738
Unemployment rate	8.1	7.4	8.6	8.2	7.7	6.8	7.7	7.1	3.6	3.2	8.1	7.4
Not in labor force	26,172	26,207	11,591	11,525	14,581	14,682	12,722	12,628	1,182	1,130	11,540	11,498
Both sexes, 16-19 years												
Civilian noninstitutional population	11,234	11,153	4,529	4,411	6,705	6,742	5,220	5,330	568	567	4,652	4,763
Civilian labor force	6,854	6,957	2,535	2,500	4,319	4,457	3,262	3,434	384	393	2,878	3,041
Percent of population	61.0	62.4	56.0	56.7	64.4	66.1	62.5	64.4	67.6	69.2	61.9	63.8
Employed	5,552	5,717	1,933	1,926	3,619	3,791	2,763	2,934	366	368	2,397	2,566
Unemployed	1,302	1,240	603	573	699	667	499	500	18	25	481	475
Unemployment rate	19.0	17.8	23.8	22.9	16.2	15.0	15.3	14.6	4.7	6.3	16.7	15.6
Not in labor force	4,380	4,196	1,994	1,911	2,386	2,285	1,958	1,897	184	175	1,774	1,722
White												
Civilian noninstitutional population	91,058	92,224	34,904	34,699	56,154	57,525	44,765	45,646	4,518	4,471	40,247	41,175
Civilian labor force	57,801	58,919	21,515	21,342	36,286	37,577	27,339	28,216	2,960	2,931	24,379	25,285
Percent of population	63.5	63.9	61.6	61.5	64.6	65.3	61.1	61.8	65.5	65.5	60.6	61.4
Employed	53,636	55,328	19,796	19,876	33,840	35,452	25,668	26,672	2,895	2,869	22,773	23,803
Unemployed	4,165	3,590	1,720	1,466	2,445	2,124	1,671	1,544	65	61	1,606	1,483
Unemployment rate	7.2	6.1	8.0	6.9	6.7	5.7	6.1	5.5	2.2	2.1	6.6	5.9
Not in labor force	33,257	33,305	13,389	13,357	19,868	19,948	17,426	17,430	1,559	1,540	15,867	15,890
Black and other												
Civilian noninstitutional population	14,094	14,489	10,351	10,506	3,743	3,983	4,306	4,404	283	265	4,023	4,139
Civilian labor force	8,627	8,937	6,151	6,312	2,476	2,625	2,515	2,618	154	162	2,361	2,456
Percent of population	61.2	61.7	59.4	60.1	66.2	65.9	58.4	59.4	54.2	61.4	58.7	59.3
Employed	7,491	7,696	5,308	5,390	2,183	2,306	2,179	2,282	145	151	2,034	2,131
Unemployed	1,137	1,242	843	922	294	320	336	336	8	12	328	324
Unemployment rate	13.2	13.9	13.7	14.6	11.9	12.2	13.3	12.8	5.4	7.1	13.9	13.2
Not in labor force	5,467	5,552	4,200	4,194	1,267	1,358	1,791	1,787	130	102	1,661	1,685

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-63. Employment status of the population in poverty and nonpoverty areas by race

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977
Total												
Civilian noninstitutional population	29,215	29,179	125,009	127,585	11,675	11,579	93,478	95,134	17,540	17,600	31,531	32,451
Civilian labor force	16,267	16,365	80,016	82,325	6,201	6,216	60,228	61,640	10,066	10,149	19,789	20,685
Percent of population	55.7	56.1	64.0	64.5	53.1	53.7	64.4	64.8	57.4	57.7	62.8	63.7
Employed	14,743	14,882	74,231	77,096	5,378	5,365	55,749	57,659	9,365	9,517	18,442	19,437
Unemployed	1,524	1,483	5,785	5,229	823	851	4,479	3,981	701	632	1,306	1,248
Unemployment rate	9.4	9.1	7.2	6.4	13.3	13.7	7.4	6.5	7.0	6.2	6.6	6.0
Not in labor force	12,948	12,814	44,993	45,259	5,474	5,363	33,250	33,494	7,474	7,451	11,743	11,766
White												
Civilian noninstitutional population	20,528	20,501	115,296	117,369	5,986	5,901	85,072	86,323	14,542	14,600	30,223	31,046
Civilian labor force	11,666	11,706	73,475	75,428	3,263	3,244	54,538	55,675	8,403	8,463	18,937	19,754
Percent of population	56.8	57.1	63.7	64.3	54.5	55.0	64.1	64.5	57.8	58.0	62.7	63.6
Employed	10,998	10,998	68,465	71,003	2,928	2,954	50,709	52,375	7,911	8,045	17,757	18,628
Unemployed	827	708	5,010	4,426	335	290	3,830	3,300	492	418	1,180	1,126
Unemployment rate	7.1	6.0	6.8	5.9	10.3	8.9	7.0	5.9	5.9	4.9	6.2	5.7
Not in labor force	8,862	8,794	41,821	41,941	2,723	2,657	30,534	30,648	6,139	6,137	11,287	11,293
Black and other												
Civilian noninstitutional population	8,687	8,678	9,714	10,216	5,689	5,678	8,406	8,811	2,998	3,000	1,308	1,404
Civilian labor force	4,601	4,658	6,541	6,897	2,938	2,972	5,689	5,965	1,663	1,686	852	932
Percent of population	53.0	53.7	67.3	67.5	51.6	52.3	67.7	67.7	55.5	56.2	65.1	66.3
Employed	3,905	3,884	5,766	6,094	2,451	2,412	5,040	5,284	1,454	1,472	726	810
Unemployed	697	775	776	803	487	561	649	681	209	214	126	122
Unemployment rate	15.1	16.6	11.9	11.6	16.6	18.9	11.4	11.4	12.6	12.7	14.8	13.1
Not in labor force	4,086	4,020	3,172	3,319	2,751	2,706	2,716	2,846	1,335	1,314	456	473

A-64. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977	III 1976	III 1977
Total												
Both sexes, 16 years and over	9.4	9.1	7.2	6.4	13.3	13.7	7.4	6.5	7.0	6.2	6.6	6.0
Males, 20 years and over	6.6	6.6	5.1	4.1	10.8	11.4	5.3	4.2	4.3	3.8	4.4	3.7
Females, 20 years and over	9.7	9.2	7.6	6.9	11.8	12.0	7.7	6.9	8.2	7.3	7.5	6.9
Both sexes, 16-19 years	22.6	21.0	16.8	15.9	32.2	30.9	17.6	16.5	16.7	15.0	14.6	14.4
White												
Both sexes, 16 years and over	7.1	6.0	6.8	5.9	10.3	8.9	7.0	5.9	5.9	4.9	6.2	5.7
Males, 20 years and over	5.1	4.4	4.8	3.8	8.4	7.7	5.1	3.9	3.8	3.2	4.1	3.5
Females, 20 years and over	7.6	6.6	7.3	6.5	9.3	8.9	7.3	6.5	6.9	5.7	7.1	6.6
Both sexes, 16-19 years	16.4	13.2	15.5	14.2	24.3	16.8	16.1	14.7	13.5	12.0	13.8	13.1
Black and other												
Both sexes, 16 years and over	15.1	16.6	11.9	11.6	16.6	18.9	11.4	11.4	12.6	12.7	14.8	13.1
Males, 20 years and over	10.9	12.9	8.4	7.9	13.1	16.1	8.1	8.0	7.2	7.5	10.5	6.9
Females, 20 years and over	14.1	14.8	11.0	10.4	14.2	15.0	10.5	10.1	14.0	14.5	15.0	11.9
Both sexes, 16-19 years	36.7	38.2	34.2	36.4	39.8	43.0	34.8	36.0	31.3	29.0	31.6	38.0

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-65. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	III 1976				III 1977			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Unemployed, total	7,309	37.0	63.0	56.4	6,712	37.4	62.6	56.7
Unemployed, in families ¹	6,381	27.9	72.1	64.6	5,837	28.0	72.0	65.2
Husbands ²	1,486	50.5	49.5	38.8	1,168	53.1	46.9	37.0
Wives	1,641	13.3	86.7	80.9	1,462	13.1	86.9	82.0
Relatives in husband-wife families	2,007	8.9	91.1	86.1	1,970	9.9	90.1	86.7
Women who head families	446	79.4	20.6	13.9	449	79.7	20.3	12.0
Relatives of female heads	801	34.7	65.3	53.6	788	34.4	65.6	52.0
Unemployed, not in families ³	928	--	--	--	875	--	--	--
White								
Unemployed, total	5,836	35.7	64.3	57.9	5,134	35.7	64.3	59.2
Unemployed, in families ¹	5,074	26.0	74.0	66.6	4,426	25.4	74.6	68.6
Husbands ²	1,263	50.9	49.1	37.8	963	53.9	46.1	36.6
Wives	1,395	12.7	87.3	81.5	1,245	11.2	88.8	84.6
Relatives in husband-wife families	1,683	7.9	92.1	87.2	1,553	8.4	91.6	89.0
Women who head families	269	74.3	25.7	18.6	263	74.1	25.9	14.8
Relatives of female heads	464	35.8	64.2	53.7	402	34.8	65.2	52.5
Unemployed, not in families ³	762	--	--	--	708	--	--	--
Black⁴								
Unemployed, total	1,343	42.6	57.4	49.5	1,449	41.7	58.3	48.9
Unemployed, in families ¹	1,198	35.6	64.4	55.5	1,311	35.5	64.5	54.1
Husbands ²	196	49.5	50.5	41.3	177	44.1	55.9	39.5
Wives	216	16.7	83.3	78.7	192	22.9	77.1	67.7
Relatives in husband-wife families	292	12.7	87.3	81.8	381	15.0	85.0	78.5
Women who head families	172	87.2	12.8	6.4	181	87.8	12.2	7.7
Relatives of female heads	322	33.2	66.8	54.0	380	33.7	66.3	51.6
Unemployed, not in families ³	145	--	--	--	138	--	--	--

¹ In primary families only.

² Includes a small number of single, separated, widowed, or divorced men who head families.

³ Includes unrelated individuals and persons in secondary families.

⁴ According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-66. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	III 1976				III 1977			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time
TOTAL								
Employed, total	88,975	37.7	62.3	54.0	91,978	37.5	62.5	54.4
Employed, in families ¹	78,355	29.2	70.8	61.4	80,217	28.4	71.6	62.3
Husbands ²	38,973	43.6	56.4	42.5	39,286	42.4	57.6	43.7
Wives	19,821	8.9	91.1	86.8	20,360	8.7	91.3	87.1
Relatives in husband-wife families	12,781	6.0	94.0	90.5	13,186	5.8	94.2	90.9
Women who head families	3,722	66.8	33.2	24.2	3,985	65.0	35.0	26.2
Relatives of female heads	3,058	30.1	69.9	59.7	3,400	28.4	71.6	61.2
Employed, not in families ³	10,620	--	--	--	11,761	--	--	--
White								
Employed, total	79,304	37.5	62.5	54.2	82,001	37.2	62.8	54.6
Employed, in families ¹	69,957	29.1	70.9	61.5	71,648	28.1	71.9	62.5
Husbands ²	35,551	44.2	55.8	41.7	35,886	42.9	57.1	43.0
Wives	17,711	8.5	91.5	87.4	18,196	8.1	91.9	87.6
Relatives in husband-wife families	11,632	5.7	94.3	91.2	12,070	5.6	94.4	91.3
Women who head families	2,764	65.3	34.7	25.6	2,928	63.3	36.7	27.3
Relatives of female heads	2,299	30.6	69.4	60.0	2,568	28.0	72.0	62.4
Employed, not in families ³	9,347	--	--	--	10,353	--	--	--
Black⁴								
Employed, total	8,248	40.0	60.0	51.6	8,513	41.3	58.7	51.4
Employed, in families ¹	7,203	31.3	68.7	59.1	7,331	31.9	68.1	59.6
Husbands ²	2,898	37.6	62.4	50.5	2,877	37.6	62.4	51.0
Wives	1,775	12.1	87.9	81.7	1,794	13.2	86.8	82.2
Relatives in husband-wife families	916	9.8	90.2	82.2	895	8.0	92.0	86.6
Women who head families	908	72.0	28.0	19.1	999	71.1	28.9	21.8
Relatives of female heads	706	29.3	70.7	58.8	766	30.9	69.1	56.9
Employed, not in families ³	1,045	--	--	--	1,182	--	--	--

¹ See footnote 1, table A-65.

² See footnote 2, table A-65.

³ See footnote 3, table A-65.

⁴ See footnote 4, table A-65.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P
	TOTAL	79,555	80,277	82,167	82,374	83,095	-	-	-	-	-
	PRIVATE SECTOR	65,325	65,617	67,567	67,890	68,091	53,792	54,077	55,428	55,693	55,882
	MINING	766	804	848	840	852	571	610	635	627	636
	METAL MINING	95.9	96.1	88.3	79.2	-	74.1	74.2	65.0	56.9	-
101	Iron ores	26.6	26.5	26.1	11.1	-	21.6	21.4	20.8	5.8	-
102	Copper ores	36.3	36.6	26.6	33.1	-	27.8	28.1	18.1	24.9	-
	COAL MINING	177.3	220.0	220.0	217.7	-	145.3	188.0	180.9	179.6	-
12	Bituminous coal and lignite mining	173.4	216.1	215.8	213.6	-	142.0	184.6	177.2	176.0	-
	OIL AND GAS EXTRACTION	372.2	367.6	414.6	417.3	-	256.1	252.0	288.8	290.6	-
131,2	Crude petroleum and natural gas fields	169.8	166.4	179.9	180.8	-	85.2	82.2	89.7	90.1	-
138	Oil and gas field services	202.4	201.2	234.7	236.5	-	170.9	169.8	199.1	200.5	-
	NONMETALLIC MINERALS, EXCEPT FUELS	120.3	120.4	125.3	125.6	-	95.8	95.9	100.0	100.2	-
142	Crushed and broken stone	42.2	42.0	44.1	44.0	-	34.9	34.7	37.1	36.8	-
144	Sand and gravel	37.5	37.4	39.6	39.8	-	-	-	-	-	-
	CONTRACT CONSTRUCTION	3,869	3,815	4,148	4,199	4,160	3,117	3,066	3,337	3,382	3,345
	GENERAL BUILDING CONTRACTORS	1,160.8	1,132.9	1,231.6	1,243.8	-	922.0	895.2	983.6	990.7	-
	HEAVY CONSTRUCTION CONTRACTORS	809.9	801.2	882.5	891.8	-	677.6	668.9	728.2	738.1	-
161	Highway and street construction	359.7	353.1	410.0	416.6	-	312.4	306.1	348.7	354.7	-
162	Heavy construction, nec	450.2	448.1	472.5	475.2	-	365.2	362.8	379.5	383.4	-
	SPECIAL TRADE CONTRACTORS	1,898.4	1,880.7	2,033.6	2,063.0	-	1,516.9	1,501.9	1,624.9	1,653.3	-
171	Plumbing, heating, air conditioning	439.8	433.7	468.1	476.5	-	333.7	330.0	355.3	361.7	-
172	Painting, paper hanging, decorating	148.0	143.9	166.4	169.3	-	127.8	123.4	138.9	142.3	-
173	Electrical work	331.1	331.5	340.4	346.2	-	262.7	261.0	266.9	272.3	-
174	Masonry, stonework, and plastering	207.5	205.1	238.8	241.5	-	181.3	178.9	206.8	210.1	-
176	Roofing and sheet metal work	136.1	136.9	146.5	147.8	-	111.8	112.3	118.9	120.3	-
	MANUFACTURING	19,171	19,408	19,555	19,732	19,896	13,797	14,040	14,024	14,187	14,353
	DURABLE GOODS	11,108	11,278	11,485	11,508	11,668	7,922	8,092	8,202	8,218	8,375
	NONDURABLE GOODS	8,063	8,130	8,070	8,224	8,228	5,875	5,948	5,822	5,969	5,978
	DURABLE GOODS										
	ORDNANCE AND ACCESSORIES	157.1	156.9	156.3	156.7	155.7	71.0	70.4	72.1	72.5	72.0
192	Ammunition, except for small arms	101.8	102.0	99.5	99.5	98.7	35.6	35.7	35.9	36.0	35.9
1925	Complete guided missiles	84.2	84.1	80.8	80.9	-	22.8	22.7	22.2	22.5	-
1929	Ammunition, exc. for small arms, nec	17.6	17.9	18.7	18.6	-	12.8	13.0	13.7	13.5	-
	LUMBER AND WOOD PRODUCTS	629.0	626.9	659.2	664.7	664.0	529.0	528.2	562.8	568.9	568.2
241	Logging camps and logging contractors	80.0	79.5	76.7	77.7	(*)	-	-	-	-	-
242	Sawmills and planing mills	217.1	215.0	221.1	220.9	219.5	192.9	191.4	196.9	197.4	196.0
2421	Sawmills and planing mills, general	185.1	183.6	188.2	187.6	-	164.4	163.4	167.6	167.8	-
243	Millwork, plywood and related products	212.2	212.1	234.7	238.6	239.0	176.0	176.2	196.7	200.0	200.2
2431	Millwork	96.8	95.2	105.1	107.8	-	79.7	78.3	86.8	89.2	-
2432	Veneer and plywood	74.7	75.8	78.9	79.6	-	66.2	67.5	70.3	70.8	-
244	Wooden containers	21.9	22.2	22.1	21.9	21.8	19.2	19.6	19.5	19.3	19.1
2441,2	Wooden boxes, shooks, and crates	17.9	17.9	17.9	17.6	-	15.8	15.9	15.9	15.6	-
249	Miscellaneous wood products	97.8	98.1	104.6	105.6	105.4	78.7	79.0	86.4	88.1	88.1

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
DURABLE GOODS—Continued											
25	FURNITURE AND FIXTURES	491.8	499.0	501.1	511.6	514.1	403.7	411.2	410.3	420.6	422.5
251	Household furniture	355.6	362.0	360.6	369.1	370.6	300.9	307.3	303.2	311.6	313.4
2511	Wood household furniture	185.5	187.7	186.0	190.1	—	162.5	164.7	161.9	166.3	—
2512	Upholstered household furniture	103.1	104.7	104.5	107.6	—	85.6	87.1	85.7	88.7	—
2515	Mattresses and bedsprings	33.8	34.4	33.0	33.9	—	26.2	26.6	25.4	26.3	—
252	Office furniture	35.9	36.6	42.1	42.4	—	28.1	29.0	34.3	34.5	—
254	Partitions and fixtures	54.3	54.1	54.7	55.3	—	40.8	40.9	40.8	41.5	—
253.9	Other furniture and fixtures	46.0	46.3	43.7	44.8	45.4	33.9	34.0	32.0	33.0	33.1
STONE, CLAY, AND GLASS PRODUCTS											
32	Flat glass	644.6	643.7	672.0	672.9	673.5	514.6	514.7	538.8	539.7	539.1
321	Glass and glassware, pressed or blown	16.6	15.3	16.9	17.1	—	13.3	12.2	13.8	13.9	—
322	Glass containers	134.9	134.1	138.4	137.7	138.5	116.6	115.9	120.1	119.3	119.7
3221	Pressed and blown glass, nec	80.0	79.3	81.3	81.4	—	70.7	70.1	72.4	72.6	—
3229	Cement, hydraulic	54.9	54.8	57.1	56.3	—	45.9	45.8	47.7	46.7	—
324	Structural clay products	30.4	30.4	31.0	30.8	—	24.2	24.2	24.8	24.6	24.2
325	Brick and structural clay tile	49.7	48.8	52.4	53.1	52.6	40.0	39.2	42.4	42.9	42.5
3251	Pottery and related products	22.5	22.2	23.9	24.1	—	18.8	18.5	20.0	20.2	—
326	Concrete, gypsum, and plaster products	43.0	44.1	41.3	41.7	—	36.1	37.6	34.8	35.4	—
327	Other stone and nonmetallic mineral products	198.1	197.5	212.5	213.2	211.5	154.9	154.1	167.3	167.8	166.2
328.9	Abasive products	134.4	135.7	139.3	138.6	139.6	100.9	102.6	105.7	105.2	105.9
3291		24.8	24.3	24.3	24.4	—	17.7	17.2	17.1	17.2	—
PRIMARY METAL INDUSTRIES											
33	Blast furnace and basic steel products	1,214.8	1,220.0	1,211.3	1,204.7	1,213.8	954.2	961.4	945.0	938.4	949.4
331	Blast furnaces and steel mills	564.2	556.7	563.1	553.7	(*)	442.4	436.3	439.9	430.9	(*)
3312	Iron and steel foundries	489.1	481.1	489.5	480.2	—	385.3	378.6	384.0	375.0	—
332	Gray iron foundries	218.5	223.9	220.1	213.8	(*)	179.3	185.1	179.9	173.2	(*)
3321	Malleable iron foundries	140.6	143.6	141.9	137.2	—	117.4	120.9	117.7	112.3	—
3322	Steel foundries	20.6	22.0	20.6	20.7	—	16.6	17.9	16.7	17.0	—
3323	Nonferrous metals	57.3	58.3	57.6	55.9	—	45.3	46.3	45.5	43.9	—
333.4	Primary aluminum	85.6	86.2	75.8	82.3	81.8	65.3	66.3	55.5	61.9	63.1
3334	Nonferrous rolling and drawing	33.9	34.6	35.2	35.2	—	27.4	28.2	28.2	28.1	—
335	Copper rolling and drawing	195.1	198.4	197.0	198.1	201.4	144.6	147.7	144.1	145.2	148.5
3351	Aluminum rolling and drawing	36.5	36.2	36.2	37.3	—	27.8	27.7	27.3	28.3	—
3352	Nonferrous wire drawing and insulating	61.0	63.2	63.7	63.8	—	44.3	45.8	45.7	46.2	—
3357	Nonferrous foundries	78.4	79.1	77.0	76.8	—	58.7	59.6	57.1	56.8	—
336	Aluminum castings	80.2	82.3	81.0	83.0	(*)	66.5	68.5	66.6	68.8	(*)
3361	Other nonferrous castings	44.9	46.1	45.5	46.6	—	37.8	39.1	38.1	39.3	—
3362.9	Miscellaneous primary metal products	35.3	36.2	35.5	36.4	—	28.7	29.4	28.5	29.5	—
339	Iron and steel forgings	71.2	72.5	74.3	73.8	(*)	56.1	57.5	59.0	58.4	(*)
3391		45.7	46.9	46.8	46.3	—	36.1	37.4	37.3	36.9	—
FABRICATED METAL PRODUCTS											
34	Metal cans	1,396.7	1,421.3	1,444.8	1,462.7	1,483.4	1,053.8	1,078.5	1,091.1	1,105.9	1,128.4
341	Cutlery, hand tools, and hardware	64.5	65.3	62.6	63.6	61.8	56.2	56.6	53.3	54.2	52.5
342	Cutlery and hand tools, including saws	168.3	170.1	173.2	175.2	180.0	129.5	131.6	133.8	135.7	140.9
3421,3,5	Hardware, nec	70.8	71.6	69.9	70.5	—	53.8	54.7	53.4	54.0	—
3429	Plumbing and heating, except electric	97.5	98.5	103.3	104.7	—	75.7	76.9	80.4	81.7	—
343	Sanitary ware and plumbers' brass goods	69.1	70.5	73.8	75.3	75.6	50.6	52.2	54.5	55.8	56.1
3431,2	Heating equipment, except electric	30.7	31.7	34.3	34.2	—	23.0	24.2	26.6	26.5	—
3433	Fabricated structural metal products	38.4	38.8	39.5	41.1	—	27.6	28.0	27.9	29.3	—
344	Fabricated structural steel	450.2	456.1	472.6	480.5	483.3	313.2	319.1	332.4	338.7	342.7
3441	Metal doors, sash, and trim	98.4	99.6	97.6	98.3	—	69.6	70.8	69.3	70.0	—
3442	Fabricated plate work (boiler shops)	73.4	73.1	80.3	82.9	—	55.2	54.7	60.9	62.8	—
3443	Sheet metal work	133.1	137.5	137.2	138.6	—	84.8	89.0	88.7	89.9	—
3444	Architectural and miscellaneous metal work	87.4	87.9	95.2	97.1	—	63.4	64.0	70.3	71.6	—
3446.9	Screw machine products, bolts, etc	57.9	58.0	62.3	63.6	—	40.2	40.6	43.2	44.4	—
345	Screw machine products	98.7	100.9	104.6	105.6	106.7	76.4	78.7	82.3	82.9	84.1
3451	Bolts, nuts, rivets, and washers	45.9	47.4	50.4	51.3	—	37.8	39.2	41.5	42.2	—
3452	Metal stampings	52.8	53.5	54.2	54.3	—	38.6	39.5	40.8	40.7	—
346	Metal services, nec	227.9	238.1	229.0	230.6	239.1	185.1	194.8	185.3	186.7	195.1
347	Miscellaneous fabricated wire products	91.8	92.8	94.9	96.0	96.9	74.8	75.8	77.7	78.7	79.5
348	Miscellaneous fabricated metal products	60.2	60.4	60.1	60.4	60.9	47.7	47.8	45.8	46.4	46.8
349	Valves, pipe, and pipe fittings	166.0	167.1	174.0	175.5	(*)	120.3	121.9	126.0	126.8	(*)
3494.8		109.2	109.9	114.8	116.1	—	74.6	75.6	79.0	79.9	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P
DURABLE GOODS—Continued											
35	MACHINERY, EXCEPT ELECTRICAL	2,069.2	2,110.4	2,182.0	2,190.0	2,216.0	1,326.7	1,366.3	1,412.4	1,412.7	1,435.4
351	Engines and turbines	112.5	114.4	114.1	114.6	118.7	72.2	74.2	71.9	71.9	74.8
3511	Steam engines and turbines	42.5	42.7	42.5	42.8	—	22.3	22.6	22.2	22.0	—
3519	Internal combustion engines, nec.	70.0	71.7	71.6	71.8	—	49.9	51.6	49.7	49.9	—
352	Farm machinery	145.4	148.7	144.9	142.0	—	101.3	104.3	99.6	95.9	—
353	Construction and related machinery ..	337.3	340.6	348.7	352.6	(*)	215.4	218.1	227.2	225.7	(*)
3531,2	Construction and mining machinery ..	179.5	180.0	179.7	182.7	—	114.4	115.7	116.8	114.4	—
3533	Oil field machinery	68.3	68.8	72.4	72.7	—	47.2	47.3	50.8	51.2	—
3535,6	Conveyors, hoists, cranes, monorails ..	47.7	48.4	50.2	50.3	—	28.6	29.2	29.8	29.9	—
3537	Industrial trucks and tractors	30.4	30.7	34.0	34.3	—	19.5	19.8	22.8	23.1	—
354	Metal working machinery	306.8	315.1	327.0	327.7	333.6	222.7	230.9	239.3	240.1	246.1
3541	Machine tools, metal cutting types ..	59.4	61.5	62.4	62.9	—	38.1	40.4	40.3	40.6	—
3544	Special dies, tools, jigs, and fixtures ..	120.4	124.1	131.8	132.0	—	96.2	99.8	106.2	106.1	—
3545	Machine tool accessories	54.2	55.4	57.6	57.7	—	38.7	39.7	40.5	40.8	—
3542,8	Miscellaneous metal working machinery ..	72.8	74.1	75.2	75.1	—	49.7	51.0	52.3	52.6	—
355	Special industry machinery	176.2	177.1	177.9	179.7	(*)	112.4	113.0	113.4	114.9	(*)
3551	Food products machinery	41.1	40.9	42.3	42.5	—	26.7	26.5	27.2	27.3	—
3552	Textile machinery	31.1	31.0	29.6	30.4	—	22.1	22.3	21.3	22.1	—
3555	Printing trades machinery	24.5	25.1	26.7	27.2	—	14.5	14.4	15.9	16.3	—
356	General industrial machinery	285.6	291.7	297.6	299.1	300.4	185.1	191.3	193.7	194.6	197.0
3561	Pumps and compressors	81.7	83.2	86.1	86.5	—	48.3	50.0	51.7	52.0	—
3562	Ball and roller bearings	52.6	54.6	56.8	57.4	—	40.0	42.0	42.0	42.4	—
3564	Blowers and fans	34.4	34.9	34.8	34.8	—	21.5	22.3	22.1	22.0	—
3566	Power transmission equipment	47.8	48.1	47.3	47.7	—	33.5	34.2	33.2	33.6	—
357	Office and computing machines	292.5	297.3	324.9	326.0	328.4	115.2	119.1	135.8	135.6	136.6
3573	Electronic computing equipment	221.2	223.7	250.4	253.4	—	73.8	75.3	92.6	94.9	—
358	Service industry machines	162.1	168.6	172.5	173.4	174.9	111.6	118.6	120.7	121.9	123.9
3585	Refrigeration machinery	111.4	116.9	120.8	120.4	—	77.9	83.9	86.2	86.2	—
359	Miscellaneous machinery, except electrical ..	250.8	256.9	274.4	274.9	276.5	190.8	196.8	210.8	212.1	213.2
36	ELECTRICAL EQUIPMENT AND SUPPLIES ..	1,837.6	1,866.7	1,931.2	1,946.1	1,971.0	1,214.9	1,240.9	1,276.8	1,291.7	1,315.0
361	Electric test and distributing equipment ..	194.4	194.3	207.1	206.8	208.0	130.0	130.0	139.5	139.5	139.7
3611	Electric measuring instruments	72.4	71.9	79.4	79.4	—	43.6	43.5	47.6	47.7	—
3612	Transformers	47.1	46.8	50.2	50.4	—	33.4	33.2	36.8	37.0	—
3613	Switchgear and switchboard apparatus ..	74.9	75.6	77.5	77.0	—	53.0	53.3	55.1	54.8	—
362	Electrical industrial apparatus	213.5	217.1	222.8	223.4	(*)	151.7	154.9	159.0	159.0	(*)
3621	Motors and generators	103.7	106.5	107.7	108.2	—	77.0	79.4	81.5	81.5	—
3622	Industrial controls	68.4	68.7	71.2	71.6	—	45.2	45.5	46.1	46.4	—
363	Household appliances	163.9	167.1	179.2	179.3	182.4	127.5	131.0	140.2	140.9	144.1
3632	Household refrigerators and freezers ..	31.5	32.9	39.3	36.2	—	23.2	24.8	30.6	27.9	—
3633	Household laundry equipment	24.4	25.1	28.2	27.9	—	19.2	20.2	22.3	22.1	—
3634	Electric housewares and fans	51.2	51.5	52.9	55.6	—	40.8	41.1	41.5	44.1	—
364	Electric lighting and wiring equipment ..	196.1	201.5	205.5	207.0	210.7	150.3	155.2	157.7	158.3	161.6
3641	Electric lamps	35.8	37.9	37.6	37.9	—	31.6	33.7	33.4	33.7	—
3642	Lighting fixtures	64.4	65.8	64.8	67.0	—	49.8	50.9	49.4	51.2	—
3643,4	Wiring devices	95.9	97.8	103.1	102.1	—	68.9	70.6	74.9	73.4	—
365	Radio and TV receiving equipment	130.9	134.1	131.1	136.3	139.3	95.8	98.6	94.7	100.2	103.3
366	Communication equipment	418.4	422.4	440.6	441.4	443.6	206.9	210.4	218.7	219.4	222.1
3661	Telephone and telegraph apparatus	131.1	134.8	146.0	146.6	—	85.3	88.8	97.7	98.7	—
3662	Radio and TV communication equipment ..	287.3	287.6	294.6	294.8	—	121.6	121.6	121.0	120.7	—
367	Electronic components and accessories ..	377.8	381.9	390.2	395.8	397.6	243.9	247.2	248.0	253.9	255.4
3671,3	Electron tubes	42.0	42.7	43.4	43.1	—	27.7	28.1	27.9	27.7	—
3674,9	Other electronic components	335.8	339.2	346.8	352.7	—	216.2	219.1	220.1	226.2	—
369	Miscellaneous electrical equipment and supplies ..	142.6	148.3	154.7	156.1	162.5	108.8	113.6	119.0	120.5	126.6
3694	Engine electrical equipment	73.3	76.7	79.8	80.0	—	57.1	60.1	63.8	64.1	—
37	TRANSPORTATION EQUIPMENT	1,724.2	1,782.1	1,794.3	1,746.9	1,824.2	1,212.5	1,269.6	1,263.7	1,220.7	1,295.6
371	Motor vehicles and equipment	845.9	896.5	875.7	838.3	(*)	653.0	703.6	675.1	636.6	(*)
3711	Motor vehicles	351.6	376.6	365.6	330.3	—	259.4	284.2	271.4	236.0	—
3712	Passenger car bodies	46.2	49.4	37.3	37.4	—	36.3	39.3	26.2	26.1	—
3713	Truck and bus bodies	39.7	40.6	42.5	42.3	—	30.3	31.3	33.0	32.9	—
3714	Motor vehicle parts and accessories	386.8	408.0	405.0	402.3	—	310.9	332.2	325.0	321.9	—
3715	Truck trailers	21.6	21.9	25.3	26.0	—	16.1	16.6	19.5	19.7	—
372	Aircraft and parts	477.4	483.1	486.6	479.0	(*)	242.4	248.6	248.5	246.5	(*)
3721	Aircraft	259.5	260.7	260.5	258.0	—	122.4	123.6	123.3	123.5	—
3722	Aircraft engines and engine parts	129.2	132.1	132.7	129.5	—	68.3	71.1	70.2	68.4	—
3723,9	Other aircraft parts and equipment	88.7	90.3	93.4	91.5	—	51.7	53.9	56.0	54.6	—
373	Ship and boat building and repairing	211.5	214.7	227.2	220.1	223.5	168.0	170.2	180.3	171.9	173.7
3731	Ship building and repairing	165.3	167.9	177.7	172.6	—	130.6	132.2	139.5	133.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
DURABLE GOODS—Continued											
TRANSPORTATION EQUIPMENT—Continued											
3732	Boat building and repairing	46.2	46.8	49.5	47.5	—	37.4	38.0	40.8	38.8	—
374	Railroad equipment	39.5	40.6	49.2	(*)	—	28.4	29.1	36.6	(*)	—
375,9	Other transportation equipment	149.9	147.2	155.6	160.2	—	120.7	118.1	123.2	129.0	—
38	INSTRUMENTS AND RELATED PRODUCTS	512.3	513.7	525.3	526.1	524.8	312.1	313.4	320.1	321.1	321.9
381	Engineering and scientific instruments	58.9	59.7	58.4	59.3	—	28.3	28.5	27.2	27.9	—
382	Mechanical measuring and control devices	117.8	118.4	122.5	122.7	123.0	75.2	75.6	79.1	79.5	79.9
3821	Mechanical measuring devices	75.9	76.7	80.9	80.9	—	45.1	45.8	49.4	49.4	—
3822	Automatic temperature controls	41.9	41.7	41.6	41.8	—	30.1	29.8	29.7	30.1	—
383,5	Optical and ophthalmic goods	63.9	64.4	69.7	69.6	70.1	43.1	43.4	47.1	46.9	46.9
385	Ophthalmic goods	41.8	41.9	44.9	45.0	—	30.4	30.6	32.6	32.9	—
384	Medical instruments and supplies	109.0	110.1	115.9	116.5	117.2	72.6	74.0	77.6	78.1	78.5
386	Photographic equipment and supplies	131.8	129.9	129.5	128.9	126.0	68.1	67.0	66.3	66.1	64.8
387	Watches, clocks, and watchcases	30.9	31.2	29.3	29.1	—	24.8	24.9	22.8	22.6	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	430.4	437.6	407.8	425.9	427.8	329.8	337.7	308.6	326.2	327.0
391	Jewelry, silverware, and plated ware	54.9	55.3	51.8	55.0	55.8	40.3	40.8	37.1	40.3	41.0
394	Toys and sporting goods	128.9	133.8	117.4	124.1	—	100.7	106.1	89.2	95.6	—
3941-3	Games, toys, dolls, and play vehicles	73.6	78.2	63.2	70.4	—	56.3	61.3	47.1	53.6	—
3949	Sporting and athletic goods, nec	55.3	55.6	54.2	53.7	—	44.4	44.8	42.1	42.0	—
395	Pens, pencils, office, and art supplies	33.5	33.4	33.6	34.1	—	23.6	23.4	24.0	24.6	—
396	Costume jewelry and notions	53.1	53.3	46.8	50.4	—	43.2	43.3	37.4	40.7	—
393,9	Other manufacturing industries	160.0	161.8	158.2	162.3	162.8	122.0	124.1	120.9	125.0	125.2
393	Musical instruments and parts	23.6	23.9	22.1	23.0	—	19.2	19.5	17.7	18.7	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,835.2	1,837.1	1,757.2	1,828.0	1,825.8	1,282.8	1,287.9	1,195.0	1,264.5	1,266.2
201	Meat products	358.5	358.3	365.3	364.3	363.6	295.7	295.8	300.9	300.1	299.6
2011	Meat packing plants	169.8	171.7	170.6	170.3	—	136.4	138.0	136.2	135.8	—
2013	Sausages and other prepared meats	67.4	66.8	68.7	68.6	—	48.1	47.9	50.0	50.1	—
2015	Poultry dressing plants	121.3	119.8	126.0	125.4	—	111.2	109.9	114.7	114.2	—
202	Dairy products	198.9	195.6	198.4	198.5	194.4	104.6	101.8	104.6	104.2	101.2
2024	Ice cream and frozen desserts	24.8	22.9	24.7	24.5	—	13.9	12.4	14.1	13.9	—
2026	Fluid milk	126.1	125.5	126.4	127.0	—	54.8	54.1	54.5	54.8	—
203	Canned, cured, and frozen foods	403.1	405.9	315.5	383.0	—	352.3	355.6	261.6	327.4	—
2031,6	Canned, cured, and frozen sea foods	49.0	48.2	46.5	43.7	—	43.1	42.0	41.2	38.2	—
2032,3	Canned food, except sea foods	227.9	237.5	160.6	223.2	—	202.4	212.5	131.4	192.2	—
2037	Frozen fruits and vegetables	72.0	71.9	58.9	64.4	—	63.2	63.2	50.6	56.2	—
204	Grain mill products	145.1	146.7	147.6	148.0	147.1	101.0	102.8	102.8	103.4	102.3
2041	Flour and other grain mill products	26.9	27.3	28.5	28.8	—	19.1	19.6	19.5	19.7	—
2042	Prepared feeds for animals and fowls	74.7	75.0	73.9	73.6	—	49.0	49.5	49.4	49.1	—
205	Bakery products	242.9	243.2	240.9	241.9	240.9	140.8	141.2	139.3	140.6	140.2
2051	Bread, cake, and related products	201.5	201.0	201.7	202.3	—	108.1	107.4	108.0	108.7	—
2052	Cookies and crackers	41.4	42.2	39.2	39.6	—	32.7	33.8	31.3	31.9	—
206	Sugar	31.0	31.6	25.8	25.4	—	22.6	23.2	18.4	18.1	—
207	Confectionery and related products	76.4	79.8	75.2	77.0	79.2	58.1	61.4	57.2	59.1	62.2
2071	Confectionery products	55.1	58.4	53.2	55.0	—	42.8	46.0	41.5	43.3	—
208	Beverages	232.7	229.5	240.0	241.9	237.9	113.7	111.6	115.1	116.3	113.8
2082	Malt liquors	51.4	51.0	53.3	52.9	—	37.6	36.9	38.7	38.0	—
2086	Bottled and canned soft drinks	137.4	134.2	143.0	144.0	—	51.0	49.0	52.9	53.4	—
209	Miscellaneous foods and kindred products	146.6	146.5	148.5	148.0	148.3	94.0	94.5	95.1	95.3	95.3
21	TOBACCO MANUFACTURES	85.0	84.8	65.8	74.1	74.7	71.5	71.4	51.7	60.0	60.4
211	Cigarettes	45.5	45.3	44.1	44.2	—	37.2	37.1	34.9	34.8	—
212	Cigars	10.3	10.2	8.9	9.3	—	9.0	8.9	7.2	7.6	—
22	TEXTILE MILL PRODUCTS	974.9	973.0	972.8	987.3	990.9	852.0	849.9	847.3	860.8	864.3
221	Weaving mills, cotton	175.8	175.6	170.5	169.0	169.4	159.8	159.5	154.0	152.6	153.2
222	Weaving mills, synthetics	123.9	123.5	120.8	121.1	122.0	110.8	110.5	108.3	108.5	109.4
223	Weaving and finishing mills, wool	23.0	23.1	21.9	22.7	22.3	19.2	19.3	18.4	19.0	18.7
224	Narrow fabric mills	26.4	25.8	24.3	25.5	25.8	23.1	22.4	21.1	22.2	22.6
225	Knitting mills	264.0	261.5	268.5	276.6	(*)	227.6	224.9	231.1	239.0	(*)
2251	Women's hosiery, except socks	39.1	39.1	37.5	38.4	—	34.7	34.5	33.2	34.2	—
2252	Hosiery, nec	34.9	34.5	36.2	36.8	—	31.0	30.5	32.4	33.1	—
2253	Knit outerwear mills	80.0	79.0	80.1	85.5	—	68.5	67.4	68.3	73.1	—
2254	Knit underwear mills	40.5	39.5	41.4	41.4	—	35.2	34.2	35.6	35.8	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
NONDURABLE GOODS—Continued											
TEXTILE MILL PRODUCTS—Continued											
226	Textile finishing, except wool	81.9	81.2	81.1	81.6	81.1	69.5	69.0	68.6	69.2	68.8
227	Floor covering mills	60.0	61.6	63.1	64.7	—	47.5	49.1	49.9	51.4	—
228	Yarn and thread mills	154.7	153.6	156.8	158.8	158.2	141.6	140.6	143.3	145.0	144.2
229	Miscellaneous textile goods	65.2	67.1	65.8	67.3	67.2	52.9	54.6	52.6	53.9	53.9
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,299.7	1,298.9	1,248.9	1,288.2	1,294.1	1,117.0	1,116.5	1,065.0	1,101.5	1,106.1
231	Men's and boys' suits and coats	89.0	89.4	84.1	88.5	90.0	78.5	78.9	72.3	76.7	78.1
232	Men's and boys' furnishings	386.9	384.3	371.1	386.7	384.5	330.8	328.5	316.7	331.2	329.0
2321	Men's and boys' shirts and nightwear	119.9	117.8	110.2	115.5	—	104.3	102.5	94.8	99.6	—
2327	Men's and boys' separate trousers	87.0	85.5	84.2	87.3	—	75.6	74.2	73.8	76.8	—
2328	Men's and boys' work clothing	92.7	94.2	93.9	98.3	—	75.9	77.1	76.5	80.9	—
233	Women's and misses' outerwear	381.8	380.3	363.2	373.5	(*)	334.7	333.4	315.6	324.7	(*)
2331	Women's and misses' blouses and waists	48.3	47.5	45.8	47.8	—	42.6	41.9	40.0	41.7	—
2335	Women's and misses' dresses	166.2	165.9	158.5	162.6	—	149.0	148.6	140.0	144.1	—
2337	Women's and misses' suits and coats	59.2	58.4	53.5	55.2	—	50.8	50.1	44.7	46.2	—
2339	Women's and misses' outerwear, nec	108.1	108.5	105.4	107.9	—	92.3	92.8	90.9	92.7	—
234	Women's and children's undergarments	102.6	102.3	98.3	100.7	102.0	87.1	87.0	82.8	85.2	86.2
2341	Women's and children's underwear	77.7	77.5	74.8	77.4	—	67.3	67.2	64.1	66.7	—
2342	Corsets and allied garments	24.9	24.8	23.5	23.3	—	19.8	19.8	18.7	18.5	—
235	Hats, caps, and millinery	16.0	15.7	15.8	15.7	—	14.1	13.6	13.9	13.8	—
236	Children's outerwear	78.6	76.5	76.2	74.0	75.4	67.6	65.5	65.1	62.9	64.2
2361	Children's dresses and blouses	30.2	30.3	30.4	28.2	—	27.2	27.3	27.4	25.3	—
237,8	Fur goods and miscellaneous apparel	67.4	69.6	65.1	68.0	—	58.2	60.1	54.8	58.2	—
239	Miscellaneous fabricated textile products	177.4	180.8	175.1	181.1	186.7	146.0	149.5	143.8	148.8	154.8
2391,2	Housefurnishings	76.6	77.8	75.0	77.7	—	64.3	65.0	62.4	65.1	—
26	PAPER AND ALLIED PRODUCTS	684.7	684.8	703.8	710.3	706.5	519.4	519.3	527.9	534.4	531.8
261,2,6	Paper and pulp mills	203.5	203.2	206.1	206.7	204.6	156.2	155.6	158.3	158.4	157.5
263	Paperboard mills	71.4	71.0	72.2	72.3	71.2	56.8	56.5	56.7	56.8	55.7
264	Miscellaneous converted paper products	199.1	200.4	208.0	211.8	211.7	142.3	143.9	144.5	149.7	149.6
2643	Bags, except textile bags	42.8	43.8	44.3	45.3	—	34.0	35.1	34.8	35.7	—
265	Paperboard containers and boxes	210.7	210.2	217.5	219.5	219.0	164.1	163.3	168.4	169.5	169.0
2651,2	Folding and setup paperboard boxes	60.4	61.3	58.7	59.8	—	49.3	49.8	46.9	48.1	—
2653	Corrugated and solid fiber boxes	101.7	101.7	105.8	106.6	—	75.1	75.1	77.8	78.2	—
2654	Sanitary food containers	31.0	30.7	35.1	35.2	—	25.7	25.6	29.4	29.0	—
27	PRINTING AND PUBLISHING	1,079.1	1,084.9	1,109.2	1,111.9	1,117.7	626.4	632.7	636.1	636.8	641.0
271	Newspapers	383.8	384.9	394.3	394.5	395.9	165.0	166.5	164.3	163.3	163.9
272	Periodicals	69.8	69.9	72.3	72.4	—	18.3	18.8	19.9	19.5	—
273	Books	86.9	86.1	89.4	89.0	—	45.6	44.8	47.1	46.3	—
275	Commercial printing	356.6	361.4	363.9	366.1	370.4	268.0	272.4	271.5	273.7	277.0
2751	Commercial printing, except lithographic	202.8	206.8	204.6	205.6	—	154.8	158.1	154.4	156.1	—
2752	Commercial printing, lithographic	144.1	144.8	149.2	150.4	—	106.0	107.0	109.1	109.5	—
278	Blankbooks and bookbinding	51.6	51.4	52.5	52.7	52.9	42.2	42.0	42.8	43.3	43.6
274,6,7,9	Other publishing and printing ind	130.4	131.2	136.8	137.2	136.5	87.3	88.2	90.5	90.7	90.2
28	CHEMICALS AND ALLIED PRODUCTS	1,048.5	1,040.6	1,069.4	1,070.8	1,063.6	599.9	593.2	612.5	614.1	609.7
281	Industrial chemicals	342.3	338.2	350.6	351.1	347.3	183.8	180.6	189.2	190.5	187.4
2812	Alkalies and chlorine	21.7	21.8	21.1	21.5	—	15.9	16.2	15.4	15.7	—
2818	Industrial organic chemicals, nec	140.7	140.0	144.8	144.6	—	62.1	62.5	67.9	68.2	—
2819	Industrial inorganic chemicals, nec	112.6	110.2	116.8	116.8	—	62.9	60.2	63.5	63.5	—
282	Plastics materials and synthetics	204.5	203.8	207.3	207.2	204.8	136.0	135.4	319.1	139.2	137.6
2821	Plastics materials and resins	89.2	89.4	90.7	90.8	—	56.2	56.2	56.7	56.7	—
2823,4	Synthetic fibers	103.8	102.3	102.8	102.6	—	71.7	70.2	72.0	72.0	—
283	Drugs	170.5	169.8	176.0	177.0	175.0	84.8	84.4	87.8	87.7	87.2
2834	Pharmaceutical preparations	136.3	135.8	140.0	141.3	—	65.4	65.2	67.3	67.6	—
284	Soap, cleaners, and toilet goods	127.1	126.9	125.3	125.9	128.2	76.5	76.3	74.6	75.5	77.6
2841	Soap and other detergents	40.4	40.4	40.7	40.7	—	27.0	27.0	26.1	26.4	—
2844	Toilet preparations	52.6	52.8	50.3	50.8	—	31.7	31.6	30.2	30.7	—
285	Paints and allied products	68.2	67.0	72.4	72.1	70.9	37.3	35.8	39.0	38.8	37.7
287	Agricultural chemicals	54.3	54.1	56.6	56.0	55.7	32.6	32.6	34.4	34.0	33.5
2871,2	Fertilizers, complete and mixing only	31.7	31.9	33.7	33.3	—	21.3	21.5	22.3	21.9	—
286,9	Other chemical products	81.6	80.8	81.2	81.5	81.7	48.9	48.1	48.4	48.4	48.7
2892	Explosives	15.1	15.0	14.1	14.2	—	9.9	9.9	9.6	9.6	—
29	PETROLEUM AND COAL PRODUCTS	207.1	205.2	215.8	215.0	212.2	134.8	133.6	142.9	143.2	140.9
291	Petroleum refining	159.1	157.4	164.4	163.5	160.8	99.2	98.1	104.6	104.7	102.4
295,9	Other petroleum and coal products	48.0	47.8	51.4	51.5	51.4	35.6	35.5	38.3	38.5	38.5

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
NONDURABLE GOODS—Continued											
30	RUBBER AND PLASTICS PRODUCTS, NEC...	576.5	652.4	675.2	677.2	682.9	436.6	513.4	528.6	529.5	535.5
301	Tires and inner tubes	54.1	117.6	123.8	122.7	122.8	24.1	87.6	91.9	91.2	90.9
302,3,6	Other rubber products	164.4	172.8	171.5	172.5	174.4	127.3	136.4	134.5	134.7	136.9
302	Rubber footwear	21.0	23.4	19.9	19.7	—	17.4	19.6	17.2	16.6	—
307	Miscellaneous plastics products	358.0	362.0	379.9	382.0	385.7	285.2	289.4	302.2	303.6	307.7
31	LEATHER AND LEATHER PRODUCTS	272.7	268.1	251.7	261.1	259.2	234.9	229.6	215.3	224.3	222.3
311	Leather tanning and finishing	23.6	23.3	22.2	22.6	22.2	20.4	19.9	19.0	19.4	19.3
314	Footwear, except rubber	171.1	166.8	155.5	159.8	158.8	149.6	145.1	136.3	140.3	139.1
312,3,5-7,9	Other leather products	78.0	78.0	74.0	78.7	78.2	64.9	64.6	60.0	64.6	63.9
316	Luggage	18.1	18.2	17.8	18.1	—	14.3	14.3	13.7	14.0	—
317	Handbags and personal leather goods	36.2	36.1	33.9	35.7	—	30.3	30.2	27.8	29.6	—
TRANSPORTATION AND PUBLIC UTILITIES											
RAILROAD TRANSPORTATION											
40	RAILROAD TRANSPORTATION	536.7	537.2	547.2	544.3	—	—	—	—	—	—
4011	Class I railroads ²	497.9	498.9	509.2	506.9	—	—	—	—	—	—
LOCAL AND INTERURBAN PASSENGER TRANSPORTATION											
41	TRANSIT	234.4	271.2	226.9	225.1	—	—	—	—	—	—
411	Local and suburban transportation	67.6	68.7	66.9	66.7	—	62.1	63.0	61.7	61.4	—
412	Taxicabs	75.5	75.3	70.2	70.0	—	—	—	—	—	—
413	Intercity highway transportation	42.2	41.0	41.2	41.0	—	38.3	37.1	37.7	37.5	—
42	TRUCKING AND WAREHOUSING	1,115.3	1,123.0	1,138.5	1,145.4	—	995.9	1,003.1	1,008.2	1,014.2	—
421,3	Trucking and trucking terminals	1,027.9	1,035.3	1,048.0	1,053.4	—	921.4	928.2	931.1	935.6	—
422	Public warehousing	87.4	87.7	90.5	92.0	—	74.5	74.9	77.1	78.6	—
45	TRANSPORTATION BY AIR	375.1	374.6	384.5	384.6	—	—	—	—	—	—
451,2	Air transportation	339.8	339.2	347.9	347.5	—	—	—	—	—	—
46	PIPELINE TRANSPORTATION	17.2	16.6	17.1	17.1	—	12.9	12.4	12.4	12.5	—
44,47	OTHER TRANSPORTATION AND SERVICES	346.7	350.4	361.4	361.0	—	—	—	—	—	—
44	WATER TRANSPORTATION	199.1	203.6	200.6	199.6	—	—	—	—	—	—
47	TRANSPORTATION SERVICES	147.6	146.8	160.8	161.4	—	—	—	—	—	—
48	COMMUNICATION	1,158.9	1,152.9	1,172.0	1,174.8	—	895.1	887.9	896.8	901.9	—
481	Telephone communication	948.1	941.4	955.7	957.9	—	724.0	717.1	722.7	727.1	—
482	Telegraph communication ³	17.6	17.4	18.1	(*)	—	13.0	12.9	14.7	(*)	—
483	Radio and television broadcasting	159.3	159.9	162.0	162.4	—	128.5	128.0	127.6	128.3	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	743.8	734.0	756.4	758.0	—	617.4	607.2	625.3	627.2	—
491	Electric companies and systems	315.1	312.1	324.0	324.5	—	258.8	255.8	265.4	266.1	—
492	Gas companies and systems	163.1	159.4	160.7	160.0	—	134.8	131.0	132.7	132.0	—
493	Combination companies and systems	196.8	194.6	197.8	200.1	—	164.5	161.9	163.7	166.0	—
494-7	Water, steam, and sanitary systems	68.8	67.9	73.9	73.4	—	59.3	58.5	63.5	63.1	—
—	WHOLESALE AND RETAIL TRADE	17,754	17,870	18,306	18,345	18,459	15,696	15,797	16,140	16,167	16,266
50	WHOLESALE TRADE	4,302	4,300	4,420	4,428	4,422	3,566	3,561	3,652	3,655	3,646
501	Motor vehicles and automotive equipment	383.4	382.7	399.3	398.1	—	313.1	312.6	327.5	325.9	—
502	Drugs, chemicals, and allied products	243.0	242.2	247.5	248.4	—	193.6	192.1	195.7	196.7	—
503	Dry goods and apparel	156.6	155.6	157.3	159.5	—	122.5	121.2	121.0	123.1	—
504	Groceries and related products	634.8	631.4	630.1	627.6	—	554.6	550.2	547.1	544.0	—
506	Electrical goods	318.4	319.7	330.4	329.7	—	268.1	269.3	275.7	273.6	—
507	Hardware; plumbing and heating equipment	188.3	188.3	198.1	197.3	—	156.7	156.6	164.5	163.9	—
508	Machinery, equipment, and supplies	892.6	890.8	938.4	941.1	—	737.0	734.8	777.9	779.8	—
509	Miscellaneous wholesalers	1,374.2	1,375.8	1,410.2	1,414.8	—	1,129.9	1,129.9	1,155.5	1,159.4	—
52-59	RETAIL TRADE	13,452	13,570	13,886	13,917	14,037	12,130	12,236	12,488	12,512	12,620
53	Retail General Merchandise	2,442.4	2,487.3	2,462.9	2,455.5	—	2,242.7	2,288.8	2,263.7	2,257.7	—
531	Department stores	1,652.8	1,681.2	1,694.0	1,681.1	—	1,526.1	1,556.5	1,570.5	1,559.3	—
532	Mail order houses	110.0	113.5	104.4	106.9	—	103.0	106.6	99.1	101.7	—
533	Variety stores	299.3	311.9	295.0	295.3	—	279.8	292.3	274.5	274.1	—
54	FOOD STORES	2,038.7	2,066.3	2,102.1	2,094.6	—	1,883.3	1,909.7	1,939.6	1,932.5	—
541-3	Grocery, meat, and vegetable stores	1,855.4	1,882.4	1,909.6	1,902.0	—	1,714.5	1,739.6	1,762.0	1,754.7	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry—Continued

(In thousands)

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
WHOLESALE AND RETAIL TRADE—Continued											
56	APPAREL AND ACCESSORY STORES	780.0	793.5	790.9	797.1	—	679.3	692.2	684.1	689.6	—
561	Men's and boys' clothing and furnishings	136.4	136.9	139.9	139.1	—	118.7	118.5	120.5	120.1	—
562	Women's ready-to-wear stores	290.4	294.7	284.2	287.0	—	254.7	259.2	247.7	249.9	—
565	Family clothing stores	121.6	123.1	126.2	126.7	—	109.3	111.5	112.2	112.7	—
566	Shoe stores	160.2	165.3	165.4	169.5	—	133.8	138.5	137.3	140.5	—
57	FURNITURE AND HOME FURNISHINGS STORES	530.9	534.8	549.7	551.0	—	448.4	451.6	462.3	463.1	—
571	Furniture and home furnishings	322.8	323.1	329.6	329.7	—	274.8	275.2	279.5	279.4	—
58	EATING AND DRINKING PLACES	3,749.9	3,773.3	3,949.5	3,985.6	—	3,502.0	3,521.2	3,676.9	3,708.1	—
52,55,59	OTHER RETAIL TRADE	3,910.3	3,914.3	4,030.9	4,033.4	—	3,374.2	3,372.9	3,461.0	3,460.6	—
52	Building materials and farm equipment	643.3	636.6	676.6	675.0	—	552.4	545.7	579.5	578.0	—
55	Automotive dealers and service stations	1,763.5	1,757.8	1,792.3	1,793.5	—	—	—	—	—	—
551,2	Motor vehicle dealers	789.9	791.0	811.6	814.1	—	660.6	660.4	675.0	678.2	—
553,9	Other automotive and accessory dealers	341.5	334.6	355.0	353.5	—	289.3	282.9	301.4	300.5	—
554	Gasoline service stations	632.1	632.2	625.7	625.9	—	—	—	—	—	—
59	Miscellaneous retail stores	1,503.5	1,519.9	1,562.0	1,564.9	—	—	—	—	—	—
591	Drug stores and proprietary stores	472.9	475.8	481.5	485.2	—	421.8	423.1	427.5	430.4	—
594	Book and stationery stores	79.2	82.2	79.1	80.2	—	66.5	69.6	66.6	67.4	—
596	Farm and garden supply stores	135.1	138.6	144.2	139.8	—	—	—	—	—	—
598	Fuel and ice dealers	95.1	95.8	95.0	95.1	—	79.7	80.7	79.6	79.7	—
FINANCE, INSURANCE, AND REAL ESTATE⁴											
4,368 4,347 4,565 4,579 4,552 3,345 3,319 3,492 3,495 3,466											
60	Banking	1,312.8	1,305.2	1,356.6	1,360.6	—	1,036.6	1,029.2	1,060.8	1,059.5	—
61	Credit agencies other than banks	467.5	467.4	504.0	505.7	—	359.5	359.3	390.0	391.3	—
612	Savings and loan associations	188.9	189.2	209.6	210.2	—	152.5	152.6	167.4	167.8	—
614	Personal credit institutions	194.8	194.8	205.2	206.0	—	—	—	—	—	—
62	Security, commodity brokers and services	176.0	176.5	181.2	181.8	—	144.9	142.8	148.0	147.9	—
63	Insurance carriers	1,118.1	1,114.7	1,155.1	1,158.1	—	756.5	753.1	785.9	785.8	—
631	Life insurance	516.5	514.5	520.8	520.9	—	295.6	293.8	296.1	295.0	—
632	Accident and health insurance	122.3	122.0	124.6	124.5	—	100.2	99.5	102.6	102.5	—
633	Fire, marine, and casualty insurance	417.1	416.3	440.9	443.8	—	309.2	308.6	330.3	331.5	—
64	Insurance agents, brokers, and service	343.4	344.4	367.3	370.0	—	—	—	—	—	—
65	Real estate	833.3	823.7	884.4	885.7	—	—	—	—	—	—
655	Subdividers and developers	122.5	118.1	128.6	127.6	—	—	—	—	—	—
656	Operative builders	58.9	58.0	68.1	66.9	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	116.7	115.5	116.3	117.3	—	—	—	—	—	—
SERVICES											
14,869 14,813 15,541 15,585 15,550 13,385 13,337 13,884 13,912 13,886											
70	Hotels and other lodging places	1,211.3	1,109.6	1,213.4	1,229.4	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	944.1	907.6	921.6	934.6	—	878.5	842.4	851.9	865.2	—
72	Personal services	818.3	815.8	804.0	799.1	—	—	—	—	—	—
721	Laundries and dry cleaning plants	354.1	351.6	352.1	351.4	—	317.2	315.0	314.9	314.3	—
722	Photographic studios	43.4	45.6	38.2	39.0	—	37.9	40.7	34.0	35.0	—
73	Miscellaneous business services	2,148.3	2,164.3	2,265.3	2,286.4	—	—	—	—	—	—
731	Advertising	126.8	127.5	135.2	135.7	—	—	—	—	—	—
732	Credit reporting and collection	82.8	82.5	88.8	88.5	—	—	—	—	—	—
734	Services to buildings	412.5	417.5	427.3	429.4	—	—	—	—	—	—
76	Miscellaneous repair services	219.4	222.4	232.2	233.4	—	—	—	—	—	—
78	Motion pictures	218.2	212.2	219.8	230.0	—	—	—	—	—	—
781	Motion picture filming and distributing	68.3	69.0	70.2	75.6	—	49.0	53.1	58.9	63.6	—
782,3	Motion picture theaters and services	149.9	143.2	149.6	154.4	—	—	—	—	—	—
80	Medical and other health services	4,489.6	4,500.6	4,775.5	4,788.9	—	—	—	—	—	—
806	Hospitals	2,408.9	2,412.6	2,517.1	2,519.6	—	2,198.4	2,200.5	2,259.0	2,256.9	—
81	Legal services	381.3	372.8	424.1	420.6	—	—	—	—	—	—
82	Educational services	1,054.2	1,210.1	1,127.2	1,118.4	—	—	—	—	—	—
821	Elementary and secondary schools	337.3	396.8	380.7	378.8	—	—	—	—	—	—
822	Colleges and universities	552.0	639.3	566.6	556.9	—	—	—	—	—	—
89	Miscellaneous services	914.2	913.3	982.3	986.9	—	—	—	—	—	—
891	Engineering and architectural services	415.8	415.4	453.7	452.5	—	—	—	—	—	—
892	Nonprofit research agencies	155.3	152.6	167.5	168.9	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977	Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977
—	GOVERNMENT	14,230	14,660	14,600	14,484	15,004	—	—	—	—	—
91	FEDERAL GOVERNMENT⁵	2,754	2,717	2,773	2,757	2,726	—	—	—	—	—
	Executive	2,704.2	2,668.0	2,720.5	2,704.7	—	—	—	—	—	
	Department of Defense	929.3	917.2	931.6	922.0	—	—	—	—	—	
	Postal Service	667.8	662.8	657.5	656.8	—	—	—	—	—	
	Other agencies	1,107.1	1,088.0	1,131.4	1,125.9	—	—	—	—	—	
	Legislative	39.5	38.2	40.5	39.9	—	—	—	—	—	
	Judicial	10.2	11.2	12.3	12.4	—	—	—	—	—	
92,93	STATE AND LOCAL GOVERNMENT	11,476	11,943	11,827	11,727	12,278	—	—	—	—	
92	State government	3,079.8	3,180.8	3,151.9	3,138.9	—	—	—	—	—	
	State education	1,160.5	1,295.8	1,187.1	1,155.1	—	—	—	—	—	
	Other State government	1,919.3	1,885.0	1,964.8	1,983.8	—	—	—	—	—	
93	Local government	8,396.2	8,762.5	8,675.2	8,588.1	—	—	—	—	—	
	Local education	4,165.0	4,792.1	4,363.7	4,267.8	—	—	—	—	—	
	Other local government	4,231.2	3,970.4	4,311.5	4,320.3	—	—	—	—	—	

¹ Data relate to production and related 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.

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

³ Data for nonsupervisory workers exclude messengers.

⁴ Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

⁵ Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

* Not available.

p=preliminary.

ESTABLISHMENT DATA

SEASONALLY ADJUSTED EMPLOYMENT

B-4. Indexes of employment on nonagricultural payrolls, by industry division, 1919 to date, monthly data seasonally adjusted

(1967 = 100)

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	41.1	55.1	184.8	31.8	54.8	33.5	87.1	33.2	-	-	34.4	22.4	23.5	-	-
1920.....	41.5	54.8	202.1	26.4	54.8	34.3	93.8	32.8	-	-	36.4	23.4	22.8	-	-
1925.....	43.7	53.6	177.7	45.1	51.1	38.3	89.8	41.0	-	-	38.2	28.4	24.6	-	-
1926.....	45.3	55.4	193.3	48.5	52.2	39.7	92.5	42.5	-	-	40.5	30.2	25.0	-	-
1927.....	45.5	54.7	181.7	50.1	51.4	40.5	91.4	43.4	-	-	42.4	31.4	25.6	-	-
1928.....	45.6	54.2	171.3	50.1	51.1	40.8	89.8	43.2	-	-	44.5	32.3	26.3	-	-
1929.....	47.6	57.1	177.3	46.7	55.0	42.4	91.9	45.0	-	-	46.8	34.1	26.9	19.6	29.2
1930.....	44.7	51.3	164.6	42.8	49.2	41.0	86.5	42.6	-	-	45.7	33.4	27.6	19.3	30.2
1931.....	40.5	44.1	142.4	37.8	42.0	38.5	76.4	38.8	-	-	43.6	31.5	28.6	20.6	31.2
1932.....	35.9	37.1	119.2	30.2	35.6	35.2	66.1	34.4	-	-	41.6	29.0	28.3	20.6	30.7
1933.....	36.0	38.5	121.4	25.2	38.0	34.7	62.7	34.9	-	-	40.2	28.4	27.8	20.8	30.0
1934.....	39.4	44.0	144.0	26.9	43.7	36.9	64.5	38.8	-	-	40.9	30.3	28.9	24.0	30.5
1935.....	41.1	46.8	146.3	28.4	46.6	38.0	65.4	39.9	-	-	41.4	31.1	30.5	27.7	31.4
1936.....	44.2	51.2	154.3	35.7	50.5	40.3	69.8	42.7	-	-	43.0	32.9	32.2	30.4	32.7
1937.....	47.1	55.5	165.6	34.7	55.5	42.5	73.6	46.0	-	-	44.4	34.8	33.0	30.6	33.7
1938.....	44.4	48.9	145.4	32.9	48.5	41.8	67.2	45.4	-	-	44.2	34.4	34.1	30.5	35.2
1939.....	46.5	52.8	139.3	35.8	52.9	43.1	68.9	47.2	47.8	47.0	45.3	34.8	35.1	33.3	35.6
1940.....	49.2	56.7	150.9	40.3	56.5	45.0	71.3	49.6	49.8	49.6	46.6	36.4	36.9	36.6	36.9
1941.....	55.5	68.5	156.1	55.8	67.8	48.4	76.8	53.0	53.1	53.0	48.0	38.8	40.9	49.3	38.3
1942.....	60.9	79.3	161.8	67.6	78.6	50.9	81.2	52.3	51.7	52.5	47.7	40.4	48.1	81.4	37.7
1943.....	64.5	86.4	150.9	48.8	90.5	52.5	85.6	51.3	49.4	52.0	46.6	41.1	53.3	106.8	36.6
1944.....	63.6	83.0	145.5	34.1	89.1	53.0	89.9	51.9	50.0	52.5	45.8	41.2	53.0	107.7	35.9
1945.....	61.3	75.2	136.4	35.3	79.8	53.8	91.7	53.8	52.8	54.1	46.4	42.0	52.1	103.3	36.1
1946.....	63.3	74.0	140.6	51.8	75.6	57.4	95.3	61.6	62.1	61.4	52.6	46.7	49.1	82.9	38.5
1947.....	66.6	79.4	155.8	61.8	79.9	59.6	97.8	65.8	67.0	65.4	54.4	50.0	48.0	69.6	41.3
1948.....	68.2	80.6	162.2	67.6	80.1	61.4	98.3	68.1	70.6	67.3	56.7	51.5	49.6	68.5	43.6
1949.....	66.5	75.4	151.7	67.5	74.3	61.6	93.9	68.1	70.6	67.2	57.6	52.1	51.4	70.2	45.5
1950.....	68.7	79.4	147.0	72.7	78.4	62.8	94.7	69.0	71.4	68.1	59.5	53.3	52.9	70.9	47.2
1951.....	72.7	85.6	151.5	81.1	84.3	65.6	99.2	71.6	73.9	70.8	61.7	55.2	56.1	84.7	47.1
1952.....	74.1	86.7	146.5	82.1	85.5	67.3	99.7	73.5	76.2	72.6	64.2	56.7	58.0	89.0	48.3
1953.....	76.3	90.4	141.3	81.8	90.2	68.6	100.7	75.3	77.4	74.6	66.5	58.1	58.3	84.8	50.0
1954.....	74.4	84.7	129.0	81.4	83.9	68.8	95.8	75.2	77.7	74.4	69.3	59.4	59.2	80.5	52.6
1955.....	76.9	88.0	129.2	87.3	86.8	70.9	97.2	77.4	79.3	76.8	72.4	62.1	60.7	80.4	54.5
1956.....	79.6	90.5	134.1	93.5	88.7	73.6	99.6	79.8	81.8	79.1	75.3	64.7	63.8	81.2	58.4
1957.....	80.3	89.9	135.1	91.1	88.3	75.1	99.5	80.0	82.1	79.3	76.8	66.8	66.8	81.5	62.2
1958.....	78.0	83.7	122.5	86.6	82.0	74.9	93.3	79.0	80.8	78.4	78.1	67.4	68.8	80.6	65.1
1959.....	81.0	87.5	119.4	92.3	85.7	77.4	94.1	81.8	83.6	81.2	80.4	70.6	70.9	82.1	67.4
1960.....	82.4	87.6	116.2	89.9	86.4	79.5	94.0	83.7	85.2	83.2	82.8	73.5	73.3	83.5	70.1
1961.....	82.1	85.2	109.6	87.8	84.0	80.4	91.6	83.3	84.9	82.8	84.7	75.9	75.4	83.8	72.8
1962.....	84.4	87.7	106.0	90.5	86.7	82.6	91.7	85.0	86.7	84.4	86.8	79.5	78.0	86.1	75.5
1963.....	86.1	88.5	103.6	92.4	87.4	84.8	91.6	86.6	88.1	86.1	89.2	82.4	80.9	86.7	79.1
1964.....	88.6	90.1	103.4	95.1	88.8	87.8	92.7	89.4	90.5	89.0	91.7	86.2	84.2	86.4	83.5
1965.....	92.3	94.0	103.1	99.3	92.9	91.4	94.7	93.5	94.0	93.3	93.7	90.0	88.4	87.5	88.7
1966.....	97.1	99.3	102.3	102.1	98.8	95.9	97.4	97.3	97.5	97.3	96.1	94.6	94.7	94.3	94.8
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	103.2	101.8	98.9	103.1	101.7	103.9	101.2	103.6	102.4	104.0	104.8	105.2	103.9	100.7	105.0
1969.....	107.0	104.5	101.0	109.9	103.7	108.3	104.1	108.1	105.9	108.8	110.4	111.2	107.1	101.4	108.8
1970.....	107.7	101.0	101.6	110.2	99.5	111.3	105.7	110.5	108.3	111.3	114.3	115.1	110.2	100.4	113.3
1971.....	108.1	98.1	99.3	113.4	95.5	113.6	104.6	112.8	108.5	114.4	117.9	117.9	113.1	99.2	117.4
1972.....	111.9	101.2	102.0	119.4	98.2	117.8	106.0	117.4	111.9	119.4	122.3	122.7	117.0	98.7	122.8
1973.....	116.8	106.3	105.1	125.2	103.2	122.5	109.0	122.5	116.5	124.7	126.9	128.9	120.5	97.9	127.6
1974.....	119.1	106.1	113.2	123.3	103.1	126.1	110.2	125.1	119.8	126.9	130.5	134.8	124.4	100.2	132.0
1975.....	117.0	97.1	121.5	109.5	94.3	127.8	105.6	124.9	118.5	127.2	130.9	138.7	129.1	101.1	138.0
1976.....	120.6	100.3	127.7	112.0	97.5	131.7	105.8	130.0	120.9	133.2	133.8	145.0	131.1	100.5	140.7
Sept.....	121.4	100.8	130.2	111.1	98.2	132.6	106.3	131.1	121.5	134.5	134.5	146.1	131.2	100.3	140.8
Oct.....	121.2	100.2	130.5	111.7	97.4	132.7	105.7	131.0	121.8	134.2	135.2	146.4	131.5	100.4	141.2
Nov.....	121.6	100.9	131.3	112.8	98.0	132.9	106.1	130.9	121.7	134.1	135.8	147.3	131.9	100.6	141.7
Dec.....	122.0	101.0	131.8	112.4	98.2	133.5	106.9	131.5	122.1	134.8	136.5	147.9	132.0	100.0	142.0
1977:															
Jan.....	122.3	101.4	133.3	111.0	98.8	133.8	106.8	132.2	122.6	135.5	137.1	148.6	131.7	100.1	141.6
Feb.....	122.7	101.9	134.3	113.6	98.9	134.1	106.9	132.8	123.0	136.2	137.4	149.2	131.6	100.1	141.5
Mar.....	123.6	103.2	137.4	117.2	99.8	134.8	107.2	133.7	123.5	137.2	138.1	150.0	131.9	100.2	141.8
Apr.....	124.0	104.1	138.2	119.8	100.4	134.9	107.4	133.8	124.0	137.2	138.4	150.3	132.0	100.0	142.0
May.....	124.4	104.5	137.8	120.4	100.8	135.3	107.6	134.0	124.4	137.4	138.9	150.5	132.6	100.1	142.8
June.....	124.7	104.7	139.5	120.8	100.9	135.6	107.5	134.1	124.3	137.5	139.2	151.0	133.4	100.6	143.7
July.....	125.1	104.9	136.1	122.1	101.0	136.1	107.3	134.5	124.7	137.9	139.7	152.2	133.6	100.1	144.0
Aug.....	125.2	104.4	134.6	121.1	100.7	136.6	107.6	134.9	124.7	138.5	140.2	153.1	133.8	100.6	144.2
Sept.....	125.7	104.7	138.0	121.2	100.9	137.1	107.7	135.4	124.9	139.1	140.9	153.8	134.3	100.7	144.8

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an

increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-5. Employees on nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL	79,918	79,819	80,106	80,344	80,561	80,824	81,395	81,686	81,921	82,121	82,366	82,459	82,750
GOODS-PRODUCING	23,463	23,323	23,489	23,508	23,589	23,701	24,005	24,217	24,306	24,353	24,399	24,289	24,352
MINING	798	800	805	808	817	823	842	847	845	855	834	825	846
CONTRACT CONSTRUCTION	3,565	3,582	3,619	3,605	3,561	3,645	3,759	3,842	3,861	3,876	3,917	3,884	3,888
MANUFACTURING	19,100	18,941	19,065	19,095	19,211	19,233	19,404	19,528	19,600	19,622	19,648	19,580	19,618
DURABLE GOODS	11,146	11,018	11,128	11,158	11,236	11,230	11,370	11,423	11,469	11,491	11,530	11,524	11,566
Ordnance and accessories	156	155	156	156	156	156	156	157	157	157	156	156	155
Lumber and wood products	613	613	621	626	625	626	633	639	638	637	639	639	650
Furniture and fixtures	495	491	491	493	494	497	503	507	509	510	513	505	510
Stone, clay, and glass products	630	630	636	629	631	620	641	651	654	659	660	655	660
Primary metal industries	1,216	1,194	1,186	1,182	1,183	1,178	1,199	1,208	1,217	1,218	1,209	1,205	1,210
Fabricated metal products	1,404	1,387	1,396	1,404	1,413	1,416	1,432	1,433	1,447	1,452	1,458	1,460	1,466
Machinery, except electrical	2,115	2,078	2,106	2,107	2,125	2,134	2,142	2,150	2,165	2,168	2,202	2,212	2,220
Electrical equipment and supplies	1,848	1,849	1,860	1,863	1,874	1,888	1,906	1,919	1,931	1,933	1,941	1,952	1,951
Transportation equipment	1,737	1,695	1,749	1,766	1,790	1,766	1,808	1,808	1,802	1,809	1,810	1,803	1,810
Instruments and related products	512	511	514	517	521	524	526	526	526	528	527	523	523
Miscellaneous manufacturing	420	415	413	415	424	425	424	425	423	420	415	414	411
NONDURABLE GOODS	7,954	7,923	7,937	7,937	7,975	8,003	8,034	8,105	8,131	8,131	8,118	8,056	8,052
Food and kindred products	1,711	1,706	1,711	1,710	1,721	1,727	1,734	1,743	1,735	1,737	1,726	1,708	1,700
Tobacco manufactures	76	76	75	75	74	73	68	73	71	72	72	68	67
Textile mill products	971	961	960	957	958	964	973	981	988	987	992	981	989
Apparel and other textile products	1,281	1,273	1,276	1,271	1,278	1,280	1,283	1,291	1,298	1,306	1,293	1,281	1,276
Paper and allied products	681	677	680	680	684	688	688	697	703	703	705	704	702
Printing and publishing	1,086	1,087	1,089	1,089	1,090	1,095	1,097	1,102	1,109	1,111	1,115	1,115	1,119
Chemicals and allied products	1,035	1,032	1,038	1,041	1,044	1,050	1,051	1,060	1,063	1,060	1,064	1,062	1,058
Petroleum and coal products	202	202	203	204	205	205	207	211	210	210	210	209	209
Rubber and plastics products, nec	643	645	642	647	656	656	666	680	685	680	684	672	673
Leather and leather products	268	264	263	263	265	265	267	267	269	265	257	256	259
SERVICE-PRODUCING	56,455	56,496	56,617	56,836	56,972	57,123	57,390	57,469	57,615	57,768	57,967	58,170	58,398
TRANSPORTATION AND PUBLIC UTILITIES	4,528	4,506	4,519	4,553	4,549	4,553	4,568	4,575	4,586	4,579	4,572	4,583	4,590
WHOLESALE AND RETAIL TRADE ..	17,839	17,824	17,808	17,898	17,981	18,067	18,189	18,203	18,235	18,247	18,294	18,356	18,427
WHOLESALE TRADE	4,283	4,292	4,291	4,304	4,323	4,334	4,354	4,371	4,384	4,383	4,394	4,397	4,404
RETAIL TRADE	13,556	13,532	13,517	13,594	13,658	13,733	13,835	13,832	13,851	13,864	13,900	13,959	14,023
FINANCE, INSURANCE, AND REAL ESTATE	4,338	4,359	4,381	4,403	4,423	4,431	4,453	4,463	4,480	4,489	4,506	4,520	4,543
SERVICES	14,798	14,819	14,873	14,936	15,010	15,068	15,149	15,182	15,197	15,245	15,372	15,461	15,534
Hotels and other lodging places	1,068	1,069	1,071	1,090	1,099	1,084	1,090	1,092	1,071	1,061	1,078	1,077	-
Personal services	817	814	809	808	808	807	809	809	805	805	803	804	-
Medical and other health services	4,505	4,519	4,548	4,577	4,584	4,603	4,629	4,658	4,681	4,722	4,747	4,775	-
Educational services	1,266	1,283	1,277	1,271	1,269	1,282	1,288	1,290	1,287	1,284	1,311	1,328	-
GOVERNMENT	14,952	14,988	15,036	15,046	15,009	15,004	15,031	15,046	15,117	15,208	15,223	15,250	15,304
FEDERAL	2,728	2,730	2,734	2,720	2,721	2,721	2,725	2,719	2,723	2,735	2,721	2,735	2,737
STATE AND LOCAL	12,224	12,258	12,302	12,326	12,288	12,283	12,306	12,327	12,394	12,473	12,502	12,515	12,567

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

**B-6. Production or nonsupervisory workers¹ on private nonagricultural payrolls,
by industry division and major manufacturing group, seasonally adjusted**

[In thousands]

Industry division and group	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL	53,474	53,309	53,498	53,672	53,813	54,065	54,534	54,771	54,911	54,932	55,076	55,065	55,286
GOODS-PRODUCING	17,180	17,032	17,172	17,158	17,190	17,287	17,568	17,771	17,858	17,874	17,888	17,758	17,807
MINING	605	605	612	613	609	617	637	640	637	644	624	616	630
CONTRACT CONSTRUCTION	2,826	2,852	2,885	2,854	2,780	2,860	2,973	3,065	3,076	3,086	3,125	3,083	3,083
MANUFACTURING	13,749	13,575	13,675	13,691	13,801	13,810	13,958	14,066	14,145	14,144	14,139	14,059	14,094
DURABLE GOODS	7,975	7,833	7,929	7,955	8,026	8,011	8,128	8,177	8,233	8,240	8,261	8,246	8,284
Ordnance and accessories	70	69	69	70	70	70	69	72	73	73	72	73	71
Lumber and wood products	515	515	522	528	529	531	538	543	543	543	544	545	554
Furniture and fixtures	408	403	403	406	403	408	413	418	420	420	421	414	419
Stone, clay, and glass products	503	501	506	500	501	488	510	519	522	527	528	523	527
Primary metal industries	959	934	926	923	923	917	938	944	954	954	948	940	947
Fabricated metal products	1,062	1,044	1,051	1,059	1,069	1,071	1,083	1,085	1,099	1,103	1,105	1,103	1,111
Machinery, except electrical	1,370	1,329	1,357	1,358	1,373	1,378	1,384	1,387	1,407	1,407	1,437	1,437	1,440
Electrical equipment and supplies	1,224	1,224	1,232	1,231	1,237	1,250	1,265	1,277	1,289	1,288	1,288	1,299	1,297
Transportation equipment	1,230	1,186	1,236	1,251	1,278	1,251	1,281	1,284	1,278	1,281	1,280	1,278	1,286
Instruments and related products	312	311	312	315	318	320	321	322	323	323	323	320	320
Miscellaneous manufacturing	322	317	315	314	325	327	326	326	321	321	315	314	312
NONDURABLE GOODS	5,774	5,742	5,746	5,736	5,775	5,799	5,830	5,889	5,912	5,904	5,878	5,813	5,810
Food and kindred products	1,164	1,159	1,161	1,156	1,169	1,175	1,183	1,190	1,183	1,184	1,173	1,152	1,145
Tobacco manufactures	63	63	63	62	60	60	56	60	57	58	57	55	53
Textile mill products	848	838	835	833	835	840	848	856	863	860	865	854	863
Apparel and other textile products	1,100	1,091	1,093	1,089	1,096	1,098	1,100	1,108	1,115	1,122	1,105	1,094	1,090
Paper and allied products	515	512	515	514	517	517	517	524	529	529	529	529	528
Printing and publishing	632	632	632	631	631	635	635	639	644	642	642	639	640
Chemicals and allied products	589	588	590	590	594	601	602	608	612	609	612	609	605
Petroleum and coal products	130	131	132	132	133	132	135	138	138	138	137	138	138
Rubber and plastics products, nec	504	502	501	505	513	514	525	537	540	535	537	524	526
Leather and leather products	229	226	224	224	227	227	229	229	231	227	221	219	222
SERVICE-PRODUCING	36,294	36,277	36,326	36,514	36,623	36,778	36,966	37,000	37,053	37,058	37,188	37,307	37,479
TRANSPORTATION AND PUBLIC UTILITIES	3,877	3,856	3,861	3,900	3,882	3,878	3,890	3,897	3,907	3,899	3,885	3,896	3,899
WHOLESALE AND RETAIL TRADE	15,771	15,761	15,734	15,792	15,876	15,974	16,071	16,077	16,109	16,102	16,136	16,172	16,238
WHOLESALE TRADE	3,547	3,554	3,553	3,562	3,572	3,584	3,602	3,618	3,630	3,623	3,623	3,622	3,631
RETAIL TRADE	12,224	12,207	12,181	12,230	12,304	12,390	12,469	12,459	12,479	12,479	12,513	12,550	12,607
FINANCE, INSURANCE, AND REAL ESTATE	3,309	3,325	3,345	3,364	3,374	3,382	3,396	3,402	3,410	3,417	3,434	3,437	3,456
SERVICES	13,337	13,335	13,386	13,458	13,491	13,544	13,609	13,624	13,627	13,640	13,733	13,802	13,886

¹ For coverage of series, see footnote 1, table B-2.

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which¹ employment increased, 1974 to date

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.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
1 ALABAMA	1,211.2	1,265.9	1,267.0	8.7	15.3	15.0	71.3	75.9	75.5	340.7	352.3	355.7
2 Birmingham	317.2	329.3	330.2	4.3	8.7	8.3	21.5	22.3	23.1	64.6	66.6	67.2
3 Huntsville	105.4	106.1	107.2	(1)	(1)	(1)	3.9	4.0	4.2	29.8	30.2	31.5
4 Mobile	133.4	135.1	135.1	(1)	(1)	(1)	9.8	11.0	10.9	27.5	26.7	26.9
5 Montgomery	89.5	91.6	93.0	(1)	(1)	(1)	5.9	6.2	6.2	13.4	14.6	14.6
6 Tuscaloosa	45.5	46.7	47.4	.2	.9	.9	3.5	3.4	3.4	9.5	9.9	10.3
7 ALASKA	192.5	159.4	160.6	4.3	5.6	5.5	39.4	17.1	17.5	14.8	15.0	14.7
8 ARIZONA	748.1	770.6	776.6	24.8	19.8	22.1	42.7	49.1	50.5	106.3	110.7	112.4
9 Phoenix	443.3	465.6	466.6	.5	.5	.5	24.5	28.7	29.7	78.0	83.4	84.1
10 Tucson	144.2	146.6	146.8	7.7	7.1	6.6	9.2	9.9	10.0	12.8	13.1	13.0
11 ARKANSAS	660.6	694.5	699.3	5.0	5.3	5.2	36.5	37.9	38.4	198.6	211.8	214.7
12 Fayetteville-Springdale	52.1	54.1	54.3	(1)	(1)	(1)	2.8	2.6	2.9	16.1	17.0	17.1
13 Fort Smith	59.7	63.4	62.2	.5	.5	.5	2.7	2.7	2.6	21.3	24.1	23.1
14 Little Rock-North Little Rock	158.0	164.1	163.9	(1)	(1)	(1)	9.1	10.0	9.8	28.9	30.8	30.8
15 Pino Bluff	25.9	26.3	26.4	(1)	(1)	(1)	1.3	1.1	1.1	5.9	6.0	6.1
16 CALIFORNIA	8,164.7	8,515.5	8,590.6	35.6	36.7	36.9	330.1	379.4	390.0	1,703.3	1,700.9	1,736.9
17 Anaheim-Santa Ana-Garden Grove	597.8	644.1	640.8	1.3	2.0	2.1	31.8	33.9	40.8	162.7	167.6	167.4
18 Bakersfield	110.1	112.2	111.9	8.8	8.9	8.9	4.5	4.7	5.0	8.8	8.7	9.0
19 Fresno	158.3	165.5	166.2	.8	.8	.8	8.1	8.8	9.2	22.5	23.1	23.5
20 Los Angeles-Long Beach	3,098.1	3,229.7	3,223.0	11.5	11.5	11.6	98.0	106.0	108.6	793.5	820.4	815.5
21 Modesto	83.9	78.1	89.1	.1	.1	.1	4.6	5.1	5.3	27.4	17.8	27.7
22 Oxnard-Simi Valley-Ventura	116.8	118.4	119.4	2.1	2.2	2.2	4.7	4.8	5.0	17.8	17.7	18.3
23 Riverside-San Bernardino-Ontario	338.7	351.8	352.7	2.4	2.5	2.5	13.7	14.3	14.7	54.7	54.3	54.5
24 Sacramento	335.5	348.7	352.4	.3	.3	.3	14.6	16.3	16.8	28.4	23.5	28.2
25 Salinas-Seaside-Monterey	73.8	78.7	79.5	.6	.6	.6	2.8	3.1	3.1	8.3	9.2	9.4
26 San Diego	492.6	513.4	516.4	.8	.8	.8	27.7	30.5	30.9	72.4	74.8	75.3
27 San Francisco-Oakland	1,371.6	1,390.4	1,397.4	2.2	2.3	2.3	59.7	61.7	62.9	192.8	187.5	192.4
28 San Jose	502.2	520.6	524.3	.1	.1	.1	18.3	19.0	19.7	173.2	173.0	178.4
29 Santa Barbara-Santa Maria-Lompoc	98.6	101.8	102.4	1.0	1.0	1.0	3.6	3.5	3.5	13.4	14.1	14.1
30 Santa Rosa	69.4	72.4	72.5	.4	.4	.4	4.0	4.0	4.1	10.7	10.3	10.8
31 Stockton	110.5	105.6	113.0	.1	.1	.1	4.1	4.2	4.4	25.8	18.6	24.9
32 Vallejo-Fairfield-Napa	85.6	88.7	88.6	.2	.2	.2	3.6	3.3	3.4	9.1	8.8	9.2
33 COLORADO	979.7	993.0	(*)	20.6	23.0	(*)	59.2	61.2	(*)	141.7	144.3	(*)
34 Denver-Boulder	617.4	624.4	(*)	8.1	10.0	(*)	38.5	40.5	(*)	95.3	97.5	(*)
35 CONNECTICUT	1,235.1	1,260.6	1,250.7	(3)	(3)	(3)	45.3	42.8	42.9	389.9	398.1	391.8
36 Bridgeport	145.1	145.5	144.4	(3)	(3)	(3)	4.3	4.1	4.2	58.2	58.8	58.5
37 Hartford	337.5	344.4	340.7	(3)	(3)	(3)	11.8	9.5	9.6	81.6	83.2	81.0
38 New Britain	53.4	55.2	55.0	(3)	(3)	(3)	2.1	2.3	2.3	25.2	26.3	26.2
39 New Haven-West Haven	169.6	171.1	170.3	(3)	(3)	(3)	5.9	4.5	4.6	41.4	43.0	42.5
40 Stamford	91.1	94.2	93.6	(3)	(3)	(3)	3.3	3.5	3.5	27.9	27.5	27.1
41 Waterbury	78.5	82.7	82.3	(3)	(3)	(3)	2.6	2.3	2.3	30.1	32.8	32.7
42 DELAWARE	235.9	237.8	236.1	(1)	(1)	(1)	14.5	15.1	15.1	68.8	70.4	68.0
43 Wilmington	203.8	207.3	205.4	(1)	(1)	(1)	12.5	13.8	13.9	53.7	65.1	62.5
44 DISTRICT OF COLUMBIA	590.3	588.1	586.8	(1)	(1)	(1)	17.4	18.6	18.8	15.5	15.3	15.5
45 Washington SMSA	1,383.4	1,406.8	1,400.8	(1)	(1)	(1)	75.3	78.8	80.0	49.5	49.8	50.5
46 FLORIDA	2,708.6	2,838.9	2,831.8	8.9	9.2	9.2	171.4	184.9	187.0	338.2	353.1	356.6
47 Fort Lauderdale-Hollywood	232.3	241.1	240.9	(1)	(1)	(1)	17.6	18.8	18.8	25.4	27.6	27.7
48 Jacksonville	256.1	261.4	261.8	(1)	(1)	(1)	14.6	15.4	15.5	29.3	30.3	30.7
49 Miami	572.6	586.1	583.3	(1)	(1)	(1)	24.5	24.1	24.2	84.2	86.8	87.6
50 Orlando	208.5	212.6	212.3	(1)	(1)	(1)	11.5	11.9	12.0	24.6	25.4	25.8
51 Pensacola	86.1	90.8	91.4	(1)	(1)	(1)	5.9	7.1	6.9	13.6	14.0	13.9
52 Tampa-St. Petersburg	412.6	418.4	416.9	(1)	(1)	(1)	28.1	27.8	28.3	56.5	57.7	58.1
53 West Palm Beach-Boca Raton	138.8	145.0	145.5	(1)	(1)	(1)	9.6	10.0	10.2	17.8	19.3	19.9
54 GEORGIA	1,856.3	1,915.0	1,926.8	7.2	7.3	7.4	86.8	98.9	101.2	482.0	485.9	490.2
55 Atlanta	775.6	786.8	783.9	(1)	(1)	(1)	32.9	33.8	34.3	124.0	124.7	121.2
56 Augusta	107.8	111.8	112.5	(1)	(1)	(1)	6.7	8.5	8.6	35.2	35.9	35.9
57 Columbus	76.0	78.2	78.3	(1)	(1)	(1)	4.3	4.4	4.7	19.6	20.7	20.4
58 Macon	91.1	93.3	93.5	(1)	(1)	(1)	5.3	5.6	5.3	16.6	16.6	16.9
59 Savannah	76.5	77.4	78.2	(1)	(1)	(1)	5.0	5.3	5.4	16.1	16.0	16.3
60 HAWAII	347.1	354.4	351.9	(1)	(1)	(1)	23.2	22.6	22.3	27.0	28.1	26.9
61 Honolulu	291.0	297.6	295.1	(1)	(1)	(1)	19.5	19.3	19.0	20.2	21.4	20.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	
63.7	66.7	67.4	244.5	255.7	257.7	53.1	55.5	55.7	177.0	182.4	182.9	251.8	262.1	257.1	1
24.1	25.1	25.2	77.6	79.0	79.0	20.7	21.1	21.1	56.3	57.2	57.2	48.0	49.3	49.1	2
2.3	2.3	2.3	19.9	20.3	20.4	2.8	2.9	2.9	15.4	15.8	15.7	31.3	30.6	30.2	3
10.3	10.0	10.2	32.2	33.0	33.3	6.1	6.4	6.4	26.2	26.5	26.5	21.3	21.5	20.9	4
4.3	4.3	4.4	20.8	21.2	22.4	5.3	5.3	5.3	16.4	16.7	16.7	23.4	23.3	23.4	5
1.8	1.8	1.8	8.7	8.9	8.9	1.5	1.6	1.6	5.0	4.9	4.9	15.3	15.3	15.6	6
16.9	16.2	16.2	29.4	26.7	26.9	7.9	7.8	7.8	31.3	25.1	25.6	48.5	45.9	46.4	7
39.7	40.5	40.6	182.0	186.4	186.2	42.8	44.4	44.6	144.1	149.1	148.4	165.7	170.6	171.8	8
23.6	24.3	24.4	117.3	120.8	120.6	32.9	34.2	34.4	84.9	88.3	88.0	81.6	85.4	84.9	9
7.7	7.5	7.6	32.6	33.0	32.8	5.9	6.1	6.1	29.6	30.2	30.1	38.7	39.7	40.6	10
38.4	39.2	39.3	144.0	149.8	150.9	28.9	30.7	30.9	95.8	99.7	99.6	113.4	120.1	120.3	11
3.1	2.9	2.8	12.1	13.1	13.0	2.0	2.0	2.1	7.0	7.4	7.4	9.0	9.1	9.0	12
3.2	3.4	3.4	13.1	13.7	13.7	2.2	2.2	2.2	10.1	10.5	10.5	6.6	6.3	6.2	13
11.1	11.2	11.2	37.2	37.8	37.9	11.5	12.2	12.2	28.2	29.4	29.4	32.0	32.7	32.6	14
3.4	3.4	3.4	5.4	5.5	5.4	1.1	1.2	1.3	4.1	4.1	4.1	4.7	5.0	5.0	15
465.9	485.8	483.3	1,886.8	1,980.9	1,998.1	474.3	496.4	499.0	1,633.2	1,712.9	1,727.5	1,631.5	1,722.5	1,718.9	16
18.8	19.9	19.9	148.3	158.3	158.3	33.3	36.2	36.5	117.6	122.8	123.1	83.4	98.4	92.7	17
6.9	7.0	7.0	27.8	28.8	28.3	3.9	3.9	3.9	17.6	18.2	18.2	31.8	32.0	31.6	18
9.4	9.3	9.4	43.4	45.6	46.1	7.7	8.2	8.2	30.9	32.3	32.6	35.5	37.4	36.4	19
174.5	182.0	180.2	713.2	748.6	750.0	189.6	199.4	199.5	653.6	680.5	683.9	464.2	481.3	473.7	20
3.3	3.4	3.5	17.3	19.3	19.6	2.1	2.1	2.3	13.4	13.7	13.8	15.7	16.6	16.8	21
4.5	4.7	4.7	28.1	28.8	28.6	4.5	4.5	4.5	20.4	20.7	20.7	34.7	35.0	35.4	22
19.2	20.0	20.1	81.0	84.2	83.9	13.5	13.9	13.9	68.9	71.8	72.7	85.3	90.8	90.4	23
17.7	18.3	18.4	76.6	80.5	81.2	15.3	16.4	16.5	56.8	59.8	59.9	125.8	133.6	131.1	24
4.3	4.6	4.6	20.0	20.6	20.8	3.3	3.4	3.4	15.2	15.5	15.7	19.3	21.7	21.9	25
23.3	24.3	24.4	115.7	120.5	121.4	26.5	28.1	28.2	107.4	111.5	112.7	118.8	122.9	122.7	26
121.1	122.1	121.7	305.6	311.6	312.9	116.6	118.2	118.2	278.3	285.0	286.1	295.3	302.0	300.9	27
18.3	19.0	19.3	97.2	102.2	103.3	20.1	21.2	21.2	102.7	109.6	109.7	72.3	76.5	72.6	28
3.4	3.4	3.4	24.5	25.4	25.4	4.4	4.4	4.4	24.7	24.8	25.2	23.2	25.2	25.4	29
3.4	3.6	3.6	17.0	18.0	18.0	3.7	4.0	4.0	13.0	13.4	13.7	17.2	18.7	17.9	30
8.0	7.6	7.8	24.8	25.2	25.9	4.1	4.2	4.3	19.2	20.0	20.2	24.4	25.7	25.4	31
4.2	4.2	4.2	16.2	16.7	16.7	2.6	2.7	2.7	14.7	15.7	15.7	35.0	37.1	36.5	32
61.3	63.4	(*)	236.0	240.0	(*)	60.1	61.0	(*)	197.9	199.2	(*)	202.8	200.9	(*)	33
40.9	42.6	(*)	155.4	156.4	(*)	44.8	45.3	(*)	126.9	126.1	(*)	107.5	106.1	(*)	34
51.5	50.6	50.7	253.4	260.2	259.7	88.7	91.0	90.8	234.5	244.4	245.0	171.9	173.4	170.1	35
5.3	5.2	5.2	29.0	29.0	28.7	6.1	6.1	6.0	25.9	25.6	25.6	15.3	16.8	16.3	36
12.1	12.4	12.4	71.1	72.7	72.2	50.5	52.5	52.6	60.6	64.0	63.1	50.0	50.2	49.9	37
1.3	1.3	1.3	9.0	9.2	9.1	1.6	1.6	1.6	8.3	8.6	8.4	5.9	6.0	6.0	38
13.2	13.1	13.1	36.1	36.6	36.6	9.7	9.8	9.8	41.0	41.5	41.2	22.4	22.7	22.7	39
3.2	3.3	3.3	20.5	22.0	21.9	6.1	6.5	6.5	20.6	21.4	21.4	9.5	9.8	10.0	40
2.9	2.9	2.9	14.5	15.2	15.1	2.8	3.0	3.0	15.1	15.9	16.0	10.5	10.7	10.3	41
11.9	12.1	12.0	51.0	51.7	51.6	11.1	11.1	11.2	39.8	39.4	40.2	38.8	38.0	38.0	42
10.5	10.7	10.6	41.7	42.6	42.6	10.1	10.1	10.1	34.5	34.4	35.0	30.8	30.6	30.7	43
29.3	29.2	29.3	65.8	66.9	66.8	33.4	32.6	32.5	147.9	148.0	148.5	281.0	277.5	275.4	44
66.4	66.8	66.9	264.0	271.7	270.8	79.0	80.7	80.5	324.1	331.0	331.1	525.1	528.0	521.0	45
180.0	187.6	189.3	705.6	735.4	734.6	189.9	192.9	192.4	601.9	622.6	620.2	512.7	553.2	542.5	46
13.0	13.3	13.4	65.1	64.8	64.5	19.3	21.0	21.2	57.2	59.8	59.3	34.7	35.8	36.0	47
20.9	21.1	21.1	69.1	70.9	71.1	26.8	26.6	26.5	47.7	48.4	48.1	47.7	48.7	48.8	48
58.4	58.9	59.2	146.5	148.6	149.0	43.2	44.1	43.6	138.7	136.6	135.8	77.1	87.0	93.9	49
11.6	11.7	11.7	59.2	59.9	59.5	14.0	14.3	14.3	54.2	56.2	55.7	33.4	33.2	33.3	50
4.2	4.4	4.6	20.5	21.9	21.7	3.5	3.7	3.8	15.4	16.4	16.3	23.0	23.3	24.2	51
26.5	26.7	26.7	117.1	117.1	117.1	28.8	30.0	30.2	89.9	91.1	89.8	65.7	68.0	66.7	52
6.6	6.7	6.6	37.3	38.5	38.5	10.7	11.3	11.3	32.9	34.4	34.2	23.9	24.8	24.8	53
119.2	122.0	121.9	425.3	437.6	440.0	100.2	100.8	101.2	283.6	297.3	298.6	352.0	365.1	366.4	54
69.6	71.0	70.8	220.7	222.4	222.8	57.7	57.6	57.5	146.0	146.8	146.5	124.8	130.5	130.7	55
4.1	4.2	4.2	18.4	18.8	19.0	3.7	3.8	3.8	13.5	13.9	14.3	26.3	26.8	26.8	56
3.0	3.0	3.0	16.0	15.7	15.8	4.6	4.8	4.8	10.1	10.5	10.6	18.4	19.1	19.1	57
4.2	4.2	4.2	17.0	16.5	16.4	5.4	5.4	5.4	14.7	15.5	15.8	27.9	29.4	29.5	58
8.5	8.5	8.5	17.9	18.4	18.4	3.8	3.8	3.8	12.6	12.9	13.1	12.6	12.5	12.8	59
26.2	26.2	26.1	86.4	88.3	88.1	24.0	24.7	24.7	74.0	77.4	76.9	86.3	87.1	86.9	60
22.0	22.2	22.0	73.8	75.2	75.2	21.7	22.3	22.3	60.8	63.8	63.2	73.0	73.4	73.2	61

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
1 IDAHO	299.9	311.1	313.0	3.4	3.4	3.5	20.3	21.8	22.4	53.9	54.4	53.4
2 Boise City	68.0	70.5	70.8	(1)	(1)	(1)	5.4	6.0	6.1	7.0	7.4	7.2
3 ILLINOIS	4,509.9	4,605.8	4,617.6	16.1	28.2	27.5	196.6	192.6	195.7	1,201.4	1,222.5	1,229.0
4 Bloomington—Normal	43.2	47.0	47.3	(3)	(3)	(3)	1.4	1.5	1.6	6.7	7.5	7.6
5 Champaign—Urbana—Rantoul	61.6	63.2	63.1	(3)	(3)	(3)	3.7	3.4	3.6	6.2	6.3	6.2
6 Chicago—Gary	3,275.3	3,368.6	(*)	4.5	4.5	(*)	132.2	135.6	(*)	902.2	934.9	(*)
7 Chicago SMSA	3,031.6	3,109.4	3,117.0	4.4	4.4	4.4	118.4	125.5	127.3	802.2	828.9	833.8
8 Davenport—Rock Island—Moline	152.7	152.3	153.0	(3)	(3)	(3)	6.4	5.9	6.1	49.4	50.0	49.8
9 Decatur	51.3	52.3	53.0	(3)	(3)	(3)	3.8	3.3	3.8	17.9	18.5	18.8
10 Peoria	144.9	144.8	145.6	(3)	(3)	(3)	9.5	9.5	9.6	50.7	50.0	50.1
11 Rockford	112.1	115.5	112.2	(3)	(3)	(3)	3.7	4.1	4.2	51.5	52.6	49.4
12 Springfield	84.2	80.4	85.4	(3)	(3)	(3)	4.8	4.5	4.5	3.4	8.8	9.1
13 INDIANA	2,033.0	2,084.9	2,086.2	5.9	8.5	8.5	87.2	89.7	90.0	685.8	704.8	706.4
14 Anderson	49.9	50.3	50.7	(1)	(1)	(1)	1.2	1.2	1.3	24.9	24.9	25.1
15 Evansville	110.2	114.8	114.4	2.4	2.4	2.4	5.6	5.7	5.7	33.4	36.8	36.8
16 Fort Wayne	157.6	161.9	162.9	(1)	(1)	(1)	7.0	5.7	6.8	56.3	53.3	59.5
17 Gary—Hammond—East Chicago	243.7	249.1	249.2	(1)	(1)	(1)	13.8	14.6	14.9	100.0	101.3	100.7
18 Indianapolis	466.9	479.3	479.8	(1)	(1)	(1)	18.6	19.0	19.2	120.5	124.7	124.3
19 Lafayette—West Lafayette	47.7	51.0	50.2	(1)	(1)	(1)	1.8	2.1	2.1	10.7	11.8	11.8
20 Muncie	45.3	48.8	48.0	(1)	(1)	(1)	1.8	2.0	1.9	13.6	15.2	14.7
21 South Bend	100.9	103.5	103.7	(1)	(1)	(1)	4.3	4.5	4.5	31.1	32.5	32.9
22 Terre Haute	56.1	57.9	58.2	.4	1.2	1.2	2.2	2.4	2.4	15.7	16.1	16.4
23 IOWA	1,010.1	1,033.5	(*)	3.0	3.0	(*)	53.8	53.5	(*)	232.3	238.6	(*)
24 Cedar Rapids	75.0	75.4	75.5	(1)	(1)	(1)	3.0	3.2	3.2	28.1	27.8	28.2
25 Des Moines	154.9	160.8	162.2	(1)	(1)	(1)	7.7	7.5	7.7	20.7	23.6	23.7
26 Dubuque	39.4	40.5	40.2	(1)	(1)	(1)	1.2	1.3	1.2	16.3	16.4	16.1
27 Sioux City	50.1	49.3	49.2	(1)	(1)	(1)	3.8	4.5	4.6	12.4	10.5	10.4
28 Waterloo—Cedar Falls	57.0	58.6	58.2	(1)	(1)	(1)	2.4	2.5	2.6	20.5	21.5	21.3
29 KANSAS	821.6	854.1	855.1	10.9	11.7	11.9	44.7	48.2	47.9	160.7	168.4	169.0
30 Topeka	74.8	79.8	79.2	.2	.2	.2	3.5	3.7	3.6	7.6	11.4	11.2
31 Wichita	172.0	175.9	175.7	1.7	1.9	2.0	9.9	11.0	11.2	51.8	52.4	52.6
32 KENTUCKY	1,122.3	1,138.4	1,137.5	47.8	39.3	39.4	60.2	67.4	69.0	275.9	281.1	276.9
33 Lexington—Fayette	126.0	129.6	130.8	(1)	(1)	(1)	7.0	7.6	7.6	29.3	29.0	29.7
34 Louisville	364.8	373.2	370.0	(1)	(1)	(1)	16.4	17.5	17.8	105.9	107.7	102.8
35 LOUISIANA	1,282.1	1,301.0	1,300.4	62.9	65.3	65.4	116.2	115.5	115.2	191.8	197.6	198.1
36 Alexandria	44.4	45.1	45.2	(1)	(1)	(1)	3.0	2.3	3.0	5.8	5.9	5.9
37 Baton Rouge	165.6	173.4	172.8	1.0	1.0	1.0	22.8	23.1	22.9	24.1	24.8	24.7
38 Lafayette	52.9	53.6	53.5	8.3	8.7	8.7	3.7	3.8	3.7	3.2	2.9	3.2
39 Lake Charles	51.6	52.8	51.7	1.6	1.6	1.6	5.2	5.6	5.4	11.2	11.6	11.3
40 Monroe	43.3	43.3	43.0	.3	.4	.4	3.7	4.2	3.9	7.3	7.9	7.8
41 New Orleans	435.8	441.7	441.6	14.7	15.7	15.7	27.0	27.0	26.8	52.7	53.1	52.8
42 Shreveport	128.0	130.8	130.7	4.6	4.8	4.9	8.1	7.7	7.7	25.6	27.3	27.2
43 MAINE	388.4	394.5	404.6	(1)	(1)	(1)	25.7	25.5	25.8	105.7	103.2	111.0
44 Lewiston—Auburn	32.7	31.6	33.0	(1)	(1)	(1)	1.4	1.4	1.4	12.4	11.4	12.7
45 Portland	82.5	82.6	84.1	(1)	(1)	(1)	4.8	4.5	4.4	16.1	14.8	15.5
46 MARYLAND	1,517.6	1,546.7	1,542.0	1.8	1.8	1.8	102.1	102.9	104.9	237.7	234.8	233.4
47 Baltimore	860.0	875.5	870.3	(1)	(1)	(1)	48.6	50.6	51.1	165.0	161.8	159.7
48 MASSACHUSETTS	2,322.2	2,364.0	2,368.9	(1)	(1)	(1)	78.3	74.5	75.0	596.3	599.2	604.3
49 Boston	1,263.2	1,268.9	1,266.8	(1)	(1)	(1)	46.1	43.2	43.6	254.9	256.8	255.0
50 Brockton	49.3	51.1	51.5	-	-	-	1.7	1.6	1.7	11.5	11.6	12.0
51 Fall River	51.4	52.2	53.0	(1)	(1)	(1)	1.5	1.4	1.4	20.5	20.3	20.7
52 Lawrence—Haverhill	93.4	96.0	97.4	(1)	(1)	(1)	2.5	2.7	2.7	36.2	37.0	38.1
53 Lowell	61.4	62.8	63.0	(1)	(1)	(1)	2.6	2.6	2.7	20.5	21.6	21.9
54 New Bedford	59.6	61.1	61.6	(1)	(1)	(1)	1.5	1.6	1.6	24.1	24.0	24.7
55 Springfield—Chicopee—Holyoke	209.1	214.1	215.0	(1)	(1)	(1)	5.5	5.5	5.4	62.3	64.0	65.0
56 Worcester	144.5	146.1	145.1	(1)	(1)	(1)	4.1	3.9	3.8	44.0	44.6	44.2
57 MICHIGAN	3,275.0	3,399.6	(*)	13.6	14.2	(*)	116.4	136.7	(*)	1,060.6	1,084.9	(*)
58 Ann Arbor	115.3	121.1	(*)	(1)	(1)	(*)	2.9	3.0	(*)	36.5	40.2	(*)
59 Battle Creek	63.5	65.0	(*)	(1)	(1)	(*)	1.8	1.8	(*)	23.2	23.4	(*)
60 Bay City	34.0	35.1	(*)	(1)	(1)	(*)	1.3	1.7	(*)	10.1	10.5	(*)
61 Detroit	1,632.5	1,689.0	(*)	1.4	1.2	(*)	57.0	55.3	(*)	544.3	560.6	(*)
62 Flint	178.6	187.8	(*)	(1)	(1)	(*)	5.2	7.0	(*)	75.1	78.6	(*)
63 Grand Rapids	227.2	235.1	(*)	(1)	(1)	(*)	9.9	10.6	(*)	77.5	81.3	(*)

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	
17.4	18.1	18.3	72.6	76.1	77.4	15.7	16.3	16.4	50.7	53.4	53.8	65.9	67.6	67.8	1
4.1	4.3	4.4	18.0	18.8	19.0	5.2	5.8	5.8	11.7	12.0	12.1	16.6	16.2	16.2	2
276.3	276.5	279.8	1,032.1	1,053.7	1,052.9	259.9	268.8	269.2	824.1	849.1	850.9	703.5	714.1	712.5	3
3.1	2.9	3.1	10.5	11.1	11.2	6.6	6.9	6.9	7.0	7.1	7.1	8.0	9.6	9.8	4
2.6	2.5	2.6	14.2	14.2	14.2	2.0	2.1	2.1	9.3	9.8	9.8	23.6	25.1	24.6	5
201.2	205.0	(*)	749.2	781.0	(*)	205.2	207.9	(*)	622.3	636.1	(*)	458.6	462.7	(*)	6
187.0	189.1	188.9	705.7	734.7	733.2	197.3	199.6	197.9	591.4	603.8	603.7	425.2	423.4	427.7	7
7.7	7.6	7.7	37.4	38.3	38.6	6.4	6.4	6.4	20.0	19.9	20.1	25.4	24.3	24.3	8
4.1	3.8	4.2	9.5	10.1	10.1	2.3	2.4	2.4	9.3	9.2	9.3	4.4	4.5	4.4	9
7.6	7.0	7.3	32.0	32.6	32.7	6.7	7.0	7.0	24.0	24.9	25.1	14.3	13.9	13.8	10
4.4	4.9	4.9	22.4	23.1	23.1	3.3	3.4	3.4	16.3	16.5	16.5	10.8	10.9	10.8	11
5.1	5.3	5.3	18.0	15.4	17.6	6.6	6.7	6.7	15.3	14.1	16.0	26.2	25.5	26.3	12
101.8	104.2	104.7	438.6	450.5	450.7	92.6	93.4	93.5	288.8	292.5	291.9	332.2	341.2	340.6	13
1.4	1.3	1.3	9.2	9.2	9.2	1.5	1.6	1.6	6.1	6.1	6.1	5.5	6.0	6.1	14
5.6	6.1	6.1	26.0	26.5	26.4	3.9	4.0	4.0	20.9	21.3	21.2	12.4	12.0	11.8	15
10.2	10.3	10.3	36.4	36.9	37.3	9.0	9.4	9.4	23.4	23.9	24.1	15.3	15.4	15.5	16
14.2	14.8	14.8	43.5	45.0	45.1	7.9	8.1	8.2	30.9	31.5	31.3	33.4	33.8	34.0	17
28.5	29.2	29.3	111.5	114.4	114.5	33.1	33.8	33.7	71.6	73.9	73.8	83.1	84.3	85.0	18
1.5	1.5	1.5	9.9	10.2	10.1	2.5	2.7	2.7	7.4	7.6	7.6	13.9	15.1	14.4	19
1.9	1.5	1.9	10.6	11.4	11.4	1.4	1.5	1.5	6.9	7.0	7.0	9.1	9.8	9.6	20
4.9	5.0	5.0	23.8	24.4	24.4	5.2	4.8	4.8	20.2	20.6	20.6	11.4	11.7	11.5	21
4.0	3.8	3.9	13.6	14.1	14.2	1.9	1.9	1.5	8.2	8.3	8.4	10.1	10.1	9.8	22
55.8	55.8	(*)	255.5	259.1	(*)	48.3	49.7	(*)	183.3	187.5	(*)	178.2	186.4	(*)	23
3.7	3.7	3.7	15.4	15.5	15.4	3.6	3.7	3.7	12.8	13.1	13.1	8.4	8.4	8.2	24
10.5	10.5	10.5	40.6	41.4	41.4	17.5	18.2	18.3	30.4	32.3	33.5	27.3	27.3	27.1	25
1.6	1.6	1.6	8.0	8.4	8.4	1.1	1.1	1.1	7.9	8.5	8.6	3.2	3.2	3.2	26
3.6	3.5	3.4	11.9	11.9	11.8	2.5	2.5	2.5	9.9	10.3	10.3	6.0	6.2	6.1	27
2.2	2.1	2.1	12.4	12.4	12.4	1.6	1.7	1.7	8.8	9.3	9.2	8.9	9.1	8.9	28
56.8	58.4	58.4	203.8	210.2	211.6	40.6	42.0	42.1	143.3	150.4	150.7	160.8	164.8	163.5	29
7.0	7.0	7.0	17.1	17.5	17.5	5.7	5.7	5.7	14.1	14.5	14.6	19.9	19.8	19.4	30
8.7	9.0	8.9	38.0	38.4	38.2	8.8	9.0	9.0	32.1	32.6	32.4	21.2	21.6	21.4	31
62.2	63.6	63.5	237.2	248.7	251.1	43.9	45.9	46.0	178.3	180.5	179.5	216.8	211.9	212.1	32
5.8	6.1	6.1	29.2	31.6	32.0	5.9	6.0	6.1	22.1	22.4	22.4	26.7	26.9	26.9	33
22.6	22.8	22.8	80.1	81.9	82.2	19.7	20.8	20.9	65.5	68.1	68.7	54.6	54.5	54.8	34
101.0	102.0	101.7	299.5	297.1	297.4	61.5	61.7	61.5	222.2	219.2	219.1	227.0	242.6	241.6	35
2.3	2.4	2.4	10.6	10.6	10.6	2.6	2.5	2.5	8.2	8.8	8.7	11.9	12.1	12.1	36
8.6	8.4	8.4	34.0	33.4	33.1	9.5	9.9	9.5	24.6	25.1	25.1	41.0	47.7	47.7	37
4.1	4.2	4.2	14.0	14.0	14.1	1.8	1.9	1.5	10.0	10.1	10.0	7.8	8.0	7.7	38
3.2	3.1	3.2	11.2	11.5	11.5	2.2	2.3	2.3	8.4	8.6	8.4	9.6	8.5	8.0	39
2.4	2.3	2.3	11.5	11.3	11.3	3.1	3.2	3.2	6.7	6.7	6.6	8.3	7.3	7.5	40
45.1	45.3	45.0	110.5	112.1	112.2	26.9	27.0	27.0	94.3	94.8	95.4	64.6	66.7	66.7	41
9.6	9.5	9.5	32.3	33.3	33.5	5.8	5.9	5.9	21.9	21.9	21.8	20.1	20.4	20.2	42
18.4	18.3	18.7	82.6	86.6	87.6	14.9	15.4	15.3	72.3	74.0	74.8	68.8	71.5	71.4	43
1.2	1.1	1.1	7.3	7.5	7.6	1.4	1.4	1.4	6.4	6.4	6.4	2.6	2.4	2.4	44
5.1	5.2	5.3	22.3	23.2	23.3	6.6	6.7	6.8	16.6	16.6	16.9	11.0	11.6	11.9	45
78.2	79.4	79.3	362.1	370.8	370.9	81.6	83.3	83.3	292.4	299.5	301.4	361.7	374.2	367.0	46
54.9	55.6	55.4	193.2	198.4	198.1	49.5	50.3	50.3	160.6	163.6	164.9	188.2	195.2	190.8	47
109.7	109.5	110.0	520.8	537.2	538.1	136.3	137.6	137.3	516.4	535.3	534.6	364.4	370.7	369.6	48
66.9	66.2	66.6	288.5	293.1	293.2	93.6	95.1	95.1	317.7	323.6	322.7	195.1	190.9	190.0	49
3.6	3.9	3.9	13.9	14.2	14.1	1.8	1.9	1.9	7.8	8.6	8.6	9.0	9.3	9.3	50
1.9	1.9	1.9	10.7	11.2	11.3	2.3	2.4	2.4	8.8	9.0	9.2	5.7	6.0	6.1	51
3.3	3.3	3.4	19.0	19.5	19.2	3.5	3.5	3.6	14.0	14.2	14.1	14.9	15.8	16.3	52
2.9	2.8	2.8	13.3	13.6	13.5	1.9	1.9	1.8	9.8	10.0	10.0	10.4	10.3	10.3	53
2.5	2.7	2.6	12.0	12.1	12.1	1.7	1.8	1.8	10.0	10.8	10.7	7.8	8.1	8.1	54
8.4	8.3	8.3	44.0	44.0	44.1	10.7	11.0	11.0	36.8	39.4	39.4	41.4	41.9	41.8	55
7.0	6.5	6.5	31.2	32.1	32.0	8.0	8.2	8.1	26.3	27.6	27.4	23.9	23.2	23.1	56
145.2	147.7	(*)	682.6	697.6	(*)	139.1	141.3	(*)	545.8	576.4	(*)	571.7	600.8	(*)	57
2.2	2.2	(*)	16.3	17.1	(*)	3.4	3.7	(*)	17.5	17.9	(*)	36.5	37.0	(*)	58
2.1	2.1	(*)	10.6	10.7	(*)	3.5	3.5	(*)	10.8	11.2	(*)	11.5	12.3	(*)	59
1.9	2.1	(*)	8.4	8.5	(*)	1.0	1.1	(*)	6.1	6.1	(*)	5.2	5.1	(*)	60
81.2	81.4	(*)	328.3	331.3	(*)	80.7	82.4	(*)	294.5	310.5	(*)	245.0	255.7	(*)	61
5.9	6.1	(*)	36.5	36.6	(*)	5.3	5.6	(*)	23.0	26.3	(*)	27.6	27.6	(*)	62
9.4	9.5	(*)	53.2	54.1	(*)	8.4	8.6	(*)	40.8	42.2	(*)	27.8	28.8	(*)	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8 Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
MICHIGAN—Continued												
1 Jackson	48.6	50.7	(*)	(1)	(1)	(*)	1.8	1.8	(*)	14.2	15.8	(*)
2 Kalamazoo—Portage	98.9	102.1	(*)	(1)	(1)	(*)	4.2	4.2	(*)	33.5	35.1	(*)
3 Lansing—East Lansing	165.2	167.7	(*)	(1)	(1)	(*)	5.7	5.7	(*)	38.3	35.2	(*)
4 Muskegon—Norton Shores—Musk. Hts.	58.3	60.1	(*)	(1)	(1)	(*)	2.4	2.9	(*)	21.8	22.0	(*)
5 Saginaw	80.9	86.7	(*)	(1)	(1)	(*)	2.8	2.9	(*)	31.6	35.8	(*)
6 MINNESOTA	1,535.5	1,578.5	1,571.3	16.1	15.0	5.1	77.2	73.9	75.6	330.1	340.9	344.3
7 Duluth—Superior	57.6	56.3	57.8	(1)	(1)	(1)	2.7	1.8	1.9	7.7	7.2	7.3
8 Minneapolis—St. Paul	910.7	939.5	940.3	(1)	(1)	(1)	37.8	39.1	39.9	210.3	217.1	219.2
9 MISSISSIPPI	732.4	762.4	762.9	7.2	7.9	8.0	42.7	44.6	44.2	221.0	227.5	229.4
10 Jackson	122.1	123.0	122.9	1.0	1.0	1.1	7.1	7.0	6.8	18.7	18.4	18.4
11 MISSOURI	1,736.0	1,781.9	1,781.9	0.3	7.9	8.4	74.2	76.7	76.9	419.4	433.9	435.0
12 Kansas City	549.6	556.1	558.6	.6	.7	.7	26.1	20.6	24.0	109.4	114.5	113.6
13 St. Joseph	30.7	36.1	36.0	(3)	(3)	(3)	2.6	2.1	2.0	9.9	9.9	9.8
14 St. Louis	898.4	918.0	918.7	2.6	2.8	2.8	41.9	39.5	39.2	240.8	249.1	250.5
15 Springfield	72.1	74.0	73.8	.2	.2	.2	2.9	3.5	3.4	18.5	17.6	17.8
16 MONTANA	256.9	269.0	271.3	5.8	4.5	5.9	16.2	15.7	16.4	24.9	24.3	24.4
17 Billings	39.0	42.4	42.4	(1)	(1)	(1)	2.4	2.4	2.7	3.5	3.5	3.5
18 Great Falls	26.3	27.9	23.2	(1)	(1)	(1)	2.0	1.3	1.9	1.6	1.2	1.3
19 NEBRASKA	575.8	585.4	586.8	1.8	2.1	2.0	31.3	28.7	28.4	98.2	90.7	90.9
20 Lincoln	98.0	92.0	92.7	-	-	-	4.7	4.2	4.3	11.7	14.1	14.1
21 Omaha	235.7	244.6	244.7	(3)	(3)	(3)	11.8	11.3	11.1	33.9	35.6	35.6
22 NEVADA	287.9	308.9	310.9	3.5	3.3	3.5	15.4	17.6	18.1	13.2	13.7	13.9
23 Las Vegas	157.1	167.5	168.2	.2	.2	.2	8.0	8.8	9.2	5.2	5.5	5.5
24 Reno	81.8	88.7	89.3	.4	.4	.4	5.2	6.0	6.2	5.6	5.8	5.9
25 NEW HAMPSHIRE	327.5	341.7	346.8	.5	.5	.5	16.7	18.2	18.1	96.8	98.0	100.3
26 Manchester	61.5	64.4	65.6	(3)	(3)	(3)	3.0	3.4	3.5	18.3	18.2	18.7
27 Nashua	46.5	48.5	49.4	(3)	(3)	(3)	1.9	2.4	2.5	21.7	21.9	22.6
28 NEW JERSEY	2,789.9	2,848.3	2,857.6	2.9	3.2	3.2	100.7	101.0	106.6	756.7	755.3	762.3
29 Atlantic City	75.0	75.8	76.7	-	-	-	3.3	3.7	3.9	8.0	8.1	8.2
30 Camden	294.0	298.0	297.5	.1	.1	.1	13.2	13.2	12.5	64.3	65.6	66.8
31 Hackensack	352.1	363.4	361.4	(1)	(1)	(1)	12.8	15.3	16.0	106.2	103.4	104.5
32 Jersey City	235.4	231.7	233.4	-	-	-	4.7	4.1	4.6	74.4	71.6	72.7
33 Long Branch—Asbury Park	148.1	151.5	152.7	(1)	(1)	(1)	6.3	6.4	6.3	22.1	22.6	23.4
34 New Bruns.—Perth Amboy—Sayreville	241.8	250.2	251.2	(1)	(1)	(1)	9.2	9.2	9.7	91.3	82.0	82.4
35 Newark	861.8	882.2	881.8	.9	1.1	1.1	31.0	28.5	30.0	236.7	242.6	241.5
36 Paterson—Clifton—Passaic	178.7	180.9	181.6	(1)	(1)	(1)	5.9	5.4	6.1	64.7	63.7	64.6
37 Trenton	150.0	154.6	154.1	(1)	(1)	(1)	3.2	3.3	3.4	36.9	37.8	37.4
38 Vineland—Millville—Bridgeton	52.9	52.7	53.4	(1)	(1)	(1)	1.7	1.4	1.5	19.6	19.0	19.5
39 NEW MEXICO	394.1	417.0	420.1	21.8	23.1	23.9	26.3	30.3	30.6	30.8	31.6	31.8
40 Albuquerque	157.6	166.4	167.0	(1)	(1)	(1)	10.6	12.4	12.5	16.7	16.2	16.2
41 NEW YORK	5,815.0	6,856.3	(*)	7.4	7.4	(*)	202.1	187.3	(*)	1,449.7	1,441.5	(*)
42 Albany—Schenectady—Troy	314.2	314.6	(*)	(1)	(1)	(*)	11.7	11.0	(*)	63.1	61.4	(*)
43 Binghamton	107.3	110.0	(*)	(1)	(1)	(*)	4.5	4.9	(*)	39.4	39.3	(*)
44 Buffalo	498.2	503.7	(*)	(1)	(1)	(*)	20.3	19.3	(*)	143.2	144.6	(*)
45 Elmira	37.4	36.9	(*)	(1)	(1)	(*)	2.0	1.6	(*)	12.7	11.8	(*)
46 Monroe County	316.3	318.2	(*)	(1)	(1)	(*)	10.1	10.5	(*)	129.3	127.4	(*)
47 Nassau—Suffolk	798.9	922.6	(*)	(1)	(1)	(*)	30.4	23.6	(*)	144.7	145.3	(*)
48 New York—Northeastern New Jersey	5,276.3	6,326.8	(*)	3.4	3.4	(*)	177.2	168.3	(*)	1,331.6	1,320.8	(*)
49 New York and Nassau—Suffolk	4,406.5	4,416.8	(*)	2.1	1.9	(*)	113.5	106.6	(*)	767.9	759.1	(*)
50 New York SMSA	3,607.6	3,594.2	(*)	2.0	1.8	(*)	83.2	77.9	(*)	623.2	613.8	(*)
51 New York City	3,216.4	3,190.3	(*)	1.7	1.7	(*)	67.1	63.8	(*)	544.5	532.7	(*)
52 Poughkeepsie	86.2	87.8	(*)	(1)	(1)	(*)	3.1	3.4	(*)	28.2	28.7	(*)
53 Rochester	386.2	391.2	(*)	(1)	(1)	(*)	12.4	12.4	(*)	148.8	147.7	(*)
54 Rockland County	73.0	75.4	(*)	(1)	(1)	(*)	1.9	1.6	(*)	14.4	14.5	(*)
55 Syracuse	236.1	243.2	(*)	(1)	(1)	(*)	10.7	10.2	(*)	55.2	57.0	(*)
56 Utica—Rome	111.9	112.5	(*)	(1)	(1)	(*)	4.0	3.7	(*)	30.1	29.6	(*)
57 Westchester County	306.9	317.3	(*)	(1)	(1)	(*)	13.5	11.8	(*)	63.1	65.3	(*)
58 NORTH CAROLINA	2,041.1	2,093.4	2,106.6	4.7	5.1	5.1	106.3	105.9	105.8	769.0	792.1	799.5
59 Asheville	63.4	66.4	66.9	(1)	(1)	(1)	3.3	3.5	3.5	20.2	20.7	20.6
60 Charlotte—Gastonia	277.2	283.8	284.3	(1)	(1)	(1)	14.9	15.2	15.2	79.4	82.4	82.9
61 Greensboro—Winston-Salem—High Pt.	338.2	347.6	348.5	(1)	(1)	(1)	15.6	15.9	15.9	139.1	140.4	141.3

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	
4.3	4.4	(*)	9.7	9.9	(*)	1.5	1.5	(*)	8.5	9.0	(*)	9.5	8.3	(*)	1
3.3	3.4	(*)	18.6	20.0	(*)	3.4	3.4	(*)	17.6	17.9	(*)	13.1	18.1	(*)	2
4.2	4.3	(*)	31.4	32.5	(*)	7.9	8.4	(*)	23.3	24.2	(*)	54.4	57.4	(*)	3
2.9	3.1	(*)	11.0	11.4	(*)	1.7	1.7	(*)	8.7	8.9	(*)	9.6	10.1	(*)	4
4.0	4.0	(*)	16.4	17.1	(*)	3.6	3.8	(*)	11.4	12.1	(*)	11.1	11.0	(*)	5
90.2	92.9	93.3	388.5	401.7	402.9	79.0	80.2	80.0	294.3	306.8	305.3	250.0	267.2	264.8	6
6.7	6.6	8.1	14.8	14.8	14.8	2.1	2.1	2.1	12.0	11.7	11.6	11.6	12.0	12.0	7
57.4	58.7	58.9	231.8	237.6	238.5	58.2	58.7	58.5	181.7	191.8	190.0	133.4	136.4	135.4	8
35.0	35.6	35.5	142.6	151.7	152.2	29.1	30.1	30.3	101.2	108.1	107.9	153.5	157.0	155.4	9
7.6	7.7	7.7	28.1	28.4	28.4	9.6	9.8	9.8	23.1	23.1	23.1	25.9	27.5	27.6	10
123.5	126.2	126.3	409.0	410.4	411.7	94.7	95.9	95.7	316.5	326.5	326.5	291.2	304.4	301.4	11
49.9	50.6	51.2	142.1	144.4	144.7	36.7	37.8	37.7	106.9	108.5	103.2	77.9	79.0	78.5	12
2.4	2.3	2.3	8.8	9.0	9.0	1.6	1.6	1.6	6.4	6.2	6.2	5.0	5.0	5.1	13
63.9	66.4	66.5	203.0	209.8	209.2	49.2	49.8	49.6	174.3	174.6	175.0	122.2	126.0	125.9	14
5.2	5.4	5.4	19.5	20.4	20.5	2.8	2.9	2.9	14.0	14.2	14.6	9.0	9.3	9.0	15
19.8	20.4	20.4	66.5	69.5	69.8	10.7	11.5	11.6	49.7	52.6	52.2	63.3	70.5	70.6	16
3.2	3.3	3.3	13.6	14.6	14.8	1.9	2.0	2.0	7.7	8.0	7.9	6.9	8.6	8.2	17
1.9	1.9	1.9	8.2	8.6	8.6	1.6	1.7	1.7	5.3	6.9	6.9	5.7	5.8	5.9	18
41.8	43.0	43.0	154.2	154.4	155.0	36.0	37.9	37.9	105.8	109.0	108.6	117.6	119.6	120.9	19
6.1	6.3	6.3	19.3	20.1	20.2	6.2	6.4	6.4	15.1	15.1	15.1	25.1	25.9	26.3	20
22.1	22.4	22.6	60.5	59.9	59.6	19.6	21.1	21.3	51.4	52.0	51.6	36.3	42.4	42.9	21
18.1	18.7	18.7	58.6	63.1	63.4	11.5	12.4	12.6	122.5	131.9	132.1	45.1	48.2	48.6	22
9.9	10.3	10.2	31.8	33.7	33.8	6.1	6.6	6.7	75.5	80.4	80.5	20.4	22.0	22.1	23
5.9	6.3	6.3	18.4	20.2	20.3	4.4	4.7	4.8	29.5	32.0	32.1	12.4	13.3	13.3	24
12.3	12.3	12.4	71.2	76.5	77.3	15.3	16.2	16.4	66.2	69.1	69.7	48.5	50.8	51.1	25
3.9	4.0	4.0	14.1	15.6	15.8	4.3	4.6	4.6	11.0	11.7	11.9	5.3	6.9	7.1	26
1.6	1.7	1.7	9.1	9.6	9.6	1.0	1.7	1.7	6.4	6.9	6.9	4.2	4.3	4.4	27
174.7	175.2	174.1	629.9	651.3	650.3	141.1	146.9	147.6	505.1	523.6	520.8	478.8	491.8	492.7	28
3.5	3.5	3.5	21.5	21.4	21.5	4.6	4.8	4.8	18.9	19.3	19.5	15.2	15.0	15.3	29
15.5	14.2	14.2	77.9	79.7	79.8	14.2	14.6	14.5	53.0	55.8	55.4	55.2	54.3	54.2	30
17.9	16.6	16.5	102.4	104.9	105.3	14.1	14.5	14.3	62.4	69.2	66.8	36.3	39.5	38.0	31
29.2	29.4	29.6	41.6	41.7	41.3	8.7	9.0	8.9	29.1	28.2	28.3	47.7	47.7	48.0	32
5.5	5.2	5.3	38.1	38.3	38.4	5.7	6.4	6.5	37.8	39.3	39.2	32.6	33.3	33.6	33
15.5	16.6	16.7	52.0	53.0	52.8	8.8	8.8	8.8	32.9	35.0	34.8	41.5	45.6	46.0	34
63.9	63.2	62.4	163.0	165.0	162.7	60.0	60.2	60.5	162.8	171.8	174.3	143.5	149.8	149.3	35
7.0	6.5	6.9	38.9	39.8	39.0	8.9	9.3	9.4	28.2	27.8	27.1	25.1	28.0	28.5	36
5.1	4.8	4.8	22.7	22.9	22.6	5.9	6.3	6.3	36.1	37.7	37.5	40.1	41.8	42.1	37
3.1	2.5	2.9	8.2	8.1	8.3	2.4	2.5	2.4	7.6	7.9	7.9	10.3	10.9	10.9	38
22.9	23.8	24.1	93.6	97.6	99.1	17.5	17.7	17.9	77.2	83.9	84.0	104.0	109.0	108.7	39
8.2	8.5	9.1	41.4	43.3	43.6	8.8	8.9	9.1	36.2	38.9	38.8	35.7	37.8	37.7	40
424.1	420.4	(*)	1,392.7	1,405.1	(*)	579.6	582.5	(*)	1,479.0	1,496.4	(*)	1,280.5	1,315.7	(*)	41
14.8	14.7	(*)	61.5	61.2	(*)	14.0	14.1	(*)	51.5	62.1	(*)	87.2	90.1	(*)	42
4.2	4.3	(*)	19.2	19.5	(*)	3.5	3.6	(*)	15.6	15.8	(*)	20.9	22.6	(*)	43
27.1	27.3	(*)	108.4	112.3	(*)	20.5	21.6	(*)	89.5	88.5	(*)	99.1	90.3	(*)	44
1.3	1.4	(*)	8.3	8.3	(*)	1.0	1.0	(*)	6.3	6.4	(*)	5.8	6.4	(*)	45
10.0	9.6	(*)	58.1	60.2	(*)	14.2	14.8	(*)	59.2	59.8	(*)	35.4	36.0	(*)	46
32.2	33.8	(*)	208.6	218.3	(*)	44.7	45.2	(*)	174.2	180.8	(*)	164.1	170.7	(*)	47
450.4	444.6	(*)	1,307.0	1,329.7	(*)	581.7	583.5	(*)	1,341.4	1,369.6	(*)	1,083.6	1,106.9	(*)	48
316.9	310.8	(*)	909.1	923.3	(*)	481.2	481.6	(*)	1,026.3	1,036.2	(*)	789.6	797.4	(*)	49
284.7	277.0	(*)	700.4	705.0	(*)	436.5	436.4	(*)	852.2	855.5	(*)	625.4	626.7	(*)	50
263.7	256.4	(*)	611.4	613.0	(*)	417.4	416.9	(*)	757.1	758.5	(*)	553.6	547.2	(*)	51
2.9	2.5	(*)	14.5	14.2	(*)	2.5	2.5	(*)	15.5	15.4	(*)	19.4	20.7	(*)	52
12.6	12.2	(*)	73.9	77.0	(*)	15.7	16.3	(*)	70.0	70.3	(*)	52.9	55.4	(*)	53
3.6	3.7	(*)	15.6	15.7	(*)	2.2	2.1	(*)	16.1	16.4	(*)	19.2	21.3	(*)	54
13.8	14.0	(*)	53.8	55.2	(*)	14.7	14.8	(*)	42.8	44.6	(*)	45.1	47.2	(*)	55
3.9	3.8	(*)	20.8	21.2	(*)	5.2	5.5	(*)	18.6	19.5	(*)	24.3	29.1	(*)	56
16.8	16.3	(*)	70.7	73.6	(*)	16.5	17.0	(*)	76.4	77.9	(*)	49.8	55.3	(*)	57
96.3	98.0	98.4	397.6	407.0	408.9	82.6	83.8	83.7	289.0	297.6	297.1	295.6	303.9	308.1	58
3.3	3.5	3.5	12.7	13.0	12.9	2.6	2.8	2.9	11.5	12.1	12.0	9.8	10.7	11.5	59
25.9	26.4	26.4	67.3	67.4	67.6	17.3	18.6	18.5	41.4	43.3	43.0	31.0	30.5	30.7	60
15.6	20.0	20.0	67.3	69.4	69.8	14.7	15.7	15.6	45.5	48.2	48.0	36.3	38.0	37.9	61

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
NORTH CAROLINA—Continued												
1 Raleigh-Durham	214.9	221.5	222.6	(1)	(1)	(1)	11.2	11.7	11.7	36.1	36.8	37.3
NORTH DAKOTA	218.5	225.0	225.8	2.7	2.9	2.9	19.0	20.6	21.2	16.1	14.3	14.4
3 Fargo-Moorhead	55.3	56.4	56.4	(3)	(3)	(3)	4.3	4.5	4.6	5.3	4.8	4.7
OHIO	4,091.2	4,231.7	4,220.6	28.3	29.4	29.0	172.8	168.3	170.3	1,292.5	1,342.3	1,335.3
5 Akron	237.9	255.8	254.3	.3	.3	.3	7.9	7.4	7.5	73.0	84.0	82.3
6 Canton	149.3	151.4	150.7	.8	.8	.8	6.3	6.3	6.2	56.6	56.4	56.2
7 Cincinnati	541.9	554.4	550.2	.4	.4	.4	24.7	23.9	23.6	154.3	159.1	156.3
8 Cleveland	863.3	886.8	887.3	1.5	1.5	1.5	32.3	30.8	31.1	268.1	270.7	270.7
9 Columbus	454.4	470.5	469.6	.7	.7	.7	19.4	18.7	19.2	94.4	97.6	96.8
10 Dayton	326.5	337.1	336.0	.4	.4	.4	12.7	12.0	12.2	102.1	108.4	106.8
11 Toledo	281.2	293.0	293.2	.6	.6	.6	12.7	12.6	13.0	85.7	87.7	88.1
12 Youngtown-Warren	203.0	207.1	205.0	.3	.3	.3	7.4	6.9	7.1	79.7	81.2	79.1
OKLAHOMA	924.6	975.2	987.0	46.1	51.4	51.7	45.8	49.6	50.9	156.1	164.9	165.4
14 Oklahoma City	313.7	336.8	339.0	13.0	11.3	11.5	16.0	21.7	22.1	41.5	45.3	45.7
15 Tulsa	247.3	253.2	255.7	16.4	16.8	16.8	15.9	16.0	16.0	52.9	53.8	53.7
OREGON	885.0	904.5	913.3	1.6	1.6	1.6	40.5	39.6	39.7	209.1	205.9	211.1
17 Eugene-Springfield	38.1	94.8	95.1	(1)	(1)	(1)	4.1	5.3	5.4	21.1	21.3	21.1
18 Jackson County	-	-	-	-	-	-	-	-	-	7.6	7.7	8.1
19 Portland	460.3	477.3	479.7	(1)	(1)	(1)	21.9	20.2	19.9	97.5	100.4	101.1
20 Salem	30.7	75.1	82.0	(1)	(1)	(1)	3.9	3.9	3.9	19.9	14.2	19.3
PENNSYLVANIA	4,529.5	4,539.5	4,516.5	41.3	49.6	47.8	200.5	203.6	203.1	1,342.0	1,345.2	1,345.7
22 Allentown-Bethlehem-Easton	258.7	258.4	259.3	(1)	(1)	(1)	10.3	9.3	9.8	108.7	108.7	109.3
23 Altoona	51.6	53.6	53.7	(1)	(1)	(1)	2.3	2.2	2.4	13.3	13.7	13.6
24 Delaware Valley ¹⁰	1,509.5	1,499.5	1,489.5	(1)	(1)	(1)	55.0	55.4	54.7	379.5	380.2	380.5
25 Erie	109.2	111.4	110.2	(1)	(1)	(1)	4.0	3.3	3.9	42.1	44.0	44.5
26 Harrisburg	203.4	207.6	208.3	(1)	(1)	(1)	9.5	9.7	9.4	40.1	39.3	39.8
27 Johnstown	97.7	91.4	81.4	3.0	9.1	3.0	3.4	3.7	3.6	23.0	22.7	17.4
28 Lancaster	134.4	136.7	137.0	(1)	(1)	(1)	7.2	7.4	7.5	55.2	55.7	56.0
29 Northeast Pennsylvania	234.1	232.7	234.4	1.3	1.4	1.3	13.5	13.4	13.8	70.1	69.4	70.1
30 Philadelphia SMSA ¹¹	1,803.4	1,797.7	1,786.7	(1)	(1)	(1)	68.2	68.5	67.2	443.8	446.0	447.3
31 Philadelphia City	813.0	793.3	784.5	(1)	(1)	(1)	17.8	18.0	17.7	159.1	157.8	158.5
32 Pittsburgh	905.9	905.2	899.1	9.5	11.9	11.9	47.0	48.8	48.0	253.2	249.2	246.1
33 Reading	128.0	130.0	128.7	(1)	(1)	(1)	4.9	5.0	5.3	49.6	50.8	51.1
34 Scranton ¹²	32.8	33.0	33.7	(1)	(1)	(1)	2.9	2.9	3.0	26.2	25.6	26.3
35 Wilkes-Barre-Hazleton ¹³	123.9	122.8	123.5	1.1	1.2	1.2	9.3	9.0	9.3	39.9	39.5	39.4
36 Williamsport	44.5	44.8	44.6	(1)	(1)	(1)	1.4	1.7	1.7	17.7	17.4	17.4
37 York	138.5	139.9	140.7	(1)	(1)	(1)	6.3	6.8	6.8	58.5	58.0	58.7
RHODE ISLAND	373.5	372.1	381.9	(1)	(1)	(1)	13.8	14.0	14.0	123.9	118.7	126.6
39 Providence-Warwick-Pawtucket	384.4	383.8	394.4	(1)	(1)	(1)	14.4	14.3	14.5	138.8	132.8	141.3
SOUTH CAROLINA	1,036.5	1,075.4	1,080.7	1.8	1.8	1.8	63.2	62.7	63.0	374.0	371.8	379.6
41 Charleston-North Charleston	121.2	127.3	126.6	(1)	(1)	(1)	10.0	10.7	10.7	17.4	18.3	18.4
42 Columbia	145.2	152.3	152.1	(1)	(1)	(1)	7.0	7.2	7.3	23.0	23.4	23.3
43 Greenville-Spartanburg	229.5	229.7	232.9	(1)	(1)	(1)	13.5	13.4	13.4	101.8	98.1	101.1
SOUTH DAKOTA	224.1	230.2	227.2	2.6	2.7	2.7	13.0	14.3	13.9	22.8	22.8	23.0
45 Rapid City	26.8	26.2	26.1	(3)	(3)	(3)	2.4	2.3	2.3	2.3	2.4	2.4
46 Sioux Falls	46.9	50.5	50.1	(3)	(3)	(3)	2.8	3.7	3.4	6.7	6.9	7.0
TENNESSEE	1,590.6	1,632.7	1,641.6	9.5	9.2	9.2	81.8	86.2	87.6	491.9	504.3	510.5
48 Chattanooga	160.9	164.3	164.0	1.1	1.0	1.0	6.4	5.6	6.6	56.5	56.9	57.2
49 Knoxville	190.4	186.4	186.7	1.7	1.8	1.8	10.5	12.6	12.6	49.9	51.2	51.6
50 Memphis	325.7	332.5	335.4	.2	.2	.2	15.4	15.5	16.7	56.2	59.0	59.4
51 Nashville-Davidson	319.7	325.4	323.2	(1)	(1)	(1)	18.0	18.2	18.3	77.4	79.0	78.0
TEXAS	4,719.6	4,846.8	4,841.8	141.5	155.5	155.9	332.0	339.9	337.9	869.5	892.5	892.0
53 Amarillo	66.2	67.4	67.6	(1)	(1)	(1)	4.4	4.9	4.9	8.9	8.1	7.8
54 Austin	172.8	180.4	180.1	(1)	(1)	(1)	8.9	9.0	9.0	17.4	19.4	19.5
55 Beaumont-Port Arthur-Orange	139.0	138.1	137.6	(1)	(1)	(1)	17.0	14.8	14.8	42.1	41.2	41.3
56 Corpus Christi	103.3	103.9	103.1	3.9	3.7	3.7	11.1	11.0	11.1	12.6	11.8	11.9
57 Dallas-Fort Worth	1,119.5	1,161.1	1,158.2	12.6	13.3	13.4	51.1	51.9	51.7	247.4	256.1	252.8
58 El Paso	138.4	135.5	134.9	(1)	(1)	(1)	6.7	6.8	6.8	31.2	29.9	29.5
59 Galveston-Texas City	67.2	72.4	72.8	(1)	(1)	(1)	7.1	8.8	9.0	11.9	11.8	11.8
60 Houston	1,103.8	1,161.9	1,165.3	46.7	48.7	49.0	117.2	127.0	127.2	189.0	190.8	191.4
61 Lubbock	76.9	80.4	80.8	(1)	(1)	(1)	5.0	4.9	4.7	11.8	13.3	13.5
62 San Antonio	330.7	333.6	332.8	1.7	1.7	1.8	19.1	19.6	19.8	41.4	41.9	42.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	
9.7	10.1	10.1	42.7	43.1	43.3	13.2	13.9	14.0	43.4	47.6	47.5	58.6	58.3	58.7	1
13.4	14.0	13.9	63.4	65.5	66.3	9.3	9.9	9.9	41.7	42.7	42.8	52.9	55.1	54.4	2
3.6	3.6	3.7	17.4	18.1	18.2	3.2	3.5	3.5	11.3	11.6	11.6	10.1	10.3	10.1	3
215.6	213.5	213.9	898.1	923.8	923.5	179.6	184.0	184.4	720.9	756.6	757.2	583.5	613.9	606.9	4
14.2	13.8	13.8	55.5	57.4	57.5	8.6	9.0	9.0	44.3	46.2	46.9	34.1	37.6	36.4	5
7.0	6.8	6.8	31.6	32.8	32.7	5.4	5.4	5.5	25.3	25.6	25.6	16.3	17.2	16.9	6
31.0	30.6	30.7	124.6	129.1	128.9	29.1	29.0	28.9	103.2	107.6	107.3	74.6	74.6	74.0	7
46.8	44.5	44.6	197.3	203.5	202.7	44.8	45.8	46.0	162.9	167.5	167.5	109.5	122.5	123.3	8
22.6	22.8	22.7	109.1	112.6	112.8	31.4	32.5	32.5	86.7	89.5	89.7	90.0	96.0	95.2	9
12.3	12.3	12.4	69.6	71.3	71.8	11.3	11.7	11.5	50.6	62.1	62.1	57.4	59.0	58.7	10
19.0	19.8	19.7	65.0	67.7	67.8	9.3	9.5	9.5	52.9	55.5	55.8	36.0	39.6	38.6	11
9.0	9.3	9.3	43.8	45.3	45.3	6.6	6.6	6.6	33.8	34.7	34.6	21.8	22.8	22.7	12
58.0	59.9	60.1	224.9	235.6	237.5	46.9	50.2	50.2	154.9	162.8	163.7	191.9	200.8	207.5	13
19.5	20.2	20.2	79.6	82.1	82.7	20.7	22.1	22.3	52.7	56.4	56.8	73.7	77.7	77.7	14
19.0	19.6	19.6	60.0	59.3	55.8	13.1	13.5	13.6	46.2	48.2	48.6	23.8	26.0	27.6	15
51.6	53.9	53.9	213.6	219.2	221.5	52.8	56.4	56.8	150.3	157.8	158.0	165.5	170.1	170.7	16
4.6	5.0	5.0	21.9	23.5	23.8	4.2	4.7	4.7	14.4	16.3	16.5	17.9	18.7	18.6	17
31.1	33.2	33.2	118.2	120.9	122.8	33.9	36.9	37.1	89.8	95.0	95.3	67.9	70.7	70.3	18
2.5	2.4	2.4	15.1	16.0	16.1	4.1	4.5	4.6	11.0	11.2	12.3	24.2	22.9	23.4	19
256.0	254.5	255.5	918.4	915.4	912.3	212.5	218.6	219.1	836.4	853.3	850.1	722.4	699.3	682.9	21
13.2	13.0	13.0	44.5	45.7	45.7	7.8	8.0	7.9	37.8	38.6	38.3	36.4	35.1	35.3	22
7.8	8.1	8.0	11.3	12.1	12.2	1.4	1.4	1.4	8.1	8.4	8.5	7.4	7.6	7.6	23
81.3	81.6	81.7	309.0	305.1	305.0	97.1	98.1	97.5	334.5	343.5	341.5	253.1	235.6	228.2	24
5.2	5.2	5.2	21.1	20.8	21.0	4.4	4.5	4.6	18.9	18.7	18.8	13.5	14.4	12.2	25
14.4	14.6	14.9	40.9	41.3	41.8	10.9	11.4	11.5	35.1	36.6	36.4	52.5	54.7	54.5	26
5.4	5.4	5.4	16.4	17.4	15.7	3.4	3.9	3.9	14.4	15.0	13.7	13.7	14.2	13.7	27
5.9	6.2	6.3	29.1	29.7	29.5	4.2	4.2	4.3	20.8	21.2	21.2	12.0	12.3	12.2	28
11.8	11.7	11.9	48.2	47.3	48.0	8.9	9.3	9.2	41.7	40.6	40.6	33.6	39.6	39.5	29
96.9	95.6	96.0	386.8	384.7	384.7	111.3	112.8	112.4	338.1	399.3	396.8	308.3	290.5	282.3	30
55.9	55.6	55.7	152.2	148.4	147.7	65.3	64.4	64.6	191.5	196.7	195.3	171.4	152.4	145.0	31
57.3	57.6	57.5	197.1	201.0	201.4	41.5	42.4	42.4	178.4	179.3	179.9	121.9	115.0	111.9	32
6.3	6.3	6.2	24.0	24.2	23.8	5.2	5.4	5.3	21.4	21.6	20.7	16.6	16.7	16.3	33
4.5	4.3	4.3	18.1	17.8	18.0	3.1	3.2	3.2	15.7	16.1	15.9	12.3	13.1	13.0	34
5.9	6.1	6.2	25.2	25.0	25.5	4.9	5.2	5.1	17.3	16.5	16.5	20.3	20.3	20.3	35
2.0	2.0	2.0	8.6	8.6	8.6	1.8	1.8	1.9	7.5	7.8	7.6	5.5	5.5	5.4	36
6.2	6.1	6.1	28.8	29.3	29.6	3.3	3.6	3.5	19.5	20.3	20.2	15.9	15.8	15.8	37
13.8	13.2	13.5	75.3	74.1	75.6	18.3	18.4	18.5	70.7	71.7	71.7	57.7	62.0	62.0	38
13.6	13.0	13.3	77.1	76.4	77.8	18.3	18.3	18.4	67.9	70.3	70.3	54.3	58.7	58.8	39
43.9	46.8	47.4	192.6	206.9	207.7	40.1	41.5	41.5	137.1	146.2	145.7	183.8	197.7	194.0	40
7.3	7.6	7.8	26.4	26.8	26.8	5.0	5.0	5.0	18.4	20.0	20.0	36.7	38.9	37.9	41
8.3	8.6	8.6	30.9	33.1	34.3	11.4	12.3	12.5	22.1	22.8	22.9	42.5	44.9	43.2	42
9.3	9.4	9.4	41.6	41.9	42.1	8.1	8.2	8.2	31.2	32.2	32.3	24.0	26.5	26.4	43
12.0	12.2	12.1	63.8	63.2	62.8	9.7	10.5	10.5	47.6	48.8	49.3	52.6	55.7	52.9	44
1.7	1.5	1.5	8.3	8.5	8.5	1.2	1.3	1.3	6.1	5.4	5.5	4.8	4.8	4.6	45
4.1	4.3	4.3	15.0	16.2	16.2	2.5	2.7	2.7	10.2	10.7	10.8	5.6	6.0	5.7	46
74.5	75.6	75.8	344.1	355.0	356.2	71.2	74.0	73.7	243.1	249.1	249.7	274.5	278.8	278.9	47
6.3	6.3	6.3	30.1	30.8	30.9	8.5	8.2	8.1	24.9	25.5	25.3	27.1	29.0	28.6	48
7.3	7.5	7.5	38.2	38.8	38.8	6.9	7.1	7.1	26.5	27.6	27.6	39.4	39.8	39.7	49
21.8	22.3	22.3	88.2	88.3	88.5	18.4	18.6	18.9	63.9	65.8	65.9	61.6	61.8	63.5	50
16.6	17.3	17.5	71.8	75.3	74.4	19.9	19.9	19.8	61.7	61.5	61.3	54.3	54.2	53.9	51
293.8	304.8	305.2	1,176.3	1,191.0	1,191.6	261.0	270.8	271.3	823.4	863.7	869.9	822.1	829.6	818.0	52
6.4	6.7	6.8	20.1	20.8	20.8	3.2	3.3	3.3	12.7	12.8	12.8	10.5	10.8	11.3	53
5.6	5.7	5.7	35.5	36.7	37.1	9.9	9.9	10.0	28.5	30.5	30.4	67.0	69.2	68.4	54
9.6	10.5	10.0	27.6	28.1	27.9	4.9	5.0	5.0	20.2	20.4	20.4	17.6	18.1	18.2	55
5.8	5.8	6.0	26.3	26.7	26.8	4.9	5.2	5.2	16.8	17.4	17.2	21.9	22.3	21.2	56
75.7	78.4	78.1	306.0	321.4	322.6	82.8	88.2	88.5	199.4	207.1	207.9	144.5	144.7	143.2	57
9.8	9.6	9.6	35.0	34.4	34.5	6.3	6.5	6.5	22.4	21.8	21.5	27.0	26.5	26.5	58
5.4	5.9	6.0	12.1	12.8	12.8	4.4	4.7	4.7	10.7	11.3	11.3	15.6	17.1	17.2	59
77.3	83.3	83.6	271.0	290.0	291.4	63.2	65.5	65.6	216.6	227.5	228.2	122.8	129.1	128.9	60
4.4	4.5	4.5	23.8	24.7	24.9	3.7	3.9	3.8	13.9	14.2	14.5	14.3	14.9	14.9	61
14.5	14.9	14.7	82.6	83.7	82.4	21.5	23.1	23.1	62.2	62.3	62.3	87.7	86.4	86.3	62

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
TEXAS—Continued												
1 Waco	60.4	62.7	62.6	(1)	(1)	(1)	3.0	3.3	3.4	14.5	14.7	14.8
2 Wichita Falls	45.1	46.7	46.8	2.2	2.3	2.3	2.9	2.9	2.8	7.5	8.1	8.3
UTAH												
3 Salt Lake City—Ogden	468.2	477.5	485.2	14.3	10.6	14.9	31.4	31.4	32.4	72.8	74.3	76.2
4	335.6	340.9	347.0	6.7	2.9	7.0	21.4	21.0	21.3	48.6	48.4	50.6
VERMONT												
5 Burlington	172.5	177.7	180.1	.7	.7	.7	9.5	10.3	10.3	41.6	42.2	43.7
6	44.0	45.9	46.3	-	-	-	-	-	-	10.0	10.9	11.0
7 Springfield	12.4	13.3	13.4	-	-	-	-	-	-	4.9	5.3	5.4
VIRGINIA												
8	1,861.3	1,924.0	1,928.4	22.3	22.6	22.6	119.2	124.9	126.1	389.7	397.5	401.5
9 Bristol	24.4	24.6	24.3	(1)	(1)	(1)	1.1	1.1	1.1	8.5	8.7	8.7
10 Lynchburg	61.0	61.3	61.9	(1)	(1)	(1)	3.0	3.0	2.9	27.0	27.1	27.9
11 Newport News—Hampton	136.5	139.3	139.4	(1)	(1)	(1)	7.1	7.7	7.8	32.5	34.6	34.9
12 Norfolk—Virginia Beach—Portsmouth	254.5	262.9	263.8	(1)	(1)	(1)	16.1	17.9	18.1	26.3	28.2	28.2
13 Northern Virginia	365.8	377.8	375.9	.3	.4	.4	25.4	26.7	27.3	13.8	14.1	14.2
14 Petersburg—Colonial Hts.—Hopewell	43.2	44.5	44.1	(1)	(1)	(1)	2.4	2.5	2.3	12.4	12.2	12.2
15 Richmond	288.5	295.4	297.4	.4	.3	.3	16.4	18.6	18.9	52.0	51.0	51.2
16 Roanoke	98.1	98.7	98.6	.2	.2	.2	5.8	5.7	5.7	21.4	20.9	21.0
WASHINGTON												
17	1,275.4	1,329.0	(*)	2.2	2.2	(*)	73.2	80.5	(*)	250.4	261.7	(*)
18 Seattle—Everett	590.3	626.9	(*)	(1)	(1)	(*)	27.9	34.1	(*)	121.7	129.2	(*)
19 Spokane	107.8	109.8	(*)	(1)	(1)	(*)	6.3	5.2	(*)	15.3	15.9	(*)
20 Tacoma	119.1	125.4	(*)	(1)	(1)	(*)	6.3	6.6	(*)	20.8	20.9	(*)
WEST VIRGINIA												
21	582.7	618.8	589.1	57.9	72.7	52.4	37.4	39.5	39.2	126.6	125.7	126.4
22 Charleston	102.0	104.3	101.9	4.2	6.2	5.2	6.8	6.2	6.0	19.3	19.3	19.3
23 Huntington—Ashland	96.1	96.4	95.9	.8	.8	.8	6.1	5.6	5.6	28.1	27.8	27.6
24 Parkersburg—Marietta	52.1	52.1	52.4	.4	.4	.4	2.6	2.3	2.3	16.9	16.4	17.1
25 Wheeling	64.1	64.5	64.4	7.9	8.4	8.4	3.1	2.4	2.4	13.9	14.1	14.3
WISCONSIN												
26	1,746.8	1,786.3	1,810.3	2.8	2.6	2.6	73.3	82.2	83.1	529.4	531.7	538.5
27 Appleton—Oshkosh	109.1	109.7	110.9	(1)	(1)	(1)	5.5	5.8	5.5	41.9	41.8	42.7
28 Green Bay	68.8	70.3	71.6	(1)	(1)	(1)	3.5	4.1	4.1	21.3	21.5	22.1
29 Kenosha	41.2	41.1	39.3	(1)	(1)	(1)	1.0	1.1	1.0	18.1	17.3	15.3
30 La Crosse	35.3	37.1	37.5	(1)	(1)	(1)	1.2	1.6	1.5	9.3	9.2	9.3
31 Madison	142.6	140.1	146.9	(1)	(1)	(1)	6.4	6.7	7.1	18.0	18.0	18.4
32 Milwaukee	604.5	610.9	612.9	(1)	(1)	(1)	21.1	23.3	23.3	198.9	198.2	198.5
33 Racine	63.1	65.4	66.8	(1)	(1)	(1)	1.7	1.8	2.0	26.7	27.0	27.7
WYOMING												
34	163.8	176.0	176.9	21.5	24.7	25.2	17.0	18.9	19.2	8.6	8.7	8.8
35 Casper	28.3	30.0	30.3	5.1	5.6	5.6	2.6	2.7	2.6	1.7	1.8	1.8
36 Cheyenne	24.0	24.6	24.7	(1)	(1)	(1)	1.5	1.8	1.9	1.4	1.4	1.4

¹ Combined with services.

² Based on the 1967 Standard Industrial Classification Manual.

³ Combined with construction.

⁴ Area included in Chicago-Gary Standard Consolidated Statistical Area.

⁵ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Burlington, Camden, and Gloucester Counties, New Jersey.

⁶ Subarea of New York-Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

⁸ Area included in New York and Nassau-Suffolk combined SMSA's.

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Philadelphia County.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁴ Total includes data for industry divisions not shown separately. Services excludes agriculture, forestry, and fisheries.

¹⁵ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	
3.0	3.0	3.0	13.8	14.4	14.5	3.6	3.6	3.6	12.0	12.5	12.5	10.5	11.2	10.8	1
2.2	2.3	2.3	11.5	11.7	11.7	2.0	2.1	2.1	6.8	6.9	6.9	10.0	10.4	10.4	2
28.7	29.7	29.7	114.6	113.6	115.2	21.0	22.3	22.3	77.9	80.5	80.8	107.4	110.1	109.5	3
22.8	23.5	23.5	84.7	89.1	89.1	17.4	17.9	17.9	54.3	57.2	57.1	79.7	81.0	80.5	4
8.5	8.5	8.6	35.8	36.8	37.5	6.9	7.1	7.1	40.5	42.1	42.4	29.1	30.1	30.1	5
2.1	2.1	2.1	9.6	10.2	10.2	-	-	-	9.4	9.6	9.7	-	-	-	6
.8	.8	.8	2.1	2.0	2.0	-	-	-	2.4	2.6	2.6	-	-	-	7
108.5	110.4	110.6	388.4	397.8	398.8	87.8	91.9	92.2	320.7	336.0	335.0	424.7	442.9	440.5	8
.9	.9	.9	6.1	6.1	6.2	.9	.9	.9	3.3	3.2	3.3	3.6	3.7	3.2	9
2.6	2.6	2.6	10.1	9.6	9.7	2.7	2.7	2.7	7.9	8.3	8.2	7.7	8.0	7.9	10
4.5	4.5	4.5	24.8	24.9	24.8	4.4	4.4	4.5	26.8	26.2	26.1	36.4	37.0	36.8	11
18.0	18.2	18.1	61.0	63.6	63.8	13.4	13.0	13.0	45.7	45.7	45.7	74.0	76.3	76.9	12
26.5	26.7	26.5	87.1	88.7	88.8	21.9	23.8	23.7	84.8	88.0	88.0	106.0	109.4	107.0	13
1.4	1.3	1.3	7.9	8.0	8.0	1.1	1.2	1.2	5.4	5.4	5.5	12.6	13.9	13.6	14
18.2	18.1	18.2	66.4	68.1	68.5	22.4	23.1	23.3	51.4	52.7	52.7	61.3	63.5	64.3	15
10.0	10.0	10.0	23.7	23.6	23.6	5.4	5.4	5.5	18.0	18.0	18.0	13.6	14.9	14.6	16
76.8	79.9	(*)	312.3	321.4	(*)	69.0	73.9	(*)	233.9	247.7	(*)	257.6	261.7	(*)	17
43.6	46.0	(*)	146.6	155.0	(*)	41.2	44.0	(*)	108.8	118.0	(*)	101.0	100.6	(*)	18
7.6	7.8	(*)	30.5	32.2	(*)	7.0	7.6	(*)	23.8	23.5	(*)	16.9	17.6	(*)	19
6.0	6.1	(*)	29.0	29.0	(*)	5.7	5.9	(*)	24.1	25.9	(*)	27.2	31.0	(*)	20
37.7	41.2	40.0	117.5	121.2	121.4	18.7	18.8	18.8	85.7	87.3	87.3	101.3	112.5	103.8	21
8.8	8.5	8.3	23.3	23.3	23.4	4.5	4.5	4.5	17.0	17.0	17.0	18.0	19.4	18.1	22
6.3	9.4	9.1	19.8	19.9	20.0	3.3	3.4	3.4	13.6	13.3	13.3	16.2	16.2	16.3	23
2.3	2.4	2.3	11.4	11.5	11.5	1.7	1.8	1.8	7.6	7.5	7.5	9.2	9.7	9.4	24
3.7	3.7	3.7	13.5	13.5	13.5	2.4	2.5	2.5	12.1	12.1	12.2	7.4	7.8	7.4	25
80.6	82.2	82.3	398.3	412.4	417.3	78.5	81.2	81.2	314.8	331.3	334.4	269.0	262.6	271.0	26
3.8	3.7	3.7	22.2	21.9	22.1	4.2	4.4	4.3	17.4	18.1	18.1	14.2	14.1	14.4	27
4.7	4.4	4.5	16.1	16.5	16.7	2.1	2.3	2.3	12.0	12.6	12.7	9.1	8.8	9.3	28
1.4	1.4	1.4	7.9	8.1	8.1	.8	.8	.8	6.6	6.9	7.0	5.4	5.5	5.6	29
2.2	2.1	2.1	9.5	9.6	9.8	.9	1.0	1.0	7.7	8.2	8.2	4.6	5.5	5.5	30
5.3	5.1	5.2	30.4	32.3	32.7	9.6	10.1	10.3	25.8	25.9	26.1	47.0	42.0	47.1	31
29.8	30.6	30.5	134.3	133.8	134.9	33.3	33.7	33.6	117.0	122.7	123.0	70.0	68.6	69.0	32
1.9	2.4	2.1	12.5	12.7	12.7	1.7	1.8	1.8	10.5	11.0	11.2	8.1	8.6	9.2	33
13.2	13.7	13.7	37.8	40.2	40.5	5.3	5.8	5.5	27.0	28.0	27.8	33.4	36.0	35.3	34
2.1	2.2	2.3	7.2	7.7	7.8	1.2	1.3	1.4	4.1	4.3	4.3	4.3	4.4	4.5	35
3.4	3.5	3.5	5.6	6.1	6.1	1.3	1.3	1.4	4.3	4.1	4.1	6.5	6.4	6.3	36

ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS

C-1. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division, 1955 to date

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
	Total private ²			Mining			Contract construction			Manufacturing			
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
1955.....	\$67.72	39.6	\$1.71	\$89.54	40.7	\$2.20	\$90.90	37.1	\$2.45	\$75.70	40.7	\$1.86	\$1.79
1956.....	70.74	39.3	1.80	95.06	40.8	2.33	96.38	37.5	2.57	78.78	40.4	1.95	1.89
1957.....	73.33	38.8	1.89	98.65	40.1	2.46	100.27	37.0	2.71	81.59	39.8	2.05	1.99
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.71	39.2	2.11	2.05
1959 ^p	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19	2.12
1960.....	80.67	38.6	2.09	105.44	40.4	2.61	113.04	36.7	3.08	89.72	39.7	2.26	2.20
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.43	40.9	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.63	40.5	2.46	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.44
1965.....	95.06	38.8	2.45	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61	2.51
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.34	41.3	2.72	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.90	40.6	2.83	2.72
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	155.23	43.0	3.61	181.54	37.9	4.79	129.51	40.6	3.19	3.06
1970.....	119.46	37.1	3.22	164.40	42.7	3.85	195.45	37.3	5.24	133.73	39.8	3.36	3.24
1971.....	127.28	37.0	3.44	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.44
1972.....	136.16	37.1	3.67	187.43	42.5	4.41	222.51	36.9	6.03	154.69	40.6	3.81	3.66
1973.....	145.43	37.1	3.92	201.03	42.5	4.73	235.69	37.0	6.37	166.06	40.7	4.08	3.89
1974.....	154.45	36.6	4.22	220.90	42.4	5.21	249.08	36.9	6.75	176.40	40.0	4.41	4.24
1975.....	162.89	36.1	4.54	249.57	42.3	5.90	265.35	36.6	7.25	189.51	39.4	4.81	4.66
1976.....	176.29	36.2	4.87	274.78	42.8	6.42	284.93	37.1	7.68	207.60	40.0	5.19	5.00
Sept.....	179.55	36.2	4.96	289.08	43.8	6.60	287.41	36.8	7.81	212.93	40.1	5.31	5.09
Oct.....	180.28	36.2	4.98	287.33	43.8	6.56	299.87	38.2	7.85	211.20	40.0	5.28	5.08
Nov.....	180.50	36.1	5.00	288.63	43.6	6.62	289.25	36.8	7.86	215.20	40.3	5.34	5.14
Dec.....	182.73	36.4	5.02	293.23	43.7	6.71	289.98	36.8	7.88	220.05	40.6	5.42	5.21
1977:													
Jan.....	179.48	35.4	5.07	286.62	42.4	6.76	269.84	33.9	7.96	212.94	39.0	5.46	5.25
Feb.....	182.73	35.9	5.09	292.71	43.3	6.76	288.41	36.6	7.88	216.66	39.9	5.43	5.24
Mar.....	183.96	36.0	5.11	296.29	43.7	6.78	289.62	36.8	7.87	220.30	40.2	5.48	5.27
Apr.....	185.40	36.0	5.15	298.52	43.9	6.80	291.56	37.0	7.88	220.80	40.0	5.52	5.31
May.....	187.36	36.1	5.19	300.32	44.1	6.81	296.63	37.5	7.91	224.07	40.3	5.56	5.34
June.....	190.01	36.4	5.22	306.85	44.6	6.88	298.08	37.4	7.97	228.48	40.8	5.60	5.27
July ^p	191.63	36.5	5.25	309.81	44.9	6.90	302.40	37.8	8.00	226.57	40.1	5.65	5.43
Aug. ^p	191.46	36.4	5.26	304.34	44.3	6.87	301.07	37.4	8.05	227.13	40.2	5.65	5.41
Sept. ^p	192.77	36.1	5.34	323.84	46.0	7.04	303.03	37.0	8.19	231.49	40.4	5.73	5.48
Year and month	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
1955.....	-	-	-	\$55.16	39.4	\$1.40	\$63.92	37.6	\$1.70	-	-	-	-
1956.....	-	-	-	57.48	39.1	1.47	65.68	36.9	1.78	-	-	-	-
1957.....	-	-	-	59.60	38.7	1.54	67.53	36.7	1.84	-	-	-	-
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-	-
1959 ^p	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-	-
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$118.37	41.1	\$2.88	74.28	37.9	1.96	85.79	37.3	2.30	\$69.84	36.0	\$1.94	-
1965.....	125.14	41.3	3.03	76.53	37.7	2.03	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.02	37.1	2.13	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	131.22	40.5	3.24	81.76	36.5	2.24	95.46	37.0	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	86.40	36.0	2.40	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	148.15	40.7	3.64	90.78	35.6	2.55	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	95.66	35.3	2.71	113.34	36.8	3.08	96.66	34.4	2.81	-
1971.....	169.24	40.2	4.21	100.39	35.1	2.86	120.66	36.9	3.27	103.28	34.2	3.02	-
1972.....	187.92	40.5	4.64	105.65	35.1	3.01	126.88	37.1	3.42	110.14	34.1	3.23	-
1973.....	204.62	40.6	5.04	111.04	34.7	3.20	132.10	36.9	3.58	117.64	34.0	3.46	-
1974.....	218.29	40.2	5.43	118.33	34.1	3.47	140.19	36.7	3.82	127.46	33.9	3.76	-
1975.....	234.43	39.6	5.92	126.75	33.8	3.75	150.75	36.5	4.13	137.23	33.8	4.06	-
1976.....	257.75	39.9	6.46	133.39	33.6	3.97	159.58	36.6	4.36	146.06	33.5	4.36	-
Sept.....	265.06	40.1	6.61	134.74	33.6	4.04	160.67	36.6	4.39	148.07	33.5	4.42	-
Oct.....	265.20	40.0	6.63	135.20	33.3	4.06	161.85	36.7	4.41	148.74	33.5	4.44	-
Nov.....	267.33	40.2	6.65	135.46	33.2	4.08	161.04	36.6	4.40	149.97	33.4	4.49	-
Dec.....	269.33	40.5	6.65	137.97	33.9	4.07	162.58	36.7	4.43	150.97	33.4	4.52	-
1977:													
Jan.....	264.65	39.5	6.70	136.78	32.8	4.17	166.34	36.8	4.52	153.18	33.3	4.60	-
Feb.....	270.95	40.2	6.74	138.60	33.0	4.20	165.88	36.7	4.52	153.97	33.4	4.61	-
Mar.....	267.73	39.9	6.71	139.02	33.1	4.20	165.07	36.6	4.51	153.85	33.3	4.62	-
Apr.....	271.32	39.9	6.80	140.01	33.1	4.23	166.16	36.6	4.54	154.51	33.3	4.64	-
May.....	273.20	40.0	6.83	141.10	33.2	4.25	167.63	36.6	4.58	155.51	33.3	4.67	-
June.....	275.25	40.3	6.83	143.14	33.6	4.26	166.16	36.6	4.54	156.11	33.5	4.66	-
July.....	280.89	40.3	6.97	145.95	34.1	4.28	168.45	36.7	4.59	158.18	33.8	4.68	-
July ^p	281.00	40.2	6.99	145.18	34.0	4.27	168.82	36.7	4.60	157.72	33.7	4.68	-
Aug. ^p	281.00	40.2	6.99	145.18	34.0	4.27	168.82	36.7	4.60	157.72	33.7	4.68	-
Sept. ^p	282.80	40.0	7.07	143.76	33.2	4.33	169.09	36.6	4.62	158.84	33.3	4.77	-

¹For coverage of series, see footnote 1, table B-2.

³Prior to January 1956, data were based on the application of adjustment factors to gross average

p = preliminary.

²Data include Alaska and Hawaii beginning 1959.

hourly earnings. (See Explanatory Note.)

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
-	TOTAL PRIVATE	\$178.97	\$179.55	\$191.63	\$191.46	\$192.77	\$4.89	\$4.96	\$5.25	\$5.26	\$5.34
-	MINING	259.15	289.08	309.81	304.34	323.84	6.29	6.60	6.90	6.87	7.04
10	METAL MINING	283.46	293.16	301.49	297.19	-	6.88	6.98	7.30	7.32	-
101	Iron ores	308.29	323.54	317.41	324.75	-	7.22	7.32	7.63	7.50	-
102	Copper ores	281.32	291.45	288.75	283.88	-	7.14	7.25	7.50	7.51	-
11,12	COAL MINING	248.54	337.33	373.59	352.77	-	7.89	8.07	8.51	8.48	-
12	Bituminous coal and lignite mining	248.52	338.58	375.76	354.02	-	7.94	8.10	8.54	8.51	-
13	OIL AND GAS EXTRACTION	263.32	266.50	286.28	287.52	-	5.80	5.87	6.21	6.21	-
131,2	Crude petroleum and natural gas fields	276.78	282.32	301.60	296.52	-	6.59	6.69	7.13	7.06	-
138	Oil and gas field services	256.70	259.44	279.15	283.42	-	5.45	5.52	5.84	5.88	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	245.06	246.53	268.45	266.99	-	5.47	5.54	5.90	5.92	-
142	Crushed and broken stone	239.40	242.19	266.23	263.58	-	5.32	5.37	5.75	5.73	-
-	CONTRACT CONSTRUCTION	292.21	287.41	302.40	301.07	303.03	7.71	7.81	8.00	8.05	8.19
15	GENERAL BUILDING CONTRACTORS	276.75	275.08	289.34	290.35	-	7.50	7.62	7.82	7.89	-
16	HEAVY CONSTRUCTION CONTRACTORS	298.70	291.73	305.34	298.49	-	7.25	7.33	7.34	7.37	-
161	Highway and street construction	293.41	289.98	308.88	301.49	-	6.92	7.09	7.20	7.23	-
162	Heavy construction, nec	303.11	292.55	320.94	295.50	-	7.54	7.54	7.48	7.50	-
17	SPECIAL TRADE CONTRACTORS	297.78	293.30	309.27	308.55	-	8.07	8.17	8.45	8.50	-
171	Plumbing, heating, air conditioning	313.68	308.10	332.26	331.19	-	8.19	8.26	8.63	8.67	-
172	Painting, paper hanging, decorating	263.77	271.46	278.60	278.53	-	7.43	7.69	7.96	8.05	-
173	Electrical work	342.52	331.52	357.40	354.75	-	8.99	8.96	9.48	9.46	-
174	Masonry, stonework, and plastering	272.00	264.06	281.71	280.40	-	7.93	8.10	8.31	8.37	-
176	Roofing and sheetmetal work	254.56	250.00	250.47	248.06	-	7.40	7.53	7.59	7.68	-
-	MANUFACTURING	208.40	212.93	226.57	227.13	231.49	5.21	5.31	5.65	5.65	5.73
19,24,25,32-39	DURABLE GOODS	225.99	229.80	244.82	245.62	250.51	5.58	5.66	6.03	6.02	6.11
20-23,26-31	NONDURABLE GOODS	184.24	189.12	200.43	201.73	204.61	4.70	4.80	5.10	5.12	5.18
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	232.53	235.17	249.60	254.47	255.04	5.77	5.85	6.24	6.33	6.36
192	Ammunition, except for small arms	231.85	236.41	250.26	256.37	260.04	5.84	5.97	6.45	6.54	6.60
1925	Complete guided missiles	254.32	262.00	278.64	287.89	-	6.39	6.55	7.09	7.27	-
1929	Ammunition, exc. for small arms, nec	192.94	190.51	204.60	203.67	-	4.86	4.91	5.37	5.29	-
24	LUMBER AND WOOD PRODUCTS	196.10	195.77	203.81	206.23	205.65	4.83	4.87	5.07	5.13	5.18
242	Sawmills and planing mills	193.93	194.21	202.05	207.24	(*)	4.73	4.76	4.94	5.03	(*)
2421	Sawmills and planing mills, general	203.03	202.78	210.74	216.41	-	4.94	4.97	5.14	5.24	-
243	Millwork, plywood and related products	199.67	200.00	211.05	212.00	212.53	4.93	5.00	5.25	5.30	5.34
2431	Millwork	185.10	186.42	199.25	202.24	-	4.71	4.78	5.07	5.12	-
2432	Veneer and plywood	221.43	219.89	232.37	233.70	-	5.31	5.35	5.64	5.70	-
244	Wooden containers	140.91	139.50	144.77	146.29	(*)	3.66	3.71	3.77	3.79	(*)
2441,2	Wooden boxes, shooks, and crates	139.20	139.01	141.72	141.71	-	3.56	3.62	3.71	3.70	-
249	Miscellaneous wood products	159.20	159.60	169.97	168.75	169.49	3.97	4.01	4.26	4.24	4.28
25	FURNITURE AND FIXTURES	156.39	156.33	165.17	171.39	174.68	4.01	4.05	4.29	4.35	4.40
251	Household furniture	146.67	147.07	154.31	160.68	163.49	3.79	3.83	4.05	4.12	4.16
2511	Wood household furniture	140.62	140.01	147.44	152.85	-	3.56	3.59	3.80	3.85	-
2512	Upholstered household furniture	150.26	152.11	159.53	167.45	-	4.05	4.10	4.30	4.43	-
2515	Mattresses and bedsprings	164.92	168.28	175.41	185.25	-	4.34	4.44	4.69	4.75	-
252	Office furniture	185.59	187.11	199.89	205.94	-	4.56	4.62	4.84	4.88	-
254	Partitions and fixtures	196.09	194.34	204.88	210.01	-	4.89	4.92	5.24	5.29	-
253,9	Other furniture and fixtures	170.09	168.78	183.44	189.12	194.24	4.35	4.43	4.74	4.80	4.93
32	STONE, CLAY, AND GLASS PRODUCTS	222.44	224.80	242.53	244.28	240.44	5.36	5.43	5.83	5.83	5.85
321	Flat glass	296.78	311.90	299.21	299.82	-	6.87	7.22	7.28	7.19	-
322	Glass and glassware, pressed or blown	221.41	221.90	244.42	249.08	(*)	5.44	5.52	6.08	6.09	(*)
3221	Glass containers	234.43	229.65	259.49	264.99	-	5.69	5.77	6.36	6.37	-
3229	Pressed and blown glass, nec	200.70	209.71	222.61	224.64	-	5.03	5.14	5.65	5.63	-
324	Cement, hydraulic	310.06	317.94	348.35	344.21	349.21	7.40	7.57	8.12	8.08	8.14
325	Structural clay products	175.51	177.10	190.24	191.58	(*)	4.26	4.33	4.64	4.65	(*)
3251	Brick and structural clay tile	162.09	163.86	173.47	175.98	-	3.85	3.92	4.16	4.20	-
326	Pottery and related products	170.28	178.75	193.03	195.28	-	4.40	4.56	5.04	5.02	-
327	Concrete, gypsum, and plaster products	234.79	235.55	253.58	254.18	253.75	5.41	5.44	5.75	5.79	5.82
328,9	Other stone and nonmetallic mineral products	212.74	214.52	229.86	232.78	(*)	5.24	5.31	5.62	5.65	(*)
3291	Abrasives products	206.33	206.98	221.13	224.22	-	5.25	5.28	5.57	5.55	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
—	TOTAL PRIVATE	36.6	36.2	36.5	36.4	36.1	—	—	—	—	—
—	MINING	41.2	43.8	44.9	44.3	46.0	—	—	—	—	—
10	METAL MINING	41.2	42.0	41.3	40.6	—	—	—	—	—	—
101	Iron ores	42.7	44.2	41.6	43.3	—	—	—	—	—	—
102	Copper ores	39.4	40.2	38.5	37.8	—	—	—	—	—	—
11,12	COAL MINING	31.5	41.8	43.9	41.6	—	—	—	—	—	—
12	Bituminous coal and lignite mining	31.3	41.8	44.0	41.6	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION	45.4	45.4	46.1	46.3	—	—	—	—	—	—
131,2	Crude petroleum and natural gas fields	42.0	42.2	42.3	42.0	—	—	—	—	—	—
138	Oil and gas field services	47.1	47.0	47.8	48.2	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.8	44.5	45.5	45.1	—	—	—	—	—	—
142	Crushed and broken stone	45.0	45.1	46.3	46.0	—	—	—	—	—	—
—	CONTRACT CONSTRUCTION	37.9	36.8	37.8	37.4	37.0	—	—	—	—	—
15	GENERAL BUILDING CONTRACTORS	36.9	36.1	37.0	36.8	—	—	—	—	—	—
16	HEAVY CONSTRUCTION CONTRACTORS	41.2	39.8	41.6	40.5	—	—	—	—	—	—
161	Highway and street construction	42.4	40.9	42.9	41.7	—	—	—	—	—	—
162	Heavy construction, nec	40.2	38.8	40.5	39.4	—	—	—	—	—	—
17	SPECIAL TRADE CONTRACTORS	36.9	35.9	36.6	36.3	—	—	—	—	—	—
171	Plumbing, heating, air conditioning	38.3	37.3	38.5	38.2	—	—	—	—	—	—
172	Painting, paper hanging, decorating	35.5	35.3	35.0	34.6	—	—	—	—	—	—
173	Electrical work	38.1	37.0	37.7	37.5	—	—	—	—	—	—
174	Masonry, stonework, and plastering	34.3	32.6	33.9	33.5	—	—	—	—	—	—
176	Roofing and sheet metal work	34.4	33.2	33.0	32.3	—	—	—	—	—	—
—	MANUFACTURING	40.0	40.1	40.1	40.2	40.4	3.1	3.4	3.3	3.5	3.7
19,24,25, 32-39	DURABLE GOODS	40.5	40.6	40.6	40.8	41.0	3.2	3.4	3.5	3.6	3.9
20-23,26-31	NONDURABLE GOODS	39.2	39.4	39.3	39.4	39.5	3.0	3.3	3.1	3.2	3.4
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	40.3	40.2	40.0	40.2	40.1	2.7	2.3	2.7	2.7	—
192	Ammunition, except for small arms	39.7	39.6	38.8	39.2	39.4	2.3	1.9	2.4	2.5	—
1925	Complete guided missiles	39.8	40.0	39.3	39.6	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec	39.7	38.8	38.1	38.5	—	—	—	—	—	—
24	LUMBER AND WOOD PRODUCTS	40.6	40.2	40.2	40.2	39.7	3.8	3.6	3.9	4.1	—
242	Sawmills and planing mills	41.0	40.8	40.9	41.2	(*)	4.4	4.2	4.4	4.7	—
2421	Sawmills and planing mills, general	41.1	40.8	41.0	41.3	—	—	—	—	—	—
243	Millwork, plywood and related products	49.5	40.0	40.2	40.0	39.8	3.6	3.3	3.9	4.0	—
2431	Millwork	39.3	39.0	39.3	39.5	—	—	—	—	—	—
2432	Veneer and plywood	41.7	41.1	41.2	41.0	—	—	—	—	—	—
244	Wooden containers	38.5	37.6	38.4	38.6	(*)	2.6	2.2	2.6	3.0	—
2441,2	Wooden boxes, shooks, and crates	39.1	38.4	38.2	38.3	—	—	—	—	—	—
249	Miscellaneous wood products	40.1	39.8	39.9	39.8	39.6	3.3	2.8	3.4	3.6	—
25	FURNITURE AND FIXTURES	39.0	38.6	38.5	39.4	39.7	2.2	2.1	2.1	2.7	—
251	Household furniture	38.7	38.4	38.1	39.0	39.3	2.0	2.0	1.9	2.7	—
2511	Wood household furniture	39.5	39.0	38.8	39.7	—	2.5	2.4	2.3	3.1	—
2512	Upholstered household furniture	37.1	37.1	37.1	37.8	—	—	—	—	—	—
2515	Mattresses and bedsprings	38.0	37.9	37.4	39.0	—	—	—	—	—	—
252	Office furniture	40.7	40.5	41.3	42.2	—	2.7	2.4	3.4	3.9	—
254	Partitions and fixtures	40.1	39.5	39.1	39.7	—	3.4	3.2	2.6	2.8	—
253,9	Other furniture and fixtures	39.1	38.1	38.7	39.4	39.4	1.8	1.4	1.5	2.0	—
32	STONE, CLAY, AND GLASS PRODUCTS	41.5	41.4	41.6	41.9	41.1	4.5	4.5	4.9	5.0	—
321	Flat glass	43.2	43.2	41.1	41.7	—	5.6	5.7	6.9	6.6	—
322	Glass and glassware, pressed or blown	40.7	40.2	40.2	40.9	(*)	4.2	4.5	4.2	4.3	—
3221	Glass containers	41.2	39.8	40.8	41.6	—	—	—	—	—	—
3229	Pressed and blown glass, nec	39.9	40.8	39.4	39.9	—	3.0	3.5	3.1	3.3	—
324	Cement, hydraulic	41.9	42.0	42.9	42.6	42.9	3.3	3.1	4.3	4.1	—
325	Structural clay products	41.2	40.9	41.0	41.2	(*)	4.2	4.0	4.3	4.6	—
3251	Brick and structural clay tile	42.1	41.8	41.7	41.9	—	—	—	—	—	—
326	Pottery and related products	38.7	39.2	38.3	38.9	—	2.2	2.6	2.0	2.3	—
327	Concrete, gypsum and plaster products	43.4	43.3	44.1	43.9	43.6	6.2	6.0	7.1	7.0	—
328,9	Other stone and nonmetallic mineral products	40.6	40.4	40.9	41.2	(*)	3.3	3.4	3.8	3.9	—
3291	Abrasive products	39.3	39.2	39.7	40.4	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers ¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
	DURABLE GOODS—Continued										
	PRIMARY METAL INDUSTRIES	\$280.95	\$283.56	\$308.32	\$307.29	\$310.13	\$6.92	\$6.95	\$7.52	\$7.55	\$7.62
33	Blast furnace and basic steel products	314.40	315.17	348.84	348.13	(*)	7.86	7.84	8.55	8.66	(*)
3312	Blast furnaces and steel mills	320.79	321.60	356.94	356.40	—	8.06	8.04	8.77	8.91	—
332	Iron and steel foundries	256.68	260.60	277.28	272.39	(*)	6.20	6.31	6.73	6.66	(*)
3321	Gray iron foundries	269.02	273.42	289.95	284.66	—	6.39	6.51	6.92	6.81	—
3322	Malleable iron foundries	264.37	273.50	272.84	282.98	—	6.56	6.72	7.05	7.11	—
3323	Steel foundries	221.29	224.24	244.42	237.73	—	5.56	5.62	6.08	6.08	—
333.4	Nonferrous metals	278.30	286.28	307.52	301.10	(*)	6.69	6.80	7.41	7.38	(*)
3334	Primary aluminum	306.77	312.50	351.54	342.79	—	7.41	7.53	8.35	8.28	—
335	Nonferrous rolling and drawing	255.40	260.18	276.54	277.44	(*)	6.11	6.18	6.60	6.59	(*)
3351	Copper rolling and drawing	254.07	258.69	266.28	275.18	—	5.95	6.03	6.31	6.37	—
3352	Aluminum rolling and drawing	272.00	275.57	304.45	300.33	—	6.40	6.53	7.13	7.10	—
3357	Nonferrous wire drawing and insulating	252.95	259.11	263.30	262.06	—	6.11	6.14	6.36	6.33	—
336	Nonferrous foundries	209.32	212.13	227.05	231.49	(*)	5.22	5.29	5.62	5.66	(*)
3361	Aluminum castings	213.99	220.18	234.67	238.14	—	5.31	5.45	5.78	5.78	—
3362.9	Other nonferrous castings	203.49	201.28	216.14	222.75	—	5.10	5.07	5.39	5.50	—
339	Miscellaneous primary metal products	205.73	262.66	277.09	288.86	(*)	6.38	6.55	6.91	7.08	(*)
3391	Iron and steel forgings	267.13	280.30	290.43	311.82	—	6.78	6.99	7.39	7.55	—
34	FABRICATED METAL PRODUCTS	223.86	226.59	237.10	240.26	243.72	5.46	5.54	5.84	5.86	5.93
341	Metal cans	321.22	307.30	353.57	347.02	331.04	7.17	7.13	7.62	7.61	7.61
342	Cutlery, hand tools, and hardware	212.10	215.06	220.25	228.42	235.66	5.25	5.31	5.52	5.64	5.72
3421,3,5	Cutlery and hand tools, incl. saws	195.05	197.38	205.93	205.13	—	4.84	4.91	5.11	5.18	—
3429	Hardware, nec	224.37	228.07	229.28	243.72	—	5.54	5.59	5.79	5.93	—
343	Plumbing and heating, except electric	197.56	199.49	200.72	203.54	(*)	4.89	4.95	5.20	5.23	(*)
3431,2	Sanitary ware and plumbers' brass goods	191.48	200.60	193.36	201.84	—	4.86	4.99	5.17	5.27	—
3433	Heating equipment, except electric	202.29	199.17	208.15	208.12	—	4.91	4.93	5.23	5.19	—
344	Fabricated structural metal products	217.49	218.97	227.53	232.40	(*)	5.17	5.42	5.66	5.71	(*)
3441	Fabricated structural steel	238.14	231.49	247.25	250.31	—	5.67	5.66	6.06	6.12	—
3442	Metal doors, sash, and trim	172.04	172.82	173.82	182.46	—	4.40	4.42	4.48	4.55	—
3443	Fabricated plate work (boiler shops)	231.38	241.84	242.53	250.26	—	5.77	5.87	6.14	6.21	—
3444	Sheet metal work	220.00	218.99	233.74	236.93	—	5.50	5.53	5.80	5.85	—
3446.9	Architectural and misc. metal work	209.39	210.23	227.34	229.74	—	5.07	5.14	5.40	5.47	—
345	Screw machine products, bolts, etc	219.98	223.33	232.96	240.41	245.96	5.25	5.33	5.60	5.67	5.72
3451	Screw machine products	208.33	211.74	221.73	228.54	—	5.02	5.09	5.33	5.39	—
3452	Bolts, nuts, rivets, and washers	230.83	234.50	245.20	252.70	—	5.47	5.57	5.88	5.96	—
346	Metal stampings	257.46	268.18	278.80	274.70	(*)	6.13	6.34	6.80	6.70	(*)
347	Metal services, nec	179.74	178.30	186.52	189.85	194.25	4.46	4.48	4.71	4.77	4.82
348	Miscellaneous fabricated wire products	188.03	187.46	198.50	203.62	206.04	4.62	4.71	5.00	5.04	5.05
349	Miscellaneous fabricated metal products	213.86	216.28	233.11	237.22	(*)	5.32	5.38	5.77	5.80	(*)
3494.8	Valves, pipe, and pipe fittings	217.60	220.00	237.92	244.08	—	5.44	5.50	5.86	5.91	—
35	MACHINERY, EXCEPT ELECTRICAL	237.39	240.26	253.59	255.85	264.39	5.79	5.86	6.17	6.18	6.28
351	Engines and turbines	278.24	278.76	301.91	312.49	(*)	6.87	6.90	7.24	7.37	(*)
3511	Steam engines and turbines	266.74	272.54	268.88	276.76	—	6.57	6.68	6.79	6.80	—
3519	Internal combustion engines, nec	282.80	281.00	316.52	327.56	—	7.00	6.99	7.43	7.56	—
352	Farm machinery	242.00	255.64	264.55	267.39	—	6.05	6.22	6.50	6.49	—
353	Construction and related machinery	246.44	249.48	268.46	266.67	(*)	6.07	6.16	6.58	6.52	(*)
3531,2	Construction and mining machinery	260.40	264.80	287.83	281.20	—	6.51	6.62	7.16	7.03	—
3533	Oil field machinery	242.52	241.26	261.94	267.96	—	5.64	5.69	6.12	6.16	—
3535.6	Conveyors, hoists, cranes, monorails	222.32	228.80	242.72	246.79	—	5.60	5.72	5.92	5.99	—
3537	Industrial trucks and tractors	216.40	219.20	226.76	228.05	—	5.41	5.48	5.77	5.73	—
354	Metal working machinery	246.69	251.22	272.00	274.56	283.40	5.93	6.01	6.40	6.43	6.53
3541	Machine tools, metal cutting types	246.74	255.92	282.96	292.15	—	5.96	6.05	6.55	6.58	—
3544	Special dies, tools, jigs and fixtures	269.61	271.78	293.19	295.61	—	6.27	6.35	6.74	6.78	—
3545	Machine tool accessories	224.52	231.13	248.95	249.78	—	5.53	5.61	5.97	5.99	—
3542,8	Miscellaneous metal working machinery	218.99	223.20	237.74	238.36	—	5.53	5.58	5.87	5.90	—
355	Special industry machinery	218.30	224.00	235.71	239.27	(*)	5.39	5.45	5.82	5.85	(*)
3551	Food products machinery	231.09	234.11	247.23	251.72	—	5.65	5.71	6.15	6.20	—
3552	Textile machinery	183.47	185.64	191.84	195.62	—	4.53	4.55	4.82	4.83	—
3555	Printing trades machinery	221.03	232.63	244.59	247.63	—	5.61	5.66	6.13	6.16	—
356	General industrial machinery	234.03	233.92	251.53	258.13	(*)	5.75	5.79	6.18	6.22	(*)
3561	Pumps and compressors	236.23	237.86	248.06	261.66	—	5.79	5.83	6.14	6.23	—
3562	Ball and roller bearings	247.57	239.40	260.00	264.80	—	5.98	5.97	6.25	6.26	—
3564	Blowers and fans	221.78	222.63	233.51	246.77	—	5.37	5.43	5.78	5.82	—
3566	Power transmission equipment	234.93	237.63	252.14	255.43	—	5.73	5.81	6.18	6.23	—
357	Office and computing machines	223.13	227.38	222.09	221.81	227.97	5.30	5.35	5.43	5.41	5.48
3573	Electronic computing equipment	234.18	237.67	228.53	229.63	—	5.51	5.54	5.52	5.52	—
358	Service industry machines	211.20	215.20	219.85	223.28	(*)	5.28	5.38	5.58	5.61	(*)
3585	Refrigeration machinery	213.86	216.94	217.67	220.52	—	5.32	5.41	5.61	5.64	—
359	Miscellaneous machinery, except electrical	234.64	235.15	244.85	246.86	255.00	5.60	5.68	5.90	5.92	6.00

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers ¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977	Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977
	DURABLE GOODS--Continued										
33	PRIMARY METAL INDUSTRIES	40.6	40.8	41.0	40.7	40.7	3.5	3.6	3.7	3.6	--
331	Blast furnace and basic steel products	40.0	40.2	40.8	40.2	(*)	2.8	2.8	3.0	2.7	--
3312	Blast furnaces and steel mills	39.8	40.0	40.7	40.0	--	2.7	2.7	3.0	2.6	--
332	Iron and steel foundries	41.4	41.3	41.2	40.9	(*)	4.4	4.7	4.5	4.6	--
3321	Gray iron foundries	42.1	42.0	41.9	41.8	--	5.0	5.4	5.2	5.2	--
3322	Malleable iron foundries	40.3	40.7	38.7	39.8	--	--	--	--	--	--
3323	Steel foundries	39.8	39.9	40.2	39.1	--	3.2	3.3	3.2	3.3	--
333,4	Nonferrous metals	41.6	42.1	41.5	40.8	(*)	3.6	4.1	3.9	3.4	--
3334	Primary aluminum	41.4	41.5	42.1	41.4	--	--	--	--	--	--
335	Nonferrous rolling and drawing	41.8	42.1	41.9	42.1	(*)	4.7	4.6	4.9	4.8	--
3351	Copper rolling and drawing	42.7	42.9	42.2	43.2	--	--	--	--	--	--
3352	Aluminum rolling and drawing	42.5	42.2	42.7	42.3	--	4.8	5.4	6.6	5.9	--
3357	Nonferrous wire drawing and insulating	41.4	42.2	41.4	41.4	--	4.7	4.2	4.2	4.3	--
336	Nonferrous foundries	40.1	40.1	40.4	40.9	(*)	2.9	3.0	3.3	3.7	--
3361	Aluminum castings	40.3	40.4	40.6	41.2	--	--	--	--	--	--
3362,9	Other nonferrous castings	39.9	39.7	40.1	40.5	--	--	--	--	--	--
339	Miscellaneous primary metal products	39.3	40.1	40.1	40.8	(*)	3.6	4.1	3.7	4.3	--
3391	Iron and steel forgings	39.4	40.1	39.3	41.3	--	--	--	--	--	--
34	FABRICATED METAL PRODUCTS	41.0	40.9	40.6	41.0	41.1	3.5	3.6	3.6	3.8	--
341	Metal cans	44.8	43.1	46.4	45.6	43.5	4.9	4.3	5.3	5.1	--
342	Cutlery, hand tools, and hardware	40.4	40.5	39.9	40.5	41.2	3.2	3.3	2.7	3.3	--
3421,3,5	Cutlery and hand tools, incl. saws	40.3	40.2	40.3	39.6	--	--	--	--	--	--
3429	Hardware, nec	40.5	40.8	39.6	41.1	--	--	--	--	--	--
343	Plumbing and heating, except electric	40.4	40.3	38.6	39.3	(*)	2.9	3.2	2.5	2.6	--
3431,2	Sanitary ware and plumbers' brass goods	39.4	40.2	37.4	38.3	--	--	--	--	--	--
3433	Heating equipment, except electric	41.2	40.4	39.8	40.1	--	--	--	--	--	--
344	Fabricated structural metal products	40.5	40.4	40.2	40.7	(*)	3.1	3.0	3.4	3.6	--
3441	Fabricated structural steel	42.0	40.9	40.8	40.9	--	3.8	3.3	3.3	3.6	--
3442	Metal doors, sash, and trim	39.1	39.1	38.8	40.1	--	--	--	--	--	--
3443	Fabricated plate work (boiler shops)	40.1	41.2	39.5	40.3	--	2.6	3.0	3.1	3.2	--
3444	Sheet metal work	40.0	39.6	40.3	40.5	--	--	--	--	--	--
3446,9	Architectural and misc. metal work	41.3	40.9	42.1	42.0	--	--	--	--	--	--
345	Screw machine products, bolts, etc	41.9	41.9	41.6	42.4	43.0	4.0	4.2	4.1	4.9	--
3451	Screw machine products	41.5	41.6	41.6	42.4	--	--	--	--	--	--
3452	Bolts, nuts, rivets, and washers	42.2	42.1	41.7	42.4	--	--	--	--	--	--
346	Metal stampings	42.0	42.3	41.0	41.0	(*)	4.4	5.2	5.0	4.4	--
347	Metal services, nec	40.3	39.8	39.6	39.8	40.3	3.5	3.2	3.1	3.3	--
348	Miscellaneous fabricated wire products	40.7	39.8	39.7	40.4	40.8	3.1	2.6	2.5	2.9	--
349	Miscellaneous fabricated metal products	40.2	40.2	40.4	40.9	(*)	3.0	3.1	3.3	3.5	--
3494,8	Valves, pipe, and pipe fittings	40.0	40.0	40.6	41.3	--	--	--	--	--	--
35	MACHINERY, EXCEPT ELECTRICAL	41.0	41.0	41.1	41.4	42.1	3.2	3.4	3.6	3.9	--
351	Engines and turbines	40.5	40.4	41.7	42.4	(*)	3.9	3.0	3.8	3.9	--
3511	Steam engines and turbines	40.6	40.8	39.6	40.7	--	--	--	--	--	--
3519	Internal combustion engines, nec	40.4	40.2	42.6	43.1	--	--	--	--	--	--
352	Farm machinery	40.0	41.1	40.7	41.2	--	3.1	4.0	3.6	3.9	--
353	Construction and related machinery	40.6	40.5	40.8	40.9	(*)	2.5	2.8	2.9	3.4	--
3531,2	Construction and mining machinery	40.0	40.0	40.2	40.0	--	2.1	2.2	2.3	2.7	--
3533	Oil field machinery	43.0	42.4	42.8	43.5	--	--	--	--	--	--
3535,6	Conveyors, hoists, cranes, monorails	39.7	40.0	41.0	41.2	--	--	--	--	--	--
3537	Industrial trucks and tractors	40.0	40.0	39.3	39.8	--	--	--	--	--	--
354	Metal working machinery	41.6	41.8	42.5	42.7	43.4	3.9	4.0	4.9	5.2	--
3541	Machine tools, metal cutting types	41.4	42.3	43.2	44.4	--	3.6	4.0	4.9	5.9	--
3544	Special dies, tools, jig and fixtures	43.0	42.8	43.5	43.6	--	--	--	--	--	--
3545	Machine tool accessories	40.6	41.2	41.7	41.7	--	2.9	3.3	4.1	3.9	--
3542,8	Miscellaneous metal working machinery	39.6	40.0	40.5	40.4	--	--	--	--	--	--
355	Special industry machinery	40.5	41.1	40.5	40.9	(*)	2.8	3.3	3.1	3.5	--
3551	Food products machinery	40.9	41.0	40.2	40.6	--	--	--	--	--	--
3552	Textile machinery	40.5	40.8	39.8	40.5	--	--	--	--	--	--
3555	Printing trades machinery	39.4	41.1	39.9	40.2	--	--	--	--	--	--
356	General industrial machinery	40.7	40.4	40.7	41.5	(*)	3.2	3.2	3.5	3.9	--
3561	Pumps and compressors	40.8	40.8	40.4	42.0	--	3.5	3.4	3.8	4.3	--
3562	Ball and roller bearings	41.4	40.1	41.6	42.3	--	3.7	3.6	4.1	4.4	--
3564	Blowers and fans	41.3	41.0	40.4	42.4	--	--	--	--	--	--
3566	Power transmission equipment	41.0	40.9	40.8	41.0	--	3.5	3.4	3.5	3.9	--
357	Office and computing machines	42.1	42.5	40.9	41.0	41.6	3.1	3.4	2.7	2.8	--
3573	Electronic computing equipment	42.5	42.9	41.4	41.6	--	--	--	--	--	--
358	Service industry machines	40.0	40.0	39.4	39.8	(*)	2.3	2.5	2.7	3.0	--
3585	Refrigeration machinery	40.2	40.1	38.8	39.1	--	2.2	2.4	2.6	2.8	--
359	Miscellaneous machinery, except electrical	41.9	41.4	41.5	41.7	42.5	3.9	3.8	4.1	4.3	--

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	
	DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	\$198.00	\$200.80	\$211.46	\$217.22	\$220.05	\$4.95	\$5.02	\$5.34	\$5.39	\$5.42	
361	Electric test and distributing equipment	204.49	208.43	219.35	221.65	225.89	5.19	5.25	5.47	5.50	5.55	
3611	Electric measuring instruments	202.18	202.18	210.01	213.44	—	5.08	5.08	5.29	5.39	—	
3612	Transformers	198.70	200.19	213.27	213.31	—	4.98	5.03	5.24	5.19	—	
3613	Switchgear and switchboard apparatus	209.91	218.59	231.38	233.74	—	5.41	5.52	5.77	5.80	—	
362	Electrical industrial apparatus	200.49	200.66	217.20	219.09	228.11	5.05	5.08	5.43	5.45	5.55	
3621	Motors and generators	204.57	204.73	226.80	227.92	—	5.14	5.17	5.60	5.60	—	
3622	Industrial controls	190.81	189.63	192.65	196.21	—	4.88	4.90	5.03	5.07	—	
363	Household appliances	195.13	194.82	207.23	215.07	215.46	4.94	4.97	5.30	5.35	5.32	
3632	Household refrigerators and freezers	213.47	213.33	233.50	248.39	—	5.35	5.36	5.64	5.71	—	
3633	Household laundry equipment	228.85	225.23	230.14	236.25	—	5.75	5.85	6.22	6.30	—	
3634	Electric housewares and fans	164.51	167.38	181.74	176.91	—	4.24	4.27	4.48	4.49	—	
364	Electric lighting and wiring equipment	185.97	190.16	198.86	205.20	207.83	4.72	4.79	5.06	5.13	5.17	
3641	Electric lamps	205.00	209.80	212.51	221.68	—	5.00	5.08	5.38	5.42	—	
3642	Lighting fixtures	190.03	193.95	200.60	207.24	—	4.86	4.91	5.17	5.26	—	
3643,4	Wiring devices	174.72	177.91	191.58	195.51	—	4.48	4.55	4.85	4.90	—	
365	Radio and TV receiving equipment	178.23	176.18	181.74	193.36	200.10	4.57	4.60	4.77	4.92	4.99	
366	Communication equipment	228.73	235.89	245.43	251.91	(*)	5.62	5.81	6.06	6.07	(*)	
3661	Telephone and telegraph apparatus	235.98	252.10	251.33	257.91	—	5.70	6.06	6.13	6.17	—	
3662	Radio and TV communication equipment	222.96	224.07	240.60	246.38	—	5.56	5.63	6.00	5.98	—	
367	Electronic components and accessories	165.20	167.23	174.09	177.06	179.54	4.13	4.16	4.51	4.54	4.58	
3671-3	Electron tubes	210.65	214.52	231.74	241.83	—	5.24	5.31	5.68	5.69	—	
3674,9	Other electronic components	159.60	161.20	166.61	169.45	—	3.99	4.01	4.35	4.39	—	
369	Miscellaneous electrical equip. and supplies	238.71	239.51	257.29	268.80	(*)	5.67	5.73	6.26	6.40	—	
3694	Engine electrical equipment	255.07	253.95	284.96	303.86	—	6.03	6.09	6.85	7.05	—	
37	TRANSPORTATION EQUIPMENT	266.67	276.81	301.73	295.07	307.22	6.52	6.67	7.15	7.11	7.28	
371	Motor vehicles and equipment	296.52	313.20	349.53	337.55	(*)	7.06	7.25	7.89	7.85	(*)	
3711	Motor vehicles	298.41	327.75	370.92	349.32	—	7.35	7.50	8.17	8.20	—	
3712	Passenger car bodies	290.57	326.82	374.11	343.66	—	7.79	8.03	8.95	9.14	—	
3713	Truck and bus bodies	222.60	229.39	253.79	244.00	—	5.51	5.65	6.19	6.10	—	
3714	Motor vehicle parts and accessories	308.00	312.05	347.85	345.64	—	7.00	7.19	7.87	7.82	—	
3715	Truck trailers	193.61	202.75	210.54	211.33	—	4.99	5.12	5.33	5.27	—	
372	Aircraft and parts	263.25	261.05	285.80	287.16	(*)	6.50	6.51	6.92	6.97	(*)	
3721	Aircraft	271.58	270.50	295.65	298.27	—	6.64	6.63	7.09	7.17	—	
3722	Aircraft engines and engine parts	264.14	260.41	283.91	280.50	—	6.62	6.66	7.01	7.03	—	
3723,9	Other aircraft parts and equipment	240.99	241.20	267.49	270.03	—	5.98	6.03	6.43	6.46	—	
373	Ship and boat building and repairing	216.41	219.46	230.23	228.98	243.60	5.71	5.73	5.98	6.01	6.09	
3731	Ship building and repairing	229.67	231.42	244.22	242.44	—	6.06	6.09	6.36	6.38	—	
3732	Boat building and repairing	171.45	178.09	182.36	181.45	—	4.50	4.52	4.70	4.75	—	
374	Railroad equipment	267.92	262.08	296.87	—	—	6.80	6.72	7.33	(*)	—	
375,9	Other transportation equipment	177.51	177.97	179.88	190.56	—	4.46	4.54	4.66	4.80	—	
38	INSTRUMENTS AND RELATED PRODUCTS	196.98	198.19	207.48	208.92	213.96	4.90	4.93	5.20	5.21	5.27	
381	Engineering and scientific instruments	209.16	210.80	218.90	222.46	—	5.19	5.27	5.50	5.52	—	
382	Mechanical measuring and control devices	190.72	192.08	203.71	203.66	210.77	4.78	4.79	5.08	5.13	5.23	
3821	Mechanical measuring devices	196.66	198.77	211.01	210.65	—	4.88	4.92	5.21	5.24	—	
3822	Automatic temperature controls	182.03	180.97	191.39	191.67	—	4.62	4.57	4.87	4.94	—	
383,5	Optical and ophthalmic goods	176.48	178.97	185.07	186.00	(*)	4.39	4.43	4.65	4.65	(*)	
385	Ophthalmic goods	158.76	161.17	166.02	165.33	—	4.05	4.07	4.29	4.25	—	
384	Medical instruments and supplies	173.09	173.36	177.10	181.24	184.00	4.36	4.40	4.60	4.60	4.67	
386	Photographic equipment and supplies	252.14	257.65	271.58	272.00	275.52	6.12	6.12	6.56	6.57	6.56	
387	Watches, clocks, and watchcases	152.87	152.83	169.55	165.53	—	3.88	3.98	4.26	4.18	—	
39	MISC. MANUFACTURING INDUSTRIES	154.00	154.37	165.84	168.05	170.91	4.00	4.02	4.33	4.32	4.36	
391	Jewelry, silverware, and plated ware	161.83	170.52	172.54	175.38	182.28	4.27	4.35	4.47	4.52	4.58	
394	Toys and sporting goods	141.31	139.85	151.93	153.63	—	3.68	3.69	4.03	3.98	—	
3941-3	Games, toys, dolls and play vehicles	134.85	130.90	142.46	144.76	—	3.53	3.50	3.84	3.76	—	
3949	Sporting and athletic goods, nec	149.38	151.70	162.39	164.90	—	3.86	3.93	4.24	4.25	—	
395	Pens, pencils, office and art supplies	161.99	159.60	168.44	175.64	—	3.98	4.00	4.33	4.38	—	
396	Costume jewelry and notions	129.59	133.91	142.88	145.14	—	3.57	3.59	3.81	3.86	—	
393,9	Other manufacturing industries	168.52	167.57	180.81	183.60	184.54	4.31	4.33	4.66	4.66	4.66	
393	Musical instruments and parts	155.52	159.54	167.51	172.51	—	4.05	4.07	4.23	4.27	—	
	NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	202.69	205.32	213.33	215.34	216.66	4.98	5.02	5.32	5.37	5.43	
201	Meat products	205.44	210.74	213.19	213.44	219.23	5.06	5.14	5.37	5.39	5.44	
2011.	Meat packing plants	255.17	261.80	264.68	264.21	—	6.09	6.16	6.44	6.46	—	
2013	Sausages and other prepared meats	245.42	247.86	256.96	257.11	—	6.03	6.09	6.44	6.46	—	
2015	Poultry dressing plants	127.14	130.48	132.65	134.52	—	3.26	3.32	3.50	3.54	—	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	40.0	40.0	39.6	40.3	40.6	2.4	2.5	2.3	2.7	—
361	Electric test and distributing equipment	39.4	39.7	40.1	40.3	40.7	1.9	2.0	2.6	2.2	—
3611	Electric measuring instruments	39.8	39.8	39.7	39.6	—	1.9	1.4	2.1	1.9	—
3612	Transformers	39.9	39.8	40.7	41.1	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	38.8	39.6	40.1	40.3	—	—	—	—	—	—
362	Electrical industrial apparatus	39.7	39.5	40.0	40.2	41.1	2.2	2.2	2.7	2.8	—
3621	Motors and generators	39.8	39.6	40.5	40.7	—	2.5	2.5	3.3	3.1	—
3622	Industrial controls	39.1	38.7	38.3	38.7	—	1.7	1.4	1.6	1.8	—
363	Household appliances	39.5	39.2	39.1	40.2	40.5	2.1	2.0	1.7	2.6	—
3632	Household refrigerators and freezers	39.9	39.8	41.4	43.5	—	—	—	—	—	—
3633	Household laundry equipment	39.8	38.5	37.0	37.5	—	—	—	—	—	—
3634	Electric housewares and fans	38.8	39.2	37.8	39.4	—	2.0	2.3	1.2	2.5	—
364	Electric lighting and wiring equipment	39.4	39.7	39.3	40.0	40.2	2.3	2.3	2.0	2.3	—
3641	Electric lamps	41.0	41.3	39.5	40.9	—	2.4	2.4	1.5	2.0	—
3642	Lighting fixtures	39.1	39.5	38.8	39.4	—	2.4	2.6	2.0	2.5	—
3643,4	Wiring devices	39.0	39.1	39.5	39.9	—	2.1	2.1	2.1	2.4	—
365	Radio and TV receiving equipment	39.0	38.3	38.1	39.3	40.1	1.8	2.4	1.5	2.0	—
366	Communication equipment	40.7	40.6	40.5	41.5	(*)	2.6	2.6	2.2	2.7	(*)
3661	Telephone and telegraph apparatus	41.4	41.6	41.0	41.8	—	—	—	—	—	—
3662	Radio and TV communication equipment	40.1	39.8	40.1	41.2	—	2.8	2.4	2.5	2.7	—
367	Electronic components and accessories	40.0	40.2	38.6	39.0	39.2	2.6	2.5	2.2	2.3	—
3671-3	Electron tubes	40.2	40.4	40.8	42.5	—	1.5	1.8	2.2	2.3	—
3674,9	Other electronic components	40.0	40.2	38.3	38.6	—	2.7	2.6	2.2	2.3	—
369	Miscellaneous electrical equip. and supplies	42.1	41.8	41.1	42.0	(*)	3.8	4.4	3.6	5.3	(*)
3694	Engine electrical equipment	42.3	41.7	41.6	43.1	—	—	—	—	—	—
37	TRANSPORTATION EQUIPMENT	40.9	41.5	42.2	41.5	42.2	3.9	4.7	5.0	4.6	—
371	Motor vehicles and equipment	42.0	43.2	44.3	43.0	(*)	5.0	6.4	6.7	6.1	(*)
3711	Motor vehicles	40.6	43.7	45.4	42.6	—	4.7	7.0	6.9	6.2	—
3712	Passenger car bodies	37.3	40.7	41.8	37.6	—	—	—	—	—	—
3713	Truck and bus bodies	40.4	40.6	41.0	40.0	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	44.0	43.4	44.2	44.2	—	5.7	6.2	7.0	6.5	—
3715	Truck trailers	38.8	39.6	39.5	40.1	—	—	—	—	—	—
372	Aircraft and parts	40.5	40.1	41.3	41.2	(*)	2.7	2.6	3.3	3.5	(*)
3721	Aircraft	40.9	40.8	41.7	41.6	—	2.3	2.3	2.6	2.8	—
3722	Aircraft engines and engine parts	39.9	39.1	40.5	39.9	—	3.1	2.9	3.8	3.9	—
3723,9	Other aircraft parts and equipment	40.3	40.0	41.6	41.8	—	2.9	3.1	4.2	4.4	—
373	Ship and boat building and repairing	37.9	38.3	38.5	38.1	40.0	2.4	2.4	2.8	2.7	—
3731	Ship building and repairing	37.9	38.0	38.4	38.0	—	—	—	—	—	—
3732	Boat building and repairing	38.1	39.4	38.8	38.2	—	—	—	—	—	—
374	Railroad equipment	39.4	39.0	40.5	(*)	—	1.7	1.6	3.2	(*)	—
375,9	Other transportation equipment	39.8	39.2	38.6	39.7	—	2.6	2.7	2.5	2.8	—
38	INSTRUMENTS AND RELATED PRODUCTS	40.2	40.2	39.9	40.1	40.6	2.4	2.5	2.0	2.2	—
381	Engineering and scientific instruments	40.3	40.0	39.8	40.3	—	2.7	2.9	2.5	3.0	—
382	Mechanical measuring and control devices	39.9	40.1	40.1	39.7	40.3	2.5	2.6	2.3	2.4	—
3821	Mechanical measuring devices	40.3	40.4	40.5	40.2	—	2.5	2.6	2.7	2.4	—
3822	Automatic temperature controls	39.4	39.6	39.3	38.8	—	2.7	2.5	1.8	2.5	—
383,5	Optical and ophthalmic goods	40.2	40.4	39.8	40.0	(*)	2.1	2.3	1.4	1.6	—
385	Ophthalmic goods	39.2	39.6	38.7	38.9	—	1.9	2.1	1.2	1.2	—
384	Medical instruments and supplies	39.7	39.4	38.5	39.4	39.4	2.1	2.0	1.7	2.1	—
386	Photographic equipment and supplies	41.2	42.1	41.4	41.4	42.0	3.0	3.2	2.4	2.4	—
387	Watches, clocks, and watch cases	39.4	38.4	39.8	39.6	—	1.8	1.7	1.5	1.5	—
39	MISC. MANUFACTURING INDUSTRIES	38.5	38.4	38.3	38.9	39.2	2.0	2.2	1.5	2.0	—
391	Jewelry, silverware, and plated ware	37.9	39.2	38.6	38.8	39.8	2.2	2.7	1.4	2.2	—
394	Toys and sporting goods	38.4	37.9	37.7	38.6	—	1.7	2.1	1.0	1.6	—
3941-3	Games, toys, dolls and play vehicles	38.2	37.4	37.1	38.5	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	38.7	38.6	38.3	38.8	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	40.7	39.9	38.9	40.1	—	2.6	2.5	2.2	3.1	—
396	Costume jewelry and notions	36.3	37.3	37.5	37.6	—	1.6	1.8	1.0	1.5	—
393,9	Other manufacturing industries	39.1	38.7	38.8	39.4	39.6	2.1	2.1	2.0	2.3	—
393	Musical instruments and parts	38.4	39.2	39.6	40.4	—	1.1	1.6	1.1	1.7	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.7	40.9	40.1	40.1	39.9	4.2	4.5	4.0	4.3	—
201	Meat products	40.6	41.0	39.7	39.6	40.3	4.1	4.3	3.8	3.8	—
2011	Meat packing plants	41.9	42.5	41.1	40.9	—	4.7	5.0	4.3	4.2	—
2013	Sausages and other prepared meats	40.7	40.7	39.9	39.8	—	—	—	—	—	—
2015	Poultry dressing plants	39.0	39.3	37.9	38.0	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	\$204.52	\$213.19	\$227.76	\$225.25	\$228.45	\$4.94	\$5.04	\$5.26	\$5.30	\$5.35
2024	Ice cream and frozen desserts	196.61	205.44	224.30	220.48	—	4.94	5.06	5.29	5.30	—
2026	Fluid milk	214.95	224.55	239.15	236.62	—	5.13	5.21	5.35	5.39	—
203	Canned, cured, and frozen foods	178.00	173.89	172.67	188.47	—	4.45	4.38	4.58	4.87	—
2031,6	Canned, cured, and frozen sea foods	136.96	137.90	143.38	149.14	—	3.88	3.94	4.12	4.12	—
2032,3	Canned food, except sea foods	196.30	186.22	184.30	204.49	—	4.73	4.52	4.75	5.19	—
2037	Frozen fruits and vegetables	152.48	156.65	157.16	164.25	—	3.94	4.09	4.39	4.38	—
204	Grain mill products	237.01	242.82	250.97	251.29	(*)	5.35	5.42	5.73	5.79	(*)
2041	Flour and other grain mill products	263.29	272.07	272.78	277.38	—	5.59	5.68	5.93	6.03	—
2042	Prepared feeds for animals and fowls	202.46	208.32	206.97	204.31	—	4.56	4.65	4.76	4.83	—
205	Bakery products	204.36	208.43	218.44	218.51	(*)	5.20	5.29	5.53	5.56	(*)
2051	Bread, cake, and related products	202.80	206.19	218.44	217.56	—	5.20	5.26	5.53	5.55	—
2052	Cookies and crackers	209.68	215.06	219.64	221.13	—	5.19	5.39	5.54	5.57	—
206	Sugar	232.56	239.20	251.69	255.56	—	5.70	5.82	6.23	6.31	—
207	Confectionery and related products	180.29	179.39	188.86	195.42	(*)	4.53	4.53	4.88	4.91	(*)
2071	Confectionery products	171.35	170.56	179.33	183.38	—	4.36	4.34	4.67	4.69	—
208	Beverages	246.82	250.10	264.55	260.30	259.94	6.02	6.13	6.39	6.38	6.45
2082	Malt liquors	349.74	350.02	373.67	358.28	—	8.04	8.14	8.59	8.47	—
2086	Bottled and canned soft drinks	180.10	179.78	198.17	195.94	—	4.48	4.54	4.81	4.85	—
209	Miscellaneous foods and kindred products ..	200.72	206.07	210.01	209.09	212.16	4.86	4.93	5.16	5.15	5.20
21	TOBACCO MANUFACTURES	172.33	175.77	205.62	207.97	205.14	4.62	4.65	5.68	5.43	5.26
211	Cigarettes	217.54	220.10	236.38	261.41	—	5.96	6.03	6.64	6.72	—
212	Cigars	120.62	121.97	130.03	136.40	—	3.26	3.27	3.36	3.41	—
22	TEXTILE MILL PRODUCTS	148.50	148.93	161.20	163.22	164.43	3.75	3.78	4.02	4.05	4.07
221	Weaving mills, cotton	158.75	157.61	171.28	172.06	173.29	3.91	3.95	4.25	4.28	4.30
222	Weaving mills, synthetics	157.61	159.60	176.34	175.03	178.85	3.96	4.00	4.28	4.29	4.32
223	Weaving and finishing mills, wool	156.59	157.87	161.20	166.87	167.67	3.81	3.86	4.04	4.11	4.14
224	Narrow fabric mills	137.86	141.60	147.20	147.63	150.32	3.49	3.54	3.68	3.70	3.73
225	Knitting mills	133.70	134.49	142.45	145.49	(*)	3.50	3.53	3.70	3.74	(*)
2251	Women's hosiery, except socks	124.21	122.47	126.88	132.17	—	3.26	3.31	3.42	3.46	—
2252	Hosiery, nec	119.88	118.70	131.75	135.80	—	3.24	3.27	3.44	3.50	—
2253	Knit underwear mills	133.86	135.32	137.26	141.74	—	3.56	3.58	3.67	3.73	—
2254	Knit underwear mills	123.71	124.15	128.71	130.47	—	3.23	3.25	3.46	3.47	—
226	Textile finishing, except wool	159.17	160.34	169.03	177.51	180.92	4.05	4.08	4.29	4.34	4.37
227	Floor covering mills	162.18	157.47	175.13	181.87	—	3.88	3.85	4.15	4.21	—
228	Yarn and thread mills	139.74	138.41	155.80	157.03	157.08	3.52	3.54	3.80	3.83	3.85
229	Miscellaneous textile goods	160.00	165.24	178.27	179.52	180.67	4.00	4.05	4.38	4.40	4.45
23	APPAREL AND OTHER TEXTILE PRODUCTS	121.75	122.85	127.09	128.87	130.63	3.42	3.49	3.59	3.62	3.69
231	Men's and boys' suits and coats	150.17	156.45	160.38	159.94	159.56	4.23	4.31	4.48	4.48	4.52
232	Men's and boys' furnishings	111.57	110.98	116.60	117.65	119.16	3.04	3.10	3.23	3.25	3.31
2321	Men's and boys' shirts and nightwear	109.30	108.47	113.49	113.80	—	2.97	3.03	3.17	3.17	—
2327	Men's and boys' separate trousers	113.09	111.83	116.93	116.41	—	3.09	3.15	3.23	3.27	—
2328	Men's and boys' work clothing	110.70	109.08	115.71	118.99	—	3.00	3.03	3.17	3.19	—
233	Women's and misses' outerwear	117.48	117.72	123.28	124.92	(*)	3.56	3.60	3.68	3.74	(*)
2331	Women's and misses' blouses and waists ..	113.54	112.56	118.34	118.26	—	3.32	3.36	3.45	3.53	—
2335	Women's and misses' dresses	116.16	115.61	121.88	123.33	—	3.63	3.67	3.75	3.83	—
2337	Women's and misses' suits and coats	134.88	135.62	140.58	144.91	—	4.15	4.16	4.26	4.30	—
2339	Women's and misses' outerwear, nec	111.80	113.53	118.99	120.74	—	3.25	3.31	3.39	3.44	—
234	Women's and children's undergarments	114.35	114.84	116.71	120.74	120.82	3.15	3.19	3.26	3.29	3.31
2341	Women's and children's underwear	111.75	111.91	114.08	118.08	—	3.07	3.10	3.16	3.20	—
2342	Corsets and allied garments	123.15	124.95	125.27	129.60	—	3.44	3.50	3.61	3.61	—
235	Hats, caps, and millinery	110.53	112.18	113.76	122.20	—	3.02	3.04	3.16	3.25	—
236	Children's outerwear	109.70	110.60	115.78	116.82	118.94	3.09	3.16	3.28	3.30	3.36
2361	Children's dresses and blouses	106.11	109.42	117.15	112.54	—	3.13	3.19	3.30	3.31	—
237,8	Fur goods and miscellaneous apparel	122.38	127.43	131.04	133.95	—	3.39	3.53	3.65	3.68	—
239	Miscellaneous fabricated textile products ..	149.75	152.04	154.57	156.24	(*)	3.91	3.98	4.10	4.09	(*)
2391,2	Housefurnishings	118.99	122.42	126.20	130.10	—	3.19	3.23	3.42	3.46	—
26	PAPER AND ALLIED PRODUCTS	233.20	237.71	254.92	255.60	259.55	5.50	5.58	5.97	6.00	6.05
261,2,6	Paper and pulp mills	275.90	284.58	304.19	302.33	(*)	6.20	6.31	6.79	6.84	(*)
263	Paperboard mills	278.60	291.71	312.26	310.17	312.06	6.39	6.57	6.97	6.97	6.95
264	Miscellaneous converted paper products	202.13	201.87	216.77	219.47	218.15	4.93	4.96	5.30	5.34	5.36
2643	Bags, except textile bags	198.17	198.03	216.11	213.73	—	4.81	4.83	5.17	5.15	—
265	Paperboard containers and boxes	204.85	205.59	222.56	225.84	230.04	4.96	4.99	5.35	5.39	5.40
2651,2	Folding and setup paperboard boxes	195.76	194.40	207.83	211.86	—	4.74	4.73	5.17	5.18	—
2653	Corrugated and solid fiber boxes	217.57	220.06	236.74	241.68	—	5.23	5.29	5.61	5.66	—
2654	Sanitary food containers	193.39	193.17	213.70	217.85	—	4.66	4.70	5.04	5.09	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	41.4	42.3	43.3	42.5	42.7	3.9	4.5	5.1	4.8	—
2024	Ice cream and frozen desserts	39.8	40.6	42.4	41.6	—	—	—	—	—	—
2026	Fluid milk	41.9	43.1	44.7	43.9	—	—	—	—	—	—
203	Canned, cured, and frozen foods	40.0	39.7	37.7	38.7	—	4.0	4.4	3.5	4.6	—
2031,6	Canned, cured, and frozen sea foods	35.3	35.0	34.8	36.2	—	—	—	—	—	—
2032,3	Canned food, except sea foods	41.5	41.2	38.8	39.4	—	—	—	—	—	—
2037	Frozen fruits and vegetables	38.7	38.3	35.8	37.5	—	—	—	—	—	—
204	Grain mill products	44.3	44.8	43.8	43.4	(*)	6.4	6.7	5.9	5.8	—
2041	Flour and other grain mill products	47.1	47.9	46.0	46.0	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls	44.4	44.8	43.3	42.3	—	—	—	—	—	—
205	Bakery products	39.3	39.4	39.5	39.3	(*)	3.5	3.6	3.7	3.5	—
2051	Bread, cake, and related products	39.0	39.2	39.5	39.2	—	—	—	—	—	—
2052	Cookies and crackers	40.4	39.9	39.7	39.7	—	—	—	—	—	—
206	Sugar	40.8	41.1	40.4	40.5	—	3.9	4.9	3.5	3.6	—
207	Confectionery and related products	39.8	39.6	38.7	39.8	(*)	2.7	2.9	2.1	2.9	—
2071	Confectionery products	39.3	39.3	38.4	39.1	—	—	—	—	—	—
208	Beverages	41.0	40.8	41.4	40.8	40.3	4.4	4.6	5.0	4.6	—
2082	Malt liquors	43.5	43.0	43.5	42.3	—	—	—	—	—	—
2086	Bottled and canned soft drinks	40.2	39.6	41.2	40.4	—	—	—	—	—	—
209	Miscellaneous foods and kindred products	41.3	41.8	40.7	40.6	40.8	4.5	4.8	3.8	3.8	—
21	TOBACCO MANUFACTURES	37.3	37.8	36.2	38.3	39.0	1.1	1.3	1.1	2.2	—
211	Cigarettes	36.5	36.5	35.6	38.9	—	.8	1.1	1.2	2.8	—
212	Cigars	37.0	37.3	38.7	40.0	—	.7	.8	.4	.8	—
22	TEXTILE MILL PRODUCTS	39.6	39.4	40.1	40.3	40.4	3.1	3.0	3.3	3.5	—
221	Weaving mills, cotton	40.6	39.9	40.3	40.2	40.3	3.7	3.4	3.5	3.7	—
222	Weaving mills, synthetics	39.8	39.9	41.2	40.8	41.4	3.0	3.2	3.2	3.1	—
223	Weaving and finishing mills, wool	41.1	40.9	39.9	40.6	40.5	3.7	3.0	2.9	3.3	—
224	Narrow fabric mills	39.5	40.0	40.0	39.9	40.3	3.1	3.1	2.3	2.6	—
225	Knitting mills	38.2	38.1	38.5	38.9	(*)	2.6	2.4	2.8	2.8	—
2251	Women's hosiery, except socks	38.1	37.0	37.1	38.2	—	—	—	—	—	—
2252	Hosiery, nec	37.0	36.3	38.3	38.8	—	—	—	—	—	—
2253	Knit outerwear mills	37.6	37.8	37.4	38.0	—	—	—	—	—	—
2254	Knit underwear mills	38.3	38.2	37.2	37.6	—	—	—	—	—	—
226	Textile finishing, except wool	39.3	39.3	39.4	40.9	41.4	3.0	3.0	3.1	4.0	—
227	Floor covering mills	41.8	40.9	42.2	43.2	—	4.2	4.5	4.4	5.4	—
228	Yarn and thread mills	39.7	39.1	41.0	41.0	40.8	3.0	2.8	3.6	3.7	—
229	Miscellaneous textile goods	40.0	40.8	40.7	40.8	40.6	3.2	3.3	3.6	3.8	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.6	35.2	35.4	35.6	35.4	1.2	1.2	1.0	1.3	—
231	Men's and boys' suits and coats	35.5	36.3	35.8	35.7	35.3	1.0	1.0	.4	.5	—
232	Men's and boys' furnishings	36.7	35.8	36.1	36.2	36.0	1.1	1.1	.8	1.2	—
2321	Men's and boys' shirts and nightwear	36.8	35.8	35.8	35.9	—	1.0	1.1	.6	1.1	—
2327	Men's and boys' separate trousers	36.6	35.5	36.2	35.6	—	1.1	1.1	.9	1.1	—
2328	Men's and boys' work clothing	36.9	36.0	36.5	37.3	—	1.0	1.0	1.0	1.4	—
233	Women's and misses' outerwear	33.0	32.7	33.5	33.4	(*)	.9	.9	.9	1.1	—
2331	Women's and misses' blouses and waists	34.2	33.5	34.3	33.5	—	—	—	—	—	—
2335	Women's and misses' dresses	32.0	31.5	32.5	32.2	—	.7	.8	.8	1.0	—
2337	Women's and misses' suits and coats	32.5	32.6	33.0	33.7	—	1.0	1.0	1.1	1.5	—
2339	Women's and misses' outerwear, nec	34.4	34.3	35.1	35.1	—	1.1	1.1	1.1	1.3	—
234	Women's and children's undergarments	36.3	36.0	35.8	36.7	36.5	1.3	1.3	1.0	1.4	—
2341	Women's and children's underwear	36.4	36.1	36.1	36.9	—	—	—	—	—	—
2342	Corsets and allied garments	35.8	35.7	34.7	35.9	—	—	—	—	—	—
235	Hats, caps, and millinery	36.6	36.9	36.0	37.6	—	1.5	1.3	.8	1.7	—
236	Children's outerwear	35.5	35.0	35.3	35.4	35.4	1.6	1.2	1.4	1.8	—
2361	Children's dresses and blouses	33.9	34.3	35.5	34.0	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel	36.1	36.1	35.9	36.4	—	1.2	1.2	.7	1.0	—
239	Miscellaneous fabricated textile products	38.3	38.2	37.7	38.2	(*)	2.1	2.4	1.9	1.9	—
2391,2	Housefurnishings	37.3	37.9	36.9	37.6	—	—	—	—	—	—
26	PAPER AND ALLIED PRODUCTS	42.4	42.6	42.7	42.6	42.9	4.8	5.1	4.8	4.9	—
261,2,6	Paper and pulp mills	44.5	45.1	44.8	44.2	(*)	6.1	6.7	6.4	6.1	—
263	Paperboard mills	43.6	44.4	44.8	44.5	44.9	6.8	7.5	7.4	7.2	—
264	Miscellaneous converted paper products	41.0	40.7	40.9	41.1	40.7	3.7	3.6	3.4	3.6	—
2643	Bags, except textile bags	41.2	41.0	41.8	41.5	—	—	—	—	—	—
265	Paperboard containers and boxes	41.3	41.2	41.6	41.9	42.6	3.8	4.0	3.7	4.0	—
2651,2	Folding and setup paperboard boxes	41.3	41.1	40.2	40.9	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes	41.6	41.6	42.2	42.7	—	4.3	4.6	4.2	4.4	—
2654	Sanitary food containers	41.5	41.1	42.4	42.8	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
	NONDURABLE GOODS—Continued										
27	PRINTING AND PUBLISHING	\$215.27	\$218.86	\$229.59	\$232.09	\$236.22	\$5.71	\$5.79	\$6.09	\$6.14	\$6.20
271	Newspapers	216.43	221.54	228.46	228.46	230.84	6.31	6.44	6.68	6.68	6.73
272	Periodicals	219.64	228.69	240.90	240.96	—	5.78	5.94	6.39	6.46	—
273	Books	201.70	200.27	210.00	213.33	—	5.03	5.07	5.33	5.32	—
275	Commercial printing	222.69	226.58	236.84	242.19	(*)	5.71	5.78	6.12	6.21	(*)
2751	Commercial printing, except lithographic	215.67	219.35	230.47	233.58	—	5.53	5.61	5.94	6.02	—
2752	Commercial printing, lithographic	234.57	238.16	247.17	256.24	—	6.03	6.06	6.42	6.52	—
278	Blankbooks and bookbinding	169.12	174.15	183.06	185.02	188.10	4.37	4.50	4.67	4.72	4.75
274,6,7,9	Other publishing and printing ind.	217.16	218.50	238.12	238.68	241.25	5.67	5.69	6.09	6.12	6.17
28	CHEMICALS AND ALLIED PRODUCTS ...	243.72	253.68	267.90	268.32	273.14	5.93	6.04	6.44	6.45	6.55
281	Industrial chemicals	276.89	292.83	309.87	307.70	314.76	6.64	6.81	7.24	7.24	7.32
2812	Alkalies and chlorine	285.29	294.87	333.87	326.23	—	6.65	6.81	7.64	7.64	—
2818	Industrial organic chemicals, nec.	301.86	320.03	335.91	330.65	—	7.17	7.29	7.83	7.78	—
2819	Industrial inorganic chemicals, nec.	264.86	282.81	295.10	295.82	—	6.46	6.67	6.96	7.01	—
282	Plastics materials and synthetics	237.22	249.74	264.39	264.38	(*)	5.80	5.89	6.31	6.34	(*)
2821	Plastics materials and resins	258.83	269.55	284.26	285.55	—	6.09	6.14	6.58	6.61	—
2823,4	Synthetic fibers	214.92	228.11	241.08	239.72	—	5.40	5.51	5.88	5.89	—
283	Drugs	225.22	226.70	233.04	236.61	240.80	5.52	5.57	5.87	5.93	6.02
2834	Pharmaceutical preparations	219.78	221.68	227.94	230.10	—	5.40	5.46	5.80	5.84	—
284	Soap, cleaners, and toilet goods	227.86	230.68	245.63	246.24	254.82	5.64	5.71	6.05	6.05	6.20
2841	Soap and other detergents	302.40	304.50	330.23	332.71	—	7.20	7.25	7.77	7.81	—
2844	Toilet preparations	181.03	185.81	191.69	191.18	—	4.63	4.74	4.89	4.84	—
285	Paints and allied products	219.50	224.00	245.14	243.54	249.45	5.38	5.45	5.95	5.94	6.04
287	Agricultural chemicals	222.03	235.09	250.58	253.80	255.85	5.35	5.48	5.91	5.93	6.02
2871,2	Fertilizers, complete and mixing only ..	207.92	222.83	236.17	238.00	—	5.01	5.17	5.57	5.60	—
286,9	Other chemical products	228.11	234.36	242.08	248.71	253.50	5.55	5.58	5.89	5.95	6.05
2892	Explosives	223.15	224.35	229.96	229.03	—	5.39	5.38	5.65	5.74	—
29	PETROLEUM AND COAL PRODUCTS ...	299.46	309.02	336.87	328.95	335.40	7.13	7.22	7.78	7.74	7.80
291	Petroleum refining	321.21	335.62	366.37	356.16	362.51	7.74	7.86	8.54	8.48	8.57
295,9	Other petroleum and coal products	238.58	235.64	256.19	256.52	265.05	5.51	5.48	5.77	5.83	5.89
30	RUBBER AND PLASTICS PRODUCTS, NEC	176.44	198.37	205.82	208.68	213.09	4.40	4.85	5.12	5.14	5.21
301	Tires and inner tubes	242.39	311.66	310.32	315.51	(*)	5.69	6.79	7.20	7.22	(*)
302,3,6	Other rubber products	185.72	188.87	199.69	202.51	(*)	4.62	4.71	5.03	5.05	(*)
302	Rubber footwear	123.46	129.13	127.08	133.96	—	3.42	3.49	3.53	3.65	—
307	Miscellaneous plastics products	166.76	167.93	176.96	178.70	182.96	4.19	4.23	4.48	4.49	4.54
31	LEATHER AND LEATHER PRODUCTS ...	127.31	126.32	133.92	135.76	136.16	3.45	3.48	3.60	3.63	3.67
311	Leather tanning and finishing	179.21	177.87	185.96	188.96	(*)	4.56	4.62	4.83	4.87	(*)
314	Footwear, except rubber	119.72	118.83	126.48	128.69	130.20	3.28	3.31	3.40	3.45	3.50
312,3,5-7,9	Other leather products	128.00	127.72	134.32	135.40	(*)	3.45	3.48	3.66	3.63	(*)
316	Luggage	132.46	132.13	139.80	143.25	—	3.58	3.66	3.83	3.82	—
317	Handbags and personal leather goods ..	122.72	121.03	129.93	131.67	—	3.29	3.28	3.55	3.53	—
—	TRANSPORTATION AND PUBLIC UTILITIES	265.02	265.06	280.89	281.00	282.80	6.56	6.61	6.97	6.99	7.07
4011	RAILROAD TRANSPORTATION: Class I railroads ²	300.67	308.52	321.82	(*)	—	6.96	6.98	7.59	(*)	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	226.18	220.49	243.49	245.09	—	5.53	5.54	5.91	5.92	—
413	Intercity highway transportation	281.64	259.46	292.39	290.97	—	6.92	6.81	7.44	7.48	—
42	TRUCKING AND WAREHOUSING	266.15	267.24	282.46	285.89	—	6.46	6.55	6.94	6.99	—
421,3	Trucking and trucking terminals	272.17	273.62	289.57	293.04	—	6.59	6.69	7.08	7.13	—
422	Public warehousing	188.42	192.15	200.47	199.16	—	4.77	4.84	5.18	5.20	—
46	PIPE LINE TRANSPORTATION	308.16	312.91	335.65	334.08	—	7.39	7.54	8.03	8.05	—
48	COMMUNICATION	260.17	261.10	272.16	271.49	—	6.57	6.61	6.72	6.72	—
481	Telephone communication	266.90	266.74	277.85	276.08	—	6.74	6.77	6.81	6.80	—
4817	Switchboard operating employees ³	195.62	193.00	209.72	195.65	—	5.67	5.71	5.73	5.59	—
4818	Line construction employees ⁴	346.90	339.98	360.19	356.71	—	7.92	7.87	8.04	7.98	—
482	Telegraph communication ⁵	277.69	271.76	306.87	(*)	—	6.74	6.71	7.12	(*)	—
483	Radio and television broadcasting	234.24	239.79	246.87	248.43	—	5.93	6.04	6.33	6.37	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 P	Sept. 1977 P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	37.7	37.8	37.7	37.8	38.1	2.6	2.9	2.7	3.0	—
271	Newspapers	34.3	34.4	34.2	34.2	34.3	1.6	1.8	1.7	1.7	—
272	Periodicals	38.0	38.5	37.7	37.3	—	2.3	3.3	2.6	3.0	—
273	Books	40.1	39.5	39.4	40.1	—	3.3	3.1	4.2	4.5	—
275	Commercial printing	39.0	39.2	38.7	39.0	(*)	3.1	3.5	3.1	3.5	—
2751	Commercial printing, except lithographic	39.0	39.1	38.8	38.8	—	2.9	3.5	3.0	3.2	—
2752	Commercial printing, lithographic	38.9	39.3	38.5	39.3	—	3.3	3.5	3.1	3.8	—
278	Blankbooks and bookbinding	38.7	38.7	39.2	39.2	39.6	2.2	2.7	2.3	2.6	—
274,6,7,9	Other publishing and printing ind.	38.3	38.4	39.1	39.0	39.1	2.9	3.0	2.9	3.0	—
28	CHEMICALS AND ALLIED PRODUCTS	41.1	42.0	41.6	41.6	41.7	3.0	3.6	3.5	3.4	—
281	Industrial chemicals	41.7	43.0	42.8	42.5	43.0	3.4	4.5	4.0	3.8	—
2812	Alkalies and chlorine	42.9	43.3	43.7	42.7	—	—	—	—	—	—
2818	Industrial organic chemicals, nec	42.1	43.9	42.9	42.5	—	3.2	4.1	4.2	3.7	—
2819	Industrial inorganic chemicals, nec.	41.0	42.4	42.4	42.2	—	3.6	5.0	3.6	3.5	—
282	Plastics materials and synthetics	40.9	42.4	41.9	41.7	(*)	2.8	3.2	3.5	3.4	—
2821	Plastics materials and resins	42.5	43.9	43.2	43.2	—	4.5	5.1	4.7	4.8	—
2823,4	Synthetic fibers	39.8	41.4	41.0	40.7	—	1.5	1.8	2.7	2.5	—
283	Drugs	40.8	40.7	39.7	39.9	40.0	2.7	2.9	2.5	2.6	—
2834	Pharmaceutical preparations	40.7	40.6	39.3	39.4	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	40.4	40.4	40.6	40.7	41.1	2.7	3.0	2.7	2.8	—
2841	Soap and other detergents	42.0	42.0	42.5	42.6	—	—	—	—	—	—
2844	Toilet preparations	39.1	39.2	39.2	39.5	—	—	—	—	—	—
285	Paints and allied products	40.8	41.1	41.2	41.0	41.3	3.0	3.1	3.7	3.4	—
287	Agricultural chemicals	41.5	42.9	42.4	42.8	42.5	3.5	4.8	4.8	4.6	—
2871,2	Fertilizers, complete and mixing only	41.5	43.1	42.4	42.5	—	—	—	—	—	—
286,9	Other chemical products	41.1	42.0	41.1	41.8	41.9	3.0	3.4	3.2	3.5	—
2892	Explosives	41.4	41.7	40.7	39.9	—	—	—	—	—	—
29	PETROLEUM AND COAL PRODUCTS	42.0	42.8	43.3	42.5	43.0	3.5	3.5	4.1	3.8	—
291	Petroleum refining	41.5	42.7	42.9	42.0	42.3	2.7	2.9	3.4	3.0	—
295,9	Other petroleum and coal products	43.3	43.0	44.4	44.0	45.0	5.6	5.3	5.8	6.0	—
30	RUBBER AND PLASTICS PRODUCTS, NEC	40.1	40.9	40.2	40.6	40.9	3.1	4.1	3.3	3.5	—
301	Tires and inner tubes	42.6	45.9	43.1	43.7	(*)	4.9	8.0	5.0	5.3	—
302,3,6	Other rubber products	40.2	40.1	39.7	40.1	(*)	2.9	3.5	2.9	3.1	—
302	Rubber footwear	36.1	37.0	36.0	36.7	—	.3	1.6	1.0	1.2	—
307	Miscellaneous plastics products	39.8	39.7	39.5	39.8	40.3	3.0	3.2	2.9	3.1	—
31	LEATHER AND LEATHER PRODUCTS	36.9	36.3	37.2	37.4	37.1	1.6	1.6	1.6	2.0	—
311	Leather tanning and finishing	39.3	38.5	38.5	38.8	(*)	2.8	2.5	2.5	2.7	—
314	Footwear, except rubber	36.5	35.9	37.2	37.3	37.2	1.4	1.4	1.5	1.8	—
312,3,5-7,9	Other leather products	37.1	36.7	36.7	37.3	(*)	1.8	1.7	1.7	2.0	—
316	Luggage	37.0	36.1	36.5	37.5	—	1.6	1.5	2.4	2.5	—
317	Handbags and personal leather goods	37.3	36.9	36.6	37.3	—	2.2	2.0	1.7	2.3	—
—	TRANSPORTATION AND PUBLIC UTILITIES	40.4	40.1	40.3	40.2	40.0	—	—	—	—	—
4011	RAILROAD TRANSPORTATION: Class I railroads ²	43.2	44.2	42.4	(*)	—	—	—	—	—	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	40.9	39.8	41.2	41.4	—	—	—	—	—	—
413	Intercity highway transportation	40.7	38.1	39.3	38.9	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	41.2	40.8	40.7	40.9	—	—	—	—	—	—
421,3	Trucking and trucking terminals	41.3	40.9	40.9	41.1	—	—	—	—	—	—
422	Public warehousing	39.5	39.7	38.7	38.3	—	—	—	—	—	—
46	PIPE LINE TRANSPORTATION	41.7	41.5	41.8	41.5	—	—	—	—	—	—
48	COMMUNICATION	39.6	39.5	40.5	40.4	—	—	—	—	—	—
481	Telephone communication	39.6	39.4	40.8	40.6	—	—	—	—	—	—
4817	Switchboard operating employees ³	34.5	33.8	36.6	35.0	—	—	—	—	—	—
4818	Line construction employees ⁴	43.8	43.2	44.8	44.7	—	—	—	—	—	—
482	Telegraph communication ⁵	41.2	40.5	43.1	(*)	—	—	—	—	—	—
483	Radio and television broadcasting	39.5	39.7	39.0	39.0	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	\$275.15	\$278.30	\$294.11	\$290.75	-	\$6.63	\$6.69	\$7.07	\$7.04	-
491	Electric companies and systems	278.56	280.64	304.73	296.90	-	6.68	6.73	7.17	7.12	-
492	Gas companies and systems	247.44	250.08	268.21	268.37	-	6.14	6.19	6.59	6.61	-
493	Combination companies and systems	311.22	314.16	319.09	319.02	-	7.41	7.48	7.84	7.80	-
494-7	Water, steam, and sanitary systems	222.38	228.60	236.44	235.15	-	5.32	5.43	5.67	5.68	-
-	WHOLESALE AND RETAIL TRADE	136.51	135.74	145.95	145.18	\$143.76	3.98	4.04	4.28	4.27	\$4.33
50	WHOLESALE TRADE	203.19	204.61	216.84	216.84	218.44	5.21	5.26	5.56	5.56	5.63
501	Motor vehicles and automotive equipment	184.54	186.84	193.83	195.32	-	4.66	4.73	4.97	4.97	-
502	Drugs, chemicals, and allied products	211.31	215.27	229.03	228.10	-	5.62	5.68	5.98	5.94	-
503	Dry goods and apparel	173.70	175.79	180.64	181.08	-	4.72	4.79	5.06	5.03	-
504	Groceries and related products	194.54	200.07	218.74	216.33	-	5.04	5.13	5.58	5.59	-
506	Electrical goods	226.08	221.09	224.83	225.03	-	5.61	5.64	5.75	5.77	-
507	Hardware, plumbing and heating equipment	193.50	193.54	207.09	206.58	-	5.00	5.04	5.31	5.27	-
508	Machinery, equipment, and supplies	222.80	224.64	237.58	236.78	-	5.57	5.63	5.31	5.27	-
509	Miscellaneous wholesalers	199.54	199.79	213.12	213.68	-	5.21	5.23	5.55	5.55	-
52-59	RETAIL TRADE	117.15	115.88	125.57	124.53	122.29	3.55	3.61	3.84	3.82	3.87
53	Retail general merchandise †	109.65	107.92	119.45	118.63	-	3.47	3.47	3.78	3.79	-
531	Department stores †	112.32	110.57	123.64	122.76	-	3.60	3.59	3.95	3.96	-
532	Mail order houses	148.35	146.63	157.64	161.12	-	4.30	4.30	4.65	4.67	-
533	Variety stores	87.82	86.98	93.02	90.29	-	2.87	2.88	3.07	3.03	-
54	Food stores	145.58	145.64	157.72	155.31	-	4.32	4.40	4.68	4.65	-
541-3	Grocery, meat, and vegetable stores	149.94	149.97	162.52	160.08	-	4.41	4.49	4.78	4.75	-
56	Apparel and accessory stores	99.21	98.75	104.07	103.77	-	3.19	3.27	3.39	3.38	-
561	Men's and boys' clothing and furnishings	125.95	122.18	131.20	128.58	-	3.84	3.83	3.94	3.92	-
562	Women's ready-to-wear stores	87.01	85.26	91.20	90.28	-	2.91	2.94	3.05	3.05	-
565	Family clothing stores	96.71	96.10	105.88	103.96	-	3.07	3.12	3.34	3.29	-
566	Shoe stores	100.73	104.65	103.01	108.22	-	3.26	3.50	3.54	3.56	-
57	Furniture and home furnishings stores	153.72	153.61	159.20	158.84	-	4.20	4.22	4.41	4.40	-
571	Furniture and home furnishings	157.01	157.68	163.17	163.26	-	4.29	4.32	4.52	4.51	-
58	Eating and drinking places ⁶	77.06	76.45	82.65	82.66	-	2.63	2.74	2.89	2.88	-
52,55,59	Other retail trade	146.20	143.78	156.61	155.40	-	3.93	3.95	4.21	4.20	-
52	Building materials and farm equipment	163.62	163.98	177.02	176.11	-	4.05	4.12	4.36	4.37	-
551,2	Motor vehicle dealers	194.13	189.68	211.29	210.65	-	4.89	4.79	5.39	5.36	-
553,9	Other automotive and accessory dealers	162.81	163.96	183.23	179.49	-	4.05	4.13	4.48	4.41	-
591	Drug stores and proprietary stores	109.10	106.64	114.99	113.88	-	3.42	3.44	3.56	3.57	-
594	Book and stationery stores	124.95	118.86	132.26	133.77	-	3.57	3.58	3.89	3.90	-
598	Fuel and ice dealers	173.31	175.67	187.23	184.47	-	4.41	4.47	4.74	4.73	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁷	162.36	160.67	168.45	168.82	168.63	4.40	4.39	4.59	4.60	4.62
60	Banking	136.90	135.42	141.99	142.35	-	3.72	3.71	3.89	3.90	-
61	Credit agencies other than banks	146.26	143.96	153.44	153.82	-	3.89	3.87	4.07	4.08	-
612	Savings and loan associations	142.48	138.71	147.31	146.57	-	3.83	3.79	3.96	3.94	-
62	Security, commodity brokers and services	292.99	289.92	291.04	(*)	-	7.63	7.55	7.72	(*)	-
63	Insurance carriers	172.21	172.50	180.05	180.53	-	4.58	4.60	4.84	4.84	-
631	Life insurance	169.05	168.81	176.01	176.49	-	4.52	4.55	4.77	4.77	-
632	Accident and health insurance	166.17	165.35	174.84	177.08	-	4.35	4.34	4.65	4.66	-
633	Fire, marine, and casualty insurance	175.22	176.72	183.14	184.01	-	4.66	4.70	4.91	4.92	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.5	41.6	41.6	41.3	-	-	-	-	-	
491	Electric companies and systems	41.7	41.7	42.5	41.7	-	-	-	-	-	
492	Gas companies and systems	40.3	40.4	40.7	40.6	-	-	-	-	-	
493	Combination companies and systems	42.0	42.0	40.7	40.9	-	-	-	-	-	
494-7	Water, steam, and sanitary systems	41.8	42.1	41.7	41.4	-	-	-	-	-	
-	WHOLESALE AND RETAIL TRADE	34.3	33.6	34.1	34.0	33.2	-	-	-	-	
50	WHOLESALE TRADE	39.0	38.9	39.0	39.0	38.8	-	-	-	-	
501	Motor vehicles and automotive equipment	39.6	39.5	39.0	39.3	-	-	-	-	-	
502	Drugs, chemicals, and allied products	37.6	37.9	38.3	38.4	-	-	-	-	-	
503	Dry goods and apparel	36.8	36.7	36.7	35.7	36.0	-	-	-	-	
504	Groceries and related products	38.6	39.0	39.2	38.7	-	-	-	-	-	
506	Electrical goods	40.3	39.2	39.1	39.0	-	-	-	-	-	
507	Hardware; plumbing and heating equipment	38.7	38.4	39.0	39.2	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.0	39.9	40.2	40.2	-	-	-	-	-	
509	Miscellaneous wholesalers	38.3	38.2	38.4	38.5	-	-	-	-	-	
52-59	RETAIL TRADE	33.0	32.1	32.7	32.6	31.6	-	-	-	-	
53	Retail general merchandise	31.6	31.1	31.6	31.3	-	-	-	-	-	
531	Department stores	31.2	30.8	31.3	31.0	-	-	-	-	-	
532	Mail order houses	34.5	34.1	33.9	34.5	-	-	-	-	-	
533	Variety stores	30.6	30.2	30.3	29.8	-	-	-	-	-	
54	Food stores	33.7	33.1	33.7	33.4	-	-	-	-	-	
541-3	Grocery, meat, and vegetable stores	34.0	33.4	34.0	33.7	-	-	-	-	-	
56	Apparel and accessory stores	31.1	30.2	30.7	30.7	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.8	31.9	33.3	32.8	-	-	-	-	-	
562	Women's ready-to-wear stores	29.9	29.0	29.9	29.6	-	-	-	-	-	
565	Family clothing stores	31.5	30.8	31.7	31.6	-	-	-	-	-	
566	Shoe stores	30.9	29.9	29.1	30.4	-	-	-	-	-	
57	Furniture and home furnishings stores	36.6	36.4	36.1	36.1	-	-	-	-	-	
571	Furniture and home furnishings	36.6	36.5	36.1	36.2	-	-	-	-	-	
58	Eating and drinking places ⁶	29.3	27.9	28.6	28.7	-	-	-	-	-	
52,55,59	Other retail trade	37.2	36.4	37.2	37.0	-	-	-	-	-	
52	Building materials and farm equipment	40.4	39.8	40.6	40.3	-	-	-	-	-	
551,2	Motor vehicle dealers	39.7	39.6	39.2	39.3	-	-	-	-	-	
553,9	Other automotive and accessory dealers	40.2	39.7	40.9	40.7	-	-	-	-	-	
591	Drug stores and proprietary stores	31.9	31.0	32.3	31.9	-	-	-	-	-	
594	Book and stationery stores	35.0	33.2	34.0	34.3	-	-	-	-	-	
598	Fuel and ice dealers	39.3	39.3	39.5	39.0	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE⁷	36.9	36.6	36.7	36.7	36.5	-	-	-	-	
60	Banking	36.8	36.5	36.5	36.5	-	-	-	-	-	
61	Credit agencies other than banks	37.6	37.2	37.7	37.7	-	-	-	-	-	
612	Savings and loan associations	37.2	36.6	37.2	37.2	-	-	-	-	-	
62	Security, commodity brokers and services	38.4	38.4	37.7	(*)	-	-	-	-	-	
63	Insurance carriers	37.6	37.5	37.2	37.3	-	-	-	-	-	
631	Life insurance	37.4	37.1	36.9	37.0	-	-	-	-	-	
632	Accident and health insurance	38.2	38.1	37.6	38.0	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.6	37.6	37.3	37.4	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977	Aug. 1976	Sept. 1976	July 1977	Aug. p 1977	Sept. p 1977
-	SERVICES	\$146.88	\$148.07	\$158.18	\$157.72	\$158.84	\$4.32	\$4.42	\$4.68	\$4.68	\$4.77
701	Hotels and other lodging places: Hotels, tourist courts, and motels ⁶	98.94	96.39	103.68	103.04	-	2.98	3.06	3.21	3.21	-
721	Personal services: Laundries and dry cleaning plants	115.10	115.83	123.55	124.25	-	3.27	3.30	3.49	3.50	-
722	Photographic studios	118.65	118.33	125.06	123.97	-	3.50	3.47	3.86	3.85	-
781	Motion pictures: Motion picture filming and distributing	277.22	281.22	338.52	351.88	-	6.68	6.76	8.57	8.71	-
806	Hospitals	144.97	145.94	162.02	161.98	-	4.19	4.23	4.71	4.75	-

¹ For coverage of series, see footnote 1, table B-2.

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

³ Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1975, such employees made up 30 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁴ Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft

persons; and laborers. In 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Data relate to nonsupervisory employees except messengers.

⁶ Money payments only; tips, not included.

⁷ Data for nonoffice sales agents excluded from all series in this division.

¹ Beginning February 1977 data not strictly comparable with those previously published due to change in pay practices of a large employer.

*Not available.

p=preliminary.

**Revised earnings data for January-June 1977 are:

SIC	Jan.	Feb.	Mar.	Apr.	May	June
	Average weekly earnings					
34	\$221.82	\$227.06	\$232.15	\$231.26	\$236.57	\$243.36
342	218.40	222.22	225.91	226.18	229.75	227.51
3429	233.86	234.52	240.53	241.78	243.67	239.90
	Average hourly earnings					
34	\$5.63	\$5.62	\$5.69	\$5.71	\$5.77	\$5.85
342	5.46	5.46	5.51	5.53	5.59	5.59
3429	5.76	5.72	5.81	5.84	5.90	5.88

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^P	Sept. 1977 ^P
	SERVICES	34.0	33.5	33.8	33.7	33.3	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	33.2	31.5	32.3	32.1	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants	35.2	35.1	35.4	35.5	-	-	-	-	-	
722	Photographic studios	33.9	34.1	32.4	32.2	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing ...	41.5	41.6	39.5	40.4	-	-	-	-	-	
806	Hospitals	34.6	34.5	34.4	34.1	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

C-3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government

[Employment in thousands—includes both supervisory and nonsupervisory employees]

Item	1976							1977					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Executive Branch													
Total employment	2,707.8	2,724.1	2,704.2	2,668.0	2,661.1	2,670.3	2,674.4	2,645.8	2,645.9	2,662.8	2,664.0	2,675.8	2,712.3
Average weekly hours	39.3	39.6	39.4	39.3	39.3	39.6	40.4	39.4	39.5	39.3	39.2	39.2	39.3
Average overtime hours . . . . .	.9	1.0	1.0	1.1	1.4	1.2	2.0	1.0	1.0	.9	.9	.9	1.0
Indexes (1967=100):													
Average weekly earnings	195.7	196.1	196.5	199.5	209.7	208.6	215.9	208.9	209.2	208.7	208.7	209.2	208.9
Average hourly earnings	196.2	195.1	196.5	200.0	207.0	207.6	210.5	208.9	208.6	209.2	209.7	210.3	209.5
Department of Defense													
Total employment	936.7	938.5	929.3	917.2	918.0	920.4	919.6	918.4	917.6	918.4	917.4	920.0	932.0
Average weekly hours	40.0	40.1	40.0	39.9	39.9	40.2	40.0	39.9	40.0	39.9	39.6	39.9	39.9
Average overtime hours . . . . .	.7	.6	.7	.9	.8	.8	.7	.7	.7	.7	.7	.7	.8
Indexes (1967=100):													
Average weekly earnings	191.2	188.2	191.5	195.1	201.5	204.4	203.7	202.3	204.2	203.9	204.3	204.8	203.7
Average hourly earnings	192.6	189.1	192.9	197.0	203.5	204.9	205.2	204.4	205.7	206.0	207.9	206.8	205.7
Postal service													
Total employment	672.8	670.7	667.8	662.8	657.9	664.9	685.7	650.0	649.9	652.3	650.7	652.9	655.6
Average weekly hours	39.0	39.7	39.4	39.6	42.1	40.6	43.8	40.4	40.4	39.6	39.7	39.3	39.3
Average overtime hours . . . . .	.9	1.0	1.1	1.4	2.9	2.2	5.5	1.9	1.4	1.2	1.2	1.0	1.1
Indexes (1967=100):													
Average weekly earnings	220.9	224.5	223.8	226.8	243.7	237.6	267.8	240.0	238.0	233.3	234.9	235.6	235.0
Average hourly earnings	218.6	218.3	219.2	221.0	223.5	225.9	236.0	229.3	227.4	227.4	228.4	231.4	230.8
Other agencies													
Total employment	1,098.3	1,114.9	1,107.1	1,088.0	1,085.2	1,085.0	1,069.1	1,077.4	1,087.4	1,092.1	1,095.9	1,102.9	1,124.7
Average weekly hours	38.9	39.1	38.9	38.6	38.7	38.6	38.4	38.2	38.5	38.5	38.6	38.6	38.6
Average overtime hours	1.1	1.2	1.1	1.2	1.1	1.0	.9	.8	.9	.9	.9	1.0	1.1
Indexes (1967=100):													
Average weekly earnings	185.4	187.3	185.6	188.6	199.0	197.5	197.4	197.2	197.5	198.2	198.0	198.7	197.5
Average hourly earnings	184.9	185.9	185.1	189.6	199.5	198.5	199.5	200.2	199.0	199.8	199.0	199.8	198.5

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of the executive branch of the Federal Government; the data cover both salaried workers and hourly paid wage-board employees. Since these

averages relate to hours and earnings of all workers, both supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

C-4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry

Major industry group	Average hourly earnings excluding overtime ¹				
	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
MANUFACTURING	\$5.02	\$5.09	\$5.43	\$5.41	\$5.48
DURABLE GOODS	5.37	5.43	5.79	5.76	5.83
Ordnance and accessories	5.58	5.69	6.04	6.12	-
Lumber and wood products	4.61	4.66	4.83	4.87	-
Furniture and fixtures	3.90	3.94	4.18	4.21	-
Stone, clay, and glass products	5.09	5.15	5.50	5.51	-
Primary metal industries	6.64	6.66	7.29	7.18	-
Fabricated metal products*	5.24	5.31	5.59	5.61	-
Machinery, except electrical	5.57	5.63	5.91	5.90	-
Electrical equipment and supplies	4.80	4.87	5.19	5.22	-
Transportation equipment	6.22	6.31	6.76	6.74	-
Instruments and related products	4.75	4.78	5.07	5.07	-
Miscellaneous manufacturing industries	3.90	3.91	4.25	4.21	-
NONDURABLE GOODS	4.53	4.61	4.91	4.92	4.96
Food and kindred products	4.74	4.76	5.07	5.10	-
Tobacco manufactures	4.56	4.58	5.59	5.28	-
Textile mill products	3.60	3.64	3.86	3.88	-
Apparel and other textile products	3.36	3.43	3.54	3.56	-
Paper and allied products	5.21	5.27	5.65	5.67	-
Printing and publishing	(²)	(²)	(²)	(²)	-
Chemicals and allied products	5.72	5.79	6.18	6.20	-
Petroleum and coal products	6.85	6.94	7.43	7.41	-
Rubber and plastics products, nec	4.24	4.62	4.92	4.93	-
Leather and leather products	3.37	3.41	3.52	3.54	-

¹ Derived by assuming that overtime hours are paid at the rate of time and one-half.

² Not available as average overtime rates are significantly above time and one-half. Inclusion of data for the group in the nondurable goods total has little effect.

p = preliminary.

* Fabricated metal products (SIC 34) revised data for January-June 1977 listed in order are: \$5.42, \$5.42, \$5.47, \$5.49, \$5.53 and \$5.59.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry division, in current and 1967 dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings					
	Aug. 1976	July 1977	Aug. 1977 ^p	Worker with no dependents			Married worker with 3 dependents		
				Aug. 1976	July 1977	Aug. 1977 ^p	Aug. 1976	July 1977	Aug. 1977 ^p
TOTAL PRIVATE:									
Current dollars	\$178.97	\$191.63	\$191.46	\$145.84	\$158.60	\$158.48	\$158.52	\$174.77	\$174.64
1967 dollars	104.11	104.95	104.45	84.84	86.86	86.46	92.22	95.71	95.28
MINING:									
Current dollars	259.15	309.81	304.34	204.30	237.31	233.75	219.30	262.42	258.61
1967 dollars	150.76	169.67	166.03	118.85	129.96	127.52	127.57	143.71	141.09
CONTRACT CONSTRUCTION:									
Current dollars	292.21	302.40	301.07	227.74	232.48	231.62	244.58	257.26	256.34
1967 dollars	169.99	165.61	164.25	132.48	127.32	126.36	142.28	140.89	139.85
MANUFACTURING:									
Current dollars	208.40	226.57	227.13	167.15	183.18	183.58	180.63	201.18	201.60
1967 dollars	121.23	124.08	123.91	97.24	100.32	100.15	105.08	110.18	109.98
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	265.02	280.89	281.00	208.50	218.61	218.68	223.84	241.88	241.96
1967 dollars	154.17	153.83	153.30	121.29	119.72	119.30	130.22	132.46	132.00
WHOLESALE AND RETAIL TRADE:									
Current dollars	136.51	145.95	145.18	114.43	124.66	124.08	127.38	137.41	136.69
1967 dollars	79.41	79.93	79.20	66.57	68.27	67.69	74.10	75.25	74.57
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	162.36	168.45	168.82	133.85	141.70	141.98	145.78	156.48	156.77
1967 dollars	94.45	92.25	92.10	77.87	77.60	77.46	84.81	85.70	85.53
SERVICES:									
Current dollars	146.88	158.18	157.72	122.22	133.85	133.51	134.44	148.38	148.02
1967 dollars	85.45	86.63	86.04	71.10	73.30	72.84	78.21	81.26	80.75
CONSUMER PRICE INDEX (All items, 1967 = 100)	171.9	182.6	183.3	NOTE: The Consumer Price Index is an estimate of the average change in prices of goods and services purchased by urban wage earners and clerical workers.					

¹For coverage of series, see footnote 1, table B-2.

p = preliminary (applicable to earnings data only).

ESTABLISHMENT DATA HOURS AND EARNINGS

C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group

(1967 = 100)

Industry division and group	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^p	Sept. 1977 ^p
	Hours				
TOTAL	114.6	113.9	117.8	118.2	117.6
GOODS-PRODUCING	98.7	99.7	102.0	103.1	104.3
MINING	117.8	133.5	142.6	138.8	146.5
CONTRACT CONSTRUCTION	115.6	110.5	123.7	123.8	121.3
MANUFACTURING	95.0	96.9	96.8	98.3	99.8
DURABLE GOODS	93.2	95.4	96.7	97.3	99.8
Ordnance and accessories	39.4	39.0	39.7	40.1	39.7
Lumber and wood products	102.9	101.7	108.4	109.5	108.1
Furniture and fixtures	104.0	104.9	104.3	109.5	110.7
Stone, clay, and glass products	102.7	102.4	107.9	108.6	106.4
Primary metal industries	88.9	90.1	88.9	87.8	88.7
Fabricated metal products	98.9	100.9	101.3	103.6	106.1
Machinery, except electrical	93.3	96.2	99.6	100.4	103.6
Electrical equipment and supplies	91.5	93.3	95.1	97.9	100.6
Transportation equipment	87.3	92.8	94.1	89.3	96.4
Instruments and related products	108.0	108.6	109.9	110.7	112.5
Miscellaneous manufacturing	95.2	97.3	88.6	95.1	96.2
NONDURABLE GOODS	97.6	99.1	96.9	99.7	99.9
Food and kindred products	107.5	108.4	98.7	104.4	104.1
Tobacco manufactures	93.6	94.8	65.7	68.0	82.8
Textile mill products	97.1	96.3	97.7	99.9	100.5
Apparel and other textile products	89.3	88.3	84.7	88.1	87.8
Paper and allied products	97.9	98.2	100.1	101.2	101.4
Printing and publishing	93.0	94.2	94.3	94.9	96.2
Chemicals and allied products	100.2	101.2	103.6	103.7	103.4
Petroleum and coal products	115.7	116.8	126.5	124.6	124.0
Rubber and plastics products, nec	106.5	127.7	129.3	130.7	133.4
Leather and leather products	74.8	72.0	69.0	72.4	71.1
SERVICE-PRODUCING	125.7	123.8	128.8	128.7	126.9
TRANSPORTATION AND PUBLIC UTILITIES	104.2	104.2	104.9	104.8	104.5
WHOLESALE AND RETAIL TRADE	121.7	120.0	124.4	124.3	122.1
WHOLESALE TRADE	116.0	115.5	118.9	118.8	118.1
RETAIL TRADE	124.0	121.7	126.4	126.3	123.5
FINANCE, INSURANCE, AND REAL ESTATE	129.6	127.8	134.7	134.8	133.2
SERVICES	139.8	137.2	144.0	144.0	141.8

¹For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry division and major manufacturing group—Continued**

(1967 = 100)

Industry division and group	Aug. 1976	Sept. 1976	July 1977	Aug. 1977 ^b	Sept. 1977 ^b
	Payrolls				
TOTAL	209.2	211.0	231.1	232.0	234.6
GOODS-PRODUCING	185.1	189.1	206.2	208.5	213.6
MINING	232.4	276.3	308.8	299.0	323.3
CONTRACT CONSTRUCTION	216.6	210.0	240.7	242.5	241.4
MANUFACTURING	175.2	181.8	193.5	196.3	202.3
DURABLE GOODS	173.3	179.8	194.1	195.1	203.0
Ordnance and accessories	71.4	71.6	77.7	79.6	79.4
Lumber and wood products	210.2	209.1	232.3	237.2	236.6
Furniture and fixtures	179.1	182.5	192.5	204.9	209.5
Stone, clay, and glass products	195.4	197.3	222.9	224.7	220.8
Primary metal industries	184.3	187.7	200.3	198.6	202.5
Fabricated metal products*	181.4	187.9	198.6	204.1	211.2
Machinery, except electrical	169.2	176.9	192.6	194.6	204.0
Electrical equipment and supplies	163.2	168.9	183.2	190.2	196.6
Transportation equipment	165.7	180.3	195.8	184.9	204.3
Instruments and related products	185.6	187.8	200.5	202.3	208.1
Miscellaneous manufacturing	162.0	166.4	163.4	175.0	178.6
NONDURABLE GOODS	178.6	185.2	192.4	198.4	201.1
Food and kindred products	203.0	206.2	199.1	212.5	214.1
Tobacco manufactures	190.6	194.5	164.6	193.2	191.9
Textile mill products	176.8	176.9	191.0	196.6	198.9
Apparel and other textile products	150.5	151.7	149.9	157.2	159.4
Paper and allied products	187.5	190.8	208.2	211.2	213.6
Printing and publishing	161.9	166.4	175.3	177.7	182.1
Chemicals and allied products	191.4	196.8	214.8	215.7	218.2
Petroleum and coal products	230.7	236.0	275.1	269.6	270.6
Rubber and plastics products, nec	170.8	225.5	241.2	244.7	253.0
Leather and leather products	124.7	121.2	120.2	127.2	126.3
SERVICE-PRODUCING	229.8	229.9	252.5	252.3	252.6
TRANSPORTATION AND PUBLIC UTILITIES	211.3	212.9	225.9	226.3	228.5
WHOLESALE AND RETAIL TRADE	215.6	215.8	237.3	236.5	235.6
WHOLESALE TRADE	209.9	211.0	229.8	229.5	231.0
RETAIL TRADE	219.1	218.6	241.3	240.3	238.1
FINANCE, INSURANCE, AND REAL ESTATE	220.7	217.1	239.6	240.1	238.4
SERVICES	263.9	265.0	294.2	294.3	295.7

¹ For coverage of series, see footnote 1, table B-2.
p=preliminary.

* Fabricated metal products (SIC 34) revised data for January-June 1977 listed in order
are: 180.6, 183.9, 190.6, 191.2, 198.4 and 207.8.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

C-7. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

Industry	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL PRIVATE	36.0	36.1	36.2	36.2	35.8	36.3	36.3	36.2	36.3	36.2	36.1	36.0	35.9
MINING	43.5	43.3	43.3	43.7	42.9	43.6	44.4	44.4	44.0	44.0	44.8	44.3	45.7
CONTRACT CONSTRUCTION	35.9	37.3	37.4	37.3	35.4	37.8	37.1	37.3	37.4	36.8	36.8	36.3	36.1
MANUFACTURING	39.7	39.9	40.1	40.0	39.5	40.3	40.4	40.3	40.4	40.5	40.3	40.2	40.0
<i>Overtime hours</i>	3.0	2.9	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.3	3.3
DURABLE GOODS	40.2	40.5	40.8	40.5	40.0	40.8	41.0	40.8	41.1	41.2	41.0	41.0	40.7
<i>Overtime hours</i>	3.0	3.0	3.2	3.3	3.4	3.3	3.4	3.6	3.6	3.7	3.6	3.5	3.5
Ordnance and accessories	40.1	40.6	40.6	41.0	40.5	40.6	40.6	41.2	41.1	40.9	40.4	40.6	40.0
Lumber and wood products	39.8	40.3	40.3	40.3	39.9	40.5	40.1	40.0	40.0	39.9	40.4	39.8	39.3
Furniture and fixtures	38.0	38.4	38.6	38.6	37.0	38.1	38.6	38.4	38.7	38.8	38.9	38.9	39.1
Stone, clay, and glass products	40.9	41.4	41.2	41.2	39.9	41.4	41.4	41.7	41.7	41.7	41.4	41.5	40.7
Primary metal industries	40.3	40.2	40.3	40.1	40.0	40.6	41.1	41.5	41.6	41.6	40.9	41.2	40.2
Fabricated metal products	40.6	40.4	40.8	40.5	39.9	40.8	41.0	40.7	41.0	41.3	41.2	41.0	40.8
Machinery, except electrical	40.8	41.2	41.5	41.2	40.6	41.3	41.5	41.3	41.6	41.9	41.9	41.8	41.9
Electrical equipment and supplies	39.7	40.0	40.3	40.2	39.4	40.6	40.3	40.0	40.1	40.4	40.2	40.4	40.3
Transportation equipment	41.1	41.2	42.0	41.1	41.4	41.4	42.8	41.9	42.7	42.9	42.2	42.6	41.8
Instruments and related products	39.9	40.3	40.4	40.7	39.8	40.8	40.4	41.0	40.4	40.7	40.4	40.3	40.3
Miscellaneous manufacturing, Ind.	38.2	38.7	39.0	38.9	38.2	39.5	39.3	38.9	39.0	39.2	38.7	38.9	39.0
NONDURABLE GOODS	39.0	39.1	39.2	39.3	38.7	39.6	39.5	39.5	39.5	39.6	39.3	39.1	39.0
<i>Overtime hours</i>	2.9	2.8	3.0	3.1	3.0	3.2	3.1	3.2	3.1	3.1	3.0	3.0	3.0
Food and kindred products	40.2	40.3	40.4	40.1	39.5	40.3	40.2	40.3	39.9	40.0	39.7	39.5	39.2
Tobacco manufactures	37.1	37.5	36.9	37.5	36.1	39.4	38.4	38.3	38.6	39.0	37.4	37.8	38.3
Textile mill products	39.0	39.4	39.8	40.1	39.7	40.5	40.8	40.5	40.7	40.5	40.4	40.0	40.0
Apparel and other textile products	34.9	35.0	35.1	35.3	34.2	35.7	35.6	35.1	35.7	35.9	35.3	35.2	35.1
Paper and allied products	42.2	42.1	42.4	42.6	41.9	42.7	42.8	43.3	43.0	43.1	42.7	42.3	42.6
Printing and publishing	37.4	37.5	37.6	37.7	37.4	37.9	37.7	37.7	37.6	37.7	37.8	37.6	37.7
Chemicals and allied products	41.9	41.6	41.7	41.7	41.6	41.7	41.8	41.9	41.7	41.9	41.7	41.8	41.6
Petroleum and coal products	42.2	42.0	41.9	42.5	42.3	42.5	43.0	42.7	42.6	43.0	42.9	42.8	42.4
Rubber and plastics products, nec	40.5	41.1	41.2	41.5	40.9	41.4	41.2	41.2	41.3	41.1	40.6	40.5	40.5
Leather and leather products	36.5	36.4	36.4	36.5	35.3	36.7	36.4	37.4	37.1	37.2	36.8	37.2	37.3
TRANSPORTATION AND PUBLIC UTILITIES	39.9	39.8	40.2	40.5	39.8	40.5	40.3	40.1	40.2	40.1	39.9	39.8	39.8
WHOLESALE AND RETAIL TRADE	33.6	33.5	33.4	33.6	33.2	33.4	33.5	33.5	33.4	33.3	33.3	33.2	33.2
WHOLESALE TRADE	38.8	38.7	38.7	38.6	38.7	39.1	38.9	39.0	38.7	38.8	38.8	38.9	38.7
RETAIL TRADE	32.1	32.0	31.9	32.2	31.6	31.8	31.9	31.9	31.9	31.7	31.7	31.6	31.6
FINANCE, INSURANCE, AND REAL ESTATE	36.7	36.7	36.7	36.7	36.8	36.6	36.7	36.6	36.7	36.6	36.6	36.6	36.7
SERVICES	33.5	33.6	33.5	33.5	33.5	33.6	33.5	33.5	33.5	33.3	33.2	33.2	33.3

¹For coverage of series, see footnote 1, table B-2.

p = preliminary.

C-8. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1976				1977								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Average hourly earnings													
TOTAL PRIVATE	\$4.92	\$4.95	\$5.00	\$5.02	\$5.07	\$5.09	\$5.12	\$5.17	\$5.20	\$5.22	\$5.27	\$5.28	\$5.29
MINING	6.60	6.62	6.62	6.67	6.67	6.72	6.78	6.79	6.82	6.89	6.95	6.93	7.04
CONTRACT CONSTRUCTION	7.71	7.76	7.81	7.82	7.82	7.88	7.90	7.95	7.96	8.06	8.09	8.08	8.08
MANUFACTURING	5.29	5.29	5.34	5.38	5.43	5.43	5.49	5.53	5.57	5.61	5.66	5.69	5.71
TRANSPORTATION AND PUBLIC UTILITIES	6.54	6.58	6.62	6.64	6.69	6.74	6.75	6.83	6.88	6.89	6.99	6.95	7.00
WHOLESALE AND RETAIL TRADE	4.03	4.05	4.08	4.11	4.15	4.18	4.19	4.23	4.24	4.26	4.30	4.30	4.32
FINANCE, INSURANCE, AND REAL ESTATE	4.39	4.43	4.42	4.43	4.51	4.48	4.50	4.53	4.58	4.54	4.60	4.63	4.62
SERVICES	4.39	4.43	4.48	4.50	4.58	4.58	4.61	4.64	4.67	4.68	4.72	4.75	4.74
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	177.12	178.70	181.00	181.72	181.51	184.77	185.86	187.15	188.76	188.96	190.25	190.08	189.91
1967 dollars	102.74	103.29	104.32	104.32	103.37	104.21	104.18	104.09	104.34	103.88	104.19	103.76	-
Real spendable earnings (worker and 3 dependents, 1967 dollars)	91.14	91.51	92.24	92.18	91.36	91.86	91.75	91.58	91.69	94.93	95.12	94.73	-

¹For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls, by industry division and major manufacturing group, 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
Ordnance 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	10.64	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	103.7	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 For coverage of series, see footnote 1, table B-2.

p = preliminary.

C-10. Hours of wage and salary workers¹ in nonagricultural establishments, by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	JULY 1977	AUGUST 1977 ^p	SEPTEMBER 1977 ^p	Sept. 1976 to Sept. 1977	July 1976 to Aug. 1977	Aug. 1977 to Sept. 1977
TOTAL	157,062	156,862	156,933	3.2	-0.1	0.0
PRIVATE SECTOR	126,744	126,570	126,931	3.6	-0.1	0.3
MINING	1,943	1,901	2,010	11.4	-2.2	5.8
CONTRACT CONSTRUCTION	7,496	7,331	7,299	9.7	-2.2	-0.4
MANUFACTURING	40,928	40,727	40,649	3.3	-0.5	-0.2
DURABLE GOODS	24,361	24,348	24,308	4.7	-0.1	-0.2
NONDURABLE GOODS	16,567	16,380	16,341	1.2	-1.1	-0.2
TRANSPORTATION AND PUBLIC UTILITIES	9,486	9,485	9,500	1.1	0.0	0.2
WHOLESALE AND RETAIL TRADE	31,778	31,832	31,905	2.0	0.2	0.2
FINANCE, INSURANCE, AND REAL ESTATE	8,576	8,602	8,670	4.7	0.3	0.8
SERVICES	26,538	26,692	26,899	4.3	0.6	0.8
GOVERNMENT	30,318	30,293	30,002	1.5	-0.1	-1.0

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Survey Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

² "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

**C-11. Indexes of output and compensation per hour, unit costs, and prices,
private business sector, seasonally adjusted**

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1974	1975				1976				1977	
	1975	1976	IV	I	II	III	IV	I	II	III	IV	I	II
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	111.8	116.5	108.6	108.9	111.7	113.8	113.3	115.4	116.3	117.2	117.2	118.9	118.5
Output	118.7	126.9	118.7	115.1	117.2	120.6	121.8	124.9	126.7	127.7	128.4	131.3	134.0
Hours	106.1	108.9	109.3	105.7	104.9	105.9	107.5	108.3	108.9	109.0	109.5	110.4	113.0
Compensation per hour	180.2	196.5	170.9	176.2	179.0	181.1	184.7	190.5	194.3	198.6	202.7	208.4	211.6
Real compensation per hour	111.8	115.3	110.9	112.0	112.2	111.2	111.6	113.8	114.8	115.6	116.7	117.7	117.0
Unit labor costs	161.1	168.7	157.3	161.7	160.4	159.1	163.0	165.1	167.0	169.4	173.0	175.2	178.5
Unit nonlabor payments	152.1	159.9	134.8	139.8	149.1	159.8	159.0	158.7	160.5	160.8	159.5	160.4	163.3
Implicit price deflator	158.0	165.6	149.6	154.2	156.5	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.3
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	109.9	114.3	106.7	106.9	109.5	112.0	111.1	112.9	114.4	115.2	114.7	116.1	116.2
Output	118.7	127.4	118.9	115.3	117.1	120.6	121.8	125.2	127.2	128.3	128.7	131.6	134.4
Hours	108.1	111.4	111.4	107.9	106.9	107.7	109.7	111.0	111.3	111.4	112.2	113.4	115.7
Compensation per hour	177.6	193.1	168.4	173.2	176.2	179.2	182.0	186.9	191.1	195.2	198.7	204.3	208.0
Real compensation per hour	110.2	113.3	109.3	110.1	110.4	110.1	110.0	111.7	113.0	113.7	114.4	115.4	115.0
Unit labor costs	161.7	168.9	157.9	162.0	160.9	160.0	163.9	165.6	167.1	169.5	173.3	176.0	179.0
Unit nonlabor payments	147.4	157.4	130.2	136.9	145.4	154.4	153.5	155.3	156.8	159.2	158.1	157.2	160.9
Implicit price deflator	156.9	165.0	148.4	153.4	155.6	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.8
MANUFACTURING:													
Output per hour of all persons	116.3	124.2	111.5	109.4	114.1	120.6	121.4	122.2	123.9	125.4	125.1	125.1	126.0
Output	107.6	120.0	110.3	101.1	103.9	111.3	114.5	117.8	119.9	121.1	121.3	122.9	126.6
Hours	92.5	96.6	98.9	92.4	91.1	92.3	94.2	96.4	96.7	96.6	97.0	98.2	100.5
Compensation per hour	179.4	194.8	169.2	174.9	178.2	180.7	183.7	189.0	193.3	196.5	200.1	206.4	209.8
Real compensation per hour	111.3	114.2	109.8	111.2	111.7	111.0	111.0	113.0	114.3	114.4	115.2	116.5	116.0
Unit labor costs	154.3	156.9	151.8	159.9	156.1	149.8	151.3	154.7	156.0	156.7	159.9	165.0	166.5
DURABLE GOODS													
Output per hour of all persons	112.2	120.3	108.1	105.2	110.0	116.8	117.0	117.7	120.3	121.9	121.2	120.5	122.0
Output	102.5	114.9	108.3	97.7	99.1	105.7	107.8	111.4	114.7	117.0	116.5	117.6	122.0
Hours	91.3	95.5	100.2	92.9	90.1	90.5	92.2	94.6	95.4	95.9	96.2	97.6	100.0
Compensation per hour	180.9	196.9	169.3	175.0	179.5	182.7	186.0	191.5	196.0	198.5	201.2	207.8	211.9
Real compensation per hour	112.2	115.5	109.8	111.3	112.5	112.2	112.4	114.5	115.9	115.6	115.9	117.3	117.2
Unit labor costs	161.2	163.7	156.6	166.4	163.2	156.5	158.9	162.7	163.0	162.8	166.1	172.5	173.7
NONDURABLE GOODS													
Output per hour of all persons	123.0	130.5	117.3	116.5	120.8	126.9	128.5	129.2	129.9	131.3	131.7	132.5	132.7
Output	115.8	128.3	113.9	106.9	111.7	120.5	125.0	127.8	128.1	128.1	129.3	131.4	134.3
Hours	94.2	98.3	97.1	91.7	92.4	95.0	97.3	98.9	98.6	97.5	98.1	99.2	101.2
Compensation per hour	177.4	191.7	168.5	174.5	176.4	178.3	181.0	185.8	189.5	193.4	198.6	204.3	206.4
Real compensation per hour	110.1	112.5	109.3	111.0	110.6	109.5	109.4	111.1	112.0	112.6	114.3	115.4	114.1
Unit labor costs	144.3	147.0	143.7	149.8	146.0	140.5	140.9	143.8	145.9	147.3	150.8	154.3	155.5
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	113.0	117.2	107.7	109.0	112.7	115.4	114.8	116.2	117.4	118.0	117.2	119.0	119.2
Output	124.4	133.9	123.4	119.8	122.7	126.9	128.2	131.8	134.0	135.0	135.0	138.0	141.3
Hours	110.1	114.3	114.6	110.0	108.8	109.9	111.6	113.4	114.2	114.4	115.1	116.0	118.5
Compensation per hour	179.4	194.9	169.3	175.0	178.0	180.8	183.9	189.1	193.0	196.8	200.7	206.8	210.3
Real compensation per hour	111.3	114.3	109.8	111.3	111.5	111.0	111.2	113.0	114.1	114.6	115.6	116.8	116.3
Total unit costs	166.1	172.1	162.2	167.0	165.5	164.4	167.6	168.8	170.3	172.5	176.8	179.0	180.7
Unit labor costs	158.8	166.3	157.2	160.6	157.9	156.6	160.2	162.7	164.5	166.8	171.2	173.9	176.3
Unit nonlabor costs	188.8	190.1	177.8	186.9	189.3	188.5	190.6	187.7	188.3	190.1	194.1	195.0	194.4
Unit profits	93.6	113.2	63.0	65.8	87.8	111.2	107.8	113.1	115.0	117.7	107.0	103.7	114.8
Implicit price deflator	155.3	163.4	147.5	152.0	154.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9

**PRODUCTIVITY
SEASONALLY ADJUSTED**

C-12. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted at annual rate

Item	Quarterly percent change						Annual percent change					
	IV 1975 to I 1976	I 1976 to II 1976	II 1976 to III 1976	III 1976 to IV 1976	IV 1976 to I 1977	I 1977 to II 1977	I 1975 to II 1976	II 1975 to II 1976	III 1975 to III 1976	IV 1975 to IV 1976	I 1976 to I 1977	II 1976 to II 1977
	PRIVATE BUSINESS SECTOR:											
Output per hour of all persons	7.6	3.3	3.0	0.0	6.1	-1.4	5.9	4.2	3.0	3.5	3.1	1.9
Output	10.8	5.9	3.1	2.1	9.6	8.4	8.5	8.1	5.9	5.4	5.1	5.7
Hours	3.0	2.6	0.1	2.1	3.3	9.9	2.4	3.8	2.8	1.9	2.0	3.8
Compensation per hour	13.1	8.3	9.0	8.6	11.7	6.2	8.1	8.5	9.6	9.8	9.4	8.9
Real compensation per hour	8.2	3.6	2.7	3.9	3.3	-2.5	1.6	2.4	3.9	4.6	3.4	1.8
Unit labor costs	5.1	4.9	5.8	8.6	5.3	7.7	2.1	4.2	6.5	6.1	6.2	6.9
Unit nonlabor payments	0.7	4.5	0.8	-3.2	2.3	7.3	13.6	7.6	0.6	0.3	1.1	1.7
Implicit price deflator	3.1	4.8	4.1	4.6	4.4	7.6	5.6	5.3	4.5	4.1	4.5	5.1
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	6.5	5.5	2.9	-1.8	5.0	0.4	5.6	4.4	2.8	3.2	2.9	1.6
Output	11.7	6.6	3.2	1.3	9.5	8.7	8.6	8.7	6.4	5.6	5.1	5.6
Hours	4.9	1.0	0.4	3.2	4.2	8.3	2.9	4.1	3.4	2.3	2.2	4.0
Compensation per hour	11.1	9.4	8.8	7.4	11.7	7.4	7.9	8.5	8.9	9.2	9.3	8.8
Real compensation per hour	6.3	4.6	2.5	2.7	3.2	-1.4	1.4	2.3	3.3	4.0	3.3	1.8
Unit labor costs	4.3	3.7	5.8	9.4	6.3	6.9	2.2	3.9	5.9	5.8	6.3	7.1
Unit nonlabor payments	4.6	4.0	6.4	-2.8	-2.2	9.8	13.4	7.8	3.1	3.0	1.3	2.6
Implicit price deflator	4.4	3.8	6.0	5.3	3.5	7.8	5.6	5.1	5.0	4.9	4.6	5.6
MANUFACTURING:												
Output per hour of all persons	2.6	5.8	4.7	-0.7	-0.1	3.0	11.7	8.6	3.9	3.0	2.4	1.7
Output	12.1	7.3	4.2	0.8	5.2	12.7	16.5	15.3	8.8	6.0	4.3	5.6
Hours	9.3	1.4	-0.5	1.5	5.3	9.4	4.2	6.2	4.7	2.9	1.9	3.9
Compensation per hour	12.1	9.5	6.7	7.5	13.2	6.7	8.1	8.5	8.7	8.9	9.2	8.5
Real compensation per hour	7.3	4.6	0.5	2.8	4.7	-1.9	1.6	2.3	3.1	3.8	3.1	1.5
Unit labor costs	9.3	3.5	1.9	8.3	13.3	3.6	-3.2	-0.1	4.6	5.7	6.7	6.7
DURABLE GOODS												
Output per hour of all persons	2.4	9.0	5.5	-2.4	-2.3	5.2	11.9	9.4	4.4	3.5	2.3	1.4
Output	13.8	12.6	8.0	-1.6	3.6	15.8	14.0	15.8	10.7	8.0	5.5	6.3
Hours	11.2	3.3	2.3	0.9	6.1	10.1	1.8	5.8	6.0	4.4	3.1	4.8
Compensation per hour	12.4	9.9	5.1	5.6	13.7	8.2	9.4	9.2	8.6	8.2	8.5	8.1
Real compensation per hour	7.6	5.0	-1.0	1.0	5.1	-0.6	2.9	3.0	3.0	3.1	2.5	1.1
Unit labor costs	9.8	0.8	-0.4	8.3	16.4	2.8	-2.2	-0.2	4.1	4.5	6.0	6.6
NONDURABLE GOODS												
Output per hour of all persons	2.3	2.1	4.5	1.2	2.3	0.9	10.9	7.5	3.5	2.5	2.5	2.2
Output	9.2	0.9	-0.1	3.7	6.7	9.3	19.6	14.7	6.3	3.4	2.8	4.8
Hours	6.7	-1.2	-4.4	2.5	4.2	8.4	7.9	6.7	2.7	0.8	0.2	2.6
Compensation per hour	11.1	8.2	8.6	11.1	12.1	4.1	6.5	7.4	8.5	9.7	10.0	8.9
Real compensation per hour	6.3	3.4	2.3	6.2	3.7	-4.3	0.1	1.3	2.9	4.6	3.9	1.9
Unit labor costs	8.6	5.9	3.9	9.8	9.6	3.2	-4.0	-0.1	4.8	7.0	7.3	6.6
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	5.0	4.0	2.1	-2.5	6.0	1.0	6.6	4.1	2.2	2.1	2.4	1.6
Output	11.9	6.8	2.9	-0.1	9.4	9.9	10.0	9.2	6.3	5.3	4.7	5.5
Hours	6.6	2.6	0.8	2.5	3.2	8.8	3.1	4.9	4.1	3.1	2.3	3.8
Compensation per hour	11.8	8.6	8.1	8.1	12.8	6.8	8.1	8.5	8.9	9.1	9.4	8.9
Real compensation per hour	7.0	3.8	1.9	3.3	4.3	1.8	1.6	2.3	3.2	4.0	3.3	1.9
Total unit costs	3.0	3.5	5.3	10.3	5.2	3.9	1.1	2.9	4.9	5.5	6.1	6.1
Unit labor costs	6.5	4.4	5.9	10.9	6.4	5.7	1.3	4.2	6.5	6.9	6.9	7.2
Unit nonlabor costs	-5.9	1.4	3.8	8.9	1.7	-1.1	0.4	-0.5	0.8	1.9	3.9	3.2
Unit profits	21.3	7.0	9.5	-31.7	-11.6	50.2	71.9	30.9	5.8	-0.7	-8.3	-0.1
Implicit price deflator	4.7	3.9	5.7	5.1	3.5	7.6	5.6	5.3	5.0	4.9	4.6	5.5

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
ALABAMA	\$180.67	\$199.10	\$198.90	40.6	39.9	40.1	\$4.45	\$4.99	\$4.96
Birmingham	223.56	242.63	242.81	40.5	40.5	40.2	5.52	5.99	6.04
Mobile	219.23	251.58	249.99	40.3	42.0	42.3	5.44	5.99	5.91
ALASKA	312.62	376.14	377.35	40.6	48.1	45.3	7.70	7.82	8.33
ARIZONA	206.72	219.30	218.90	39.3	39.8	39.8	5.26	5.51	5.50
Phoenix	205.27	220.55	222.40	39.4	40.1	40.0	5.21	5.50	5.56
Tucson	217.40	212.85	223.36	39.7	38.7	39.5	5.35	5.50	5.67
ARKANSAS	156.42	172.03	175.39	39.7	40.1	40.6	3.94	4.29	4.32
Fayetteville-Springdale	136.08	153.12	160.27	37.8	40.4	41.2	3.60	3.79	3.89
Fort Smith	157.59	170.87	183.51	39.3	39.1	40.6	4.01	4.37	4.52
Little Rock-North Little Rock	174.78	193.74	203.45	39.1	39.7	41.1	4.47	4.88	4.95
Pine Bluff	197.83	221.08	215.28	41.3	41.4	41.4	4.79	5.34	5.20
CALIFORNIA	227.13	241.20	244.01	40.2	40.0	40.2	5.65	6.03	6.07
Anaheim-Santa Ana-Garden Grove	211.64	223.30	223.11	40.7	40.6	40.2	5.20	5.50	5.55
Bakersfield	235.39	247.98	250.22	39.7	39.3	40.1	6.03	6.31	6.24
Fresno	213.06	226.77	219.54	40.2	37.8	39.7	5.30	5.47	5.53
Los Angeles-Long Beach	207.11	224.64	226.00	39.6	39.9	40.0	5.23	5.63	5.65
Modesto	235.06	245.17	256.06	41.9	39.8	41.5	5.61	6.16	6.17
Oxnard-Simi Valley-Ventura	193.69	202.67	199.26	39.5	38.9	38.1	5.03	5.21	5.23
Riverside-San Bernardino-Ontario	233.24	241.56	242.53	39.6	39.6	39.5	5.89	6.10	6.14
Sacramento	266.98	262.01	283.05	43.2	39.4	42.5	6.18	5.65	6.66
Salinas-Seaside-Monterey	198.86	225.59	220.50	37.1	38.3	37.5	5.36	5.89	5.88
San Diego	221.52	228.13	228.72	39.0	38.6	38.7	5.68	5.91	5.91
San Francisco-Oakland	274.28	251.67	291.20	40.1	35.9	40.0	6.84	7.31	7.28
San Jose	247.04	260.71	264.16	40.9	40.8	41.5	6.04	6.39	6.35
Santa Barbara-Santa Maria-Lompoc	198.79	210.50	213.15	38.6	39.2	39.4	5.15	5.37	5.41
Santa Rosa	213.24	224.07	218.38	38.7	38.5	38.0	5.51	5.82	5.76
Stockton	261.22	269.47	273.98	42.2	40.1	41.2	6.19	6.72	6.65
Vallejo-Fairfield-Napa	240.60	232.87	247.81	39.9	37.2	38.5	6.03	6.26	6.42
COLORADO	213.47	230.66	(*)	39.9	39.7	(*)	5.35	5.81	(*)
Denver-Boulder	213.33	226.58	(*)	39.8	39.2	(*)	5.36	5.78	(*)
CONNECTICUT	207.43	230.04	228.93	40.2	41.3	41.1	5.16	5.57	5.57
Bridgeport	217.83	239.94	232.54	41.1	43.0	41.6	5.30	5.58	5.59
Hartford	228.78	253.90	245.27	41.0	42.6	41.5	5.58	5.96	5.91
New Britain	210.25	237.72	238.71	40.2	42.0	42.1	5.23	5.66	5.67
New Haven-West Haven	203.45	228.48	226.95	39.2	40.8	40.6	5.19	5.69	5.59
Stamford	216.00	221.74	241.25	41.3	40.8	42.4	5.23	5.68	5.69
Waterbury	177.01	195.70	197.13	39.6	41.2	41.5	4.47	4.75	4.75
DELAWARE	193.17	224.84	213.36	38.1	38.5	37.3	5.07	5.84	5.72
Wilmington	224.92	269.68	263.45	37.3	39.6	38.3	6.03	6.81	6.79
DISTRICT OF COLUMBIA:									
Washington SMSA	210.92	211.91	212.46	38.7	38.6	38.7	5.45	5.49	5.49
FLORIDA	177.80	187.40	187.20	40.5	40.3	40.0	4.39	4.65	4.68
Fort Lauderdale-Hollywood	179.45	174.44	176.73	40.6	39.2	39.1	4.42	4.45	4.52
Jacksonville	224.22	228.65	228.11	41.6	41.8	41.4	5.39	5.47	5.51
Miami	156.41	159.88	166.82	39.9	38.9	40.1	3.92	4.11	4.16
Orlando	185.19	209.66	197.83	40.7	42.1	41.3	4.55	4.98	4.79
Pensacola	207.08	238.29	237.01	39.9	42.4	41.8	5.19	5.62	5.67
Tampa-St. Petersburg	183.82	201.39	200.07	40.4	40.6	40.5	4.55	4.95	4.94
West Palm Beach-Boca Raton	213.20	214.90	211.58	41.0	40.7	40.3	5.20	5.28	5.25
GEORGIA	162.75	179.78	176.99	39.5	40.4	40.5	4.11	4.45	4.37
Atlanta	197.00	218.90	204.88	39.4	39.8	39.4	5.00	5.50	5.20
Savannah	223.65	240.44	241.06	42.6	43.4	43.2	5.25	5.54	5.58
HAWAII	184.42	198.10	201.24	38.5	39.7	39.0	4.79	4.99	5.16
Honolulu	172.58	185.27	193.29	37.6	38.2	38.2	4.59	4.85	5.06
IDAHO	214.34	233.64	256.83	38.9	39.6	41.9	5.51	5.90	6.13

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P
ILLINOIS	(*)	\$251.59	\$254.57	(*)	39.9	40.4	(*)	\$ 6.31	\$6.30
Bloomington—Normal	(*)	188.90	187.04	(*)	39.1	36.1	(*)	4.82	5.17
Champaign—Urbana—Rantoul	(*)	229.18	223.49	(*)	38.9	38.1	(*)	5.89	5.87
Chicago SMSA	(*)	258.57	257.58	(*)	41.1	41.2	(*)	6.29	6.25
Davenport—Rock Island—Moline	(*)	265.48	276.59	(*)	39.4	40.6	(*)	6.73	6.81
Decatur	(*)	270.89	281.63	(*)	40.2	41.9	(*)	6.75	6.72
Peoria	(*)	281.78	284.78	(*)	37.5	37.9	(*)	7.51	7.51
Rockford	(*)	247.95	254.32	(*)	40.5	42.6	(*)	6.13	5.96
Springfield	(*)	299.40	297.79	(*)	43.1	43.0	(*)	6.94	6.92
INDIANA	\$ 245.83	272.24	277.47	40.7	41.0	41.5	\$ 6.04	6.64	6.67
Gary—Hammond—East Chicago	316.68	352.46	(*)	40.6	40.7	(*)	7.80	8.56	(*)
Indianapolis	248.81	283.40	(*)	41.4	41.8	(*)	6.01	6.78	(*)
IOWA	242.02	257.00	(*)	41.3	39.6	(*)	5.86	6.49	(*)
Cedar Rapids ¹	241.80	249.21	246.79	40.3	39.0	38.5	6.00	6.39	6.41
Des Moines ¹	246.44	256.46	258.31	40.4	36.9	37.6	6.10	6.95	6.87
Dubuque ¹	284.00	348.00	358.53	40.0	43.5	44.1	7.10	8.00	8.13
Sioux City ¹	196.46	198.01	202.00	38.0	36.6	37.2	5.17	5.41	5.43
Waterloo—Cedar Falls ¹	271.93	324.75	328.80	37.2	40.9	41.1	7.31	7.94	8.00
KANSAS	198.64	220.42	218.43	40.6	41.2	40.6	4.89	5.35	5.38
Topeka	188.00	239.55	236.24	40.2	42.1	41.3	4.68	5.69	5.72
Wichita	219.45	236.14	237.22	40.4	41.5	41.4	5.43	5.69	5.73
KENTUCKY	201.88	220.30	223.60	39.2	39.2	40.0	5.15	5.62	5.59
Louisville	236.41	260.83	266.02	39.8	39.7	40.8	5.94	6.57	6.52
LOUISIANA	221.24	241.26	239.04	41.2	41.1	41.5	5.37	5.87	5.76
Baton Rouge	277.95	318.12	310.03	42.5	43.4	43.0	6.54	7.33	7.21
New Orleans	211.60	227.36	231.49	40.0	39.2	40.4	5.29	5.80	5.73
Shreveport	190.13	220.37	213.61	40.8	41.5	41.0	4.66	5.31	5.21
MAINE	167.14	182.34	181.20	39.7	39.9	40.0	4.21	4.57	4.53
Lewiston—Auburn	140.50	143.99	147.05	38.6	37.4	37.9	3.64	3.85	3.88
Portland	172.62	177.97	183.02	39.5	39.2	39.7	4.37	4.54	4.61
MARYLAND	219.13	241.59	238.39	39.2	39.8	39.6	5.59	6.07	6.02
Baltimore	233.64	254.23	251.60	39.6	40.1	40.0	5.90	6.34	6.29
MASSACHUSETTS	188.94	200.99	205.20	39.2	39.8	40.0	4.82	5.05	5.13
Boston	205.67	222.64	223.71	39.1	39.9	40.2	5.26	5.58	5.57
Brockton	151.93	159.42	157.36	37.7	37.6	37.2	4.03	4.24	4.23
Fall River	133.08	146.67	148.57	34.3	35.6	35.8	3.88	4.12	4.15
Lawrence—Haverhill	184.32	195.82	202.69	39.3	39.4	40.7	4.69	4.97	4.98
Lowell	171.60	175.26	178.09	39.0	38.1	38.8	4.40	4.60	4.59
New Bedford	152.70	170.56	174.02	36.1	38.5	38.5	4.23	4.43	4.52
Springfield—Chicopee—Holyoke	191.57	210.94	215.69	40.5	40.8	41.4	4.73	5.17	5.21
Worcester	186.82	211.34	211.96	38.6	39.8	40.3	4.84	5.31	5.26
MICHIGAN	290.70	325.15	(*)	42.6	43.4	(*)	6.82	7.49	(*)
Ann Arbor	334.06	372.44	(*)	45.5	46.1	(*)	7.34	8.08	(*)
Battle Creek	293.24	321.92	(*)	42.0	41.9	(*)	6.98	7.68	(*)
Bay City	306.43	341.48	(*)	47.1	47.7	(*)	6.51	7.16	(*)
Detroit	311.44	344.52	(*)	43.1	43.2	(*)	7.23	7.98	(*)
Flint	336.24	395.93	(*)	45.0	46.8	(*)	7.47	8.46	(*)
Grand Rapids	230.97	248.19	(*)	40.8	40.8	(*)	5.66	6.08	(*)
Jackson	247.07	272.64	(*)	41.0	41.9	(*)	6.03	6.51	(*)
Kalamazoo—Portage	247.70	276.69	(*)	40.6	41.0	(*)	6.10	6.75	(*)
Lansing—East Lansing	309.53	340.41	(*)	43.2	44.1	(*)	7.17	7.72	(*)
Muskegon—Norton Shores—Muskegon Heights	246.19	259.99	(*)	41.1	40.7	(*)	5.90	6.39	(*)
Saginaw	338.88	376.74	(*)	44.2	44.6	(*)	7.67	8.45	(*)
MINNESOTA	221.75	234.62	235.43	40.1	39.3	39.4	5.53	5.97	6.00
Duluth—Superior	196.61	218.18	212.78	38.4	39.1	37.2	5.12	5.53	5.72
Minneapolis—St. Paul	237.96	253.13	257.44	40.4	39.8	40.1	5.89	6.36	6.42
MISSISSIPPI	153.58	164.39	166.82	40.1	39.9	40.1	3.83	4.12	4.16
Jackson	159.19	181.44	186.22	40.2	40.5	41.2	3.96	4.48	4.52

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P	AUG. 1976	JUL. 1977	AUG. 1977P
MISSOURI ¹	\$207.88	\$228.57	\$231.83	39.9	40.1	40.6	\$5.21	\$5.70	\$5.71
Kansas City	235.94	259.85	256.94	40.4	40.1	40.4	5.84	6.48	6.36
St. Joseph	193.73	206.68	208.40	40.7	39.9	40.0	4.76	5.18	5.21
St. Louis	243.41	268.69	272.95	40.5	41.4	41.8	6.01	6.49	6.53
Springfield	179.65	195.13	199.80	40.1	39.5	39.8	4.48	4.94	5.02
MONTANA ²	238.40	260.94	236.07	39.8	40.9	36.6	5.99	6.38	6.45
NEBRASKA	201.65	221.53	224.41	41.3	41.1	41.1	4.88	5.39	5.46
Lincoln	185.73	214.50	208.12	39.5	39.0	38.9	4.70	5.50	5.35
Omaha	222.44	237.80	240.76	42.1	41.0	40.6	5.28	5.80	5.93
NEVADA	216.58	235.98	245.05	38.4	36.7	37.7	5.64	6.43	6.50
Las Vegas	266.56	301.85	(*)	39.1	40.3	(*)	6.82	7.49	(*)
NEW HAMPSHIRE	167.35	181.94	182.46	39.1	39.9	40.1	4.28	4.56	4.55
Manchester	152.48	158.98	161.92	38.7	38.4	39.3	3.94	4.14	4.12
Nashua	178.78	207.24	204.35	38.2	41.2	41.2	4.68	5.03	4.96
NEW JERSEY	213.60	239.37	241.53	40.0	41.2	41.5	5.34	5.81	5.82
Atlantic City	164.50	176.38	176.75	36.8	36.9	36.9	4.47	4.78	4.79
Camden	199.53	227.88	230.58	39.2	39.7	40.1	5.09	5.74	5.75
Hackensack	203.20	224.35	226.53	40.0	41.7	42.5	5.08	5.38	5.33
Jersey City	202.90	222.72	232.64	38.5	39.7	40.6	5.27	5.61	5.73
New Brunswick—Perth Amboy—Sayreville	230.72	259.11	259.34	41.2	42.2	42.1	5.60	6.14	6.16
Newark	219.23	245.37	247.97	40.3	41.8	42.1	5.44	5.87	5.89
Paterson—Clifton—Passaic	207.97	222.71	221.90	41.1	40.2	40.2	5.06	5.54	5.52
Trenton	229.90	241.13	252.70	41.8	40.8	41.7	5.50	5.91	6.06
NEW MEXICO	161.93	168.72	172.87	39.4	38.0	38.5	4.11	4.44	4.49
Albuquerque	161.38	175.41	175.87	38.7	38.3	38.4	4.17	4.58	4.58
NEW YORK	207.90	221.13	(*)	39.3	39.0	(*)	5.29	5.67	(*)
Albany—Schenectady—Troy	230.61	238.55	(*)	40.6	40.5	(*)	5.68	5.89	(*)
Binghamton	195.91	202.31	(*)	40.9	40.3	(*)	4.79	5.02	(*)
Buffalo	277.13	301.56	(*)	41.8	42.0	(*)	6.63	7.18	(*)
Elmira	207.48	221.20	(*)	39.9	40.0	(*)	5.20	5.53	(*)
Monroe County	267.96	284.00	(*)	42.0	41.1	(*)	6.38	6.91	(*)
Nassau—Suffolk	188.44	200.47	(*)	38.3	38.7	(*)	4.92	5.18	(*)
New York—Northeastern New Jersey	196.09	213.01	(*)	38.6	38.8	(*)	5.08	5.49	(*)
New York and Nassau—Suffolk	183.26	192.68	(*)	37.4	36.7	(*)	4.90	5.25	(*)
New York SMSA	182.23	190.94	(*)	37.2	36.3	(*)	4.90	5.26	(*)
New York City	180.79	187.76	(*)	37.0	35.9	(*)	4.88	5.23	(*)
Poughkeepsie	224.60	239.67	(*)	42.7	41.9	(*)	5.26	5.72	(*)
Rochester	253.95	268.30	(*)	41.7	40.9	(*)	6.09	6.56	(*)
Rockland County	203.69	217.87	(*)	41.4	40.8	(*)	4.92	5.34	(*)
Syracuse	227.11	250.91	(*)	40.7	41.2	(*)	5.58	6.09	(*)
Utica—Rome	200.09	212.80	(*)	39.7	40.0	(*)	5.04	5.32	(*)
Westchester County	197.22	219.74	(*)	38.9	39.1	(*)	5.07	5.62	(*)
NORTH CAROLINA	148.60	163.53	165.15	38.9	39.5	39.7	3.82	4.14	4.16
Asheville	146.29	160.00	161.17	38.6	39.8	39.6	3.79	4.02	4.07
Charlotte—Gastonia	154.35	167.66	167.27	40.3	40.4	40.5	3.83	4.15	4.13
Greensboro—Winston-Salem—High Point	162.60	178.20	181.31	38.9	39.6	39.5	4.18	4.50	4.59
Raleigh—Durham	169.95	184.47	188.33	39.8	39.0	39.9	4.27	4.73	4.72
NORTH DAKOTA	191.98	215.86	211.29	39.1	39.9	39.2	4.91	5.41	5.39
Fargo—Moorhead	210.94	239.60	229.70	39.8	40.0	38.8	5.30	5.99	5.92
OHIO	253.58	283.92	281.57	41.3	42.0	41.9	6.14	6.76	6.72
Akron	244.36	289.33	289.69	41.7	42.3	42.5	5.86	6.84	6.80
Canton	247.98	283.15	283.31	39.3	40.8	40.3	6.31	6.94	7.03
Cincinnati	226.40	262.91	256.89	40.5	41.6	41.5	5.59	6.32	6.19
Cleveland	265.44	295.15	291.13	42.0	42.9	42.5	6.32	6.88	6.85
Columbus	227.77	244.21	244.82	40.1	40.1	40.2	5.68	6.09	6.09
Dayton	271.68	296.61	299.78	43.4	43.3	43.7	6.26	6.85	6.86
Toledo	263.04	302.56	304.40	41.1	43.1	43.3	6.40	7.02	7.03
Youngstown—Warren	285.60	312.26	311.58	40.0	40.5	40.1	7.14	7.71	7.77

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P
OKLAHOMA	\$194.65	\$214.93	\$215.99	40.3	40.4	40.6	\$4.83	\$5.32	\$5.32
Oklahoma City	193.84	212.86	214.90	40.3	40.7	40.7	4.81	5.23	5.28
Tulsa	213.19	228.85	231.32	40.3	39.8	40.3	5.29	5.75	5.74
OREGON	240.91	260.74	249.00	39.3	38.8	37.5	6.13	6.72	6.64
Eugene-Springfield	267.90	284.69	(*)	41.6	41.2	(*)	6.44	6.91	(*)
Jackson County	248.61	249.38	263.34	39.4	36.3	38.0	6.31	6.87	6.93
Portland	236.12	246.24	245.70	38.9	38.0	37.8	6.07	6.48	6.50
PENNSYLVANIA	213.40	231.45	232.45	39.3	39.7	39.6	5.43	5.83	5.87
Allentown-Bethlehem-Easton	213.12	229.70	231.27	38.4	38.8	39.0	5.55	5.92	5.94
Altoona	168.30	195.67	189.48	37.4	38.9	37.3	4.50	5.03	5.08
Delaware Valley ⁷	223.97	240.56	244.16	39.5	39.5	39.7	5.67	6.09	6.15
Erie	224.54	243.08	244.32	40.9	41.2	41.2	5.49	5.90	5.93
Harrisburg	191.48	211.60	206.85	39.4	39.7	39.4	4.86	5.33	5.25
Johnstown	235.55	266.79	247.40	38.3	40.3	38.9	6.15	6.62	6.36
Lancaster	187.77	203.82	203.06	39.2	39.5	39.2	4.79	5.16	5.18
Northeast Pennsylvania	155.49	167.08	171.39	36.5	36.4	36.7	4.26	4.59	4.67
Philadelphia SMSA ¹	220.34	(*)	(*)	39.7	(*)	(*)	5.55	(*)	(*)
Pittsburgh	263.56	287.85	291.20	40.3	40.6	40.5	6.54	7.09	7.19
Reading	199.20	207.05	214.58	40.0	38.7	39.3	4.98	5.35	5.46
Scranton ⁸	159.70	177.46	179.27	37.4	38.0	37.9	4.27	4.67	4.73
Wilkes-Barre-Hazleton ⁹	152.28	159.56	165.75	36.0	35.3	35.8	4.23	4.52	4.63
Williamsport	186.12	199.05	205.27	39.1	38.5	39.4	4.76	5.17	5.21
York	195.09	209.00	212.57	40.9	40.9	40.8	4.77	5.11	5.21
RHODE ISLAND	162.21	171.55	171.83	38.9	38.9	38.7	4.17	4.41	4.44
Providence-Warwick-Pawtucket	164.27	172.38	172.66	39.3	39.0	38.8	4.18	4.42	4.45
SOUTH CAROLINA	160.40	175.34	176.20	40.1	40.4	40.6	4.00	4.34	4.34
Charleston-North Charleston	181.40	200.72	198.85	40.4	41.3	41.0	4.49	4.86	4.85
Columbia	153.26	173.26	178.70	38.8	39.2	40.8	3.95	4.42	4.38
Greenville-Spartanburg	161.59	174.87	174.93	40.6	40.2	40.4	3.98	4.35	4.33
SOUTH DAKOTA	176.79	190.87	189.64	38.6	39.6	39.1	4.58	4.82	4.85
Sioux Falls	234.54	242.08	242.02	42.8	41.1	41.3	5.48	5.89	5.86
TENNESSEE	172.10	188.33	189.27	40.4	39.9	40.1	4.26	4.72	4.72
Chattanooga	181.35	195.72	197.40	40.3	39.7	40.7	4.50	4.93	4.85
Knoxville	199.10	226.14	228.93	39.9	40.6	41.7	4.99	5.57	5.49
Memphis	196.18	220.86	221.41	40.2	40.6	40.7	4.38	5.44	5.44
Nashville-Davidson	183.54	199.64	204.40	39.9	39.3	40.0	4.60	5.08	5.11
TEXAS	202.28	219.89	219.51	40.7	40.2	40.5	4.97	5.47	5.42
Amarillo	190.88	230.23	231.75	40.1	45.5	45.8	4.76	5.06	5.06
Austin	176.36	185.02	186.40	41.4	41.3	41.7	4.26	4.48	4.47
Beaumont-Port Arthur-Orange	278.52	326.76	325.14	40.6	42.0	41.9	6.86	7.78	7.76
Corpus Christi	240.12	243.79	246.97	43.5	40.7	41.3	5.52	5.99	5.98
Dallas-Fort Worth	186.06	202.58	202.61	40.1	39.8	40.2	4.64	5.09	5.04
El Paso	131.52	139.01	135.04	41.1	38.4	37.1	3.20	3.62	3.64
Galveston-Texas City	316.35	361.25	329.13	41.9	42.4	41.4	7.55	8.52	7.95
Houston	250.06	287.08	287.08	42.6	43.3	43.3	5.87	6.63	6.63
Lubbock	146.37	162.37	162.33	40.1	39.7	39.4	3.65	4.09	4.12
San Antonio	153.26	170.57	175.55	39.5	41.4	42.3	3.88	4.12	4.15
Waco	173.01	183.37	182.16	40.9	41.3	40.3	4.23	4.44	4.52
Wichita Falls	172.93	193.26	200.59	38.6	39.2	39.8	4.48	4.93	5.04
UTAH	197.11	205.65	209.84	39.9	39.7	39.7	4.94	5.18	5.29
Salt Lake City-Ogden	189.53	189.95	196.83	39.9	39.3	39.6	4.75	4.83	4.97
VERMONT	182.78	190.00	194.34	40.8	40.0	41.0	4.48	4.75	4.74
Burlington	219.65	222.65	226.03	42.9	42.9	43.3	5.12	5.19	5.22
Springfield	189.60	215.13	219.18	40.0	40.9	41.2	4.74	5.26	5.32
VIRGINIA	171.47	185.65	188.47	39.6	39.5	40.1	4.33	4.70	4.70
Bristol	144.60	166.41	168.60	36.7	38.7	39.3	3.94	4.30	4.29
Lynchburg	183.31	179.49	187.73	41.1	38.6	40.2	4.46	4.65	4.67
Norfolk-Virginia Beach-Portsmouth	178.20	205.32	201.40	39.6	40.9	40.2	4.50	5.02	5.01
Northern Virginia ¹⁰	201.56	214.00	224.26	39.6	40.0	41.3	5.09	5.35	5.43
Petersburg-Colonial Heights-Hopewell	205.44	211.60	250.75	38.4	36.8	42.5	5.35	5.75	5.90
Richmond	207.66	213.54	218.01	40.4	38.2	39.0	5.14	5.59	5.59

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P	AUG - 1976	JUL - 1977	AUG - 1977P
VIRGINIA—Continued									
Roanoke	\$154.06	\$166.27	\$165.49	39.2	39.4	39.4	\$3.93	\$4.22	\$4.20
WASHINGTON	254.66	(*)	(*)	39.3	(*)	(*)	6.48	(*)	(*)
Seattle—Everett	255.58	(*)	(*)	39.2	(*)	(*)	6.52	(*)	(*)
Spokane	216.78	(*)	(*)	37.7	(*)	(*)	5.75	(*)	(*)
Tacoma	253.88	(*)	(*)	39.3	(*)	(*)	6.46	(*)	(*)
WEST VIRGINIA	205.92	242.48	241.13	39.0	39.3	39.4	5.28	6.17	6.12
Charleston	246.47	275.63	278.81	40.8	41.2	41.8	6.09	6.69	6.67
Huntington—Ashland	243.79	266.78	269.39	39.9	39.7	39.5	6.11	6.72	6.82
Parkersburg—Marietta	238.14	262.60	254.97	40.5	40.4	40.6	5.88	6.50	6.28
Wheeling	221.48	256.56	259.53	39.2	39.9	41.0	5.65	6.43	6.33
WISCONSIN	228.31	244.16	245.91	40.3	40.0	40.1	5.67	6.11	6.13
Appleton—Oshkosh	218.71	248.23	248.63	40.5	42.1	42.3	5.40	5.89	5.88
Green Bay	233.84	253.69	249.41	42.4	41.6	41.7	5.51	6.11	5.98
Kenosha	263.10	281.49	288.97	38.8	39.8	39.7	6.78	7.07	7.28
La Crosse	197.93	202.04	200.71	40.2	39.9	39.3	4.92	5.07	5.11
Madison	245.61	274.84	267.93	39.7	40.4	40.5	6.19	6.80	6.61
Milwaukee	253.57	270.24	278.29	40.2	40.0	40.6	6.30	6.76	6.85
Racine	245.89	243.18	242.63	40.5	38.0	37.9	6.07	6.40	6.40
WYOMING	215.46	235.48	225.36	39.4	40.6	40.1	5.57	5.80	5.62
Casper	252.55	283.87	269.34	40.8	41.2	40.2	6.19	6.89	6.70
Cheyenne	244.80	242.39	240.26	40.4	42.9	42.6	6.06	5.65	5.64

¹ Based on 1967 Standard Industrial Classification.

² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

³ Subarea of New York—Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

⁵ Area included in New York and Nassau—Suffolk combined SMSA's.

⁶ Subarea of New York Standard Metropolitan Statistical Area.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁰ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing 1965 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1965	4.3	3.8	3.5	4.0	3.8	4.1	5.6	4.5	5.4	5.5	4.5	3.9	3.1
1966	5.0	4.6	4.2	4.9	4.6	5.1	6.7	5.1	6.4	6.1	5.1	3.9	2.9
1967	4.4	4.3	3.6	3.9	3.9	4.6	5.9	4.7	5.5	5.3	4.7	3.7	2.8
1968	4.6	4.2	3.8	4.0	4.3	4.7	5.9	5.0	5.8	5.7	5.1	3.9	3.1
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	4.9	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	-	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2 ^P				
New hires													
1965	3.1	2.4	2.4	2.8	2.6	3.0	4.3	3.2	3.9	4.0	3.5	2.9	2.2
1966	3.8	3.2	3.1	3.7	3.6	4.1	5.6	3.9	4.8	4.7	4.2	3.1	2.1
1967	3.3	3.0	2.7	2.8	2.8	3.3	4.6	3.3	4.0	4.1	3.7	2.8	2.0
1968	3.5	3.0	2.7	2.9	3.2	3.6	4.7	3.7	4.3	4.6	4.0	2.9	2.2
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	-	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9 ^P				
Total separations													
1965	4.1	3.7	3.1	3.4	3.7	3.6	3.6	4.3	5.1	5.6	4.5	3.9	4.1
1966	4.6	4.0	3.6	4.1	4.3	4.3	4.4	5.3	5.8	6.6	4.8	4.3	4.2
1967	4.6	4.5	4.0	4.6	4.3	4.2	4.3	4.8	5.3	6.2	4.7	4.0	3.9
1968	4.6	4.4	3.9	4.1	4.1	4.3	4.1	5.0	6.0	6.3	5.0	4.1	3.8
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	4.1	3.4	3.5
1977	-	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.2 ^P				
Quits													
1965	1.9	1.4	1.3	1.5	1.7	1.7	1.7	1.8	2.6	3.5	2.2	1.7	1.4
1966	2.6	1.9	1.8	2.3	2.5	2.5	2.5	2.5	3.6	4.5	2.8	2.1	1.7
1967	2.3	2.1	1.9	2.1	2.2	2.2	2.3	2.1	3.2	4.0	2.5	1.9	1.5
1968	2.5	2.0	1.9	2.1	2.2	2.4	2.3	2.4	3.8	4.2	2.8	2.1	1.6
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	1.7	1.2	1.0
1977	-	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1 ^P				
Layoffs													
1965	1.4	1.6	1.2	1.2	1.3	1.1	1.1	1.8	1.6	1.3	1.4	1.5	1.9
1966	1.2	1.3	1.0	1.0	1.0	.9	1.0	2.0	1.1	1.0	1.1	1.3	1.7
1967	1.4	1.5	1.3	1.5	1.3	1.1	1.1	1.9	1.2	1.2	1.3	1.3	1.6
1968	1.2	1.5	1.2	1.1	1.0	1.0	.9	1.8	1.3	1.1	1.2	1.2	1.4
1969	1.2	1.2	1.0	1.0	.9	.9	.9	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	-	1.7	1.4	1.0	.9	.8	.8	1.5	1.0 ^P				

p=preliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^F
-	MANUFACTURING	4.2	5.2	3.0	3.9	4.3	5.2	1.9	3.1	1.5	1.0
19,24,25,32-39	DURABLE GOODS	3.6	4.7	2.6	3.5	3.7	4.7	1.6	2.6	1.3	1.0
20-23,26-31	NONDURABLE GOODS	5.0	6.0	3.5	4.5	5.0	5.9	2.4	3.8	1.8	1.1
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	2.1	2.2	1.2	1.6	1.7	1.9	.7	1.1	.6	.3
192	Ammunition, except for small arms	2.1	-	1.2	-	1.5	-	.6	-	.5	-
24	LUMBER AND WOOD PRODUCTS	5.7	6.9	4.9	6.1	5.4	7.0	3.3	5.1	1.1	.6
242	Sawmills and planing mills	4.7	-	4.0	-	4.5	-	2.9	-	.9	-
2421	Sawmills and planing mills, general	4.4	-	3.7	-	4.3	-	2.7	-	.8	-
243	Millwork, plywood and related products	6.3	-	5.8	-	6.0	-	3.5	-	1.3	-
2431	Millwork	6.3	-	5.9	-	5.0	-	3.5	-	.4	-
2432	Veneer and plywood	4.7	-	4.0	-	4.3	-	2.4	-	1.0	-
244	Wooden containers	8.0	-	7.2	-	9.1	-	6.2	-	1.9	-
2441,2	Wooden boxes, shooks, and crates	7.7	-	7.1	-	9.1	-	6.4	-	1.8	-
249	Miscellaneous wood products	5.5	-	4.7	-	5.6	-	3.8	-	1.0	-
25	FURNITURE AND FIXTURES	5.9	8.3	4.7	7.3	6.3	7.7	3.4	5.4	1.7	.8
251	Household furniture	6.2	-	4.9	-	6.7	-	3.8	-	1.8	-
2511	Wood household furniture	7.2	-	5.6	-	7.2	-	4.2	-	1.7	-
2512	Upholstered household furniture	4.8	-	3.9	-	5.5	-	3.6	-	1.1	-
2515	Mattresses and bedsprings	6.5	-	5.3	-	5.4	-	3.2	-	1.2	-
252	Office furniture	3.9	-	3.7	-	4.5	-	2.4	-	1.4	-
32	STONE, CLAY, AND GLASS PRODUCTS	4.5	4.5	3.4	3.6	3.7	5.2	1.9	3.1	.9	.9
321	Flat glass	3.7	-	2.1	-	1.8	-	.6	-	.7	-
322	Glass and glassware, pressed or blown	3.6	-	2.6	-	2.5	-	1.1	-	.4	-
3221	Glass containers	3.7	-	2.9	-	2.1	-	1.3	-	.1	-
3229	Pressed and blown glass, nec	3.4	-	2.1	-	2.9	-	.8	-	.8	-
324	Cement, hydraulic	1.8	-	1.3	-	1.3	-	.4	-	.1	-
325	Structural clay products	6.0	-	5.1	-	5.2	-	3.3	-	.8	-
3251	Brick and structural clay tile	8.0	-	7.4	-	6.4	-	4.8	-	.3	-
326	Pottery and related products	4.4	-	3.7	-	3.8	-	1.7	-	.9	-
3291	Abrasive products	2.2	-	1.7	-	2.7	-	1.1	-	.9	-
33	PRIMARY METAL INDUSTRIES	2.4	3.0	1.5	2.0	2.9	3.9	.8	1.6	1.1	1.2
331	Blast furnace and basic steel products	1.9	-	.7	-	2.7	-	.4	-	1.3	-
3312	Blast furnaces and steel mills	1.9	-	.7	-	2.7	-	.3	-	1.4	-
332	Iron and steel foundries	3.2	-	2.4	-	3.3	-	1.4	-	1.0	-
3321	Gray iron foundries	3.3	-	2.6	-	2.9	-	1.5	-	.6	-
3322	Malleable iron foundries	3.4	-	2.5	-	4.2	-	1.3	-	2.1	-
3323	Steel foundries	3.0	-	2.1	-	3.9	-	1.2	-	1.7	-
333,4	Nonferrous metals	2.0	-	1.8	-	2.4	-	.8	-	.5	-
335	Nonferrous rolling and drawing	2.1	-	1.4	-	2.4	-	.8	-	.8	-
3351	Copper rolling and drawing	2.3	-	1.6	-	3.2	-	.8	-	1.4	-
3352	Aluminum rolling and drawing	1.8	-	1.1	-	1.6	-	.6	-	.4	-
3357	Nonferrous wire drawing, and insulating	2.3	-	1.7	-	2.5	-	.9	-	.8	-
336	Nonferrous foundries	4.6	-	3.6	-	5.5	-	2.2	-	2.0	-
3361	Aluminum castings	5.4	-	4.0	-	5.7	-	2.6	-	1.9	-
3362,9	Other nonferrous castings	3.6	-	3.0	-	5.3	-	1.6	-	2.1	-
339	Miscellaneous primary metal products	2.2	-	1.5	-	2.5	-	.9	-	.8	-
3391	Iron and steel forgings	1.8	-	1.3	-	2.5	-	.8	-	.8	-
34	FABRICATED METAL PRODUCTS	4.5	5.5	3.2	4.3	4.0	4.9	1.8	3.1	1.2	.8
341	Metal cans	4.9	-	2.0	-	3.2	-	.7	-	1.2	-
342	Cutlery, hand tools, and hardware	3.7	-	2.7	-	3.2	-	1.5	-	.9	-
3421,3,5	Cutlery and hand tools, incl. saws	3.1	-	2.1	-	3.6	-	1.5	-	1.3	-
3429	Hardware, nec	4.1	-	3.6	-	2.9	-	1.5	-	.6	-
343	Plumbing and heating, except electric	3.3	-	2.6	-	3.8	-	1.6	-	1.4	-
3431,2	Sanitary ware and plumbers' brass goods	3.1	-	2.4	-	4.0	-	1.4	-	1.8	-
3433	Heating equipment, except electric	3.5	-	2.9	-	3.5	-	1.7	-	1.1	-
344	Fabricated structural metal products	4.9	-	4.0	-	4.0	-	2.2	-	.9	-
3441	Fabricated structural steel	5.1	-	3.9	-	4.0	-	2.1	-	.9	-
3443	Fabricated plate work (boiler shops)	2.4	-	1.7	-	2.5	-	1.1	-	.8	-
3446,9	Architectural and misc. metal work	5.7	-	4.8	-	4.4	-	2.8	-	.6	-
345	Screw machine products, bolts, etc.	2.8	-	2.4	-	2.9	-	1.6	-	.5	-
3452	Bolts, nuts, rivets, and washers	2.3	-	2.0	-	2.4	-	1.3	-	.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry—Continued

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P
	DURABLE GOODS — Continued										
	FABRICATED METAL PRODUCTS — Continued										
346	Metal stampings	4.5	-	2.7	-	4.3	-	1.4	-	1.8	-
348	Miscellaneous fabricated wire products	4.7	-	3.2	-	5.0	-	2.5	-	1.6	-
349	Miscellaneous fabricated metal products	3.6	-	2.4	-	3.8	-	1.7	-	1.4	-
3494,8	Valves, pipe, and pipe fittings	3.1	-	2.1	-	3.7	-	1.4	-	1.7	-
35	MACHINERY, EXCEPT ELECTRICAL	3.0	3.5	2.0	2.7	2.7	3.3	1.2	1.9	.8	0.6
351	Engines and turbines	2.2	-	.9	-	2.0	-	.4	-	.5	-
3511	Steam engines and turbines	1.3	-	.6	-	1.3	-	.3	-	.1	-
3519	Internal combustion engines, nec	2.7	-	1.1	-	2.4	-	.5	-	.8	-
352	Farm machinery	3.2	-	1.7	-	3.6	-	1.1	-	1.4	-
353	Construction and related machinery	3.9	-	1.9	-	2.2	-	1.1	-	.5	-
3531,2	Construction and mining machinery	4.7	-	1.3	-	1.8	-	.8	-	.5	-
3533	Oil field machinery	3.5	-	3.1	-	2.7	-	1.8	-	.1	-
3535,6	Conveyors, hoists, cranes, monorails	2.7	-	2.1	-	2.1	-	1.1	-	.4	-
354	Metal working machinery	2.6	-	2.0	-	2.6	-	1.3	-	.7	-
3541	Machine tools, metal cutting types	1.6	-	1.4	-	1.4	-	.7	-	.1	-
3545	Machine tool accessories	3.0	-	1.9	-	3.0	-	1.2	-	1.2	-
3542,8	Miscellaneous metal working machinery	2.4	-	1.4	-	2.7	-	1.1	-	1.1	-
355	Special industry machinery	2.7	-	1.6	-	3.0	-	1.0	-	1.3	-
3551	Food products machinery	2.6	-	1.9	-	2.6	-	1.2	-	.8	-
3552	Textile machinery	5.7	-	1.4	-	6.8	-	1.2	-	4.9	-
356	General industrial machinery	2.4	-	1.8	-	2.2	-	1.0	-	.5	-
3561	Pumps and compressors	2.1	-	1.6	-	2.0	-	.9	-	.5	-
3562	Ball and roller bearings	2.4	-	1.7	-	1.7	-	.6	-	.2	-
3566	Power transmission equipment	1.9	-	1.4	-	1.9	-	1.1	-	.2	-
357	Office and computing machines	2.8	-	2.3	-	2.0	-	1.1	-	.2	-
3573	Electronic computing equipment	3.1	-	2.6	-	1.9	-	1.1	-	.1	-
358	Service industry machines	3.5	-	2.8	-	3.5	-	1.6	-	.8	-
3585	Refrigeration machinery	3.6	-	2.9	-	3.8	-	1.6	-	1.0	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	2.9	4.5	1.9	3.1	3.0	4.3	1.3	2.4	.8	.9
361	Electric test and distributing equipment	2.5	-	1.8	-	2.4	-	1.3	-	.5	-
3611	Electric measuring instruments	2.8	-	2.2	-	1.6	-	1.1	-	.1	-
3612	Transformers	2.1	-	1.2	-	3.1	-	1.2	-	1.0	-
3613	Switchgear and switchboard apparatus	2.3	-	1.8	-	2.9	-	1.4	-	.5	-
362	Electrical industrial apparatus	2.0	-	1.4	-	2.4	-	1.1	-	.5	-
3621	Motors and generators	1.8	-	1.2	-	2.6	-	1.1	-	.8	-
3622	Industrial controls	2.4	-	1.6	-	2.4	-	1.3	-	.2	-
363	Household appliances	3.7	-	2.3	-	4.3	-	1.9	-	1.2	-
3632	Household refrigerators and freezers	5.7	-	2.1	-	5.7	-	2.0	-	1.1	-
3633	Household laundry equipment	1.0	-	.6	-	1.9	-	1.0	-	.4	-
3634	Electric housewares and fans	5.2	-	4.5	-	5.4	-	2.7	-	1.8	-
364	Electric lighting and wiring equipment	3.5	-	2.3	-	3.9	-	1.3	-	1.7	-
3641	Electric lamps	1.4	-	.7	-	4.3	-	.6	-	2.7	-
3642	Lighting fixtures	5.6	-	3.7	-	4.9	-	1.8	-	2.1	-
3643,4	Wiring devices	3.0	-	2.1	-	3.1	-	1.3	-	1.0	-
365	Radio and TV receiving equipment	3.0	-	1.5	-	2.8	-	1.2	-	.5	-
366	Communication equipment	1.9	-	1.4	-	1.9	-	.8	-	.5	-
3661	Telephone and telegraph apparatus	1.5	-	1.1	-	1.1	-	.4	-	.2	-
3662	Radio and TV communication equipment	2.1	-	1.5	-	2.3	-	.9	-	.6	-
367	Electronic components and accessories	3.7	-	2.6	-	3.7	-	1.8	-	.9	-
3671-3	Electron tubes	1.4	-	.8	-	3.2	-	.6	-	1.7	-
3674,9	Other electronic components	4.0	-	2.8	-	3.8	-	2.0	-	.8	-
369	Miscellaneous electrical equipment and supplies	3.5	-	2.3	-	3.1	-	1.3	-	.7	-
3694	Engine electrical equipment	2.0	-	1.6	-	1.7	-	.9	-	(¹)	-
37	TRANSPORTATION EQUIPMENT	3.9	-	2.5	-	5.1	-	1.5	-	2.6	-
371	Motor vehicles and equipment	3.3	-	2.2	-	5.4	-	1.1	-	3.4	-
3711	Motor vehicles	3.6	-	2.4	-	8.7	-	1.3	-	6.6	-
3712	Passenger car bodies	2.1	-	1.7	-	.9	-	.2	-	.1	-
3713	Truck and bus bodies	3.0	-	2.8	-	2.8	-	1.8	-	.3	-
3714	Motor vehicle parts and accessories	2.9	-	1.7	-	3.2	-	.9	-	1.3	-
372	Aircraft and parts	2.1	-	1.4	-	2.0	-	.8	-	.8	-
3721	Aircraft	2.0	-	1.2	-	1.8	-	.6	-	.8	-
3722	Aircraft engines and engine parts	1.6	-	1.0	-	1.8	-	.8	-	.4	-
3723,9	Other aircraft parts and equipment	3.0	-	2.3	-	2.9	-	1.3	-	.9	-
373	Ship and boat building and repairing	7.2	-	3.9	-	7.2	-	2.3	-	3.3	-
3731	Ship building and repairing	7.9	-	4.1	-	7.6	-	2.1	-	3.8	-
374	Railroad equipment	3.7	-	1.5	-	2.3	-	.5	-	.9	-
375,9	Other transportation equipment	7.7	-	6.4	-	10.2	-	4.7	-	3.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry—Continued

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P
DURABLE GOODS — Continued											
38	INSTRUMENTS AND RELATED PRODUCTS	2.2	2.9	1.6	2.3	2.7	3.5	1.2	2.1	0.7	0.5
381	Engineering and scientific instruments	2.2	-	1.9	-	1.9	-	1.1	-	.3	-
382	Mechanical measuring and control devices	2.3	-	1.7	-	2.6	-	1.2	-	.4	-
3821	Mechanical measuring devices	2.1	-	1.8	-	2.3	-	1.2	-	.3	-
3822	Automatic temperature controls	2.7	-	1.7	-	3.1	-	1.3	-	.6	-
383,5	Optical and ophthalmic goods	3.7	-	2.2	-	3.8	-	1.6	-	.9	-
384	Medical instruments and supplies	2.6	-	1.9	-	2.7	-	1.4	-	.7	-
386	Photographic equipment and supplies .....	.9	-	.7	2	2.1	-	.6	-	.4	-
387	Watches, clocks, and watchcases	2.6	-	1.5	-	4.7	-	1.5	-	2.6	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	5.6	7.3	3.9	5.7	5.4	6.4	2.3	3.9	2.0	1.2
391	Jewelry, silverware, and plated ware	4.2	-	2.5	-	6.6	-	2.1	-	3.6	-
394	Toys and sporting goods	8.4	-	6.0	-	6.6	-	3.0	-	2.3	-
3941-3	Games, toys, dolls and play vehicles	12.0	-	8.6	-	6.9	-	3.4	-	1.7	-
3949	Sporting and athletic goods, nec	4.2	-	2.9	-	6.2	-	2.4	-	2.9	-
395	Pens, pencils, office and art supplies	3.7	-	3.1	-	3.4	-	1.9	-	.6	-
396	Costume jewelry and notions	4.7	-	3.2	-	5.8	-	3.0	-	1.7	-
393,9	Other manufacturing industries	4.7	-	3.1	-	4.4	-	1.8	-	1.7	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	8.3	9.4	5.8	7.3	6.3	8.2	3.1	5.3	2.4	1.9
201	Meat products	6.9	-	5.6	-	6.4	-	4.6	-	.9	-
2011	Meat packing plants	3.7	-	2.3	-	3.8	-	1.7	-	1.4	-
2015	Poultry dressing plants	12.7	-	11.6	-	11.8	-	10.1	-	.2	-
204	Grain mill products	3.4	-	2.6	-	3.1	-	1.6	-	.8	-
2041	Flour and other grain mill products	2.8	-	1.9	-	1.8	-	.9	-	.4	-
2042	Prepared feeds for animals and fowls	3.9	-	3.3	-	4.3	-	2.5	-	1.1	-
205	Bakery products	3.5	-	3.0	-	3.0	-	2.0	-	.3	-
2051	Bread, cake, and related products	3.2	-	2.9	-	3.1	-	2.1	-	.2	-
2052	Cookies and crackers	5.2	-	3.3	-	2.6	-	1.5	-	.5	-
207	Confectionery and related products	8.0	-	2.8	-	6.4	-	2.4	-	3.0	-
2071	Confectionery products	9.2	-	3.2	-	7.9	-	2.9	-	3.7	-
208	Beverages	5.2	-	4.1	-	4.4	-	2.4	-	1.2	-
2082	Malt liquors	3.8	-	1.8	-	3.8	-	.5	-	2.7	-
21	TOBACCO MANUFACTURES	8.9	-	3.3	-	2.6	-	.7	-	1.0	-
211	Cigarettes .....	.9	-	.2	-	.9	-	.3	-	(1)	-
212	Cigars	6.2	-	3.7	-	6.7	-	2.1	-	3.9	-
22	TEXTILE MILL PRODUCTS	4.6	5.7	3.4	4.8	5.4	6.4	3.0	4.4	1.4	.8
221	Weaving mills, cotton	3.0	-	2.3	-	3.9	-	2.2	-	.8	-
222	Weaving mills, synthetics	3.6	-	3.0	-	4.4	-	2.8	-	.8	-
223	Weaving and finishing mills, wool	4.4	-	3.1	-	5.7	-	3.0	-	1.7	-
224	Narrow fabric mills	5.8	-	2.7	-	7.0	-	2.6	-	3.6	-
225	Knitting mills	5.3	-	4.2	-	6.2	-	3.5	-	1.9	-
2251	Women's hosiery, except socks	5.9	-	5.1	-	5.9	-	4.2	-	.9	-
2252	Hosiery, nec	5.6	-	4.9	-	5.2	-	4.1	-	.6	-
2254	Knit underwear mills	4.0	-	3.6	-	4.8	-	3.6	-	.3	-
226	Textile finishing, except wool	4.0	-	2.3	-	4.5	-	1.8	-	1.9	-
227	Floor covering mills	3.8	-	3.0	-	5.3	-	2.8	-	.4	-
228	Yarn and thread mills	6.6	-	5.2	-	7.1	-	4.6	-	1.3	-
229	Miscellaneous textile goods	3.4	-	2.3	-	3.9	-	1.7	-	1.4	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.4	7.4	3.8	5.1	8.1	7.0	3.3	4.7	3.6	1.3
231	Men's and boys' suits and coats	6.3	-	2.1	-	8.4	-	1.8	-	5.2	-
232	Men's and boys' furnishings	5.9	-	4.2	-	7.6	-	4.3	-	2.3	-
2321	Men's and boys' shirts and nightwear	5.2	-	3.3	-	7.4	-	3.7	-	2.8	-
2327	Men's and boys' separate trousers	4.9	-	3.7	-	7.0	-	3.8	-	2.3	-
2328	Men's and boys' work clothing	6.3	-	5.6	-	8.5	-	5.7	-	1.6	-
234	Women's and children's undergarments	6.3	-	4.5	-	7.1	-	3.7	-	2.6	-
2341	Women's and children's underwear	6.9	-	4.9	-	7.4	-	4.1	-	2.3	-
2342	Corsets and allied garments	4.5	-	3.1	-	6.3	-	2.4	-	3.4	-
26	PAPER AND ALLIED PRODUCTS	2.8	3.4	2.0	2.6	2.9	4.3	1.2	2.4	.9	1.0
261,2,6	Paper and pulp mills	2.1	-	1.3	-	1.9	-	.6	-	.9	-
263	Paperboard mills	1.7	-	1.2	-	1.9	-	.8	-	.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry—Continued

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P	July 1977	Aug. 1977 ^P
	NONDURABLE GOODS—Continued										
	PAPER AND ALLIED PRODUCTS—Continued										
264	Miscellaneous converted paper products	3.4	-	2.8	-	3.2	-	1.7	-	0.7	-
2643	Bags, except textile bags	3.5	-	2.7	-	3.2	-	1.9	-	.6	-
265	Paperboard containers and boxes	3.2	-	2.2	-	3.8	-	1.5	-	1.4	-
2651,2	Folding and setup paperboard boxes	4.2	-	2.7	-	5.0	-	1.6	-	2.4	-
2653	Corrugated and solid fiber boxes	2.9	-	2.0	-	3.2	-	1.5	-	.8	-
27	PRINTING AND PUBLISHING	3.0	4.0	2.5	3.3	2.9	4.0	1.7	2.7	.6	0.7
28	CHEMICALS AND ALLIED PRODUCTS	1.8	2.1	1.4	1.6	1.7	2.5	.7	1.5	.3	.3
281	Industrial chemicals	1.3	-	1.0	-	1.2	-	.5	-	.2	-
282	Plastics materials and synthetics	1.2	-	.9	-	1.3	-	.5	-	.2	-
2821	Plastics materials and resins	1.5	-	1.2	-	1.6	-	.6	-	.2	-
2823,4	Synthetic fibers	1.0	-	.6	-	1.1	-	.5	-	.2	-
283	Drugs	1.7	-	1.4	-	1.6	-	.7	-	.3	-
2834	Pharmaceutical preparations	1.8	-	1.5	-	1.6	-	.8	-	.3	-
284	Soap, cleaners, and toilet goods	3.6	-	2.5	-	2.1	-	.9	-	.6	-
2841	Soap and other detergents	2.5	-	1.4	-	1.6	-	.4	-	.6	-
2844	Toilet preparations	5.1	-	3.6	-	2.5	-	1.2	-	.4	-
285	Paints and allied products	2.2	-	1.9	-	1.9	-	1.0	-	.3	-
286,9	Other chemical products	2.6	-	2.2	-	2.7	-	1.1	-	.7	-
29	PETROLEUM AND COAL PRODUCTS	2.2	2.5	1.9	2.2	2.0	3.7	.9	2.1	.3	.9
291	Petroleum refining	1.5	-	1.2	-	1.6	-	.6	-	.2	-
295,9	Other petroleum and coal products	4.4	-	3.9	-	3.3	-	1.8	-	.5	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	4.7	5.7	3.7	4.7	4.9	6.4	2.5	4.0	1.2	1.0
301	Tires and inner tubes	1.4	-	.8	-	1.8	-	.6	-	.4	-
302,3,6	Other rubber products	3.9	-	2.9	-	4.6	-	1.9	-	1.5	-
307	Miscellaneous plastics products	6.1	-	5.0	-	6.0	-	3.4	-	1.3	-
31	LEATHER AND LEATHER PRODUCTS	8.2	9.8	4.6	6.5	10.9	8.8	4.2	6.1	5.6	1.4
311	Leather tanning and finishing	4.9	-	3.0	-	7.3	-	2.8	-	3.5	-
314	Footwear, except rubber	7.7	-	5.0	-	11.6	-	4.9	-	5.6	-
	NONMANUFACTURING										
10	METAL MINING	2.2	3.4	1.8	2.5	3.7	6.9	1.6	3.9	1.1	2.0
101	Iron ores	2.3	-	1.3	-	4.3	-	.4	-	2.8	-
102	Copper ores	1.4	-	1.3	-	3.1	-	1.1	-	.8	-
11,12	COAL MINING	1.2	1.6	1.0	1.3	1.6	2.8	.7	1.2	.4	1.0
12	Bituminous coal and lignite mining	1.2	-	1.0	-	1.6	-	.7	-	.4	-
	COMMUNICATION:										
481	Telephone communication .....	.9	-	-	-	.7	-	.4	-	.1	-
482	Telegraph communication ² .....	.8	-	-	-	.5	-	.2	-	.2	-

¹ Less than 0.05.

P = preliminary.

² Data relate to all employees except messengers.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1965 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1965	4.1	4.2	4.3	4.1	4.1	4.2	4.2	4.3	4.5	4.4	4.7	4.9
1966	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.3	4.4	4.2	4.3	4.4	4.4	4.5	4.5	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.7	4.6	4.8	4.9	4.7
1974	4.6	4.5	4.5	4.6	4.6	4.3	4.3	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	3.9	3.8	3.7	3.7	3.9
1976	4.1	4.2	4.4	4.1	4.0	3.8	3.8	3.8 ^P	3.6	3.5	3.8	4.0
1977	4.0	4.6	4.3	4.1	4.1	3.9	3.9	3.7 ^P				
New hires												
1965	2.9	3.0	3.1	2.9	2.9	3.0	3.0	3.1	3.1	3.3	3.5	3.7
1966	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970	3.4	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.4	3.6	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.6	3.8	3.9	3.8
1974	3.7	3.6	3.6	3.6	3.5	3.3	3.3	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.2	2.5
1976	2.6	2.8	3.0	2.8	2.7	2.7	2.5	2.5	2.4	2.3	2.4	2.5
1977	2.7	2.9	3.0	3.0	3.0	2.8	2.8	2.7 ^P				
Total separations												
1965	3.8	3.8	3.8	4.0	4.0	4.0	3.9	4.4	4.1	4.3	4.3	4.5
1966	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.5
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.5	4.7	4.7	4.7
1974	4.9	4.9	4.8	4.7	4.6	4.6	4.5	4.5	4.5	4.9	5.1	4.9
1975	5.2	5.0	4.5	4.4	4.6	4.3	3.9	3.8	3.9	3.8	3.8	3.6
1976	3.5	3.6	3.8	3.8	3.8	3.9	3.9	4.0 ^P	4.1	4.0	3.6	3.6
1977	3.9	4.1	3.7	3.8	3.8	3.9	3.9	4.0 ^P				
Quits												
1965	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.1	2.2
1966	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970	2.5	2.5	2.3	2.3	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.7
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.1	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.4	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.8	1.7	1.7	1.6	1.5	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.8 ^P				
Layoffs												
1965	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.4
1966	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.6	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	1.1	.9	.9	.9	.9	1.0
1974	1.3	1.2	1.1	1.0	1.1	1.2	1.2	1.3	1.5	2.0	2.4	2.4
1975	2.9	2.9	2.6	2.4	2.5	2.2	1.7	1.6	1.8	1.7	1.5	1.3
1976	1.1	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.7	1.6	1.3	1.1
1977	1.3	1.4	1.0	1.0	1.1	1.2	1.3	1.3 ^P				

p=preliminary.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

D-4. Labor turnover rates in manufacturing for selected States and areas

[Per 100 employees]

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P
ALABAMA:										
Birmingham	4.4	2.8	2.3	1.9	2.8	2.7	1.2	1.3	0.7	0.5
Mobile ¹	10.1	7.8	4.0	2.0	6.2	8.3	2.0	1.7	3.4	6.0
ALASKA	30.4	29.6	21.5	26.6	7.2	16.7	5.1	8.6	1.3	7.3
ARIZONA	5.6	5.4	4.5	3.9	4.1	4.7	2.4	2.4	.5	.7
Phoenix	5.5	5.7	4.5	4.0	4.1	4.7	2.4	2.2	.5	.8
ARKANSAS	7.7	6.6	7.0	5.6	6.7	7.0	4.7	4.7	.8	.9
Fort Smith	9.3	8.7	8.2	7.4	8.5	9.5	5.5	6.9	.8	.1
Little Rock—North Little Rock	6.2	4.6	5.9	4.3	4.6	4.3	2.9	3.0	.4	.1
Pine Bluff	4.9	5.5	2.9	4.2	4.9	6.0	3.3	3.9	.9	1.3
COLORADO ²	5.7	4.3	4.8	3.8	3.3	3.8	2.1	2.4	.3	.5
Denver—Boulder ²	5.3	3.8	4.6	3.5	3.3	4.3	2.1	2.9	.5	.5
CONNECTICUT	2.7	2.0	2.1	1.5	2.1	2.3	1.0	1.0	.4	.5
Hartford	2.3	1.8	1.9	1.2	1.5	2.4	.8	1.4	.2	.4
DELAWARE ¹	5.1	2.1	1.7	1.3	2.0	2.6	.9	.7	.4	1.3
Wilmington ¹	5.1	1.9	1.7	1.1	1.9	2.5	.8	.7	.4	1.3
DISTRICT OF COLUMBIA:										
Washington SMSA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
FLORIDA	5.7	5.1	4.9	4.3	5.2	5.1	2.8	2.7	1.3	1.4
Fort Lauderdale—Hollywood	5.8	5.8	5.3	5.3	5.1	5.8	3.0	3.6	.6	1.1
Jacksonville	5.2	5.1	4.5	4.6	3.9	5.3	2.2	2.5	.8	1.2
Miami	5.7	5.1	4.9	4.4	4.4	4.8	2.5	2.9	1.2	1.1
Orlando	4.8	5.0	3.8	3.5	6.3	5.4	2.5	2.2	2.9	2.2
Pensacola	2.5	2.0	1.8	1.8	1.8	2.3	1.4	1.6	(³)	.2
Tampa—St. Petersburg	6.4	5.6	5.5	4.9	6.1	6.0	3.4	3.4	1.8	1.6
West Palm Beach—Boca Raton	3.7	3.2	3.4	3.1	3.4	2.9	1.7	1.6	.8	.6
GEORGIA	4.8	4.3	4.0	3.5	4.0	3.8	2.6	2.7	.5	.3
Atlanta ⁴	4.2	4.3	3.6	3.5	3.4	3.2	2.1	1.9	.6	.5
HAWAII ⁵	2.4	2.3	2.1	1.4	1.9	1.7	1.0	1.0	.3	.3
IDAHO ⁶	8.6	6.5	6.4	5.2	5.3	5.5	3.5	3.2	.9	1.1
ILLINOIS:										
Chicago SMSA	3.8	3.0	3.1	2.8	2.8	3.4	1.5	1.8	.3	.5
INDIANA	3.7	2.9	2.7	2.1	2.7	2.9	1.3	1.4	.6	.6
Indianapolis ⁷	3.3	2.2	2.6	1.6	2.4	2.0	1.3	1.0	.4	.1
IOWA ²	3.9	3.2	3.0	2.3	3.1	2.8	1.6	1.6	.8	.6
Cedar Rapids ²	3.3	3.2	2.0	1.8	3.2	2.1	.9	1.0	1.7	.8
Des Moines ²	3.6	3.5	2.6	2.9	2.8	3.5	1.5	1.8	.4	.6
KANSAS	5.2	4.3	4.4	3.5	4.9	4.4	3.3	3.1	.7	.6
Topeka	3.3	2.9	3.0	2.3	3.6	4.0	1.5	1.5	1.5	2.0
Wichita	4.8	4.6	3.7	3.4	4.0	3.8	2.9	3.0	.2	.1
KENTUCKY	5.1	3.9	3.7	2.7	4.1	4.5	2.1	2.0	1.1	1.5
Louisville	3.4	2.8	2.3	1.5	2.2	2.5	.8	.9	.3	.6
LOUISIANA:										
New Orleans	6.8	4.2	4.6	3.6	4.6	4.7	2.6	2.3	.9	1.3
MAINE	8.6	6.1	6.7	4.6	6.1	5.3	3.6	3.3	1.6	1.1
Portland	5.9	2.6	5.1	2.1	3.5	3.3	2.0	2.0	.7	.5
MARYLAND	3.4	3.2	2.4	1.9	2.8	4.2	1.2	1.2	1.0	2.3
Baltimore	3.0	2.8	2.0	1.5	2.6	4.6	1.0	1.0	1.0	2.9
MASSACHUSETTS	4.2	4.3	3.2	2.1	3.0	7.9	1.5	1.5	.6	5.6
Boston	3.7	3.0	3.0	1.9	2.5	12.8	1.3	1.2	.5	10.8
MICHIGAN	3.7	3.1	2.6	2.1	2.4	5.1	.9	1.0	.6	3.3
Detroit	4.0	3.5	2.7	2.5	2.6	4.0	1.1	1.2	.4	1.8
Flint	2.7	2.4	2.1	1.9	1.7	13.0	.5	.5	.2	11.6
Grand Rapids	5.4	3.0	3.6	2.0	3.7	4.1	1.6	1.4	1.0	1.3
Lansing—East Lansing	8.5	4.8	5.5	3.3	1.8	36.1	.6	.8	.2	32.3

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

[Per 100 employees]

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P
MINNESOTA	5.5	4.1	4.7	3.2	3.1	3.1	1.9	1.7	0.6	0.8
Minneapolis—St. Paul	4.5	2.9	3.8	2.4	2.7	2.4	1.6	1.4	.4	.4
MISSISSIPPI:										
Jackson	3.4	5.9	2.8	3.1	4.0	4.4	2.5	2.5	.6	1.2
MISSOURI ²	4.5	3.6	3.6	2.8	3.4	3.2	1.8	1.8	.7	.6
Kansas City ²	4.2	3.4	3.8	2.9	3.5	3.0	2.1	1.9	.6	.3
St. Louis ²	3.8	2.8	2.7	2.1	2.5	2.2	1.1	1.0	.6	.5
MONTANA	5.8	3.4	4.8	3.2	2.9	2.7	1.9	1.5	.4	.6
NEBRASKA	4.6	3.8	4.0	3.1	4.1	4.0	2.5	2.5	.8	.8
NEVADA	7.9	3.3	6.3	2.6	7.3	6.8	4.2	1.7	.3	4.1
NEW HAMPSHIRE	4.6	3.7	4.0	2.6	3.7	3.7	2.4	2.2	.6	.8
NEW JERSEY:										
Camden ⁸	3.4	3.9	2.5	2.1	2.3	3.7	.8	1.0	.8	1.9
Hackensack	4.0	5.1	3.1	2.5	3.6	7.8	1.5	1.8	1.0	4.8
Jersey City	3.6	4.0	2.4	2.5	3.0	5.1	1.0	1.1	1.2	3.2
Newark	4.2	3.0	2.7	1.9	2.5	3.5	1.0	.9	.7	1.7
New Brunswick—Perth Amboy—Sayreville	5.6	4.6	3.8	2.9	3.5	4.0	1.3	1.2	.7	1.6
Paterson—Clifton—Passaic	5.2	4.6	3.6	2.8	3.8	5.6	1.5	1.5	1.0	3.1
Trenton	3.6	2.6	2.6	1.6	2.9	3.6	.9	.8	.9	1.5
NEW YORK	4.4	4.5	2.8	2.4	3.4	4.9	1.1	1.2	1.5	2.9
Albany—Schenectady—Troy	3.4	3.0	2.3	1.8	2.3	2.7	.7	.7	.6	1.1
Binghamton	4.2	2.8	3.4	1.9	2.9	5.7	.9	1.0	.3	3.9
Buffalo	3.2	2.9	1.8	1.8	2.0	3.9	.6	.7	.7	2.2
Elmira	2.9	2.5	2.2	1.7	3.1	2.2	.7	.7	1.4	.7
Monroe County ⁹	2.6	1.8	2.2	1.4	1.6	2.3	.6	.7	.3	.8
Nassau—Suffolk ¹⁰	5.1	4.7	4.0	3.0	5.2	5.2	1.7	1.9	2.3	2.2
New York and Nassau—Suffolk	5.2	5.2	3.0	2.6	4.0	6.1	1.2	1.3	2.0	4.0
New York SMSA ¹⁰	5.2	5.3	2.8	2.5	3.7	6.3	1.1	1.2	1.9	4.4
New York City ¹¹	5.4	5.6	2.8	2.6	3.9	6.8	1.1	1.2	2.1	4.8
Rochester	3.0	3.3	2.4	2.4	1.8	2.5	.7	.8	.4	.8
Syracuse	3.7	3.2	2.7	1.9	2.4	3.1	.9	.8	.9	1.7
Utica—Rome	3.5	4.6	2.5	1.6	2.4	5.1	1.0	1.2	.9	3.5
Westchester County ¹¹	3.8	3.8	3.1	2.4	2.3	3.2	1.0	1.0	.6	1.5
NORTH CAROLINA	5.2	4.5	4.4	3.8	4.2	4.3	3.0	3.2	.3	.3
Charlotte—Gastonia	5.5	4.6	4.9	4.2	4.6	4.7	3.7	3.7	.1	.1
Greensboro—Winston-Salem—High Point	5.5	4.5	4.5	3.9	4.0	4.3	2.9	3.1	.3	.4
NORTH DAKOTA	4.8	4.4	3.7	3.1	4.5	4.1	2.0	2.5	1.7	.9
Fargo—Moorhead	5.4	4.2	4.2	3.4	3.3	2.8	2.0	2.1	.3	.1
OHIO	3.7	2.6	2.6	1.8	2.5	2.4	1.0	1.0	.7	.7
Akron	2.8	1.5	1.6	1.1	1.7	1.4	.8	.7	.4	.3
Canton	4.2	2.4	2.9	1.4	2.9	2.4	1.0	.8	.9	.6
Cincinnati	3.0	2.3	2.2	1.9	2.1	2.1	.9	1.2	.6	.3
Cleveland	4.2	2.4	3.3	1.8	2.7	2.5	1.2	1.2	.4	.3
Columbus	3.2	2.9	2.5	2.0	2.8	2.9	1.0	1.0	1.1	1.2
Dayton	3.5	2.2	2.6	1.7	2.5	2.5	1.1	1.0	.4	.5
Toledo	4.0	2.8	2.7	2.1	2.6	2.4	.9	1.0	.8	.7
Youngstown—Warren	2.6	2.5	1.3	1.1	2.4	2.6	.4	.4	.9	1.2
OKLAHOMA	7.0	6.0	6.1	5.3	5.8	6.2	4.3	4.4	.6	.7
Oklahoma City	6.9	5.4	6.2	4.8	6.2	5.6	4.3	4.0	.9	.7
Tulsa ¹²	6.8	5.8	5.9	5.3	4.7	5.9	3.4	3.9	.3	.8
OREGON ¹	6.9	4.5	5.4	3.7	4.0	4.1	2.3	2.1	.9	1.1
Portland ¹	6.2	4.6	4.9	3.6	3.8	4.4	2.1	1.9	.9	1.6
PENNSYLVANIA	3.8	3.6	2.4	1.6	2.8	3.5	1.0	1.0	1.2	2.0
Allentown—Bethlehem—Easton	2.9	3.3	1.7	1.5	2.0	3.5	.9	.8	.6	2.2
Allentown	5.1	5.2	3.9	1.4	4.1	8.0	2.0	1.9	1.3	5.5
Erie	4.8	3.3	3.1	1.4	2.4	3.6	1.1	1.2	.4	1.8
Harrisburg	4.2	6.4	2.5	3.1	2.3	4.5	1.1	1.5	.6	2.4
Johnstown	4.3	2.7	1.6	1.6	2.4	3.4	.9	.7	.8	2.5
Lancaster	3.8	2.6	3.3	2.0	2.6	2.4	1.6	1.5	.4	.5

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

(Per 100 employees)

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P	June 1977	July 1977 ^P
PENNSYLVANIA—Continued										
Northeast Pennsylvania	4.1	6.2	2.0	1.2	2.7	8.5	1.0	1.0	1.1	7.1
Philadelphia SMSA	3.5	2.9	2.4	1.6	2.6	2.9	.9	.9	1.0	1.4
Pittsburgh	3.1	2.4	1.7	.9	2.0	2.7	.4	.4	.9	1.5
Reading	4.2	4.3	3.2	2.4	2.9	4.6	1.5	1.5	.8	2.5
Scranton ¹³	3.7	3.5	2.1	1.6	2.3	4.4	1.3	1.2	.7	2.8
Wilkes-Barre—Hazleton ¹³	4.1	7.5	1.9	1.0	3.1	11.0	1.0	.8	1.3	9.6
Williamsport	4.0	3.0	2.7	1.1	2.0	3.9	1.0	.8	.6	2.0
York	4.5	3.3	3.2	2.3	2.8	3.3	1.2	1.4	.9	1.4
RHODE ISLAND										
Providence—Warwick—Pawtucket	5.1	4.9	3.7	3.5	4.3	4.9	2.2	2.3	1.2	1.3
.....	5.2	5.0	3.8	3.4	4.1	5.4	2.1	2.3	1.1	1.8
SOUTH CAROLINA										
Charleston—North Charleston	4.6	3.9	3.8	3.1	4.0	4.1	2.4	2.5	.7	.6
Columbia	3.9	3.5	3.4	3.0	3.7	3.5	2.1	1.8	.6	.3
Greenville—Spartanburg	4.7	4.1	4.4	3.7	3.7	3.1	2.8	2.2	(³)	.1
.....	4.4	4.0	4.1	3.4	4.9	4.1	2.8	2.8	1.0	.4
SOUTH DAKOTA										
Sioux Falls	5.5	5.0	4.4	3.8	3.7	3.9	2.4	2.6	.7	.8
.....	4.4	4.9	3.2	3.3	3.6	4.6	1.5	2.1	1.8	2.2
TENNESSEE:										
Memphis	3.8	4.0	3.1	3.2	3.3	4.0	1.7	1.9	.5	1.1
TEXAS:										
Dallas—Fort Worth	6.1	5.2	5.7	4.9	4.6	5.1	3.5	3.7	.2	.4
Houston	4.6	3.9	4.2	3.6	3.5	3.9	2.5	2.6	.2	.2
San Antonio	4.8	4.8	4.2	4.4	3.8	5.1	2.6	3.6	.6	.4
UTAH⁵										
Salt Lake City—Ogden ⁶	5.8	4.5	5.2	3.8	4.6	4.0	3.2	2.8	.4	.4
.....	5.4	4.2	5.0	3.7	5.0	3.5	3.3	2.6	.5	.2
VERMONT										
Burlington	4.0	5.1	3.1	2.7	3.0	5.0	1.6	1.6	.8	2.7
Springfield	3.4	2.4	2.6	1.9	2.0	2.4	.5	.7	1.0	1.3
.....	3.0	2.7	2.0	1.5	1.5	2.8	.7	.7	.5	1.5
VIRGINIA										
Richmond	4.3	3.5	3.5	2.8	3.1	3.5	1.9	2.0	.4	.5
.....	2.5	(*)	1.8	(*)	1.3	(*)	.7	(*)	.1	(*)
WASHINGTON:										
Seattle—Everett ¹⁴	5.3	4.1	3.5	2.9	2.8	2.6	1.3	1.3	.9	.8
WISCONSIN										
Milwaukee	4.3	3.4	3.0	2.3	2.6	2.8	1.2	1.3	.6	.8
.....	3.5	2.7	2.3	1.7	2.1	2.5	.9	1.0	.3	.8
WYOMING										
.....	10.7	7.3	9.6	6.3	6.6	7.4	4.5	5.4	.6	.2

¹ Excludes canning and preserving.

² Based on the 1967 Standard Industrial Classification Manual.

³ Less than 0.05.

⁴ Excludes agricultural chemicals, and miscellaneous manufacturing.

⁵ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁶ Excludes canning and preserving, and sugar.

⁷ Excludes canning and preserving, and newspapers.

⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁹ Subarea of Rochester Standard Metropolitan Statistical Area.

¹⁰ Area included in New York and Nassau-Suffolk combined SMSA's.

¹¹ Subarea of New York Standard Metropolitan Statistical Area.

¹² Excludes new-hire rate for transportation equipment.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹⁴ Excludes canning and preserving, printing and publishing.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P
ALABAMA	1,499.1	1,541.3	1,535.9	98.2	96.9	86.6	6.6	6.9	5.6
Birmingham	355.1	368.2	367.1	23.2	22.3	20.1	6.5	6.1	5.5
Huntsville	123.7	126.8	125.6	8.6	9.1	6.4	6.9	7.2	5.1
Mobile	168.7	171.6	171.4	10.9	11.2	10.7	6.4	6.5	6.2
Montgomery	103.3	106.8	108.0	5.5	5.2	4.7	5.3	4.9	4.3
Tuscaloosa	51.2	51.2	51.7	2.6	2.9	2.8	5.1	5.7	5.3
ALASKA	174.1	154.1	152.0	11.4	17.2	15.0	6.5	11.2	9.9
ARIZONA	929.8	946.8	948.5	86.7	65.8	68.6	9.3	7.0	7.2
Phoenix	539.7	553.3	553.1	50.4	36.0	36.3	9.3	6.5	6.6
Tucson	176.4	178.1	179.8	13.9	11.2	13.1	7.9	6.3	7.3
ARKANSAS	884.5	915.2	919.0	58.1	51.3	47.9	6.6	5.6	5.2
Fayetteville-Springdale	64.0	66.9	67.1	2.8	3.1	2.6	4.4	4.7	3.8
Fort Smith ¹	75.5	80.7	79.3	5.3	4.4	4.0	7.0	5.4	5.1
Little Rock-North Little Rock	167.9	174.5	175.5	7.8	6.8	7.1	4.7	3.9	4.0
Pine Bluff	33.3	33.6	33.7	2.6	2.2	1.9	7.7	6.5	5.7
CALIFORNIA	9,789.2	10,034.6	10,073.2	842.3	767.3	720.3	8.6	7.6	7.2
Anaheim-Santa Ana-Garden Grove	823.6	868.2	863.8	48.0	39.3	37.0	5.8	4.5	4.3
Bakersfield	159.1	160.1	161.3	12.1	10.5	11.6	7.6	6.6	7.2
Fresno	236.5	245.6	255.3	16.0	16.3	16.2	6.8	6.6	6.3
Los Angeles-Long Beach	3,270.9	3,338.5	3,323.0	286.4	244.2	229.8	8.8	7.3	6.9
Modesto	126.6	129.8	136.0	10.0	16.6	9.5	7.9	12.8	7.0
Oxnard-Simi Valley-Ventura	179.6	187.1	190.8	14.2	14.1	15.2	7.9	7.5	8.0
Riverside-San Bernardino-Ontario	476.2	494.2	479.9	48.0	42.8	42.6	10.1	8.7	8.9
Sacramento	397.8	419.8	426.7	29.6	32.2	28.2	7.4	7.7	6.6
Salinas-Seaside-Monterey	114.3	121.5	123.1	7.9	7.2	7.2	6.9	5.9	5.8
San Diego	656.2	664.1	664.8	78.5	66.2	62.7	12.0	10.0	9.4
San Francisco-Oakland	1,533.3	1,525.0	1,522.2	153.4	132.4	126.4	10.0	8.7	8.3
San Jose	574.7	589.5	592.3	39.0	36.2	30.6	6.8	6.1	5.2
Santa Barbara-Santa Maria-Lompoc	122.5	130.9	132.3	8.1	8.1	7.9	6.6	6.2	6.0
Santa Rosa	102.7	107.0	109.2	9.8	9.1	8.7	9.5	8.5	8.0
Stockton	151.5	150.8	159.9	9.9	14.2	10.2	6.5	9.4	6.4
Valljo-Fairfield-Napa	109.4	114.0	115.8	7.3	7.2	7.1	6.7	6.3	6.1
COLORADO	1,242.9	N.A.	N.A.	67.8	N.A.	N.A.	5.5	N.A.	N.A.
Denver-Boulder	725.3	N.A.	N.A.	41.8	N.A.	N.A.	5.8	N.A.	N.A.
CONNECTICUT	1,491.1	1,478.2	1,471.1	142.2	109.8	100.2	9.5	7.4	6.8
Bridgeport	185.8	177.8	178.0	20.0	13.6	13.0	10.8	7.7	7.3
Hartford	349.7	353.1	348.3	31.4	25.5	23.2	9.0	7.2	6.7
New Britain	69.3	69.3	70.4	7.8	5.6	5.2	11.3	8.0	7.5
New Haven-West Haven	199.5	192.9	193.1	20.5	15.7	15.3	10.3	8.2	7.9
Stamford	110.0	109.2	109.2	7.9	5.6	5.3	7.2	5.1	4.9
Waterbury	108.5	106.8	104.9	11.5	9.7	7.7	10.6	9.0	7.3
DELAWARE	262.9	261.2	259.5	24.4	19.5	19.9	9.3	7.5	7.7
Wilmington ¹	227.7	N.A.	N.A.	22.5	N.A.	N.A.	9.9	N.A.	N.A.
DISTRICT OF COLUMBIA	339.0	341.9	340.1	30.2	28.4	27.7	8.9	8.3	8.1
Washington SMSA ¹	1,483.1	1,500.0	1,493.1	75.6	71.0	69.3	5.1	4.7	4.6
FLORIDA	3,374.1	3,461.5	3,442.0	299.2	248.1	236.2	8.9	7.2	6.9
Fort Lauderdale-Hollywood	332.2	342.4	341.7	35.3	26.2	25.6	10.6	7.6	7.5
Jacksonville	290.7	302.5	302.1	18.1	17.1	16.3	6.2	5.7	5.4
Miami	655.4	658.5	653.4	60.4	47.8	45.7	9.2	7.3	7.0
Orlando	267.5	273.6	272.6	23.9	19.4	18.8	8.9	7.1	6.9
Pensacola	104.8	112.5	112.6	5.8	5.5	4.8	5.6	4.9	4.3
Tampa-St. Petersburg	527.2	542.2	535.4	46.6	41.8	35.6	8.8	7.7	6.7
West Palm Beach-Boca Raton	184.8	185.1	185.8	20.2	15.2	15.1	10.9	8.2	8.1
GEORGIA	2,241.8	2,264.6	2,286.2	179.2	150.0	140.6	8.0	6.5	6.1
Atlanta	899.4	897.7	893.0	66.2	55.3	50.8	7.4	6.2	5.7
Augusta ¹	116.1	119.0	119.5	10.0	8.6	8.1	8.6	7.3	6.8
Columbus ¹	82.8	83.8	83.8	7.8	6.1	5.8	9.4	7.3	6.9
Macon	100.6	99.8	99.8	11.4	8.5	7.9	11.3	8.6	7.9
Savannah	82.5	83.2	83.9	7.0	6.6	6.2	8.5	8.0	7.4

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P
HAWAII	410.2	407.9	403.5	41.5	30.8	29.0	10.1	7.5	7.2
Honolulu	327.1	325.3	321.6	32.7	23.6	22.5	10.0	7.3	7.0
IDAHO	381.4	396.6	401.4	20.4	18.3	19.8	5.4	4.6	4.9
Boise City	72.5	78.0	76.9	2.4	2.4	2.3	3.4	3.1	2.9
ILLINOIS	5,084.5	5,256.9	5,230.0	296.7	270.8	255.6	5.9	5.2	4.9
Bloomington—Normal	54.9	59.0	58.0	1.9	2.6	1.8	3.4	4.4	3.1
Champaign—Urbana—Rantoul	72.9	72.8	71.8	2.6	3.0	2.7	3.6	4.1	3.7
Chicago	3,217.3	3,269.2	3,265.7	193.8	154.7	147.8	6.0	4.7	4.5
Davenport—Rock Island—Moline ¹	174.9	176.4	174.3	7.5	8.3	6.9	4.3	4.7	3.9
Decatur	59.1	58.3	57.9	3.9	3.9	3.6	6.5	6.6	6.3
Peoria	169.4	171.5	170.9	6.8	9.0	8.5	4.0	5.2	5.0
Rockford	133.0	131.9	129.6	8.5	7.3	8.9	6.4	5.5	6.8
Springfield	96.2	92.2	96.9	4.0	4.5	4.4	4.1	4.0	4.5
INDIANA	2,447.2	2,496.3	2,483.6	129.2	120.2	108.4	5.3	4.8	4.4
Evansville ¹	131.1	134.4	134.2	6.0	5.3	5.4	4.6	3.9	4.1
Fort Wayne	178.9	181.9	181.8	7.9	7.1	6.4	4.4	3.9	3.5
Gary—Hammond—East Chicago	283.3	290.0	288.9	15.1	14.4	13.6	5.3	5.0	4.7
Indianapolis	556.5	567.6	566.0	34.5	31.1	29.2	6.2	5.5	5.2
Muncie	54.4	56.2	55.3	2.8	2.1	2.0	5.1	3.8	3.7
South Bend	131.3	133.5	132.5	5.6	5.8	4.4	4.3	4.3	3.3
Terre Haute	74.9	76.0	75.8	3.8	3.4	2.8	5.0	4.4	3.7
IOWA	1,351.4	1,391.2	1,370.5	47.5	44.3	38.8	3.5	3.2	2.8
Cedar Rapids	78.8	79.6	79.0	2.3	2.6	2.1	2.9	3.3	2.6
Des Moines	163.8	166.3	167.0	6.8	5.5	5.2	4.1	3.3	3.1
Dubuque	41.2	42.6	42.3	2.0	2.0	1.9	4.9	4.6	4.4
Sioux City ¹	57.3	56.8	56.1	1.9	2.1	1.7	3.4	3.8	3.0
Waterloo—Cedar Falls	61.3	61.6	60.9	3.5	2.2	2.0	5.7	3.6	3.3
KANSAS	1,086.1	1,123.7	1,120.4	45.2	42.2	42.4	4.2	3.8	3.8
Topeka	84.8	87.3	86.2	4.0	3.5	3.2	4.7	4.0	3.7
Wichita	193.6	195.6	194.9	10.4	9.4	9.1	5.4	4.8	4.6
KENTUCKY	1,486.9	1,484.9	1,501.3	76.8	62.7	68.5	5.2	4.2	4.6
Lexington—Fayette	150.4	151.6	151.3	4.5	4.6	4.8	3.0	3.0	3.2
Louisville ¹	396.0	395.9	397.1	23.8	16.9	18.4	6.0	4.3	4.6
LOUISIANA	1,488.0	1,516.9	1,520.5	101.9	115.2	109.3	6.8	7.6	7.2
Baton Rouge	182.7	193.8	193.2	11.3	15.1	15.1	6.2	7.8	7.8
Lake Charles	59.8	61.6	60.2	4.7	5.4	4.9	7.8	8.7	8.2
Monroe	47.7	47.7	47.1	3.6	4.0	3.6	7.5	8.4	7.7
New Orleans	438.2	445.5	444.9	33.1	36.9	35.4	7.6	8.3	8.0
Shreveport	139.7	141.1	141.2	9.7	9.3	8.9	6.9	6.6	6.3
MAINE	487.8	N.A.	N.A.	36.5	N.A.	N.A.	7.5	N.A.	N.A.
Lewiston—Auburn	38.0	N.A.	N.A.	2.7	N.A.	N.A.	7.0	N.A.	N.A.
Portland	85.2	N.A.	N.A.	6.6	N.A.	N.A.	7.7	N.A.	N.A.
MARYLAND	1,919.6	1,949.2	1,935.7	121.1	109.4	104.0	6.3	5.6	5.4
Baltimore	971.6	984.2	975.1	72.5	67.9	65.2	7.5	6.0	6.7
MASSACHUSETTS	2,782.3	2,751.9	2,743.4	250.4	177.4	161.2	9.0	6.4	5.9
Boston	1,359.2	1,325.2	1,320.2	117.9	80.9	75.8	8.7	6.1	5.7
Brockton	74.6	75.7	76.1	7.8	5.7	5.4	10.4	7.6	7.1
Fall River ¹	73.3	74.0	74.1	6.1	5.5	4.4	8.3	7.4	5.9
Lawrence—Haverhill ¹	128.5	127.6	128.4	15.9	10.7	9.4	12.4	8.4	7.3
Lowell ¹	105.8	105.6	105.5	10.8	7.2	6.7	10.2	6.9	6.4
New Bedford	78.4	80.2	79.5	8.0	7.1	5.9	10.2	8.8	7.4
Springfield—Chicopee—Holyoke ¹	263.3	264.3	261.4	23.4	15.6	13.6	8.9	5.9	5.2
Worcester	189.4	186.6	186.2	16.8	10.5	9.5	8.9	5.6	5.1
MICHIGAN	4,009.2	4,076.8	4,063.3	348.3	283.6	285.2	8.7	7.0	7.0
Ann Arbor	124.5	127.4	127.2	10.0	7.0	6.9	8.0	5.5	5.4
Battle Creek	83.2	82.1	81.9	7.6	5.7	5.3	9.1	6.9	6.5
Bay City	51.5	52.8	52.0	4.6	3.4	3.1	9.0	6.5	5.9
Detroit	1,906.9	1,915.7	1,927.7	164.6	125.6	137.1	8.6	6.6	7.1
Flint	208.4	216.8	216.8	18.4	20.3	18.9	8.8	9.4	8.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P
MICHIGAN—Continued									
Grand Rapids	265.6	279.3	279.8	19.1	15.4	13.4	7.2	5.5	4.8
Jackson	66.2	65.4	65.4	5.9	4.4	4.1	8.9	6.7	6.3
Kalamazoo—Portage	126.6	128.4	129.1	9.0	6.7	6.4	7.1	5.2	4.9
Lansing—East Lansing	208.0	215.1	215.4	16.7	17.5	19.5	8.0	8.1	9.1
Muskegon—Norton Shores—Muskegon Heights	77.1	76.6	74.8	6.8	6.2	5.2	8.8	8.2	6.9
Saginaw	100.3	99.8	100.0	8.6	5.6	5.7	8.5	5.7	5.7
MINNESOTA	1,901.1	1,940.4	1,919.8	96.6	89.2	79.7	5.1	4.6	4.1
Duluth—Superior	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minneapolis—St. Paul	1,013.7	1,032.6	1,028.1	60.8	52.7	49.9	6.0	5.1	4.9
MISSISSIPPI	954.7	990.0	984.7	61.5	60.2	55.3	6.4	6.1	5.6
Jackson	136.7	139.0	138.8	7.5	6.8	6.5	5.5	4.9	4.7
MISSOURI	2,118.0	2,151.4	2,138.0	126.1	119.0	113.8	6.0	5.5	5.3
Kansas City ¹	602.0	608.0	611.6	37.1	34.8	37.0	6.2	5.7	6.0
St. Joseph	46.7	46.2	45.5	2.6	3.1	2.6	5.6	6.6	5.7
St. Louis ¹	1,030.0	1,040.4	1,036.0	73.5	61.5	59.6	7.1	5.9	5.7
Springfield	93.1	96.8	95.9	4.5	4.2	4.1	4.8	4.3	4.2
MONTANA	342.1	N.A.	N.A.	18.1	N.A.	N.A.	5.3	N.A.	N.A.
Billings	50.1	N.A.	N.A.	2.1	N.A.	N.A.	4.3	N.A.	N.A.
Great Falls	34.3	N.A.	N.A.	1.9	N.A.	N.A.	5.6	N.A.	N.A.
NEBRASKA	734.5	769.4	756.9	21.2	17.9	16.0	2.9	2.3	2.1
Lincoln	97.3	102.2	103.1	2.8	1.9	1.6	2.9	1.9	1.6
Omaha ¹	251.1	262.9	261.2	12.6	10.3	8.3	5.0	3.9	3.2
NEVADA	312.9	328.8	331.1	25.1	21.4	21.0	8.0	6.5	6.3
Las Vegas	168.9	177.5	177.9	15.4	13.6	13.1	9.1	7.6	7.4
Reno	85.6	91.9	92.3	4.7	4.1	3.9	5.4	4.5	4.2
NEW HAMPSHIRE	404.7	425.2	421.0	22.9	24.8	18.6	5.7	5.8	4.4
Manchester	64.8	71.9	71.4	3.6	4.9	3.4	5.6	6.9	4.8
NEW JERSEY	3,370.5	3,397.9	3,385.6	337.9	293.7	276.8	10.0	8.6	8.2
Atlantic City	88.1	89.0	89.4	8.3	8.6	7.8	9.4	9.6	8.7
Jersey City	258.3	251.0	250.9	36.3	31.6	29.2	14.1	12.6	11.6
Long Branch—Asbury Park	216.6	222.1	221.9	19.7	19.2	17.1	9.1	8.7	7.7
Newark	930.0	937.4	933.3	91.0	76.0	73.8	9.8	8.1	7.9
New Brunswick—Perth Amboy—Sayreville	285.4	290.3	290.7	29.7	24.2	22.3	10.4	8.3	7.7
Paterson—Clifton—Passaic	203.4	203.8	203.7	25.2	21.8	20.6	12.4	10.7	10.1
Trenton	148.2	150.5	150.1	12.4	9.8	9.3	8.4	6.5	6.2
Vineland—Millville—Bridgeton	58.0	57.4	57.8	7.1	6.8	6.4	12.2	11.8	11.1
NEW MEXICO	473.3	497.1	496.6	41.9	40.2	38.6	8.9	8.1	7.8
Albuquerque	173.3	182.7	182.6	16.4	16.0	15.7	9.4	8.8	8.6
NEW YORK	7,814.2	7,733.7	7,718.6	777.7	659.2	624.6	10.0	8.5	8.1
Albany—Schenectady—Troy	360.9	358.3	361.0	28.9	25.6	23.7	8.0	7.1	6.6
Binghamton ¹	129.8	133.9	135.3	8.9	9.8	9.5	6.9	7.3	7.0
Buffalo	576.0	570.4	567.7	58.8	49.4	46.6	10.2	8.7	8.2
Elmira	40.7	41.3	41.4	3.7	4.1	4.1	9.2	10.0	9.9
Nassau—Suffolk	1,136.4	1,135.4	1,131.8	113.5	89.3	84.2	10.0	7.9	7.4
New York	3,692.9	3,598.0	3,585.8	391.8	324.4	310.9	10.6	9.0	8.7
Poughkeepsie	98.4	99.5	99.5	6.7	5.8	5.6	6.8	5.8	5.6
Rochester	452.7	453.8	454.2	37.5	31.9	30.3	8.3	7.0	6.7
Syracuse	284.6	288.5	288.8	26.7	22.5	21.2	9.4	7.8	7.3
Utica—Rome	140.7	140.5	140.1	14.3	12.9	11.6	10.2	9.2	8.3
NORTH CAROLINA	2,646.1	2,675.0	2,653.7	151.6	153.0	125.5	5.7	5.7	4.7
Asheville	79.9	84.1	84.1	4.2	3.7	3.1	5.3	4.4	3.7
Charlotte—Gastonia	312.9	317.5	315.2	16.4	14.8	13.1	5.2	4.7	4.2
Greensboro—Winston-Salem—High Point	399.7	406.7	404.1	21.6	21.1	17.2	5.4	5.2	4.3
Raleigh—Durham	254.0	259.5	258.8	11.4	10.3	9.3	4.5	4.0	3.6
NORTH DAKOTA	305.8	314.2	319.8	9.3	10.2	9.9	3.0	3.3	3.1
Fargo—Moorhead ¹	65.9	66.2	66.3	1.9	1.9	1.6	2.9	2.9	2.5

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P
OHIO	4,703.9	4,817.8	4,793.0	324.0	296.5	286.5	6.9	6.2	6.0
Akron	288.6	292.9	290.8	21.9	17.7	17.3	7.6	6.0	5.9
Canton	175.6	178.7	175.9	12.8	11.8	10.5	7.3	6.6	6.0
Cincinnati ¹	580.2	595.3	592.0	44.8	42.0	43.4	7.7	7.1	7.3
Cleveland	883.6	905.2	902.0	54.2	49.8	47.4	6.1	5.5	5.3
Columbus	502.2	518.6	515.2	32.2	30.2	28.6	6.4	5.8	5.6
Dayton	355.6	365.0	362.8	20.8	18.9	17.5	5.9	5.2	4.8
Toledo ¹	345.9	359.3	357.9	25.7	23.4	22.3	7.4	6.5	6.2
Youngstown—Warren	231.9	234.3	233.5	19.7	17.2	19.3	8.5	7.3	8.3
OKLAHOMA	1,150.0	1,209.1	1,215.6	62.8	55.6	55.3	5.5	4.6	4.5
Oklahoma City	339.9	363.8	367.6	19.3	15.4	15.2	5.7	4.2	4.1
Tulsa	281.7	290.0	294.7	14.3	13.6	13.5	5.1	4.7	4.6
OREGON	1,084.3	1,103.4	1,109.3	90.2	87.2	83.9	8.3	7.9	7.6
Eugene—Springfield	111.7	118.1	118.1	10.9	10.9	10.4	9.8	9.2	8.8
Portland ¹	518.1	529.0	527.2	42.1	36.8	35.5	8.1	7.0	6.7
Salem	105.7	99.2	107.3	6.8	7.0	7.3	6.5	7.1	6.8
PENNSYLVANIA	5,161.7	5,134.7	5,098.0	375.6	346.4	328.0	7.3	6.7	6.4
Allentown—Bethlehem—Easton ¹	303.6	301.1	299.0	20.4	18.9	15.8	6.7	6.3	5.3
Altoona	57.4	58.9	58.8	3.6	3.3	3.0	6.3	5.7	5.0
Erie	121.8	122.6	120.2	9.2	7.8	6.5	7.6	6.3	5.4
Harrisburg	209.7	213.6	213.8	10.1	10.0	9.9	4.8	4.7	4.6
Johnstown	111.6	110.6	111.6	7.7	6.7	19.0	6.9	6.1	17.0
Lancaster	164.6	163.9	164.7	7.5	6.6	5.9	4.5	4.0	3.6
Northeast Pennsylvania	281.8	279.2	275.5	24.3	25.0	19.7	8.6	8.9	7.2
Philadelphia ¹	2,048.8	2,019.3	2,003.2	177.2	153.5	147.6	8.6	7.6	7.4
Pittsburgh	994.0	989.7	982.4	72.3	67.5	64.6	7.3	6.8	6.6
Reading	144.4	145.8	143.1	8.5	8.6	6.9	5.9	5.9	4.8
Williamsport	49.5	50.2	49.3	3.7	4.0	3.1	7.5	8.0	6.3
York	158.7	159.3	160.3	9.5	9.2	8.6	6.0	5.8	5.4
RHODE ISLAND	433.8	441.2	444.0	34.3	36.7	29.2	7.9	8.3	6.6
Providence—Warwick—Pawtucket ¹	436.6	445.3	448.9	35.0	37.2	29.6	8.0	8.4	6.6
SOUTH CAROLINA	1,277.6	1,304.3	1,305.3	86.1	73.8	69.6	6.7	5.7	5.3
Charleston—North Charleston	140.9	145.9	145.6	10.5	9.3	8.9	7.4	6.3	6.1
Columbia	156.7	162.2	162.2	9.7	7.8	7.5	6.2	4.8	4.6
Greenville—Spartanburg	248.6	247.2	250.4	14.5	13.2	12.2	5.8	5.3	4.9
SOUTH DAKOTA	323.6	350.8	339.6	9.5	11.8	9.2	2.9	3.4	2.7
Sioux Falls	55.9	58.4	57.1	1.3	1.6	1.2	2.3	2.8	2.2
TENNESSEE	1,842.1	1,898.1	1,887.3	99.6	108.2	86.6	5.4	5.7	4.6
Chattanooga ¹	177.7	182.4	181.4	9.0	9.6	9.2	5.0	5.3	5.1
Knoxville	191.0	198.4	198.5	8.3	8.4	7.7	4.4	4.3	3.9
Memphis ¹	357.7	365.0	366.2	20.8	20.7	17.9	5.8	5.7	4.9
Nashville—Davidson	366.8	377.0	373.2	17.1	15.7	13.2	4.7	4.2	3.5
TEXAS	5,607.2	5,756.2	5,733.9	322.5	302.4	294.8	5.8	5.3	5.1
Amarillo	84.1	86.4	86.5	2.9	2.9	3.1	3.4	3.3	3.5
Austin	193.6	201.7	200.4	9.6	9.8	9.0	5.0	4.9	4.5
Beaumont—Port Arthur—Orange	165.4	164.4	163.3	12.1	12.1	12.1	7.3	7.4	7.4
Corpus Christi	129.9	130.9	129.3	8.2	9.0	8.3	6.3	6.0	6.4
Dallas—Fort Worth	1,261.1	1,297.8	1,295.7	56.6	48.3	50.1	4.5	3.7	3.9
El Paso	165.3	161.4	160.9	19.6	18.6	19.6	11.9	11.5	12.2
Gaiveston—Texas City	88.1	94.2	94.9	6.6	6.8	6.9	7.5	7.2	7.3
Houston	1,169.5	1,246.0	1,246.2	67.3	62.3	59.0	5.8	5.0	4.7
Lubbock	95.8	100.4	99.6	3.4	3.2	3.0	3.6	3.2	3.0
San Antonio	392.5	396.2	392.4	31.1	31.4	28.9	7.9	7.9	7.4
Waco	74.4	76.9	76.4	4.0	4.2	3.8	5.4	5.4	5.0
Wichita Falls	57.4	59.0	58.7	2.7	2.2	2.1	4.7	3.8	3.5
UTAH	525.1	538.5	535.6	26.5	25.4	23.4	5.1	4.7	4.4
Salt Lake City—Ogden	347.3	353.7	353.3	18.0	17.1	16.0	5.2	4.8	4.5
VERMONT	219.9	223.3	224.3	17.5	15.2	14.4	8.0	6.8	6.4

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P	AUG. 1976	JUL. 1977R	AUG. 1977P
VIRGINIA	2,337.9	2,417.7	2,412.0	133.8	130.1	122.7	5.7	5.4	5.1
Lynchburg	68.5	71.0	71.1	3.9	3.8	3.4	5.7	5.3	4.8
Newport News—Hampton	157.2	164.4	164.3	11.0	10.0	9.5	7.0	6.1	5.8
Norfolk—Virginia Beach—Portsmouth ¹	308.3	325.6	326.2	21.0	20.4	19.2	6.8	6.3	5.9
Richmond	307.6	321.3	323.8	14.7	13.5	13.0	4.8	4.2	4.0
Roanoke	110.1	112.6	112.8	6.6	5.6	5.7	6.0	5.0	5.1
WASHINGTON	1,614.3	1,674.0	1,675.7	134.4	118.2	112.1	8.3	7.1	6.7
Seattle—Everett	711.2	738.4	739.9	64.0	50.7	48.3	9.0	6.9	6.5
Spokane	126.1	130.3	131.3	8.6	7.6	7.3	6.8	5.2	5.6
Tacoma	151.3	158.0	158.0	14.6	11.5	10.8	9.7	7.3	6.8
WEST VIRGINIA	681.3	705.7	694.3	48.9	45.3	43.0	7.2	6.4	6.2
Charleston	109.1	112.0	109.1	5.3	5.3	4.4	4.9	4.7	4.0
Huntington—Ashland ¹	112.3	111.3	111.7	8.6	5.7	6.7	7.7	5.2	6.0
Parkersburg—Marietta ¹	63.1	63.3	63.4	4.6	3.5	3.6	7.2	5.6	5.8
Wheeling ¹	77.9	78.0	77.7	5.3	3.4	3.8	6.8	4.3	4.8
WISCONSIN	2,206.4	2,271.4	2,269.2	103.6	107.4	93.8	4.7	4.7	4.1
Appleton—Oshkosh	142.6	146.1	146.6	5.9	5.4	4.8	4.1	3.7	3.3
Green Bay	86.5	89.7	90.6	3.8	3.4	3.3	4.4	3.2	3.7
Kenosha	62.9	68.6	62.3	3.1	7.8	4.3	5.0	11.3	6.9
La Crosse	41.8	44.6	44.6	1.9	1.9	1.5	4.5	4.3	3.5
Madison	170.9	176.7	177.0	5.8	5.5	4.7	3.4	3.1	2.7
Milwaukee	683.8	685.0	685.2	40.3	35.9	35.0	5.9	5.2	5.1
Racine	88.7	92.6	94.9	4.8	3.9	5.0	5.4	4.2	5.3
WYOMING	189.8	204.9	203.6	5.9	6.0	5.9	3.1	2.9	2.9

¹ Includes interstate portion of Area located in adjacent State(s).

NOTE: All data are subject to revision as new benchmark information becomes available. Estimates have been benchmarked to 1976 Current Population Survey annual averages. Data refer to place of residence.

p=preliminary.
r=revised.
N.A.=not available.

SOURCE: Cooperating State Employment Security Agencies listed on inside back cover.

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering please, specify "CETA Area Employment and Unemployment, January-June 1977 (NTISUB/C/143-77/008)," "State and County Employment and Unemployment January-June 1977" (NTISUB/C/144-77/008) or "Unemployment Rates for States and Local Governments, First Quarter, 1977" (PB267950). A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

Explanatory Notes

These explanatory notes provide information on the concepts, methodology, and scope of Household Data (A tables), Establishment Data (B, C, and D tables), and State and Area Unemployment Data (E table) published in *Employment and Earnings*.

Introduction

The statistics in this periodical are compiled from two major sources: (1) Household interviews, and (2) reports from employers.

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, household relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 47,000 households, representing 461 areas in 923 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide detailed industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

The household and establishment data supplement one another, each providing significant types of information that the other cannot suitably supply. Population characteristics, for example, are readily obtained only from the household survey whereas detailed industrial classifications can be reliably derived only from establishment reports.

Data from these two sources differ from each other because of differences in definition and coverage, sources of information, methods of collection, and estimating procedures. Sam-

pling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

Multiple jobholding. The household approach provides information on the work status of the population without duplication, since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment records, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

Unpaid absences from jobs. The household survey includes among the employed all persons who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969. Reprints of this article are available upon request from the Bureau of Labor Statistics.

Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by em-

ployers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, regardless of whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (agriculture, some State and local government, domestic service, self-employment, unpaid family work, and religious organizations).

In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment compensation but are classified as employed rather than unemployed in the household survey.

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*. Reprints of this article may be obtained upon request.

Agricultural employment estimates of the Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the Statistical Research Service (SRS) series and the treatment of dual jobholders who are counted more than once if they work on more than one farm during the

reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of impact on differences in level and trend of the two series.

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment counts derived by the Bureau of the Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in BLS statistics.

County Business Patterns. Data in County Business Patterns (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, churches and most local government activities are not covered by unemployment insurance whereas these are included in BLS establishment statistics.

Household data

(A tables)

COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics derived from the Current Population Survey*, BLS Report 463. This report is available from BLS on request.

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. Separate statistics are also collected and published for 14 and 15 year olds. The inquiry relates to activity or status during the calen-

dar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are obtained from the Department of Defense.

Each month, 47,000 occupied units are eligible for interview. About 2,000 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4 percent. In addition to the 47,000 occupied units, there are 8,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of

the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next, and one-half to be common with the same month a year earlier.

CONCEPTS

Employed persons comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries, temporarily in the United States, who are not living on the premises of an Embassy.

Excluded are persons whose only activity consisted of work around the house (such as own home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

Unemployed persons comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and (a) were waiting to be called back to a job from which they had been laid off; or (b) were waiting to report to a new wage or salary job within 30 days.

Duration of unemployment represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Average duration is an arithmetic mean computed from a distribution by single weeks of unemployment.

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Re-entrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or longer.

Jobseekers are all unemployed persons who made specific efforts to find a job, sometime during the 4-week period preceding the survey week. Jobseekers do not include persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new wage or salary job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community

organization, or waiting at a designated pick-up point.

The civilian labor force comprises the total of all civilians classified as employed or unemployed in accordance with the criteria described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

The unemployment rate represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

Participation rates represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published: The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

Not in labor force includes all civilians 16 years and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home work," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, i.e., the "incoming" groups.

Occupation, industry, and class of worker for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in data derived from the CPS household interviews are defined as in the 1970 Census of Population. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies "wage and salary workers," subdivided into private and government workers, "self-employed workers," and "unpaid family workers." Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by blood or marriage.

Hours of work statistics relate to the actual number of hours worked during the survey week. For example, a person who

normally works 40 hours a week but who was off on the Columbus Day holiday would be reported as working 32 hours even though he was paid for the holiday.

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

The distribution of employment by hours worked relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in zero-hours worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

Persons who worked 35 hours or more in the survey week are designated as working "full time," persons who worked between 1 and 34 hours are designated as working "part-time." Part-time workers are classified by their usual status at their present job (either full time or part time) and by their reason for working part time during the survey week (economic or other reasons). "Economic reasons" include: Slack work, material shortages, repairs to plant or equipment, start or termination of job during the week, and inability to find full-time work. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home housework, school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1-34 hours for noneconomic reasons and usually work full time.

Full- and part-time labor force. The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part time (part time for economic reasons), and unemployed persons seeking full-time jobs. The *part-time labor force* consists of persons working part time voluntarily and unemployed persons seeking part-time work. Persons with a job but not at work during the survey week are classified according to whether they usually work full or part time.

Labor force time lost is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours, (2) that those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

Race. White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who are observed in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black and other population group were black; the remainder were American Indians, Eskimos, Orientals, and all other non-white groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

Spanish origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American or other Spanish origin or descent. According to the 1970 Census, approximately 96 percent of their population is white.

Major activity: going to school and *major activity: other* are terms used to describe whether the activity of young persons during the reference week are primarily one of going to school or not. Statistics on major activities are published every month in table A-7 for 16-21 year-olds by employment status, race,

sex, and, if unemployed, whether seeking full- or part-time work.

Household head. One person in each household is designated as the head. The head is usually the person regarded as the head by the members of the group. If a husband and wife family occupy the unit, the husband is designated as the head. The number of heads is equal to the number of households.

Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and **May 7, 1975**. Tables for veterans in this volume are limited to males in the civilian noninstitutional population; i.e., veterans in institutions and females are excluded.

Nonveterans are males who never served in the Armed Forces.

Poverty areas classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. At the same time, several definitions were sharpened to clear up ambiguities. The principal definitional changes were: (1) Counting as unemployed only persons who were currently available for work and who had engaged in some specific job-seeking activity within the past 4 weeks, an exception to the latter condition is made for persons waiting to start a new job in 30 days or waiting to be recalled from layoff; in the past, the current availability test was not applied and the time period for jobseeking was ambiguous; (2) counting as employed persons who were absent from their jobs in the survey week because of strikes, bad weather, etc. and were also looking for other jobs; previously, these persons had been classified as unemployed; (3) sharpening the questions on hours of work, duration of unemployment, and self-employment in order to increase their reliability.

These changes did not affect the unemployment rate by more than one-fifth of a percentage point in either direction, although the distribution of unemployment by sex was affected. The number of employed was reduced about 1 million because of the exclusion of 14- and 15-year-olds. For persons 16 years and over, the only employment series appreciably affected were those relating to hours of work and class of worker. A detailed discussion of the changes and their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and

agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

Beginning in January 1974, the methodology used to prepare independent estimates of the civilian noninstitutional population was modified to an "inflation-deflation" approach. This change in the derivation of the population estimates had its greatest impact on estimates of 20-24 year-old males—particularly those of the black and other population—but had little effect on 16 and over totals. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from Inflation-Deflation Method of Estimation" in the February 1974 issue of *Employment and Earnings*.

Effective July 1975, as a result of the immigration of Vietnamese refugees into the United States, the total and black-and-other independent population controls for persons 16 years and over were adjusted upward by 76,000—30,000 males and 46,000 females. The addition of the refugees increased the black-and-other population by less than 1 percent in any age-sex group, and all of the changes were in the "other" population.

Changes in occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of presenta-

tion, were introduced; for example, the title of the managers, officials, and proprietors group was changed to "managers and administrators, except farm," since only proprietors performing managerial duties are included in the category.

Apart from the effects of revisions in the occupation classification system beginning in 1971, comparability of occupational employment data was further affected in December 1971, when a question eliciting information on major activities or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. This change resulted in several dramatic occupational shifts, particularly from managers and administrators to other groups. Thus, meaningful comparisons of occupational levels cannot always be made for 1972 and subsequent years with earlier periods. However, revisions in the occupational classification system as well as in the CPS questionnaire are believed to have had but a negligible impact on unemployment rates.

Additional information on changes in the occupational classification system of the CPS appears in "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas and, within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are standard metropolitan statistical areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the Nation as a whole, in such characteristics as age, race, sex, and residence. Since these population characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the latter estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* This is a procedure in which the sample proportions are weighted by the known 1970 Census data on the race-residence distribution of the population. This step takes into account the differences existing at the time of the 1970 census between the race-residence distribution for the Nation and for the sample areas.

b. *Second-stage ratio estimate.* In this step, the sample pro-

portions are applied to independent current estimates of the population by age, sex, and race. Prior to January 1974 these estimates were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries.

Beginning in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. In this procedure, the most recent census population adjusted to include estimated net census undercount by age, sex, and race (i.e., "inflated") is carried forward to each subsequent month and later age by adding births, subtracting deaths, and adding net migration. These postcensal population estimates are then "deflated" to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. The actual percent change over time in the population in any age group is preserved.

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent) as well as the sample results for the current month. This procedure reduces the sampling variability of month-to-month changes especially and of the levels for most items also.

Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Differences, however, are insignificant.

Reliability of the estimates

Since the estimates are based on a sample, they may differ from the figures that would have been obtained if it were possible to take a complete census using the same schedules and procedures.

The standard error is a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 19 out of 20 that the difference would be less than twice the standard error.

Table A shows the average standard error for the major employment status categories, by sex, computed from data for past months. Estimates of change derived from the survey are also subject to sampling variability. The standard error of change for consecutive months is also shown in table A. The standard errors of level shown in table A are acceptable approximations of the standard errors of year-to-year change.

The figures presented in table B are to be used for other characteristics and are approximations of the standard errors of all such characteristics. They should be interpreted as providing an indication of the order of magnitude of the standard errors rather than as the precise standard error for any specific item.

The standard error of the change in an item from one month to the next month is more closely related to the standard error of the monthly level for that item than to the size of the specific month-to-month change itself. Thus, in order to use the approximations to the standard errors of month-to-month changes as presented in table C, it is first necessary to obtain the standard error of the monthly level of the item in table B, and then find

Table A. Average standard error of major employment status categories

Employment status and sex	Average standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
BOTH SEXES		
Labor force	205	150
Total employment	210	155
Agriculture	95	60
Nonagricultural employment	210	155
Unemployment	109	106
MALES		
Labor force	115	95
Total employment	125	100
Agriculture	85	55
Nonagricultural employment	130	105
Unemployment	81	89
FEMALES		
Labor force	140	110
Total employment	140	110
Agriculture	35	25
Nonagricultural employment	140	110
Unemployment	74	83

Table B. Standard error of level of monthly estimates

Size of estimate	Both sexes		Males		Females	
	Total or white	Black and other	Total or white	Black and other	Total or white	Black and other
10	4	4	6	4	6	4
50	9	9	11	9	11	9
100	12	12	16	12	16	12
250	20	17	25	17	25	17
500	30	25	34	25	34	25
1,000	40	35	50	35	50	35
2,500	60	40	75	40	75	40
5,000	85	45	90	—	90	—
10,000	115	—	115	—	115	—
20,000	150	—	125	—	125	—
30,000	170	—	—	—	—	—
40,000	180	—	—	—	—	—

the standard error of the month-to-month change in table C corresponding to this standard error of level. It should be noted that table C applies to estimates of change between 2 consecutive months. For changes between the current month and the same month last year, the standard errors of level shown in table B are acceptable approximations.

Illustration. Assume that the tables showed the total number of persons working a specific number of hours as 15,000,000, an increase of 500,000 over the previous month. Linear interpolation in the first column of table B shows that the standard error of 15,000,000 is about 133,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 133,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Using the 133,000 as the standard error of the monthly level in table C, it may be seen that the standard error of the 500,000 increase is about 126,000.

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total

Table C. Standard error of estimates of month-to-month change

(In thousands)

Standard error of monthly level	Standard error of month-to-month change
10	12
25	28
50	55
100	100
150	140
200	155
250	160
300	190

upon which the percentage is based. Where the numerator is a subclass of the denominator, estimated percentages are relatively more reliable than the corresponding absolute estimates of the numerator of the percentage, particularly if the percentage is large (50 percent or greater). Table D shows the standard errors for unemployment percentages derived from the survey. Linear interpolation may be used for percentages and base figures not shown in table D. As a general rule, percentages will not be published when the monthly base is less

Table D. Standard error of unemployment percentages

Base of percentages (thousands)	Estimated percentage								
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	35 or 65	50
75	1.5	2.1	3.2	4.5	5.4	6.1	6.7	7.5	8.3
150	1.1	1.5	2.4	3.3	4.0	4.5	4.9	5.5	6.1
250	9	1.3	2.0	2.8	3.3	3.7	4.1	4.6	5.1
500	6	8	1.3	1.7	2.1	2.4	2.6	2.9	3.2
1,000	4	6	9	1.2	1.5	1.7	1.8	2.1	2.3
2,000	3	4	6	9	1.0	1.2	1.3	1.5	1.6
3,000	2	3	5	7	9	1.0	1.1	1.2	1.3
5,000	2	3	4	6	7	7	8	9	1.0
10,000	1	2	3	4	5	5	6	7	7
25,000	1	1	2	3	3	3	4	4	4
50,000	1	1	1	2	2	2	3	3	3
75,000	1	1	1	1	2	2	2	2	3

than 75,000 or the annual base is less than 35,000. Table E shows the standard error of percentage of monthly levels and consecutive month change for frequently analyzed unemployment rate series. These errors are computed from data for recent months. Errors on change for nonconsecutive months are slightly greater (by roughly a factor of 1.1 times the month-to-month error).

Table E. Standard error of percentages for major unemployment rates

Selected categories	Monthly level	Consecutive month change	Selected categories	Monthly level	Consecutive month change
Total (all civilian workers)	.12	.14	OCCUPATION—Continued		
Males, 20 years and over	.14	.17	Blue-collar workers	.23	.28
Females, 20 years and over	.19	.24	Craft and kindred workers	.32	.39
Both sexes, 16-19 years	.56	.72	Operatives	.36	.46
White workers	.12	.15	Nonfarm laborers	.66	.84
Black (and other) workers	.43	.55	Service workers	.32	.40
Household heads	.12	.15	Farm workers	.43	.53
Married men	.13	.16	INDUSTRY		
Full-time workers	.12	.15	Nonagricultural private wage and salary workers	.14	.17
Part-time workers	.35	.44	Construction	.75	.95
Unemployed 15 weeks and over	.06	.07	Manufacturing	.27	.34
Labor force time lost	.12	.15	Durable goods	.36	.45
OCCUPATION			Nondurable goods	.43	.54
White-collar workers	.13	.15	Transportation and public utilities	.41	.52
Professional and technical	.20	.24	Wholesale and retail trade	.28	.35
Managers and administrators except farm	.23	.28	Finance and service industries	.23	.29
Sales workers	.39	.48	Government wage and salary workers	.19	.24
Clerical workers	.24	.30	Agricultural wage and salary workers	1.11	1.39

Establishment data

(B, C, and D tables)

COLLECTION

Payroll reports provide current information on wage and salary employment, hours, earnings, and labor turnover in non-agricultural establishments, by industry and geographic location.

Federal-State cooperation

Under cooperative arrangements with State agencies, the respondent fills out a single employment or labor turnover reporting form, which is then used for national, State, and area estimates. This eliminates duplicate reporting on the part of respondents, and together with the use of identical techniques at the national and State levels, insures maximum comparability of estimates.

State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the information to prepare State and area series and then send the establishment data to the BLS for use in preparing the national series.

Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Monthly Report on Employment, Payroll, and Hours; and Form DL 1219—Monthly Report on Labor Turnover. These schedules are of the "shuttle" type, with space for each month of the calendar year. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered. This procedure assures maximum comparability

and accuracy of reporting, since the respondent can see the figures he has reported for previous months.

Form BLS 790 provides for entry of data on the number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the most important product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for a few States and areas are classified in accordance with the 1967 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. Most States and areas have converted their series to the 1972 SICM.

Industry employment

Employment data, except those for the Federal Government refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers in households. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or paid vacation, or who work during a part of the pay period and are unemployed or on strike during the rest of the period, are counted as employed. Not counted as employed are persons who are laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid during the period.

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory employees in the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

Production and related workers include working supervisors and all nonsupervisory workers (including group leaders and

trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), and recordkeeping and other services closely associated with the above production operations.

Construction workers include the following employees in the contract construction division: Working supervisors, qualified craft workers, mechanic's apprentices, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

Nonsupervisory employees include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and similar occupational levels, and other employees whose services are closely associated with those of the employees listed.

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds or union dues; also included is pay for overtime, holidays, vacations, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period), other pay not earned in the pay period reported (e.g., retroactive pay), tips, and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc. paid by the employer) are also excluded.

Hours cover the hours paid for, during the pay period which includes the 12th of the month, for production, construction, or nonsupervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

Overtime hours cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which includes the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

Gross average hourly and weekly earnings. Average hourly earnings are on a "gross" basis, reflecting not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series does not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production-worker, construction-worker, or nonsupervisory-employee definitions.

Gross average weekly earnings are derived by multiplying

average weekly hours by average hourly earnings. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying causes, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-term trends of gross average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the service industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

Average weekly hours. The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

Average overtime hours. The overtime hours represent the portion of the gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid. If an employee worked on a paid holiday at regular rates, receiving as total compensation his holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, gross weekly hours and overtime hours do not necessarily move in the same direction from month-to-month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry-group level also may be caused by a marked change in gross hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

Hours and earnings for total private nonagricultural industries. The series covers all nonagricultural industry divisions except government. The principal source of payroll data is Form BLS 790. Secondary source material such as the Bureau's *Employment and Wages*, *County Business Patterns* of the Bureau of the Census, and additional supporting information such as *The Hospital Guide*, Part II, of the American Hospital Association and special studies by the National Council of Churches supplement data for certain industry groups within the service division.

For a technical description of this series, see the article, "Hours and Earnings for Workers in Private Nonagricultural Industries," published in the May 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints are available upon request.

Railroad hours and earnings. The figures for class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by

the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Spendable average weekly earnings. Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with either none or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," in the *Monthly Labor Review* for April 1971. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings are computed by dividing the current Consumer Price Index into the earnings averages for the current month. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in purchasing power since the base period (1967).

Average hourly earnings excluding overtime. Average hourly earnings excluding overtime premium pay are computed by dividing the total production worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the monthly average for the 1967 period. The hour aggregates are the product of average weekly hours and production-worker or nonsupervisory worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of aggregation, hour and payroll aggregates are the sum of the component aggregates.

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing

industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December, 1974 issue of *Employment and Earnings*.

Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *Accessions* (new hires and rehires) and *separations* (terminations of employment initiated by either employer or employee). Each type of action is cumulated for a calendar month and expressed as a rate per 100 employees. The data relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. Transfers to another establishment of the company are included, beginning with January 1959.

Accessions are the total number of permanent and temporary additions to the employment roll, including both new and re-hired employees.

New hires are temporary or permanent additions to the employment roll of persons who have never before been employed in the establishment (except employees transferring from another establishment of the same company) or of former employees not recalled by the employer.

Other accessions, which are not published separately but are included in total accessions, are all additions to the employment roll which are not classified as new hires, including transfers from other establishments of the company and employees recalled from layoff.

Separations are terminations of employment during the calendar month and are classified according to cause: Quits, layoffs, and other separations, are defined as follows:

Quits are terminations of employment initiated by employees, failure to report after being hired, and unauthorized absences, if on the last day of the month the person has been absent more than 7 consecutive calendar days.

Layoffs are suspensions without pay lasting or expected to last more than 7 consecutive calendar days, initiated by the employer without prejudice to the worker.

Other separations, which are not published separately but are included in total separations, are terminations of employment because of discharge, permanent disability, death, retirement, transfers to another establishment of the company, and entrance into the Armed Forces for a period expected to last more than 30 consecutive calendar days.

Relationship of labor turnover to employment series

Month-to-month changes in total employment in manufacturing industries reflected by labor turnover rates are not comparable with the changes shown in the Bureau's employment series for the following reasons: (1) Accessions and separations are computed for the entire calendar month; the employment reports refer to the pay period which includes the 12th of the month; and (2) employees on strike are not counted as turnover actions although such employees are excluded from the employment estimates if the work stoppage extends through the report period.

ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the industry statistics are (1) the use of the

"link relative" technique, which is a form of ratio estimation, (2) periodic adjustment of employment levels to new benchmarks, and (3) the use of size and regional stratification.

The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a link relative. The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table F. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover.

Size and regional stratification

A number of industries are stratified by size of establishment and/or by region, and the stratified production or nonsupervisory worker data are used to weight the hours and earnings into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1974 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover nearly nine-tenths of the total nonagricultural employment in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions due to benchmark adjustment for the last 3 years is shown in table G.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data, the BLS publishes as soon as possible after each benchmark revision a summary volume of employment, hours earnings, and labor turnover statistics, entitled *Employment and Earnings*, United States.

Table F. Summary of methods for computing industry statistics on employment, hours, and labor turnover

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly data		
All employees	All employees estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months.	Sum of all employee estimates for component cells.
Production or nonsupervisory workers, women employees	All employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) ratio of women to all employees.	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers.	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production worker overtime hours divided by number of production workers.	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours.	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
Annual average data		
All employees and production or nonsupervisory workers	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Gross average hourly earnings	Annual total of aggregate payrolls (production or nonsupervisory worker employment multiplied by weekly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	Sum of monthly rates divided by 12.	Sum of monthly rates divided by 12.

Table G. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1971, 1973, and 1974

Industry division	1971	1973 ¹	1974
Total	100.2	98.4	99.9
Mining	99.8	96.5	97.0
Contract construction	96.9	90.4	100.6
Manufacturing	100.4	98.9	99.9
Transportation and public utilities	100.9	99.3	100.0
Wholesale and retail trade	100.3	97.8	100.1
Finance, insurance, and real estate	100.2	99.5	98.9
Services	100.4	99.1	99.3
Government	100.0	99.5	100.6

¹ 2-year revision.

THE SAMPLE

Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the

average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice, this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small

establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to accept samples in these divisions with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS employment and labor turnover statistics programs, with their emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after reports are mailed by respondents, and at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table H shows the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown. Table I shows the approximate coverage, in terms of employment, of the labor turnover sample.

Table H. Approximate size and coverage of BLS employment and payrolls sample, March 1974¹

Industry division	Number of establishments in samples	Employees	
		Number reported	Percent of total
Total	158,400	31,637,000	41
Mining	2,100	307,000	46
Contract construction	16,500	771,000	20
Manufacturing	47,000	11,821,000	59
Transportation and public utilities:			
Railroad transportation (ICC)	95	537,000	94
Other transportation and public utilities	7,300	2,181,000	53
Wholesale and retail trade	38,200	3,050,000	18
Finance, insurance, and real estate	10,100	1,507,000	36
Services	23,500	2,740,000	20
Government:			
Federal (Civil Service Commission) ²	3,200	2,691,000	100
State and local	10,400	6,032,000	52

¹ Since a few establishments do not report payroll and hour information, hours and earnings estimates may be based on a slightly smaller sample than employment estimates.

² National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,200 reports covering about 53 percent of employment in Federal establishments.

Table I. Approximate size and coverage of BLS labor turnover sample, March 1974

Industry	Employees	
	Number reported	Percent of total
Total	10,873,730	52
Manufacturing	10,007,800	51
Metal mining	61,850	66
Coal mining	56,770	35
Communications:		
Telephone	734,270	74
Telegraph	13,040	61

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. 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 (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels", in the December 1974 issue.) Table J presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table J and for individual industries with the specified number of employees in table K. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error

Table J. Average benchmark percent revision in employment estimates and relative errors¹ for average weekly hours and average hourly earnings by industry division

Industry division	Average benchmark revision in estimates of employment ²	Relative errors (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.2	-	-
Total private	.1	0.1	0.2
Mining	1.2	.5	.5
Contract construction	1.2	.2	.3
Manufacturing	.3	.1	.1
Durable goods	.4	.1	.1
Nondurable goods	.3	.1	.1
Transportation and public utilities	.4	.7	.4
Trade	.3	.1	.2
Wholesale	1.0	.2	.3
Retail	.2	.2	.2
Finance, insurance, and real estate	.4	.2	.4
Services	.6	.4	.8
Government ³	.6	-	-

¹ Relative errors relate to March 1971 data.

² The average percent revision in employment for the 1967-71 and 1974 benchmarks.

³ Estimates for government are based on a total count for Federal Government and samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates

$$(RMSE = \sqrt{(Standard\ Deviation)^2 + (Bias)^2}).$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

Approximations of the root-mean-square errors (based on the experience of the last 6 years) of differences between final estimates and benchmarks are presented in table K.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table L presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

Table K. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative errors (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

Table L. Errors of preliminary employment estimates

Size of employment estimate	Root-mean-square error of	
	Monthly level	Month-to-month change
50,000	600	600
100,000	800	700
200,000	1,400	1,200
500,000	3,300	3,200
1,000,000	4,200	4,200
2,000,000	6,500	6,300
10,000,000	27,000	23,000
Total nonagricultural employment	94,000	81,000
Mining	6,000	5,000
Contract construction	17,000	15,000
Manufacturing	35,000	33,000
Transportation and public utilities	14,000	12,000
Wholesale and retail trade	33,000	31,000
Finance, insurance, and real estate	6,000	6,000
Services	27,000	22,000
Government	45,000	39,000

STATISTICS FOR STATES AND AREAS

State and area employment, hours, earnings, and labor turnover data are collected and prepared by State agencies in

cooperation with BLS. The area statistics relate to metropolitan areas. Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

For the States and the areas shown in the B and C sections of this periodical, all the annual average data for the detailed industry statistics currently published by each cooperating State agency are presented (from the earliest date of availability of each series) in a summary volume published annually by the BLS.

PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

Definitions

Hours of wage and salary workers in nonagricultural establishments refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers.

Output is the constant dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of labor input, or labor productivity, measure changes in the volume of goods and services produced per unit of labor.

Compensation per hour includes wages and salaries of employees plus employers contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

Real compensation per hour is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index.

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* include profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* includes corporate profits and inventory valuation adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current dollar estimate of gross product by the constant dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing,

and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate businesses.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. Output data are supplied by the Bureau of Economic Analysis,

U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

State and area unemployment data

(E table)

Since November 1972, the Bureau of Labor Statistics has been responsible for developing the concepts and methods used by State employment security agencies to estimate State and local area labor force, employment, and unemployment. In December 1975, the Office of Management and Budget extended this responsibility to include the publication of State and local area labor force and unemployment estimates. Prior to 1972, State agencies prepared estimates using a method developed by the Department of Labor in 1950, generally referred to as the Handbook method (BES Report No. R-185). The new system combines the Handbook method with a set of procedures based on the concepts and definitions used in the national Current Population Survey (CPS). Improvements have been in two areas: (1) The estimating methodology previously used by State agencies has been modified to more closely approximate CPS definitions; and (2) The State-prepared monthly estimates are benchmarked to annual average totals from the CPS.

Federal-State cooperative program

Labor force and unemployment estimates for States, labor market areas (LMA), and other areas specifically defined for fund allocation purposes are developed under a Federal-State cooperative program and transmitted each month to BLS. The local area unemployment estimates approved by BLS are the basis for determining eligibility of an area for benefits under Federal economic assistance programs, such as those established by the Comprehensive Employment and Training Act (CETA).

ESTIMATING METHODS

Monthly employment and unemployment estimates are prepared in several stages:

1. *Preliminary estimate—Employment:* The total employment estimate is based primarily on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residence as used in the Current Population Survey. Adjustment factors for the major categories of employment by class of worker and industry have been developed on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates.

2. *Preliminary estimate—Unemployment:* In the current month, the estimate of unemployment is an aggregate of the estimates

for each of three building block categories: (1) Persons who were previously employed in industries covered by State unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force for the first time or reentering after a period of separation.

An estimate for those previously employed in covered industries is derived from a count of current unemployment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would otherwise have been eligible), and persons who either filed claims late, or not at all.

The estimate of those previously employed in industries not covered by UI is derived by applying the current ratio of covered unemployment to covered employment to the employment estimate for each industry or class of worker subgroup in the State, weighted by factors reflecting national historical relationships.

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered "youth". The composite estimate of total entrants is defined as:

$$U = A(X + E) + BX. \text{ Where}$$

U = total entrant unemployment

E = total employment

X = total experienced unemployment

A, B = synthetic factors incorporating seasonal variation, and an assumed relationship between the proportion of youths in the working population and the historical relationship of entrants to the experienced unemployed (B factor) or the experienced labor force (A factor).

3. *Adjustment for additivity.* Using the Handbook method, States prepare independent employment and unemployment estimates for the State, and for many substate areas. An adjustment is applied to all substate estimates to ensure that the substate estimates add to the independent State totals. Specific additivity adjustment procedures vary from State to State, but are generally one of the three following basic methods: (a) If a State is comprised of mutually exclusive and exhaustive LMA's, then the difference between the independent State estimate and the sum of the estimates for the LMA's is prorated over all LMA's in the State, to produce a set of substate estimates which add to the independent State estimate; (b) If the

mutually exclusive LMA's do not exhaust the geographic area of the State, then the difference between the independent State estimate and the sum of the LMA estimates, or residual, becomes the balance-of-State estimate; (c) If a State contains LMA's which are benchmarked independently (see below), estimates for these areas are subtracted from the independent State estimate and the additivity adjustment is then applied to the remaining areas in the balance of the State.

4. *Benchmark correction and extrapolation procedures.* Once each year all monthly estimates prepared by State employment security agencies under the Handbook method are adjusted, or benchmarked, by BLS to the annual average estimates resulting from the CPS. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS estimates, due to differences in State UI laws, the structural limitations of the Handbook method, and errors in the UI data.

The benchmarked estimates are produced in three stages.

First, the monthly Handbook estimates are adjusted by the ratio of the CPS and Handbook annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages.

The benchmarked estimates are extrapolated into the current year by applying the latest relevant correction factor to the current Handbook estimates of employment and unemployment. The employment factor used in year (t) is the quotient of the December employment benchmarked and Handbook estimates in year (t-1). The unemployment factor for year (t) is the algebraic difference between the December unemployment benchmarked and Handbook estimates in year (t-1). The preliminary estimate in the current year is then the result of applying the correction factor by multiplication (for employment), or by addition (for unemployment) to the current Handbook estimate.

Seasonal adjustment

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but in addition, are affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

The seasonal adjustment methods used for these series are an adaptation of the standard ratio-to-moving average method, with a provision for moving "adjustment factors" to take account of changing seasonal patterns. A detailed description of the method is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Data for the household series are seasonally adjusted utilizing the Census Bureau's X-11 Method. Each January, seasonal adjustment factors for unemployment and other labor force series are revised to take into account data from the previous year. In January 1976, in addition to the routine annual revisions, the Bureau introduced a modification in the procedure for seasonally adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. All other series are adjusted following past procedures.

All civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates,

the appropriate series are aggregated. The unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

Revised seasonally adjusted series for major components of the labor force based on data through December 1976, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1977 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, production workers, hours, and earnings, are computed using the BLS Seasonal Factor Method. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing seasonally adjusted average weekly earnings by the seasonally adjusted Consumer Price Index. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods producing, total private service producing, trade, manufacturing, and durable and nondurable goods the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Furthermore, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service.

Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

For labor turnover rates, seasonal adjustment factors are applied directly to the component series. These series are then aggregated to obtain total levels (total accessions and total separations). These factors are derived by the Census X-11 Method using the trading day option. As a result these series

are adjusted for the number of times each day of the week occurs in a given month, as well as for the month of the year.

The revised seasonally adjusted series for the establishment data reflect experience through August 1976. Seasonal factors to be used for current adjustment appear in the December 1976 issue of *Employment and Earnings*.

Additional information concerning the preparation of the labor force, employment, hours, earnings, and labor turnover series—concepts and scope, survey methods, and limitations—is contained in the *Handbook of Methods, BLS Bulletin 1910*.

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