

Employment and Earnings

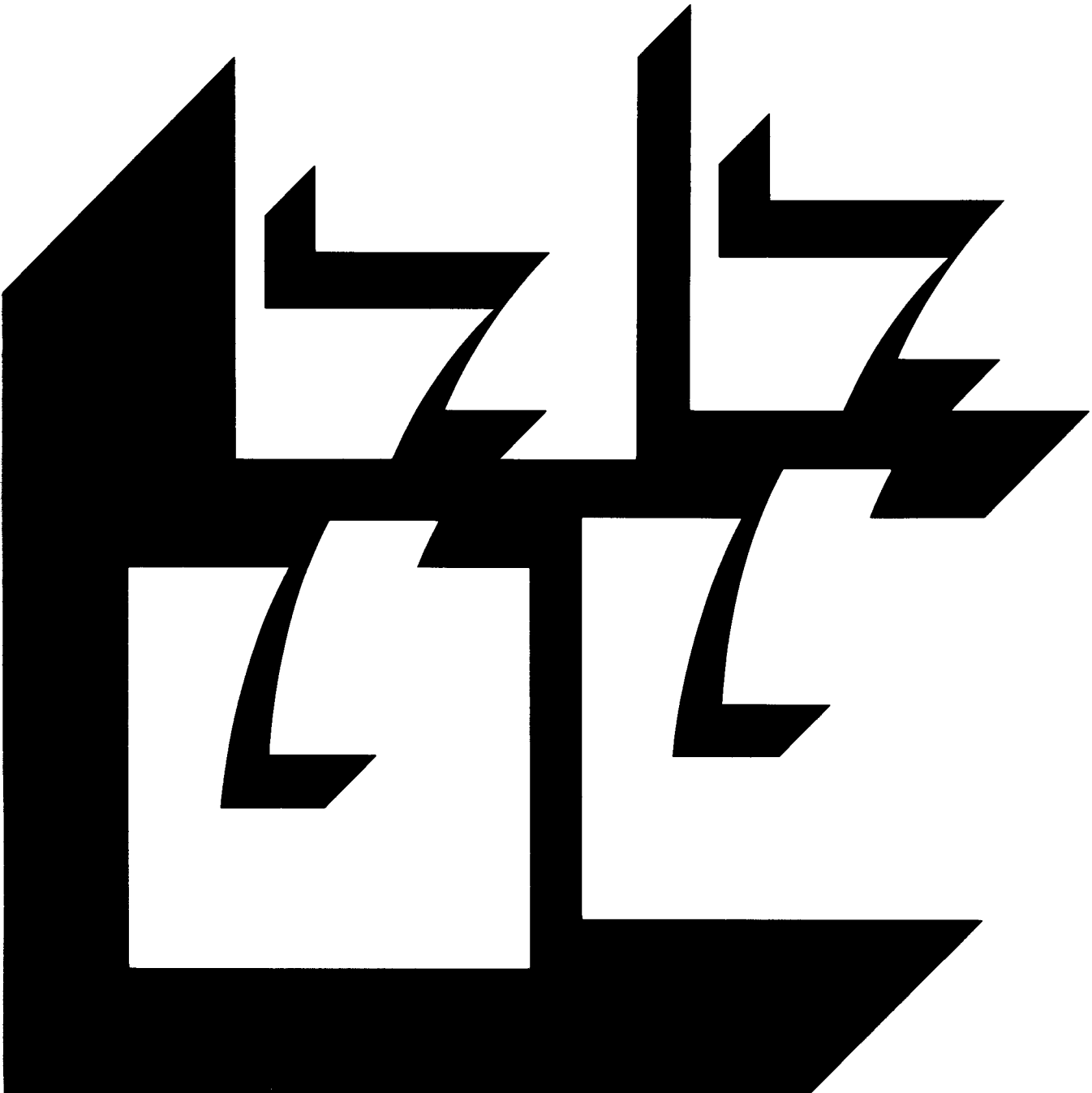
September 1977



U.S. Department of Labor
Bureau of Labor Statistics

Vol. 24 No. 9

In this issue:
1972-76 annual averages for
States and areas





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. 9 September 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											
Poverty-nonpoverty area data	x			x		x		x			
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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¹ Monthly data in February, May, August, and November issues; annual averages in March issue.

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Employment and Unemployment Developments, August 1977

Both employment and unemployment rose in August. The Nation's unemployment rate increased slightly, returning to the June level of 7.1 percent. The rate has hovered around the 7-percent mark for the past 5 months.

Total employment—as measured by the monthly survey of households—resumed its advance in August with a modest increase of 210,000 to 90.8 million. The number of employed persons has grown by 2.9 million over the past year, while the proportion of the population with jobs has increased from 56.2 to 57.1 percent.

Nonfarm payroll employment—as measured by the monthly survey of establishments—was up only slightly (90,000) over the month. At 82.4 million, the payroll job count was 2.8 million above its year-ago level.

Unemployment

The number of unemployed persons rose by 180,000 in August to 6.9 million, seasonally adjusted. The increase occurred primarily among persons losing their jobs, as their proportion of the jobless total rose for the second consecutive month, to 47 percent. The overall unemployment rate was 7.1 percent, up from 6.9 percent in July. The jobless rate has fluctuated around the 7-percent mark since April, after declining from 8 percent in the preceding 5-month period. Nearly all worker groups shared in the over-the-year improvement—two notable exceptions were blacks and Vietnam-era veterans.

The over-the-month increase in unemployment was concentrated among black workers. At 14.5 percent in August, their unemployment rate matched the post-World War II high recorded in September 1975. Jobless rates were up for both black men (11.7 percent) and women (12.2 percent), while the rate for black teenagers (40.4 percent) approximated July's extremely high level. By contrast, there was little change in the unemployment rates among white men (4.5 percent), women (6.3 percent), or teenagers (14.7 percent). As a result of these developments, the ratio of black-to-white jobless rates continued its recent updrift to the unusually high level of 2.4 to 1 in August.

The average (mean) duration of unemployment was 13.5 weeks in August, continuing a downward trend that began in early 1976. Average duration has declined about one and a half weeks since May.

The number of persons working part time for economic reasons declined 170,000 from July and stood at 3.2 mil-

lion in August. All of the decline occurred among those who usually work at full-time jobs.

Total employment and the labor force

Total employment edged up by 210,000 in August to 90.8 million. Except for a pause in July, this continued the pattern of steady growth dating back to last fall. All of the increase in employment occurred among white workers—adult men and teenagers. However, the employment-population ratio—the proportion of the total noninstitutional population that is employed—remained at July's level of 57.1 percent. Although there has been little change since April, the August ratio was almost a full percentage point above the year-ago level.

The civilian labor force increased by 390,000 in August, following a 340,000 decline in July. Most of this increase occurred among teenagers, who had accounted for the July reduction. The total civilian labor force has shown strong gains throughout most of 1977 and over the past 12 months has grown by 2.3 million. The labor force participation rate, at 62.3 percent, was little changed from July but half a point higher than the year-earlier rate.

Industry payroll employment

Reflecting divergent movements in goods- and service-producing employment, total nonagricultural payroll employment grew slightly in August. Over-the-month employment gains were posted in 41 percent of the industries comprising the BLS diffusion index of nonagricultural payroll employment; the index had dropped this low only one other time during the past 2 years. Substantial gains during 10 of the past 12 months, however, have raised the payroll job count 2.8 million over the year to the seasonally-adjusted August level of 82.4 million.

The modest rise in overall payroll employment in August resulted from an increase in the service-producing sector's job count, which more than offset the employment declines in the goods sector. The service-producing sector posted its largest increase in 5 months, adding nearly 200,000 jobs. Employment growth was particularly strong in services and trade.

The goods-producing sector registered its first setback since October, declining by more than 100,000 jobs. Manufacturing dropped back to its May level, primarily due to reductions in nondurable goods. Contract construc-

tion suffered a loss of some of its prior month's gain, but the industry's employment remained well above the levels prevailing in 1976 and early 1977.

Hours

For the third consecutive month, the average workweek for production or nonsupervisory workers on private non-agricultural payrolls dropped a tenth of an hour. The August level of 36.0 hours, seasonally adjusted, was the lowest since last September (with the exception of January's weather-induced low). The manufacturing workweek declined 0.2 hour in August to 40.1 hours. Manufacturing overtime was 3.4 hours for the fifth straight month.

The index of aggregate weekly hours of private production or nonsupervisory workers on nonagricultural payrolls declined 0.3 percent in August. The drop was concentrated in the goods-producing sector, with the manufacturing index dropping 1.1 percent. The overall index, which is regarded as the most comprehensive measure of labor force activity, has been declining since May, following strong growth earlier in 1977. At 115.3 (1967=100), the index was still 3.1 percent above last August's level.

Hourly and weekly earnings

On a seasonally-adjusted basis, average hourly earnings of production or nonsupervisory workers on private non-agricultural payrolls held steady over the month, while weekly earnings experienced a moderate decline. The 0.3-percent decrease reflects a similar drop in weekly hours. Hourly and weekly earnings were 7.1 and 6.8 percent above their respective levels of a year ago.

Before adjustment for seasonality, average hourly earnings were \$5.23 in August, down 1 cent from July but up 34 cents from the level 12 months earlier. Average weekly earnings, at \$190.37, declined 89 cents over the month but were \$11.40 above the August 1976 level.

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 199.1 (1967=100) in August, 0.1 percent higher than in July. The index was 6.6 percent above August a year ago. During the 12-month period ended in July, the Hourly Earnings Index in dollars of constant purchasing power rose 0.3 percent.

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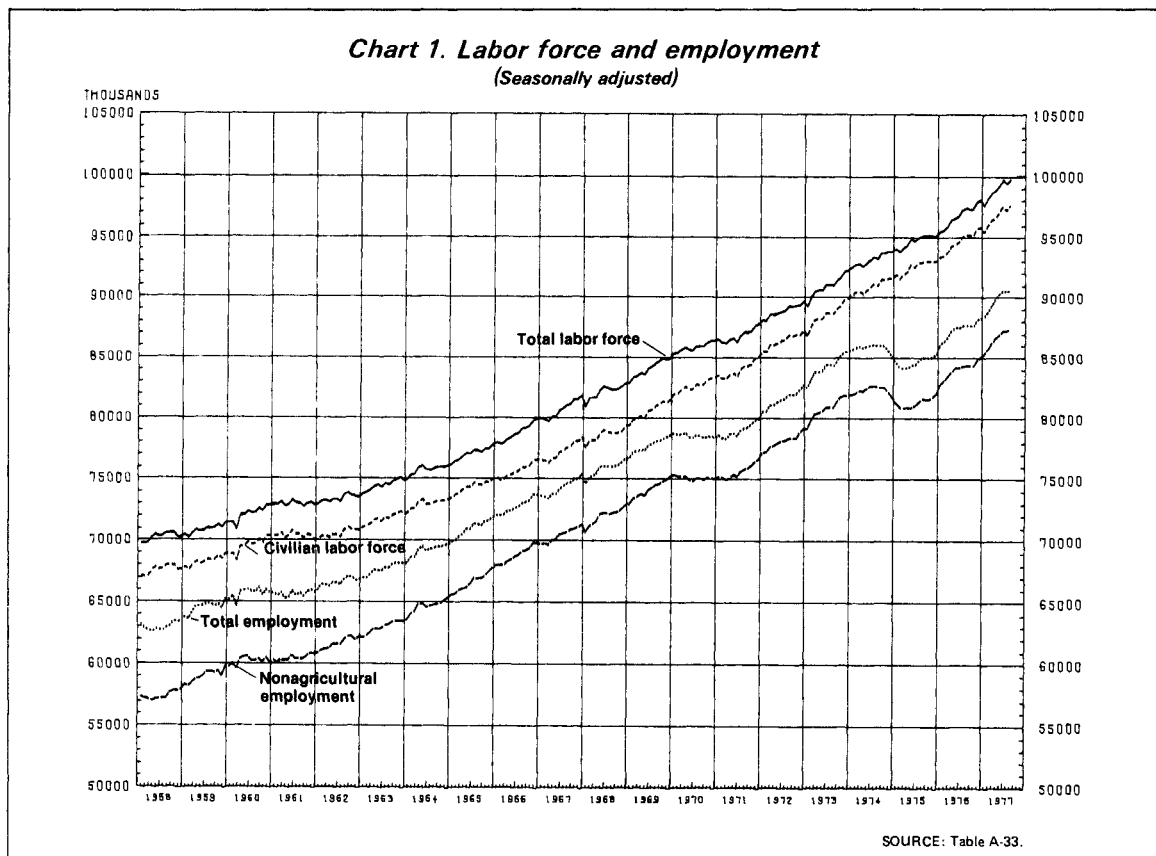
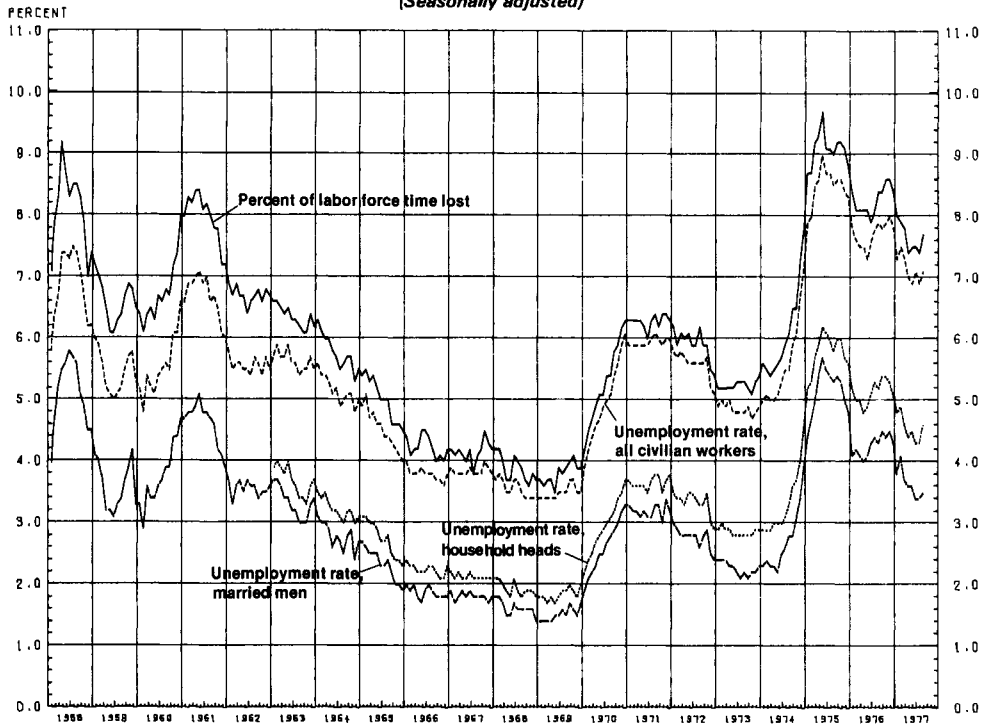
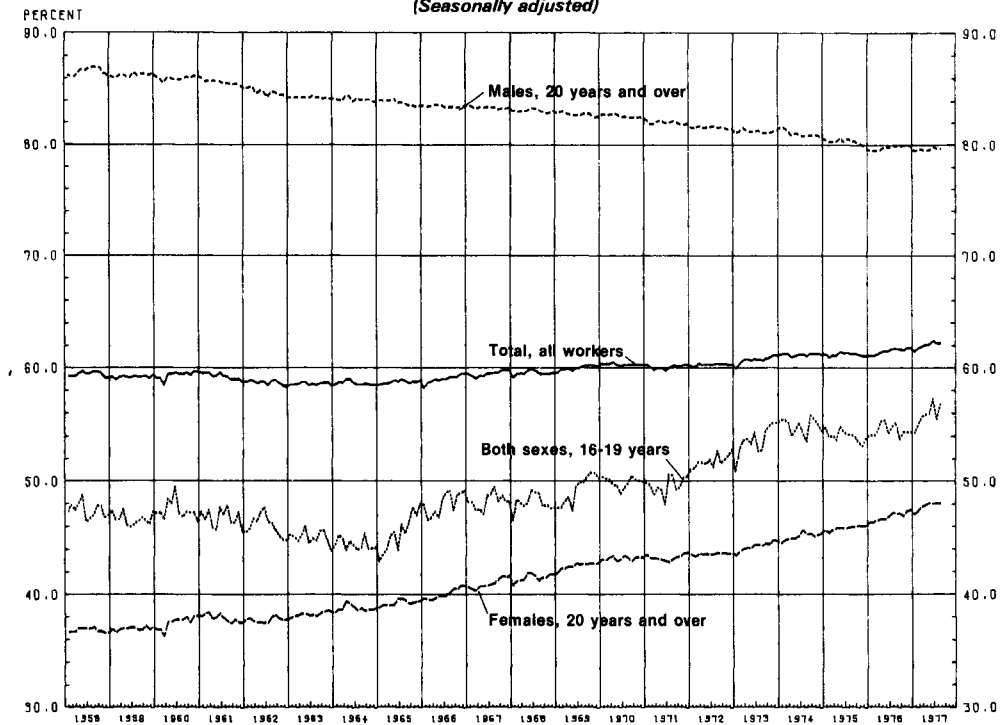


Chart 2. Major unemployment indicators
(Seasonally adjusted)



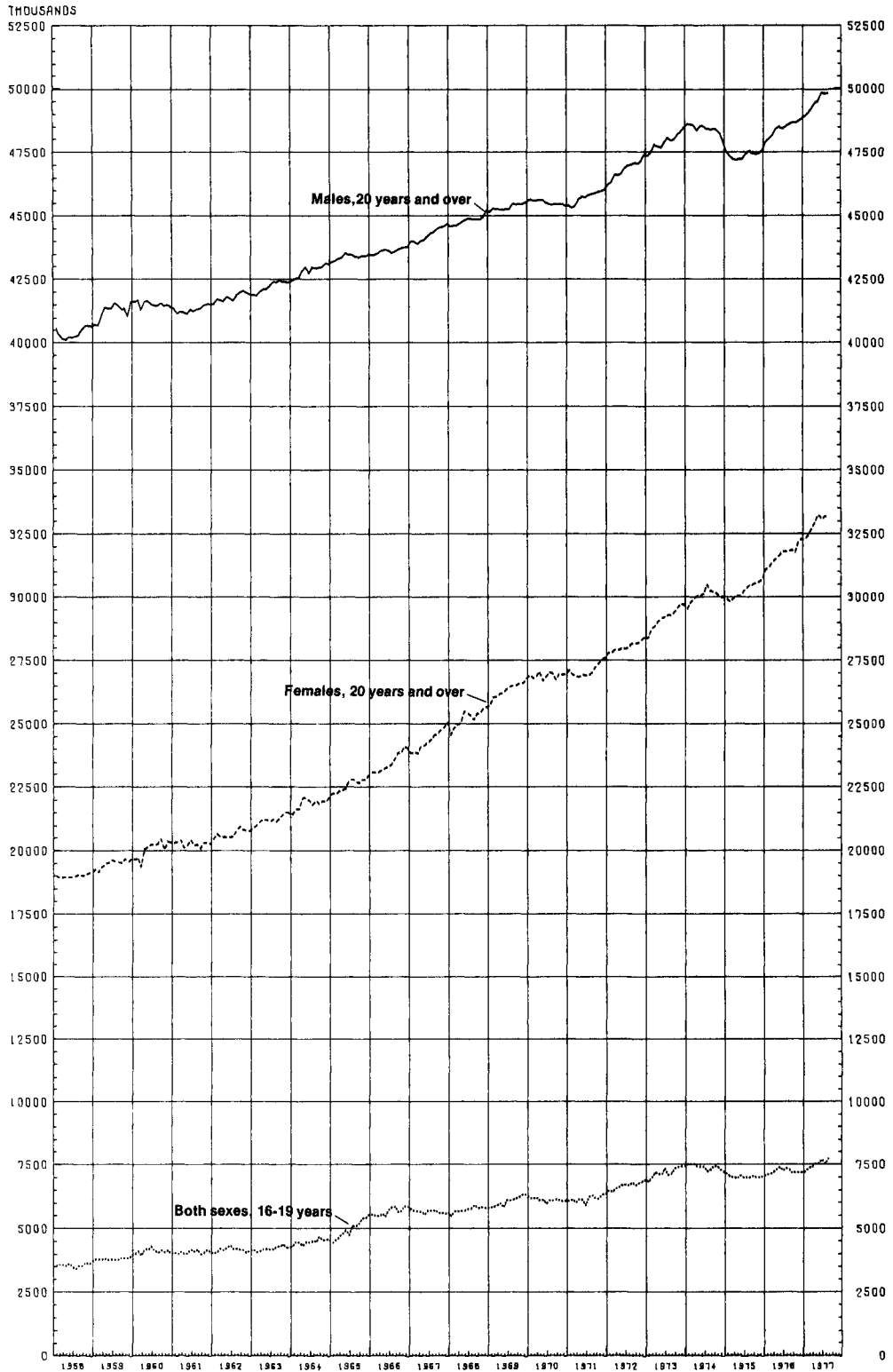
SOURCE: Table A-36.

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



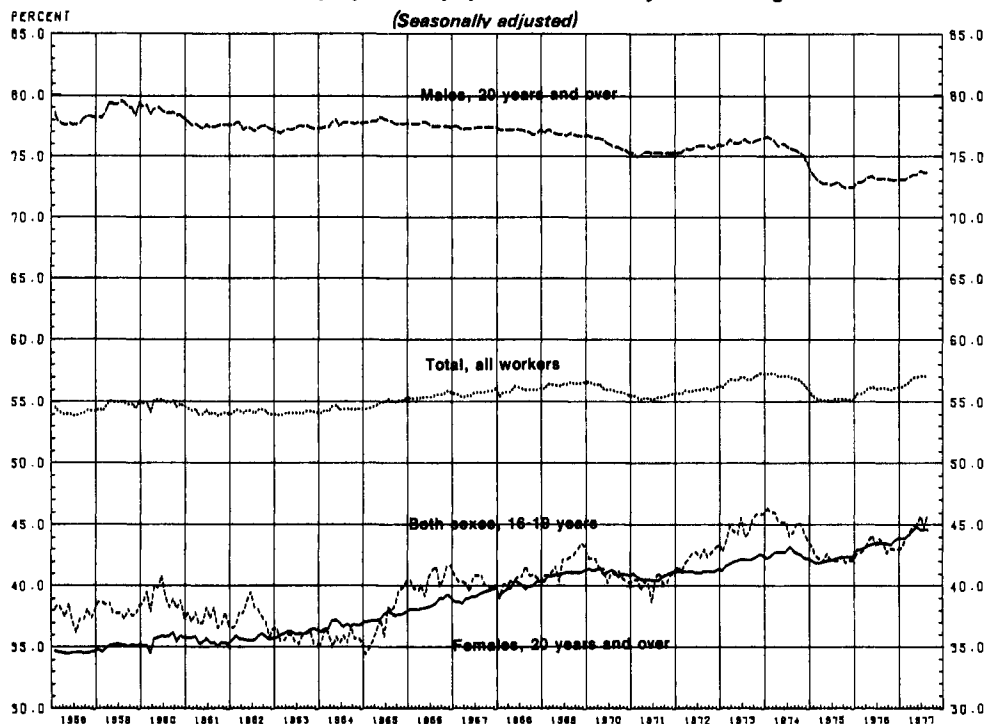
SOURCE: Table A-33.

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



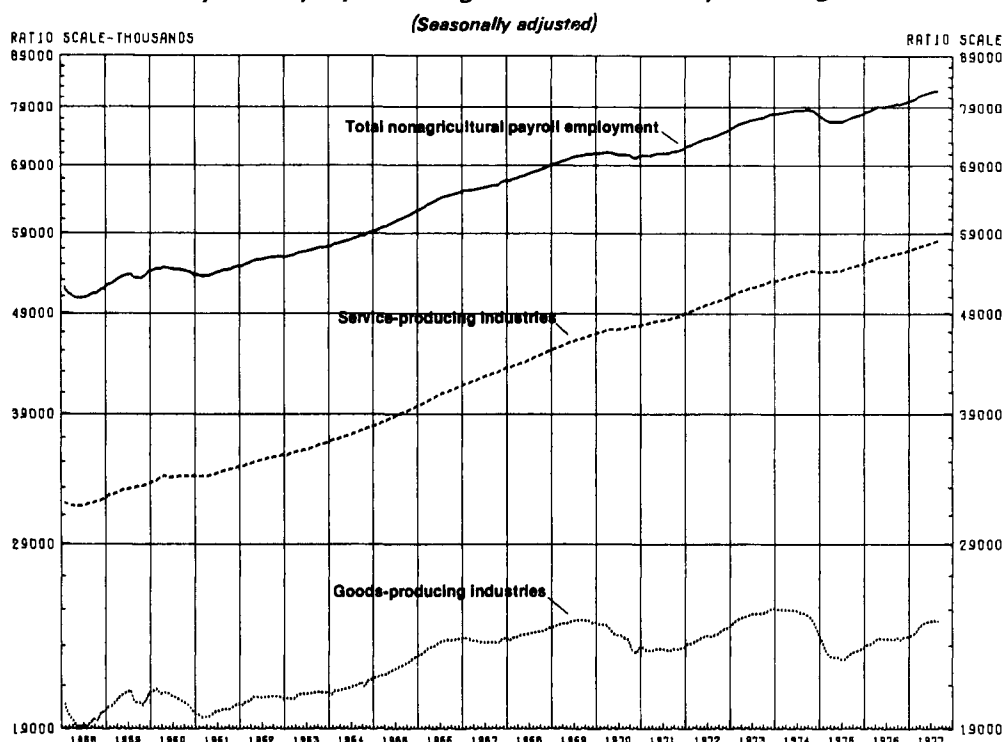
SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age



SOURCE: Table A-33.

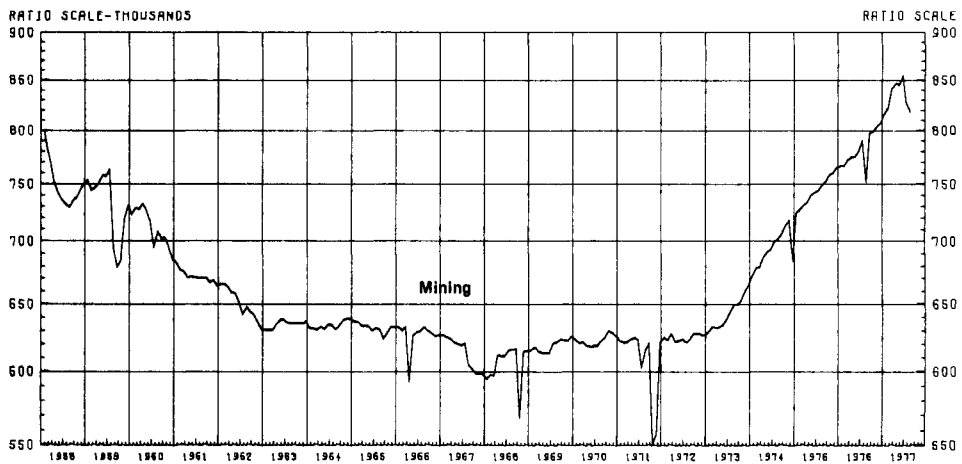
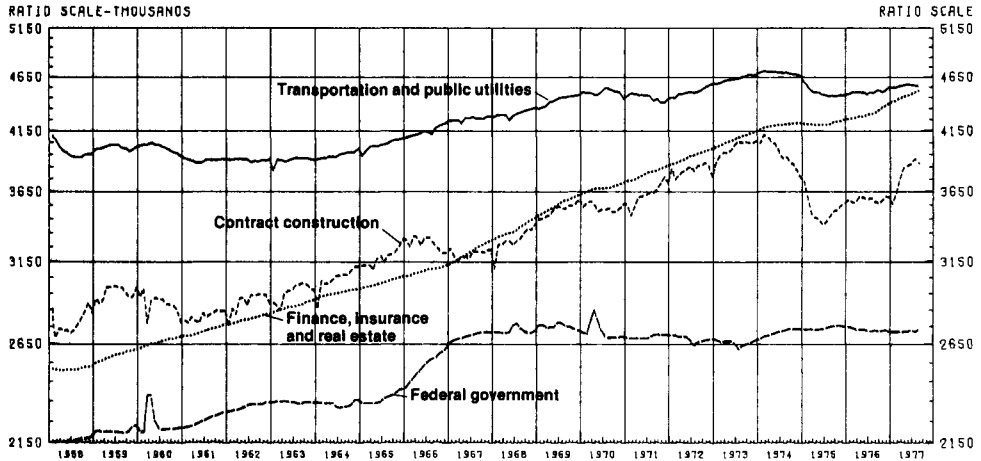
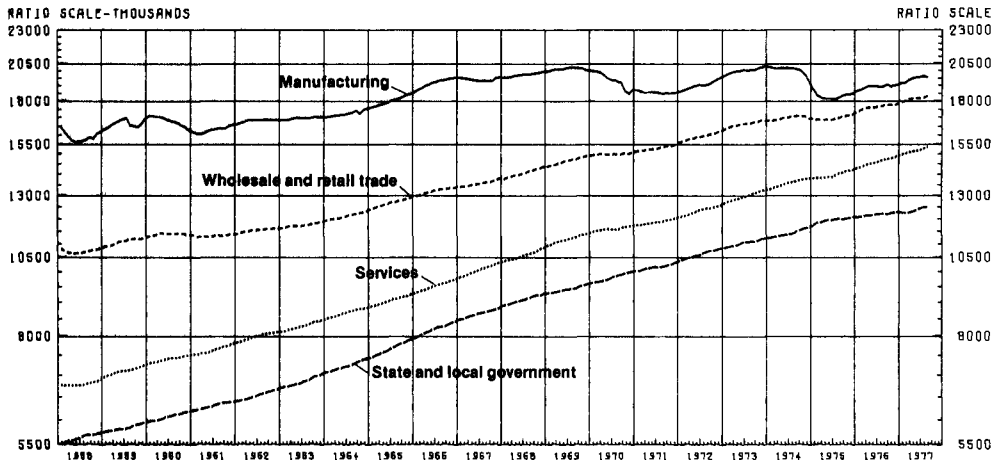
Chart 6. Payroll employment in goods- and service-producing industries



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

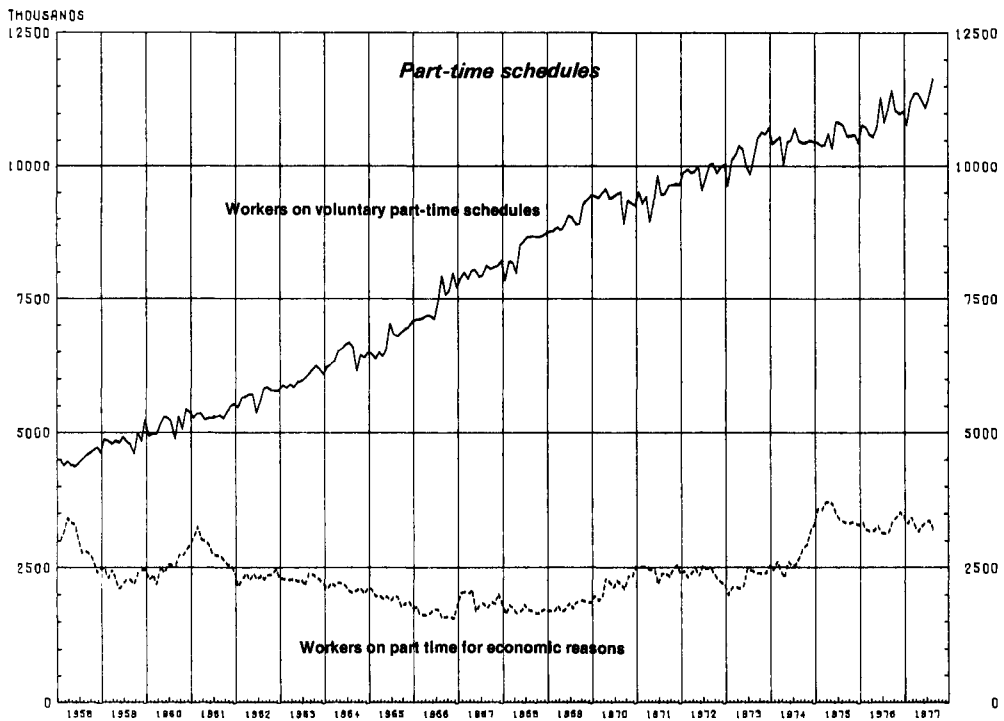
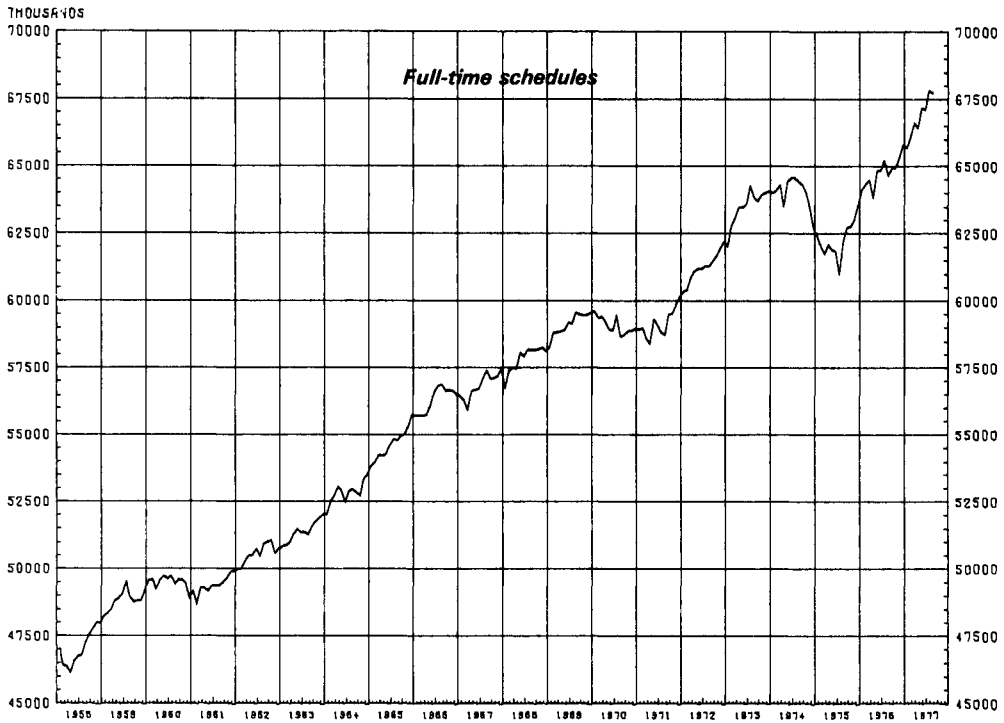
Chart 7. Nonagricultural payroll employment by industry
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

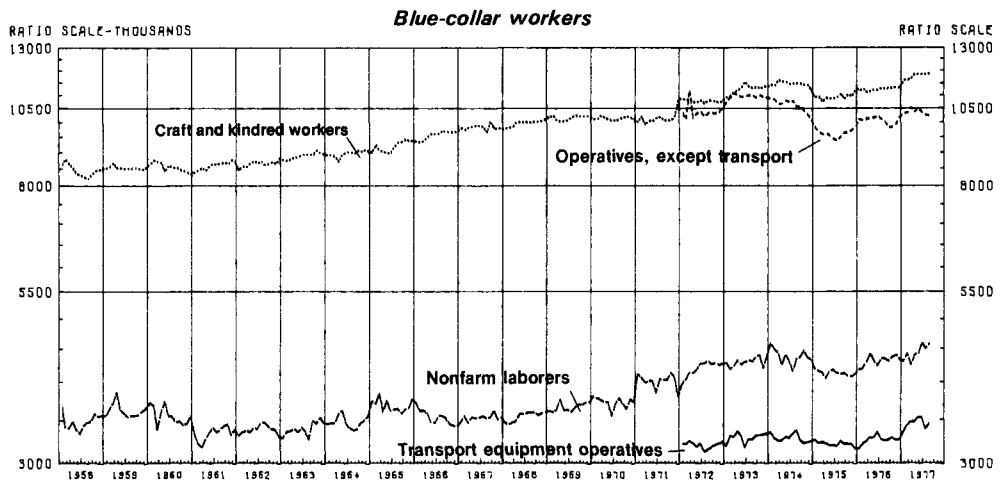
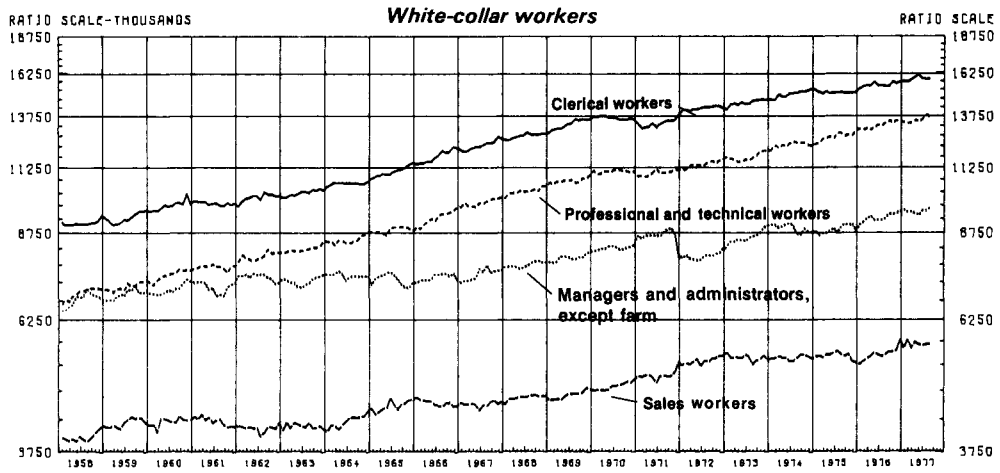
SOURCE: Table B-5.

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



SOURCE: Table A-42.

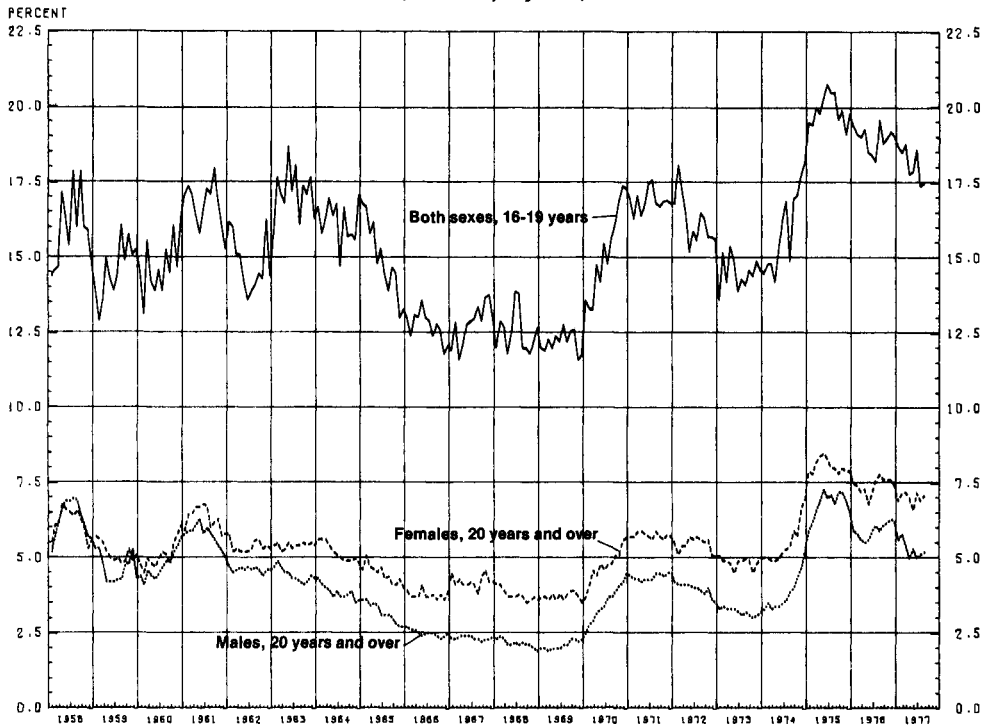
Chart 9. Employment in nonfarm occupations
(Seasonally adjusted)



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.

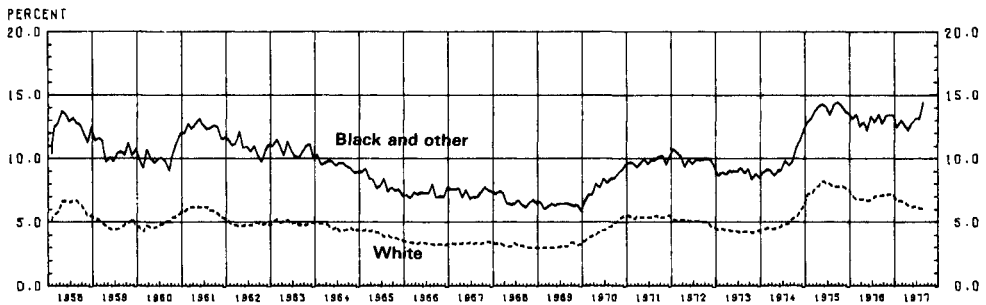
SOURCE: Table A-42.

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

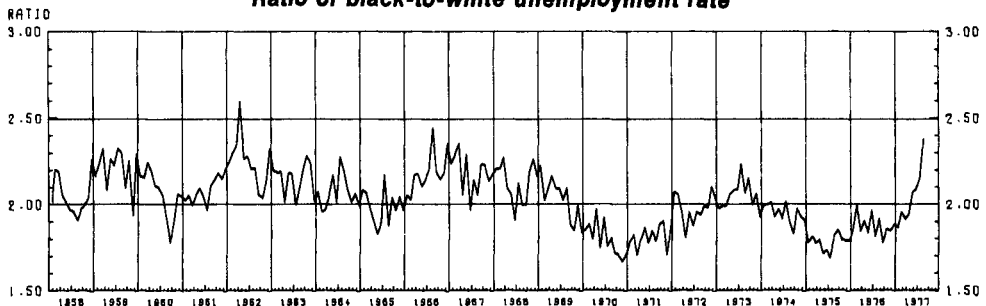


SOURCE: Table A-36.

Chart 11. Unemployment rates by race
(Seasonally adjusted)

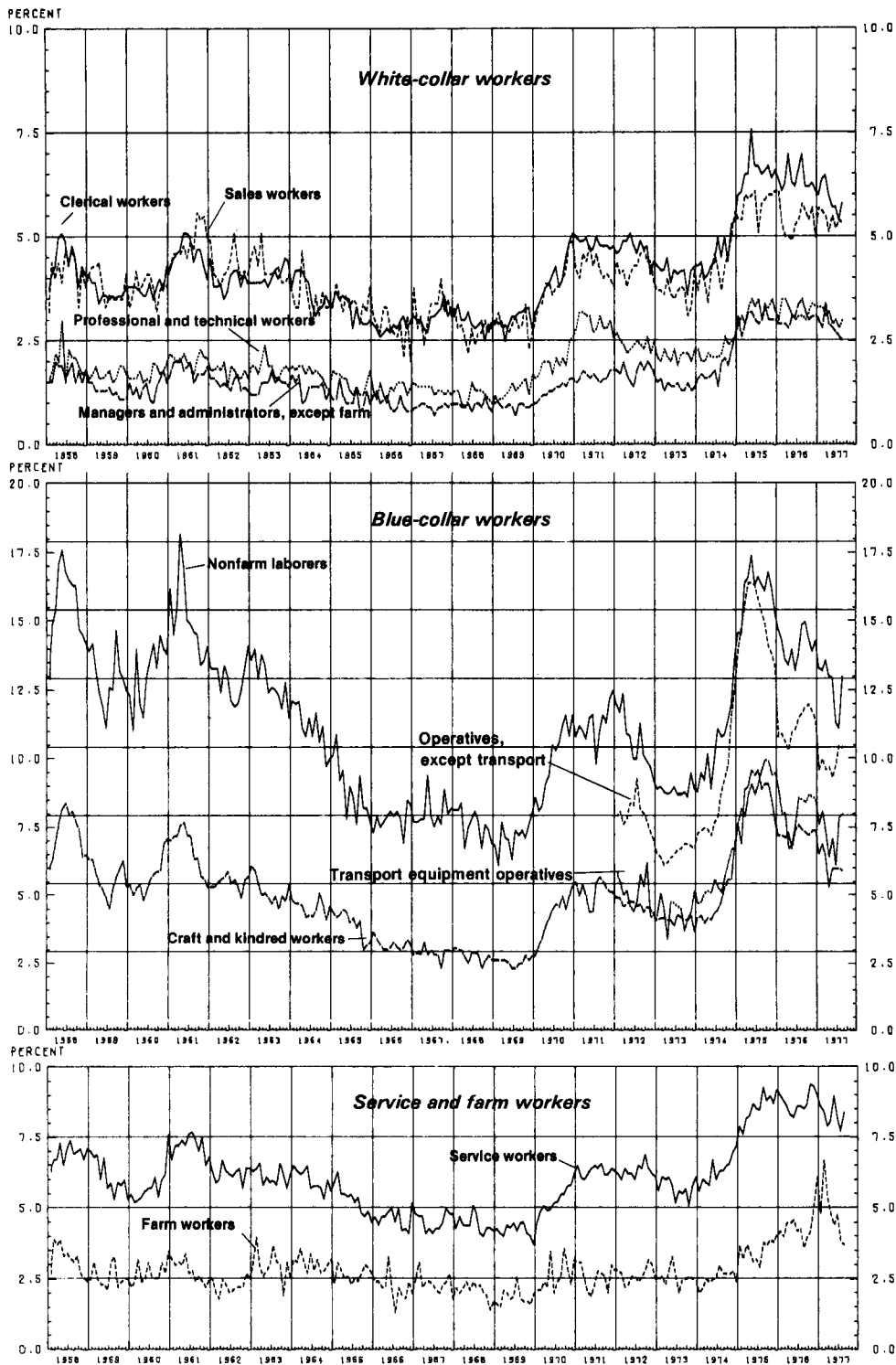


Ratio of black-to-white unemployment rate



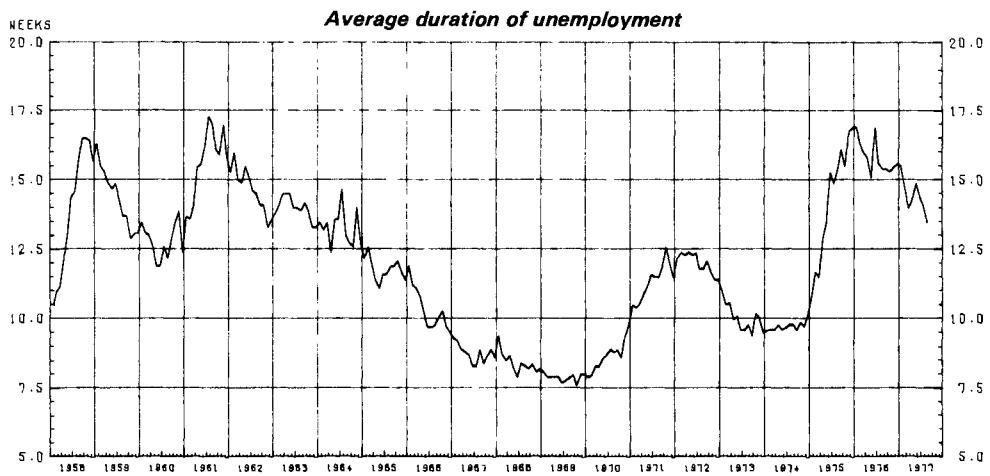
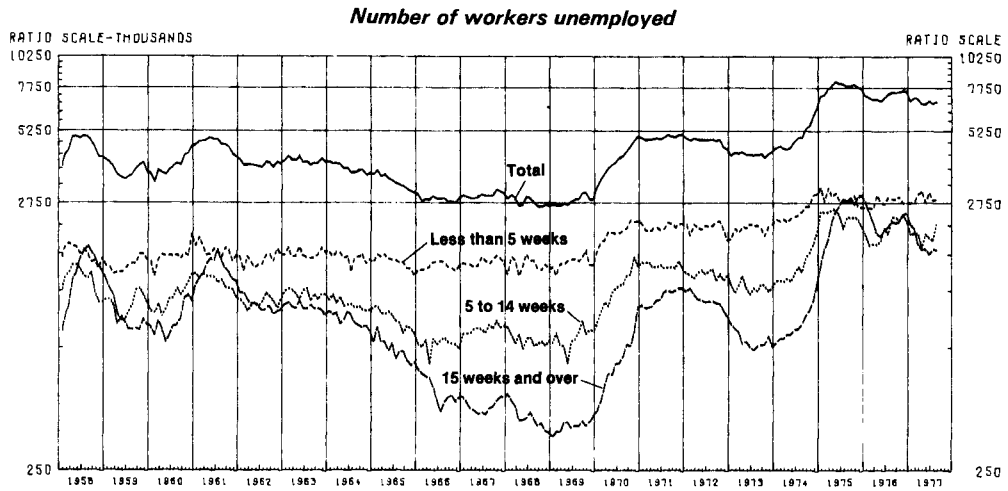
SOURCE: Table A-35.

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



SOURCE: Table A-36.

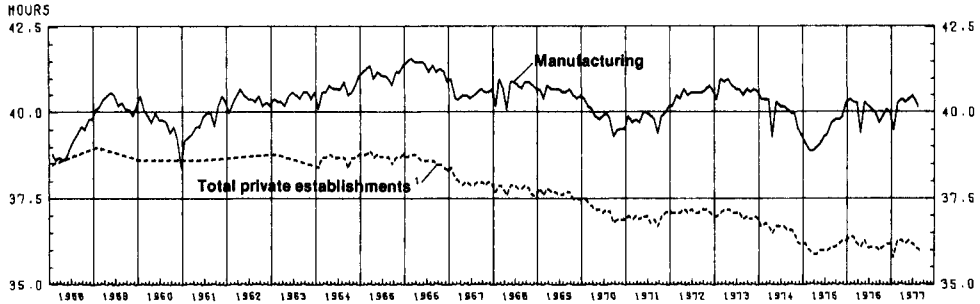
Chart 13. Duration of unemployment
(Seasonally adjusted)



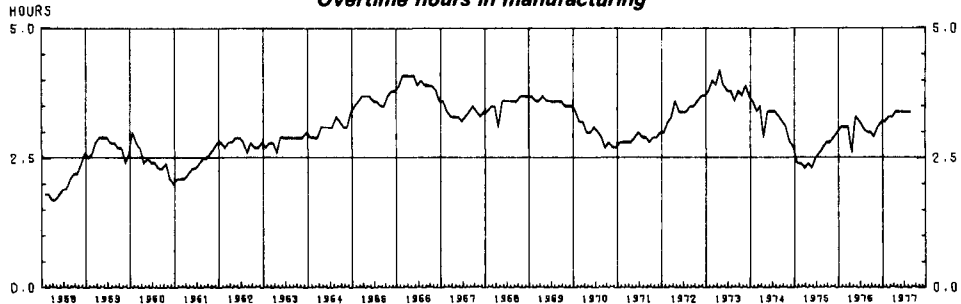
SOURCE: Table A-37.

Chart 14. Average weekly hours in nonagricultural industries

(Seasonally adjusted)



Overtime hours in manufacturing



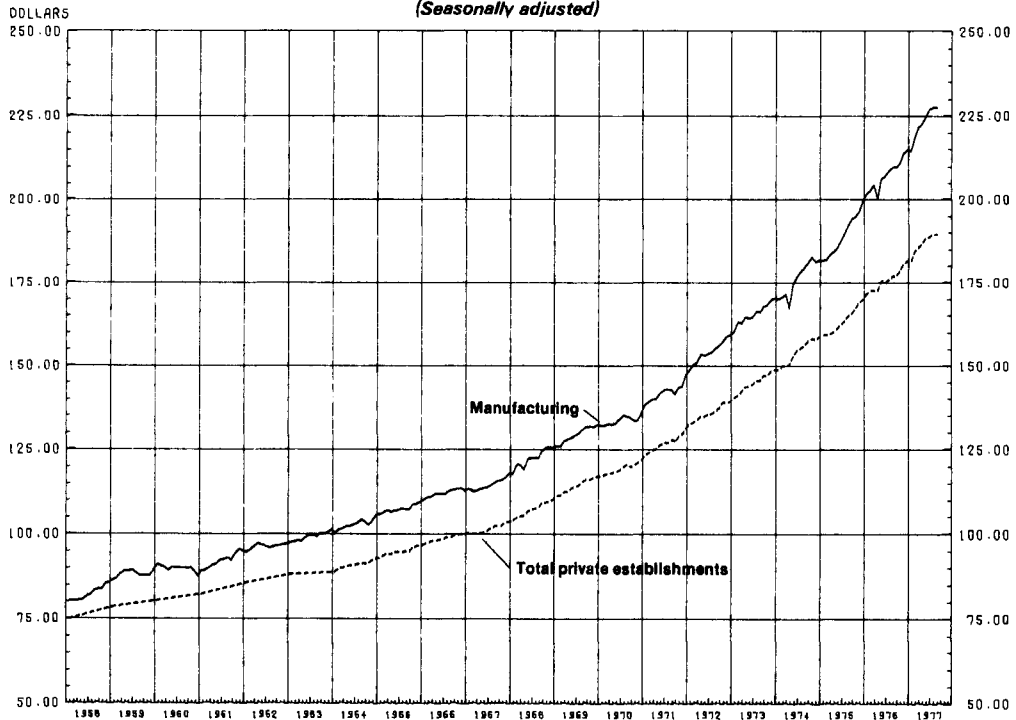
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

Chart 15. Average weekly earnings in nonagricultural industries

(Seasonally adjusted)

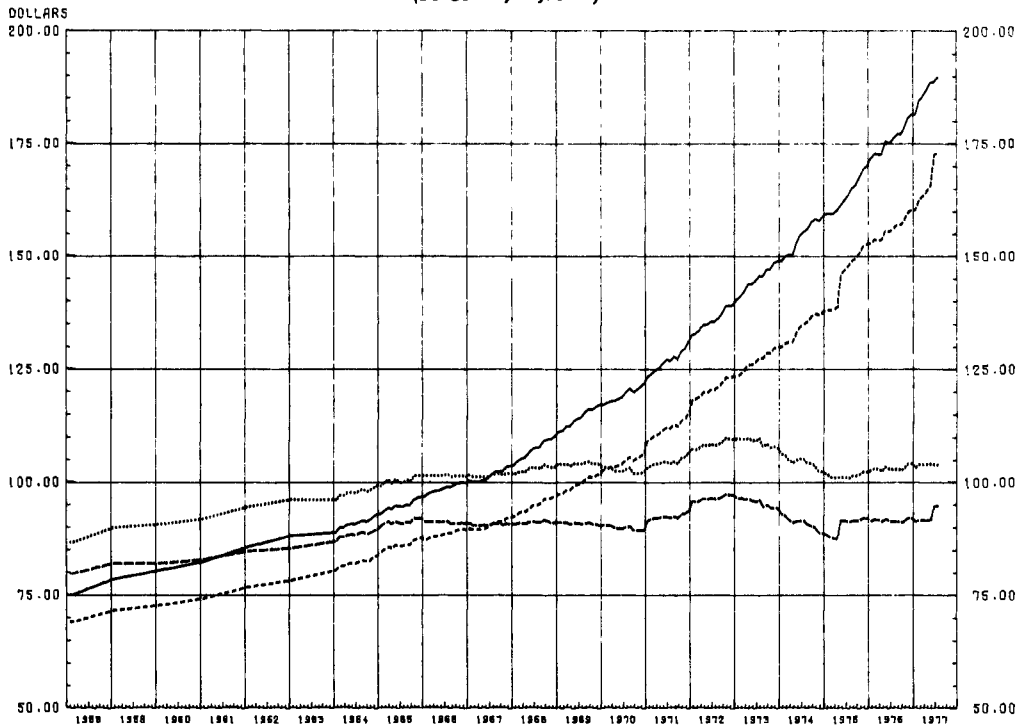


¹ Annual averages prior to 1964.

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)

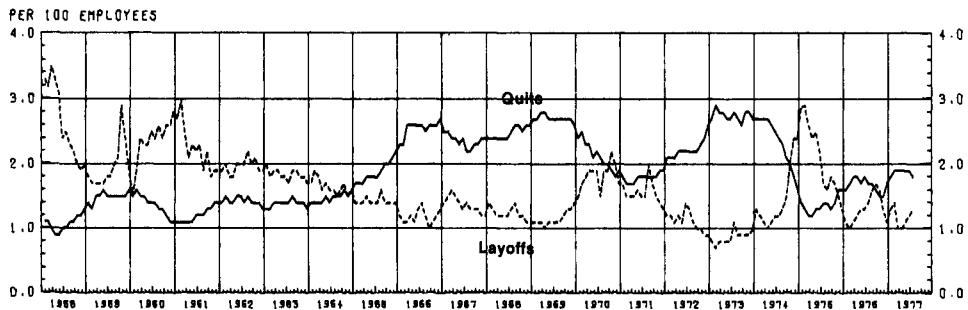
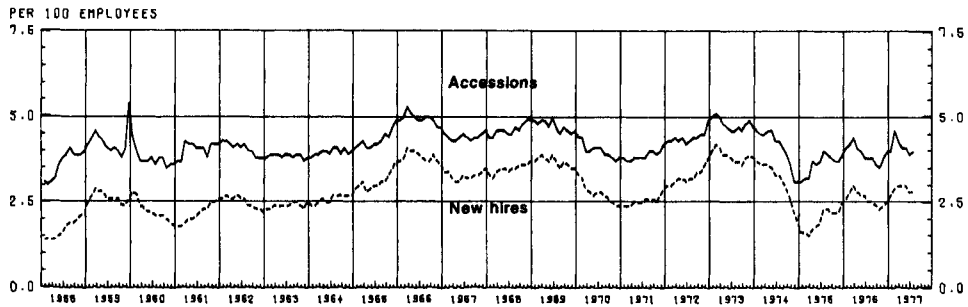


¹ Worker with three dependents.

NOTE: Data prior to 1964 are annual averages. Data for current month are preliminary.

SOURCE: Table C-8.

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



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

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 ¹	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 ¹	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:										
August.....	156,367	97,498	62.4	95,351	87,834	3,372	84,462	7,517	7.9	58,869
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	95,960	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	59,094
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

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	48,937	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 adjusted ²										
1976:										
August.....	74,881	58,602	78.7	56,564	52,596	2,768	49,828	3,968	7.0	16,279
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.....	75,325	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
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 ¹	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 adjusted ²										
1976:										
August.....	81,486	38,896	47.7	38,787	35,238	604	34,634	3,549	9.1	42,590
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	34,594	3,407	8.7	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

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	August 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	60,906	80.0	58,885	55,565	3,320	5.6	15,237	318	644	1,931	12,346
16 to 21 years	10,006	78.6	9,302	8,064	1,238	13.3	2,720	26	357	48	2,289
16 to 19 years	6,234	73.3	5,907	5,052	855	14.5	2,268	23	217	26	2,002
16 to 17 years	2,696	63.5	2,668	2,218	450	16.9	1,552	16	122	6	1,407
18 to 19 years	3,538	83.2	3,239	2,834	405	12.5	716	7	95	20	595
20 to 64 years	52,864	90.5	51,151	48,760	2,392	4.7	5,576	136	427	1,404	3,610
20 to 24 years	9,106	83.2	8,357	7,522	834	10.0	866	7	273	64	522
25 to 54 years	36,736	94.4	35,791	34,428	1,363	3.8	2,173	66	150	756	1,202
25 to 29 years	8,347	95.7	7,970	7,494	476	6.0	378	5	90	65	218
30 to 34 years	7,307	96.5	7,065	6,743	322	4.6	264	18	22	80	144
35 to 39 years	5,761	96.1	5,566	5,402	164	3.0	233	2	19	76	137
40 to 44 years	5,147	95.1	5,055	4,910	145	2.9	265	6	15	112	131
45 to 49 years	5,135	92.5	5,103	4,981	121	2.4	418	11	5	185	216
50 to 54 years	5,038	89.1	5,031	4,897	135	2.7	615	23	--	237	356
55 to 64 years	7,004	73.4	7,003	6,810	193	2.8	2,537	63	3	585	1,886
55 to 59 years	4,357	83.5	4,356	4,259	97	2.2	860	21	3	291	545
60 to 64 years	2,647	61.2	2,647	2,550	97	3.6	1,677	42	--	294	1,341
65 years and over	1,827	19.8	1,827	1,753	74	4.1	7,393	159	--	500	6,734
65 to 69 years	1,059	28.8	1,059	1,010	49	4.7	2,617	45	--	177	2,395
70 years and over	768	13.9	768	743	25	3.3	4,775	113	--	323	4,339
White											
16 years and over	54,278	80.7	52,617	50,128	2,490	4.7	12,990	238	483	1,523	10,746
16 to 21 years	8,727	80.4	8,154	7,274	879	10.8	2,134	19	265	35	1,815
16 to 19 years	5,433	75.1	5,164	4,555	609	11.8	1,802	16	166	21	1,600
16 to 17 years	2,369	65.8	2,345	2,003	342	14.6	1,230	13	96	6	1,115
18 to 19 years	3,064	84.3	2,819	2,552	267	9.5	572	2	70	15	485
20 to 64 years	47,180	91.2	45,790	43,974	1,815	4.0	4,539	100	317	1,426	3,012
20 to 24 years	7,964	92.4	7,368	6,793	574	7.8	655	7	202	48	399
25 to 54 years	22,794	66.2	32,002	30,933	1,068	3.3	1,659	43	115	568	934
25 to 29 years	13,890	96.6	13,375	12,756	620	4.6	485	13	91	99	283
35 to 44 years	9,697	96.2	9,454	9,202	251	2.7	386	6	19	154	207
45 to 54 years	9,207	92.1	9,172	8,975	197	2.1	788	24	5	316	444
55 to 64 years	6,421	74.3	6,420	6,247	173	2.7	2,225	50	--	493	1,680
55 to 59 years	3,977	84.3	3,975	3,894	81	2.0	739	18	--	247	473
60 to 64 years	2,445	62.2	2,445	2,354	91	3.7	1,486	32	--	247	1,207
65 years and over	1,664	20.0	1,664	1,598	66	4.0	6,649	123	--	393	6,134
Black and other											
16 years and over	6,629	74.7	6,268	5,437	831	13.3	2,247	79	--	407	1,600
16 to 21 years	1,279	68.6	1,149	790	359	31.2	586	7	92	13	474
16 to 19 years	800	63.2	743	497	246	33.2	466	7	51	5	402
16 to 17 years	327	50.4	323	215	108	33.6	322	3	26	--	292
18 to 19 years	473	76.6	420	282	138	32.8	145	4	25	5	110
20 to 64 years	5,665	84.5	5,362	4,785	576	10.7	1,038	36	110	295	597
20 to 24 years	1,141	84.4	989	729	260	26.3	211	--	72	16	124
25 to 54 years	3,941	88.5	3,789	3,495	296	7.8	514	23	36	188	268
25 to 34 years	1,764	91.8	1,660	1,482	179	10.8	157	11	21	46	80
35 to 44 years	1,212	91.6	1,168	1,110	58	5.0	112	2	15	35	60
45 to 54 years	965	79.8	961	903	59	6.1	245	11	--	106	128
55 to 64 years	583	65.1	583	562	21	3.6	313	13	2	92	206
55 to 59 years	381	75.8	381	365	15	4.1	121	3	2	44	72
60 to 64 years	202	51.4	202	197	5	2.7	191	10	--	47	134
65 years and over	163	18.0	163	155	8	5.1	743	36	--	107	600

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	August 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	40,304	48.7	40,188	36,751	3,437	8.6	42,451	34,328	719	975	6,429
16 to 21 years	7,903	63.4	7,855	6,725	1,130	14.4	4,568	1,873	447	19	2,228
16 to 19 years	5,018	60.3	4,999	4,200	799	16.0	3,308	1,018	302	12	1,976
16 to 17 years	2,071	50.3	2,070	1,720	351	16.9	2,046	463	121	6	1,456
18 to 19 years	2,947	70.0	2,929	2,480	448	15.3	1,262	555	181	6	520
20 to 64 years	34,308	56.0	34,210	31,622	2,590	7.6	27,010	23,619	410	427	2,555
20 to 24 years	6,839	68.7	6,775	5,981	794	11.7	3,116	2,367	249	23	477
25 to 54 years	23,229	57.1	23,196	21,588	1,607	6.9	17,462	15,625	153	232	1,452
25 to 29 years	5,448	61.3	5,425	4,943	482	8.9	3,442	3,060	73	18	291
30 to 34 years	4,308	55.4	4,302	3,989	313	7.3	3,462	3,157	31	17	257
35 to 39 years	3,642	57.7	3,640	3,400	240	6.6	2,675	2,369	23	26	257
40 to 44 years	3,307	57.8	3,306	3,107	199	6.0	2,412	2,145	4	49	213
45 to 49 years	3,329	56.8	3,329	3,133	196	5.9	2,535	2,280	11	44	200
50 to 54 years	3,194	52.1	3,194	3,017	177	5.6	2,935	2,613	10	79	234
55 to 64 years	4,240	39.7	4,240	4,052	188	4.4	6,433	5,626	8	172	627
55 to 59 years	2,695	47.0	2,695	2,570	125	4.6	3,040	2,702	5	75	258
60 to 64 years	1,545	31.3	1,545	1,482	63	4.1	3,393	2,924	3	98	369
65 years and over	978	7.5	978	929	48	4.9	12,133	9,691	7	537	1,898
65 to 69 years	615	13.3	615	582	33	5.4	4,026	3,407	2	67	550
70 years and over	362	4.3	362	347	15	4.1	8,107	6,284	5	470	1,348
White											
16 years and over	34,883	48.2	34,789	32,151	2,639	7.6	37,469	30,673	518	762	5,515
16 to 21 years	6,969	66.1	6,929	6,103	826	11.9	3,580	1,494	305	13	1,768
16 to 19 years	4,454	63.3	4,439	3,836	603	13.6	2,577	805	198	6	1,569
16 to 17 years	1,878	54.2	1,877	1,600	278	14.8	1,589	355	74	2	1,157
18 to 19 years	2,577	72.3	2,561	2,237	325	12.7	989	449	124	3	412
20 to 64 years	29,554	55.3	29,476	27,487	1,988	6.7	23,860	21,002	316	314	2,228
20 to 24 years	5,905	69.8	5,854	5,289	566	9.7	2,560	1,968	194	18	381
25 to 54 years	19,848	56.2	19,821	18,570	1,251	6.3	15,483	13,917	118	164	1,284
25 to 29 years	8,235	57.4	8,212	7,607	604	7.4	6,119	5,529	77	32	481
30 to 34 years	5,933	57.0	5,930	5,586	344	5.8	4,467	3,967	27	45	428
35 to 44 years	5,680	53.7	5,679	5,376	303	5.3	4,897	4,422	13	87	376
55 to 64 years	3,801	39.5	3,801	3,628	172	4.5	5,816	5,117	5	132	563
55 to 59 years	2,413	46.8	2,413	2,298	114	4.7	2,742	2,448	2	57	235
60 to 64 years	1,388	31.1	1,388	1,330	58	4.1	3,075	2,670	3	74	328
65 years and over	875	7.3	875	827	48	5.4	11,031	8,866	4	443	1,718
Black and other											
16 years and over	5,420	52.1	5,398	4,600	798	14.8	4,983	3,655	201	213	914
16 to 21 years	934	48.6	926	621	305	32.9	988	379	143	6	460
16 to 19 years	563	43.5	560	364	197	35.1	731	214	104	6	407
16 to 17 years	193	29.7	193	120	73	37.8	458	108	47	3	300
18 to 19 years	370	57.5	367	244	124	33.6	273	106	58	3	107
20 to 64 years	4,754	60.1	4,735	4,134	600	12.7	3,151	2,617	94	114	328
20 to 24 years	934	62.7	921	693	228	24.8	556	400	55	5	96
25 to 54 years	3,381	63.1	3,375	3,018	357	10.6	1,978	1,707	35	68	168
25 to 29 years	1,521	66.0	1,515	1,325	191	12.6	785	688	27	3	66
30 to 34 years	1,071	62.1	1,016	921	95	9.4	620	548	1	29	43
35 to 44 years	843	59.6	843	773	70	8.4	573	471	8	36	58
55 to 64 years	439	41.6	439	423	16	3.6	617	509	3	41	64
55 to 59 years	282	48.6	282	272	10	3.7	298	255	3	18	23
60 to 64 years	157	33.1	157	152	6	3.5	318	254	--	23	41
65 years and over	103	8.6	103	102	1	.7	1,101	825	3	93	179

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
MALES								
16 years and over	59,884	60,906	80.0	80.0	57,846	58,885	79.4	79.4
16 to 19 years	6,119	6,234	72.0	73.3	5,778	5,907	70.8	72.3
16 to 17 years	2,617	2,696	61.9	63.5	2,584	2,668	61.6	63.2
18 to 19 years	3,502	3,538	82.1	83.2	3,194	3,239	80.7	81.9
20 to 24 years	8,787	9,106	89.9	91.3	8,030	8,357	89.0	90.6
25 to 54 years	36,139	36,736	94.5	94.4	35,202	35,791	94.3	94.3
25 to 34 years	15,111	15,654	95.8	96.1	14,500	15,036	95.6	95.9
35 to 44 years	10,677	10,909	95.6	95.6	10,388	10,622	95.4	95.5
45 to 54 years	10,352	10,173	91.6	90.8	10,313	10,134	91.5	90.8
55 to 64 years	7,032	7,004	75.0	73.4	7,030	7,003	75.0	73.4
55 to 59 years	4,281	4,357	84.3	83.5	4,279	4,356	84.3	83.5
60 to 64 years	2,751	2,647	64.0	61.2	2,751	2,647	64.0	61.2
65 years and over	1,806	1,827	20.1	19.8	1,806	1,827	20.1	19.8
White								
16 years and over	53,488	54,278	80.8	80.7	51,799	52,617	83.0	80.2
16 to 19 years	5,411	5,433	74.8	75.1	5,125	5,164	73.7	74.1
16 to 17 years	2,309	2,369	64.4	65.8	2,280	2,345	64.1	65.6
18 to 19 years	3,101	3,064	84.9	84.3	2,845	2,819	83.8	83.1
20 to 24 years	7,717	7,964	91.2	92.4	7,110	7,368	90.5	91.8
25 to 54 years	32,280	32,794	95.2	95.2	31,486	32,002	95.0	95.1
25 to 34 years	13,413	13,890	96.2	96.6	12,900	13,375	96.1	96.5
35 to 44 years	9,502	9,697	96.2	96.2	9,256	9,454	96.1	96.1
45 to 54 years	9,365	9,207	92.7	92.1	9,330	9,172	92.6	92.1
55 to 64 years	6,455	6,421	75.9	74.3	6,454	6,420	75.9	74.3
55 to 59 years	3,909	3,977	85.0	84.3	3,908	3,975	85.0	84.3
60 to 64 years	2,546	2,445	65.3	62.2	2,546	2,445	65.3	62.2
65 years and over	1,625	1,664	20.1	20.0	1,625	1,664	20.1	20.0
Black and other								
16 years and over	6,396	6,629	73.9	74.7	6,047	6,268	72.8	73.6
16 to 19 years	708	800	56.3	63.2	653	743	54.2	61.4
16 to 17 years	308	327	47.8	50.4	303	323	47.4	50.1
18 to 19 years	400	473	65.1	76.6	349	420	62.0	74.4
20 to 24 years	1,070	1,141	81.6	84.4	921	989	79.2	82.4
25 to 54 years	3,860	3,941	89.2	88.5	3,716	3,789	88.8	88.0
25 to 34 years	1,697	1,764	92.3	91.8	1,601	1,660	91.9	91.3
35 to 44 years	1,175	1,212	91.0	91.6	1,132	1,168	90.7	91.3
45 to 54 years	987	965	82.3	79.8	983	961	82.2	79.7
55 to 64 years	576	583	65.8	65.1	576	583	65.8	65.1
55 to 59 years	371	381	77.2	75.8	371	381	77.2	75.8
60 to 64 years	205	202	51.8	51.4	205	202	51.8	51.4
65 years and over	182	163	20.7	18.0	182	163	20.7	18.0

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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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
FEMALES								
16 years and over	38,953	40,304	47.8	48.7	38,844	40,188	47.7	48.6
16 to 19 years	4,805	5,018	57.8	60.3	4,786	4,999	57.7	60.2
16 to 17 years	2,013	2,071	49.0	50.3	2,012	2,070	49.0	50.3
18 to 19 years	2,792	2,947	66.3	70.0	2,773	2,929	66.2	69.9
20 to 24 years	6,608	6,839	67.8	68.7	6,547	6,775	67.6	68.5
25 to 54 years	22,289	23,229	55.7	57.1	22,260	23,196	55.6	57.1
25 to 34 years	9,106	9,756	56.4	58.6	9,081	9,727	56.4	58.5
35 to 44 years	6,602	6,950	57.7	57.7	6,599	6,946	56.0	57.7
45 to 54 years	6,582	6,524	54.3	54.4	6,581	6,523	54.3	54.4
55 to 64 years	4,269	4,240	40.6	39.7	4,269	4,240	40.6	39.7
55 to 59 years	2,663	2,695	47.6	47.0	2,663	2,695	47.6	47.0
60 to 64 years	1,606	1,545	32.7	31.3	1,606	1,545	32.7	31.3
65 years and over	982	978	7.6	7.5	982	978	7.6	7.5
White								
18 years and over	33,744	34,883	47.3	48.2	33,655	34,789	47.2	48.1
16 to 19 years	4,236	4,454	60.2	63.3	4,219	4,439	60.1	63.3
16 to 17 years	1,773	1,878	51.2	54.2	1,772	1,877	51.2	54.2
18 to 19 years	2,463	2,577	68.9	72.3	2,447	2,561	68.7	72.1
20 to 24 years	5,705	5,905	68.7	69.8	5,656	5,854	68.5	69.6
25 to 54 years	19,109	19,848	54.9	56.2	19,086	19,821	54.8	56.1
25 to 34 years	7,681	8,235	55.1	57.4	7,661	8,212	55.1	57.3
35 to 44 years	5,617	5,933	55.1	57.0	5,614	5,930	55.1	57.0
45 to 54 years	5,811	5,680	54.2	53.7	5,810	5,679	54.2	53.7
55 to 64 years	3,818	3,801	40.3	39.5	3,818	3,801	40.3	39.5
55 to 59 years	2,389	2,413	47.4	46.8	2,388	2,413	47.4	46.8
60 to 64 years	1,430	1,388	32.2	31.1	1,430	1,388	32.2	31.1
65 years and over	876	875	7.5	7.3	876	875	7.5	7.3
Black and other								
16 years and over	5,209	5,420	51.5	52.1	5,189	5,398	51.4	52.0
16 to 19 years	569	563	44.5	43.5	566	560	44.3	43.4
16 to 17 years	240	193	37.2	29.7	240	193	37.2	29.7
18 to 19 years	329	370	51.9	57.5	326	367	51.7	57.4
20 to 24 years	903	934	62.7	62.7	891	921	62.3	62.4
25 to 54 years	3,180	3,381	61.2	63.1	3,175	3,375	61.1	63.0
25 to 34 years	1,425	1,521	64.6	66.0	1,420	1,515	64.5	65.9
35 to 44 years	985	1,017	61.9	62.1	984	1,016	61.9	62.1
45 to 54 years	770	843	55.1	59.6	770	843	55.1	59.6
55 to 64 years	451	439	43.7	41.6	451	439	43.7	41.6
55 to 59 years	274	282	49.1	48.6	274	282	49.1	48.6
60 to 64 years	176	157	37.3	33.1	176	157	37.3	33.1
65 years and over	107	103	9.2	8.6	107	103	9.2	8.6

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

[Numbers in thousands]

Sex and age	August 1977						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Total							
16 years and over	10,075	8,589	248	8,341	1,486	14.8	6,290
16 to 19 years	1,150	737	48	688	414	36.0	1,088
16 to 17 years	452	279	28	251	174	38.4	713
18 to 19 years	698	458	20	438	240	34.4	374
20 to 24 years	1,662	1,207	30	1,177	455	27.4	643
25 to 54 years	6,102	5,522	117	5,406	579	9.5	2,089
25 to 34 years	2,678	2,347	42	2,305	332	12.4	752
35 to 44 years	1,875	1,736	31	1,705	138	7.4	629
45 to 54 years	1,548	1,439	43	1,396	109	7.0	708
55 to 64 years	914	883	32	851	31	3.4	836
55 to 59 years	594	574	16	558	20	3.4	379
60 to 64 years	319	309	15	293	11	3.4	458
65 years and over	248	240	22	218	8	3.1	1,634
Males							
16 years and over	5,385	4,624	192	4,433	761	14.1	1,966
16 to 19 years	662	430	38	392	232	35.1	422
16 to 17 years	287	181	22	159	106	37.1	293
18 to 19 years	375	249	16	233	126	33.5	129
20 to 24 years	848	611	23	588	237	27.9	173
25 to 54 years	3,220	2,950	87	2,864	269	8.4	438
25 to 34 years	1,384	1,219	28	1,191	165	11.9	133
35 to 44 years	999	945	25	919	55	5.5	104
45 to 54 years	837	787	33	753	50	6.0	201
55 to 64 years	506	491	25	467	15	2.9	293
55 to 59 years	332	323	12	310	10	2.9	115
60 to 64 years	174	169	13	156	5	3.1	178
65 years and over	149	142	19	122	7	4.7	640
Females							
16 years and over	4,690	3,965	57	3,908	725	15.5	4,323
16 to 19 years	488	307	10	297	182	37.2	666
16 to 17 years	165	98	6	92	67	40.6	421
18 to 19 years	323	209	4	205	115	35.4	245
20 to 24 years	813	596	7	589	218	26.8	470
25 to 54 years	2,881	2,572	30	2,543	309	10.7	1,650
25 to 34 years	1,295	1,128	14	1,113	167	12.9	619
35 to 44 years	875	792	6	786	84	9.6	525
45 to 54 years	711	653	10	643	59	8.2	507
55 to 64 years	408	391	7	385	16	3.9	543
55 to 59 years	262	252	4	247	11	4.1	264
60 to 64 years	145	140	3	137	5	3.7	279
65 years and over	99	99	3	96	1	.8	994

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
TOTAL								
Total noninstitutional population	156,367	158,899	66,384	67,642	73,168	74,429	16,815	16,828
Total labor force	98,837	101,210	53,765	54,673	34,149	35,286	10,924	11,252
Percent of population	63.2	63.7	81.0	80.8	46.7	47.4	65.0	66.9
Civilian labor force	96,690	99,073	52,068	52,978	34,058	35,188	10,563	10,906
Employed	89,367	92,315	49,307	50,513	31,288	32,551	8,772	9,252
Agriculture	3,842	3,682	2,531	2,492	633	612	679	579
Nonagricultural industries	85,525	88,633	46,776	48,021	30,656	31,939	8,093	8,673
Unemployed	7,323	6,757	3,761	2,466	2,770	2,638	1,791	1,654
Percent of labor force	7.6	6.8	5.3	4.7	8.1	7.5	17.0	15.2
Not in labor force	57,530	57,689	13,619	12,969	39,020	39,143	5,891	5,576
White								
Total noninstitutional population	137,601	139,620	58,989	60,032	64,336	65,320	14,276	14,267
Total labor force	87,232	89,161	48,077	48,844	29,509	30,429	9,646	9,888
Percent of population	63.4	63.9	81.5	81.4	45.9	46.6	67.6	69.3
Civilian labor force	85,453	87,407	46,674	47,454	29,435	30,351	9,344	9,603
Employed	79,604	82,278	44,412	45,572	27,230	28,314	7,963	8,392
Agriculture	3,518	3,385	2,318	2,308	577	555	623	522
Nonagricultural industries	76,087	78,893	42,094	43,264	26,652	27,759	7,340	7,870
Unemployed	5,849	5,123	2,262	1,881	2,206	2,036	1,382	1,211
Percent of labor force	6.8	5.9	4.8	4.0	7.5	6.7	14.8	12.6
Not in labor force	50,369	50,459	10,912	11,188	34,827	34,891	4,629	4,379
Black and other								
Total noninstitutional population	18,766	19,279	7,394	7,609	8,832	9,109	2,539	2,561
Total labor force	11,605	12,049	5,687	5,828	4,640	4,857	1,277	1,364
Percent of population	61.8	62.5	76.9	76.6	52.5	53.3	50.3	53.3
Civilian labor force	11,237	11,666	5,395	5,525	4,623	4,838	1,219	1,304
Employed	9,763	10,037	4,895	4,940	4,059	4,236	809	861
Agriculture	325	297	213	184	55	56	56	57
Nonagricultural industries	9,438	9,740	4,682	4,756	4,003	4,180	753	804
Unemployed	1,474	1,629	500	584	564	601	410	443
Percent of labor force	13.1	14.0	9.3	10.6	12.2	12.4	33.6	34.0
Not in labor force	7,161	7,230	1,707	1,781	4,193	4,252	1,262	1,197

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

[Numbers in thousands]

Employment status	August 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,197	12,726	12,471	21,409	10,861	10,549	3,787	1,865	1,922
Total labor force	17,909	10,006	7,903	15,696	8,727	6,969	2,214	1,279	934
Percent of population	71.1	78.6	63.4	73.3	80.4	66.1	58.4	68.6	48.6
Civilian labor force	17,157	9,302	7,855	15,082	8,154	6,929	2,075	1,149	926
Employed	14,789	8,064	6,725	13,378	7,274	6,103	1,411	790	621
Agriculture	807	660	147	731	601	130	77	59	17
Nonagricultural industries	13,982	7,404	6,578	12,647	6,673	5,974	1,335	731	604
Unemployed	2,368	1,238	1,130	1,705	879	826	663	359	305
Percent of labor force	13.8	13.3	14.4	11.3	10.8	11.9	32.0	31.2	32.9
Looking for full-time work	1,676	878	798	1,172	611	561	503	267	237
Looking for part-time work	693	360	332	533	268	265	160	92	68
Not in labor force	7,288	2,720	4,568	5,714	2,134	3,580	1,574	586	988
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	194	76	118	148	52	96	46	24	21
Employed	118	38	80	100	28	73	18	10	8
Agriculture	12	9	3	10	7	3	2	2	--
Nonagricultural industries	106	29	78	90	20	70	16	8	8
Unemployed	76	38	37	48	24	24	28	14	13
Percent of labor force	39.0	50.6	31.5	32.3	46.5	24.6	(1)	(1)	(1)
Looking for full-time work	26	11	14	15	6	9	11	6	6
Looking for part-time work	50	27	23	33	18	15	17	9	8
Not in labor force	805	357	447	570	265	305	235	92	143
MAJOR ACTIVITY: OTHER									
Civilian labor force	16,964	9,226	7,737	14,934	8,102	6,832	2,029	1,124	905
Employed	14,671	8,027	6,644	13,277	7,247	6,031	1,394	780	614
Agriculture	795	651	144	721	594	127	75	58	17
Nonagricultural industries	13,876	7,376	6,500	12,557	6,653	5,904	1,319	722	596
Unemployed	2,293	1,200	1,093	1,657	855	802	636	344	291
Percent of labor force	13.5	13.0	14.1	11.1	10.6	11.7	31.3	30.6	32.2
Looking for full-time work	1,650	866	783	1,158	605	552	492	261	231
Looking for part-time work	643	333	310	500	250	250	143	84	60
Not in labor force	6,483	2,363	4,120	5,144	1,869	3,275	1,339	494	845

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

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

[Numbers in thousands]

Race, sex, and age	August 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	87,120	77,527	4,051	5,541	6.4	11,953	10,737	1,216	10.2
16 to 21 years	13,443	9,968	1,800	1,676	12.5	3,021	3,021	693	18.7
16 to 19 years	7,879	5,403	1,413	1,063	13.5	3,027	2,436	591	19.5
16 to 17 years	2,777	1,663	743	371	13.4	1,962	1,532	430	21.9
18 to 19 years	5,103	3,740	671	692	13.6	1,065	904	161	15.2
20 years and over	79,240	72,124	2,638	4,478	5.7	8,926	8,301	625	7.0
20 to 24 years	13,766	11,553	774	1,439	10.5	1,366	1,177	189	13.8
25 years and over	65,474	60,572	1,864	3,039	4.6	7,560	7,123	437	9.6
25 to 54 years	53,973	49,844	1,483	2,646	4.9	5,014	4,689	325	6.5
55 years and over	11,501	10,728	381	393	3.4	2,547	2,435	112	4.4
Males, 16 years and over	55,138	50,327	1,977	2,834	5.1	3,747	3,260	486	13.0
16 to 21 years	7,636	5,820	938	878	11.5	1,666	1,306	360	21.6
16 to 19 years	4,498	3,202	756	540	12.0	1,408	1,094	314	22.3
20 years and over	50,640	47,125	1,222	2,294	4.5	2,338	2,166	172	7.4
20 to 24 years	7,846	6,745	345	756	9.6	511	433	78	15.3
25 years and over	42,794	40,380	876	1,537	3.6	1,827	1,734	93	5.1
25 to 54 years	35,103	33,101	691	1,311	3.7	688	636	52	7.6
55 years and over	7,691	7,280	185	226	2.9	839	1,098	41	4.9
Females, 16 years and over	31,981	27,200	2,074	2,707	8.5	8,206	7,477	729	8.9
16 to 21 years	5,807	4,148	861	798	13.7	2,048	1,715	332	16.2
16 to 19 years	3,381	2,201	658	523	15.5	1,618	1,342	276	17.1
20 years and over	28,601	25,000	1,416	2,185	7.6	6,588	6,135	453	6.9
20 to 24 years	5,920	4,808	429	683	11.5	855	744	111	12.9
25 years and over	22,681	20,192	1,084	1,502	6.6	5,733	5,391	342	6.0
25 to 54 years	18,871	16,744	792	1,335	7.1	4,326	4,053	273	6.3
55 years and over	3,810	3,448	196	166	4.4	915	1,338	70	7.7
White									
Males, 16 years and over	49,348	45,561	1,658	2,128	4.3	3,270	2,908	361	11.0
16 to 21 years	6,715	5,330	774	611	9.1	1,439	1,170	268	18.6
16 to 19 years	3,939	2,955	616	368	9.3	1,225	984	341	19.7
20 years and over	45,409	42,606	1,042	1,761	3.9	2,045	1,925	120	5.7
20 to 24 years	6,934	6,089	316	529	7.6	434	388	45	10.4
25 years and over	38,474	36,517	726	1,232	3.2	1,611	1,536	75	4.6
25 to 54 years	31,407	29,814	568	1,026	3.3	595	552	43	7.2
55 years and over	7,067	6,703	158	206	2.9	1,017	984	32	3.1
Females, 16 years and over	27,380	23,661	1,706	2,014	7.4	7,409	6,784	625	8.4
16 to 21 years	5,089	3,777	751	561	11.0	1,840	1,575	265	14.4
16 to 19 years	2,991	2,029	581	381	12.7	1,448	1,226	222	15.3
20 years and over	24,389	21,632	1,124	1,633	6.7	5,962	5,558	403	6.8
20 to 24 years	5,062	4,231	361	470	9.3	792	697	96	12.1
25 years and over	19,326	17,400	764	1,163	6.0	5,170	4,862	308	6.0
25 to 54 years	17,870	14,250	614	1,006	5.6	3,950	3,705	246	6.2
55 years and over	3,456	3,150	149	158	4.6	1,219	1,157	62	5.1
Black and other									
Males, 16 years and over	5,791	4,765	320	706	12.2	477	352	125	15.1
16 to 21 years	921	490	164	267	28.9	228	135	92	25.7
16 to 19 years	559	247	140	173	30.9	184	110	74	29.8
20 years and over	5,231	4,519	180	533	10.2	293	242	52	8.8
20 to 24 years	912	656	29	227	24.9	77	44	33	12.6
25 years and over	4,320	3,863	150	305	7.1	217	197	18	8.3
25 to 54 years	3,696	3,287	123	285	7.7	94	83	10	10.6
55 years and over	623	576	27	20	3.2	123	114	9	7.3
Females, 16 years and over	4,601	3,539	368	694	15.1	797	693	104	13.1
16 to 21 years	718	370	111	237	33.0	208	140	68	32.5
16 to 19 years	390	171	76	142	36.4	171	116	55	32.1
20 years and over	4,212	3,368	292	552	13.1	626	577	49	7.9
20 to 24 years	858	577	68	213	24.8	63	48	15	(2)
25 years and over	3,353	2,791	223	339	10.1	563	528	34	6.0
25 to 54 years	3,000	2,493	176	330	11.0	375	348	27	7.2
55 years and over	353	298	47	10	2.8	189	181	7	3.7

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total, 16 years and over	3,650	3,320	6.3	5.6	3,673	3,437	9.5	8.6
16 to 19 years	888	855	15.4	14.5	903	799	18.9	16.0
16 to 17 years	430	450	16.7	16.9	403	351	20.0	16.9
18 to 19 years	458	405	14.3	12.5	500	448	18.0	15.3
20 years and over	2,761	2,466	5.3	4.7	2,770	2,638	8.1	7.5
20 to 24 years	838	834	10.4	10.0	844	794	12.9	11.7
25 years and over	1,924	1,632	4.4	3.7	1,926	1,844	7.0	6.9
25 to 34 years	846	798	5.8	5.3	872	795	9.6	8.2
35 to 44 years	390	309	3.8	2.9	423	439	6.4	6.3
45 to 54 years	334	256	3.2	2.5	360	373	5.5	5.7
55 to 64 years	270	193	3.8	2.8	224	188	5.2	4.4
55 to 59 years	167	97	3.9	2.2	136	125	5.1	4.6
60 to 64 years	103	97	3.7	3.6	88	63	5.5	4.1
65 years and over	84	74	4.7	4.1	47	48	4.7	4.9
Household heads, 16 years and over	1,864	1,554	4.1	3.4	682	705	8.0	7.8
16 to 24 years	293	266	7.0	6.2	157	154	13.5	11.8
25 to 54 years	1,234	1,038	3.8	3.2	404	441	7.8	7.8
55 years and over	335	250	3.9	2.9	122	109	5.7	7.7

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total, 16 years and over	3,650	3,320	6.3	5.6	3,673	3,437	9.5	8.6
Married, spouse present	1,468	1,210	3.7	3.0	1,767	1,545	8.2	7.1
Widowed, divorced, or separated	336	285	8.7	6.9	605	592	8.8	8.1
Single (never married)	1,846	1,825	13.1	12.2	1,301	1,300	12.6	11.7
White, 16 years and over	2,945	2,490	5.7	4.7	2,904	2,639	8.6	7.6
Married, spouse present	1,256	985	3.5	2.7	1,321	1,321	7.9	6.8
Widowed, divorced, or separated	265	240	8.5	7.1	450	441	8.1	7.5
Single (never married)	1,423	1,264	11.6	9.8	933	876	10.6	9.3
Black and other, 16 years and over	705	831	11.7	13.3	769	798	14.8	14.8
Married, spouse present	212	225	6.0	6.5	245	224	10.6	9.6
Widowed, divorced, or separated	70	45	10.0	6.2	155	150	11.7	10.7
Single (never married)	422	561	23.3	27.2	369	424	23.8	25.7
Total, 20 to 64 years of age	2,677	2,392	5.3	4.7	2,723	2,590	8.2	7.6
Married, spouse present	1,372	1,137	3.6	3.0	1,636	1,419	7.9	6.8
Widowed, divorced, or separated	316	281	8.8	7.2	556	551	8.9	8.2
Single (never married)	988	972	11.6	10.6	532	620	8.9	10.5
White, 20 to 64 years of age	2,189	1,815	4.9	4.0	2,159	1,988	7.6	6.7
Married, spouse present	1,169	921	3.4	2.7	1,409	1,206	7.6	6.4
Widowed, divorced, or separated	250	236	8.5	7.4	408	402	8.1	7.5
Single (never married)	769	658	10.5	8.4	343	381	6.9	7.1
Black and other, 20 to 64 years of age	488	576	9.4	10.7	564	600	12.5	12.7
Married, spouse present	203	216	6.0	6.4	227	148	10.1	11.1
Widowed, divorced, or separated	66	45	10.2	6.5	148	213	11.9	9.3
Single (never married)	219	314	18.6	23.9	190	240	18.5	21.5

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total	7,323	6,757	7.6	6.8	6.3	5.6	9.5	8.6
White-collar workers	2,369	2,070	5.2	4.4	3.5	2.7	6.8	6.0
Professional and technical	549	533	4.1	3.9	2.9	2.5	5.6	5.8
Managers and administrators, except farm	310	232	3.2	2.3	2.8	1.7	4.8	4.5
Sales workers	329	309	5.6	5.0	3.7	3.4	7.9	7.1
Clerical workers	1,181	996	7.1	5.9	6.1	4.8	7.4	6.2
Blue-collar workers	2,699	2,386	8.2	7.0	7.4	6.3	12.1	10.2
Craft and kindred workers	690	566	5.2	4.4	5.5	4.4	7.8	5.0
Carpenters and other construction craft	318	258	7.9	6.2	8.0	6.2	(1)	(1)
All other	372	308	4.5	3.5	4.2	3.4	7.9	4.7
Operatives, except transport	1,133	1,011	9.8	8.7	8.0	7.1	12.7	11.0
Transport equipment operatives	228	228	6.5	6.2	6.5	5.9	6.3	10.1
Nonfarm laborers	648	580	11.7	10.1	11.6	10.1	13.8	9.9
Construction laborers	207	144	19.3	12.4	19.7	12.4	(1)	(1)
All other	441	436	9.9	9.6	9.4	9.5	14.4	9.6
Service workers	1,140	1,150	8.4	8.3	7.6	7.6	8.9	8.7
Private household	62	47	5.3	3.9	(1)	(1)	5.1	3.9
All other	1,078	1,103	8.7	8.7	7.5	7.6	9.5	9.4
Farm workers	114	108	3.3	3.3	2.3	3.1	7.5	4.4
No previous work experience	1,001	1,043	--	--	--	--	--	--
16 to 19 years	776	783	--	--	--	--	--	--
20 to 24 years	152	188	--	--	--	--	--	--
25 years and over	73	72	--	--	--	--	--	--

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total	100.0	100.0	7.6	6.8	6.3	5.6	9.5	8.6
Nonagricultural private wage and salary workers	71.2	68.7	7.5	6.5	6.5	5.6	8.9	7.7
Mining	.4	.4	3.7	3.6	3.8	2.7	(1)	(1)
Construction	7.9	5.9	12.2	8.3	12.4	8.6	9.2	3.3
Manufacturing	21.7	20.5	7.4	6.3	5.5	5.0	11.5	9.3
Durable goods	12.0	11.0	6.9	5.8	5.9	4.8	10.1	8.7
Lumber and wood products	.8	.7	8.8	6.9	8.5	6.4	10.8	10.4
Furniture and fixtures	.7	.5	10.2	6.8	12.6	7.4	3.5	5.1
Stone, clay, and glass products	.4	.7	4.4	6.5	3.8	6.7	6.4	6.0
Primary metal industries	1.1	.9	5.9	4.4	5.1	4.1	12.4	7.0
Fabricated metal products	1.5	1.5	6.8	6.9	5.7	6.4	10.5	8.7
Machinery, except electrical equipment	1.9	1.3	5.8	3.8	5.2	3.0	8.9	7.0
Electrical equipment	2.3	2.0	7.5	6.3	4.8	3.6	11.4	9.7
Transportation equipment	2.0	1.9	6.9	5.8	6.1	5.4	11.4	7.7
Automobiles	.9	1.1	5.5	5.7	5.1	5.4	8.0	7.2
Other transportation equipment	1.0	.8	8.7	5.9	7.5	5.5	14.0	8.0
Instruments and related products	.4	.5	5.7	6.1	4.0	3.8	7.9	9.0
Other durable goods industries	.9	.9	9.4	9.0	8.4	6.1	11.2	10.9
Nondurable goods	9.6	9.5	8.1	7.1	4.8	5.3	12.8	9.8
Food and kindred products	2.2	2.9	8.3	9.3	5.1	7.1	15.8	14.2
Textile mill products	1.0	.8	8.3	6.5	6.1	5.7	11.0	7.3
Apparel and other textile products	2.5	1.7	12.9	8.8	7.6	6.0	14.2	9.5
Paper and allied products	.6	.7	6.1	6.5	5.3	5.7	8.8	9.3
Printing and publishing	1.1	1.1	6.3	5.7	3.5	5.2	10.9	7.6
Chemicals and allied products	.9	.9	5.6	5.2	3.3	4.2	12.5	8.5
Rubber and plastics products	.8	.6	9.4	5.3	6.9	2.9	7.7	9.7
Other nondurable goods industries	.5	.6	5.7	6.5	4.1	3.3	8.1	11.5
Transportation and public utilities	2.9	3.4	4.4	4.5	4.1	4.0	5.3	5.9
Railroads and railway express	.3	.2	3.9	1.8	3.4	1.6	(1)	(1)
Other transportation	2.1	2.4	6.5	6.6	6.3	6.0	7.7	9.5
Communication and other public utilities	.5	.8	2.0	2.7	1.2	2.1	3.4	3.7
Wholesale and retail trade	20.8	21.2	8.4	7.8	6.9	6.4	10.4	9.6
Finance, insurance, and real estate	2.7	2.5	4.4	3.4	3.8	2.2	4.9	4.3
Service industries	14.9	14.7	7.1	6.2	6.6	6.1	7.4	6.2
Professional services	6.6	6.0	5.8	4.7	3.9	3.5	6.7	5.3
All other service industries	8.2	8.7	8.6	8.0	8.7	8.2	8.5	7.8
Agricultural wage and salary workers	2.1	2.0	8.6	7.6	6.6	6.9	15.6	10.7
All other classes of workers	13.1	13.9	4.0	3.9	3.1	2.5	5.3	5.8
No previous work experience	13.7	15.4	--	--	--	--	--	--

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	7,323	6,757	2,761	2,466	2,770	2,638	1,791	1,654	5,849	5,128	1,474	1,629
Job losers	3,308	2,871	1,875	1,491	1,066	1,079	367	301	2,737	2,282	571	1,588
On layoff	937	801	477	396	366	337	94	68	804	700	133	101
Other job losers	2,371	2,070	1,398	1,096	700	741	273	233	1,933	1,582	438	488
Job leavers	1,080	989	353	386	535	440	192	163	919	826	161	163
Reentrants	1,939	1,855	459	493	1,021	955	459	407	1,475	1,321	464	535
New entrants	997	1,042	74	95	148	163	774	784	718	699	279	343
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	45.2	42.5	67.9	60.4	38.5	40.9	20.4	18.2	46.7	44.5	38.7	36.1
On layoff	12.8	11.9	17.3	16.0	13.2	12.8	5.2	4.1	13.7	13.7	9.0	6.2
Other job losers	32.4	30.6	50.6	44.4	25.3	28.1	15.2	14.1	33.0	30.8	29.7	29.9
Job leavers	14.7	14.6	12.8	15.6	19.3	16.7	10.7	9.9	15.7	16.1	10.9	10.0
Reentrants	26.5	27.5	16.6	20.0	36.9	36.2	25.6	24.6	25.2	25.8	31.5	32.8
New entrants	13.6	15.4	2.7	3.9	5.3	6.2	43.2	47.4	12.3	13.6	18.9	21.1
UNEMPLOYMENT RATE												
Total unemployment rate	7.6	6.8	5.3	4.7	8.1	7.5	17.0	15.2	6.8	5.9	13.1	14.0
Job loser rate ¹	3.4	2.9	3.6	2.8	3.1	3.1	3.5	2.7	3.2	2.6	5.1	5.1
Job leaver rate ¹	1.1	1.0	.7	.7	1.6	1.3	1.8	1.5	1.1	.9	1.4	1.4
Reentrant rate ¹	2.0	1.9	.9	.9	3.0	2.7	4.3	3.7	1.7	1.5	4.1	4.6
New entrant rate ¹	1.0	1.1	.1	.2	.4	.5	7.3	7.2	.8	.8	2.5	2.9

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	August 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	6,757	100.0	40.6	35.9	23.5	10.4	13.1
Job losers	2,871	100.0	35.3	31.9	32.8	13.5	19.3
On layoff	801	100.0	48.4	31.5	20.0	10.1	9.9
Other job losers	2,070	100.0	30.1	32.1	37.7	14.8	22.9
Job leavers	989	100.0	49.1	31.1	19.7	10.5	9.2
Reentrants	1,855	100.0	46.3	37.5	16.3	7.2	9.1
New entrants	1,042	100.0	36.9	48.8	14.5	7.8	6.7
Males, 20 years and over	2,466	100.0	36.0	31.6	32.4	12.9	19.5
Job losers	1,491	100.0	34.3	29.2	36.4	13.8	22.6
On layoff	396	100.0	52.8	25.8	21.2	9.8	11.4
Other job losers	1,096	100.0	27.6	30.6	41.8	15.2	26.6
Job leavers	386	100.0	44.3	33.4	22.1	10.4	11.7
Reentrants	493	100.0	36.5	34.7	29.0	12.0	17.0
New entrants	95	100.0	27.4	44.2	28.4	12.6	15.8
Females, 20 years and over	2,638	100.0	41.2	34.6	24.2	11.2	13.0
Job losers	1,079	100.0	30.3	36.6	33.1	14.6	18.5
On layoff	337	100.0	40.9	38.3	20.8	11.3	9.5
Other job losers	741	100.0	25.4	36.0	38.7	16.2	22.5
Job leavers	440	100.0	45.5	31.1	23.4	13.2	10.2
Reentrants	955	100.0	51.7	34.3	13.9	6.7	7.2
New entrants	163	100.0	39.9	33.1	27.6	9.8	17.8
Both sexes, 16 to 19 years	1,654	100.0	46.4	44.3	9.3	5.7	3.6
Job losers	301	100.0	58.1	28.6	12.9	7.6	5.3
On layoff	68	(1)	(1)	(1)	(1)	(1)	(1)
Other job losers	233	100.0	57.9	27.0	15.0	8.6	6.4
Job leavers	163	100.0	69.9	24.5	4.9	3.7	1.2
Reentrants	407	100.0	45.2	48.2	6.6	2.9	3.7
New entrants	784	100.0	37.4	52.4	10.1	6.8	3.3

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	August 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,757	5,770	26.7	6.4	73.3	30.8	13.6	4.8	1.56
16 to 19 years	1,654	1,551	19.8	3.4	80.7	24.9	13.5	3.0	1.45
20 to 24 years	1,628	1,431	31.2	5.4	73.6	30.7	13.1	3.3	1.57
25 to 34 years	1,593	1,326	31.0	9.8	73.2	36.7	12.7	4.9	1.68
35 to 44 years	748	576	28.8	8.0	68.6	32.6	14.2	6.3	1.59
45 to 54 years	629	482	26.6	7.5	62.9	33.8	11.8	10.0	1.53
55 to 64 years	381	301	21.3	7.6	64.5	29.6	18.9	8.3	1.50
65 years and over	123	102	13.7	5.9	61.8	22.5	23.5	7.8	1.35
Males, 16 years and over	3,320	2,806	30.1	6.6	72.8	29.3	17.1	6.2	1.62
16 to 19 years	855	789	21.4	3.2	80.4	24.5	16.0	3.2	1.49
20 to 24 years	834	717	34.4	5.6	73.1	30.3	16.3	4.2	1.64
25 to 34 years	798	645	40.0	11.3	69.9	37.4	17.4	5.9	1.82
35 to 44 years	309	233	35.2	11.2	68.2	30.0	20.2	8.6	1.73
45 to 54 years	256	207	23.7	7.2	67.6	26.1	14.5	15.5	1.55
55 to 64 years	193	148	18.9	4.7	62.2	23.6	21.6	15.5	1.47
65 years and over	74	66	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,437	2,964	23.4	6.2	73.8	32.2	10.3	3.4	1.49
16 to 19 years	799	761	18.3	3.7	81.1	25.4	11.0	2.9	1.42
20 to 24 years	794	714	28.0	5.2	74.1	31.2	9.7	2.4	1.51
25 to 34 years	795	681	22.5	8.4	76.2	36.1	8.4	4.0	1.56
35 to 44 years	439	343	24.5	5.8	68.8	34.4	10.2	4.7	1.48
45 to 54 years	373	275	28.4	7.6	59.3	39.6	10.2	5.8	1.51
55 to 64 years	188	153	23.5	10.5	66.0	35.3	16.3	1.3	1.53
65 years and over	48	36	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	5,128	4,256	24.7	6.3	75.0	32.6	13.4	4.8	1.57
Males	2,490	2,055	27.8	6.3	74.9	30.9	16.9	6.5	1.63
Females	2,639	2,201	21.7	6.4	75.1	34.1	10.1	3.2	1.51
Black and other	1,629	1,514	32.2	6.7	68.5	25.6	14.3	4.8	1.52
Males	831	751	36.4	7.6	67.0	24.6	17.7	5.5	1.59
Females	798	763	28.2	5.8	70.0	26.6	11.0	4.2	1.46

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

because many jobseekers use more than one method.

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

Sex and reason	August 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,757	5,770	26.7	6.4	73.3	30.8	13.6	4.8	1.56
Job losers	2,871	2,057	34.2	7.9	68.4	33.2	16.2	6.0	1.66
Job leavers	989	960	24.6	7.6	76.7	34.9	10.9	3.0	1.58
Reentrants	1,855	1,729	24.1	5.7	72.3	30.4	13.0	4.9	1.50
New entrants	1,042	1,025	17.8	3.8	81.4	22.6	12.1	3.7	1.41
Males, 16 years and over	3,320	2,806	30.1	6.6	72.8	29.3	17.1	6.2	1.62
Job losers	1,682	1,231	36.3	8.4	68.9	32.9	19.1	7.4	1.73
Job leavers	461	451	27.1	7.8	74.9	31.9	12.0	4.2	1.58
Reentrants	708	660	28.5	5.2	73.3	27.3	19.1	6.1	1.60
New entrants	469	464	19.0	2.6	80.2	19.8	14.4	5.2	1.41
Females, 16 years and over	3,437	2,964	23.4	6.2	73.8	32.2	10.3	3.4	1.49
Job losers	1,189	825	31.2	6.9	67.9	33.6	12.0	4.0	1.56
Job leavers	527	509	22.4	7.3	78.2	37.5	10.0	2.2	1.58
Reentrants	1,147	1,068	21.3	5.8	71.8	32.4	9.2	4.2	1.45
New entrants	573	562	16.7	4.8	82.2	24.9	10.1	2.5	1.41

NOTE: See note, table A-15.

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A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Household heads			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total	7,323	6,757	100.0	100.0	2,546	2,259	100.0	100.0
Less than 5 weeks	2,738	2,741	37.4	40.6	843	801	33.1	35.5
5 to 14 weeks	2,526	2,427	34.5	35.9	752	726	29.5	32.2
5 to 10 weeks	1,875	1,791	25.6	26.5	526	534	20.7	23.6
11 to 14 weeks	651	636	8.9	9.4	226	192	8.9	8.5
15 weeks and over	2,058	1,589	28.1	23.5	951	731	37.4	32.4
15 to 28 weeks	785	706	10.7	10.4	363	299	14.3	13.2
27 weeks and over	1,274	883	17.4	13.1	588	432	23.1	19.1
27 to 51 weeks	665	441	9.1	6.5	320	207	12.6	9.2
52 weeks and over	608	442	8.3	6.5	268	225	10.5	10.0
Average (mean) duration	15.2	13.4	-	-	18.6	17.3	-	-

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		Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
	August 1977						Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total, 16 years and over	6,757	2,741	2,427	706	883	13.4	37.4	40.6	28.1	23.5
16 to 21 years	2,368	1,041	1,024	174	129	9.0	42.6	43.9	15.7	12.8
16 to 19 years	1,654	767	733	95	60	7.7	43.7	46.4	11.7	9.3
20 to 24 years	1,628	660	585	193	189	12.5	39.7	40.5	27.1	23.5
25 to 34 years	1,593	635	537	185	236	14.7	35.4	39.9	32.6	26.4
35 to 44 years	748	304	212	87	145	16.4	35.3	40.6	30.9	31.1
45 to 54 years	629	205	211	83	129	18.0	29.1	32.6	41.9	33.8
55 to 64 years	381	135	98	53	95	21.3	30.7	35.3	47.3	38.9
65 years and over	123	35	50	11	28	16.8	30.2	28.3	44.3	31.2
Males, 16 years and over	3,320	1,276	1,162	366	517	14.9	33.4	38.4	32.4	26.6
16 to 21 years	1,238	549	520	96	73	9.2	39.5	44.4	17.7	13.6
16 to 19 years	855	388	383	49	35	8.2	42.3	45.4	11.2	9.9
20 to 24 years	834	343	277	119	96	13.1	34.5	41.1	33.8	25.8
25 to 34 years	798	283	256	94	165	17.3	31.8	35.5	37.6	32.4
35 to 44 years	309	109	86	36	79	19.9	29.6	35.1	37.4	37.1
45 to 54 years	256	84	71	36	65	21.5	20.8	33.0	51.2	39.2
55 to 64 years	193	52	56	25	60	25.5	29.4	27.0	48.9	44.1
65 years and over	74	17	34	7	17	16.5	25.5	(1)	41.6	(1)
Females, 16 years and over	3,437	1,464	1,265	341	367	11.9	41.3	42.6	23.8	20.6
16 to 21 years	1,130	491	505	78	57	8.7	45.7	43.5	13.8	11.9
16 to 19 years	799	379	351	45	24	7.3	45.1	47.4	12.2	8.7
20 to 24 years	794	317	308	75	93	12.0	44.8	40.0	20.4	21.2
25 to 34 years	795	352	281	90	72	12.0	38.9	44.3	27.7	20.4
35 to 44 years	439	195	126	51	67	14.0	40.6	44.4	25.0	26.8
45 to 54 years	373	121	140	48	64	15.6	36.7	32.4	33.3	30.0
55 to 64 years	188	82	42	28	35	16.9	32.2	43.8	45.2	33.6
65 years and over	48	17	16	4	11	17.4	(1)	(1)	(1)	(1)
White	5,128	2,181	1,743	541	664	13.2	38.8	42.5	27.5	23.5
Males	2,490	1,011	815	265	399	15.1	34.8	40.6	31.6	26.7
Females	2,639	1,170	928	276	265	11.4	42.8	44.3	23.4	20.5
Black and other	1,629	560	684	166	219	13.9	31.9	34.4	30.4	23.6
Males	831	265	347	101	118	14.3	27.6	31.9	35.8	26.3
Females	798	295	337	65	102	13.4	35.8	36.9	25.5	20.9
Males:										
Married, spouse present	1,210	421	367	177	245	17.9	31.2	34.8	39.2	34.9
Widowed, divorced, or separated	285	102	93	29	60	17.8	26.9	35.8	45.8	31.4
Single (never married)	1,825	753	702	159	211	12.5	36.4	41.3	24.6	20.3
Females:										
Married, spouse present	1,545	736	497	150	162	11.1	41.6	47.6	24.9	20.2
Widowed, divorced, or separated	592	233	182	90	87	15.2	39.3	39.3	34.5	29.9
Single (never married)	1,300	496	586	100	117	11.4	41.9	38.2	17.4	16.7

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		Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
	August 1977									
OCCUPATION										
White collar workers	2,070	795	718	252	305	14.3	34.8	38.4	30.4	26.9
Professional and managerial	765	267	280	93	124	15.8	31.8	34.9	31.3	28.4
Sales workers	309	126	89	36	58	15.6	40.5	40.9	26.2	30.4
Clerical workers	996	401	349	123	122	12.7	35.4	40.3	30.8	24.6
Blue collar workers	2,386	986	746	296	359	14.7	36.6	41.3	34.0	27.4
Craft and kindred workers	566	231	166	88	82	14.6	35.1	40.7	37.0	30.0
Operatives, except transport	1,011	450	282	123	156	14.5	39.3	44.5	34.1	27.6
Transport equipment operatives	228	77	84	29	38	16.0	21.8	33.9	39.6	29.3
Nonfarm laborers	580	228	214	55	83	14.6	36.7	39.3	28.9	23.9
Service workers	1,150	521	417	71	141	11.8	40.9	45.3	24.5	18.5
INDUSTRY¹										
Agriculture	132	65	53	7	7	8.2	49.7	49.3	10.8	10.8
Construction	531	182	125	44	80	16.8	38.5	42.3	35.5	28.7
Manufacturing	1,390	555	411	209	214	15.3	35.4	40.0	37.7	30.5
Durable goods	752	293	204	122	132	16.5	30.4	39.0	40.7	33.9
Nondurable goods	638	262	207	87	82	13.9	41.6	41.1	33.9	26.6
Transportation and public utilities	269	107	100	21	41	14.1	26.8	39.8	37.3	23.2
Wholesale and retail trade	1,437	605	500	144	188	12.8	37.9	42.1	28.2	23.1
Finance and service industries	1,691	670	577	160	234	13.4	37.6	39.6	24.3	23.3
Public administration	220	84	74	28	35	15.2	27.8	37.9	40.7	28.4
No previous work experience	1,043	385	507	81	70	10.7	40.1	36.9	13.3	14.5

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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
	All industries	89,367	92,315	54,196	55,565	35,171	36,751
16 to 19 years	8,772	9,252	4,889	5,052	3,883	4,200
16 to 17 years	3,763	3,938	2,153	2,218	1,609	1,720
18 to 19 years	5,009	5,314	2,736	2,834	2,273	2,480
20 to 24 years	12,895	13,504	7,193	7,522	5,702	5,981
25 to 54 years	54,238	56,016	33,632	34,428	20,605	21,588
25 to 34 years	21,864	23,169	13,655	14,237	8,209	8,932
35 to 44 years	16,174	16,820	9,998	10,312	6,176	6,507
45 to 54 years	16,200	16,027	9,979	9,878	6,220	6,149
55 to 64 years	10,806	10,861	6,760	6,810	4,045	4,052
55 to 59 years	6,639	6,829	4,112	4,259	2,527	2,570
60 to 64 years	4,166	4,032	2,648	2,550	1,518	1,482
65 years and over	2,658	2,682	1,722	1,753	936	929
Nonagricultural industries	85,525	88,633	51,118	52,607	34,406	36,026
16 to 19 years	8,093	8,673	4,342	4,586	3,751	4,087
16 to 17 years	3,365	3,622	1,825	1,968	1,539	1,654
18 to 19 years	4,728	5,051	2,517	2,618	2,211	2,433
20 to 24 years	12,444	13,027	6,829	7,112	5,615	5,915
25 to 54 years	52,414	54,287	32,224	33,111	20,191	21,177
25 to 34 years	21,251	22,537	13,164	13,759	8,087	8,778
35 to 44 years	15,663	16,327	9,612	9,942	6,052	6,385
45 to 54 years	15,500	15,424	9,448	9,410	6,052	6,014
55 to 64 years	10,245	10,323	6,291	6,368	3,954	3,955
55 to 59 years	6,335	6,500	3,864	3,993	2,471	2,506
60 to 64 years	3,910	3,823	2,427	2,374	1,483	1,448
65 years and over	2,328	2,232	1,432	1,431	897	892
Agriculture	3,842	3,682	3,078	2,957	765	725
16 to 19 years	679	579	547	466	132	113
16 to 17 years	398	316	328	250	70	66
18 to 19 years	281	263	219	216	62	48
20 to 24 years	451	477	363	411	88	66
25 to 54 years	1,823	1,729	1,408	1,317	414	412
25 to 34 years	613	633	491	479	122	154
35 to 44 years	510	493	386	370	124	122
45 to 54 years	700	603	531	468	168	135
55 to 64 years	560	539	469	442	92	97
55 to 59 years	304	329	248	266	56	63
60 to 64 years	256	209	221	176	36	33
65 years and over	329	359	290	322	39	37

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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	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
TOTAL	89,367	92,315	49,307	50,513	31,288	32,551	4,889	5,052	3,883	4,200
White-collar workers	43,441	44,828	20,840	21,333	20,065	20,778	747	769	1,788	1,947
Professional and technical	12,981	13,226	7,454	7,618	5,272	5,387	133	105	122	116
Health workers	2,335	2,527	767	903	1,552	1,604	3	5	14	15
Teachers, except college	2,563	2,429	662	650	1,867	1,763	7	5	27	10
Other professional and technical	8,083	8,270	6,025	6,065	1,853	2,020	123	95	81	91
Managers and administrators, except farm	9,421	9,804	7,359	7,559	1,963	2,149	80	58	18	39
Salaried workers	7,585	7,822	5,927	6,019	1,566	1,710	74	55	18	37
Self-employed workers in retail trade	952	1,008	696	731	256	273	1	2	--	2
Self-employed workers, except retail trade	884	975	736	808	141	165	5	1	1	--
Sales workers	5,593	5,814	2,926	2,995	2,006	2,082	261	311	400	426
Retail trade	3,087	3,152	934	998	1,578	1,520	216	249	359	395
Other industries	2,506	2,662	1,992	2,007	428	563	45	62	41	31
Clerical workers	15,446	15,984	3,101	3,161	10,824	11,161	273	295	1,249	1,367
Stenographers, typists, and secretaries	4,446	4,433	77	64	3,990	3,943	13	11	366	415
Other clerical workers	11,000	11,551	3,024	3,097	6,834	7,218	260	284	883	952
Blue-collar workers	30,180	31,566	22,409	23,224	4,460	5,009	2,625	2,793	486	541
Craft and kindred workers	11,656	12,325	10,610	11,129	492	575	503	568	51	53
Carpenters	1,106	1,275	1,026	1,155	9	12	68	103	2	5
Construction craft, except carpenters	2,582	2,618	2,396	2,390	25	32	152	186	9	10
Mechanics and repairers	3,078	3,266	2,869	3,045	30	47	173	173	7	--
Metal craft	1,139	1,219	1,069	1,145	40	34	28	38	2	2
Blue-collar worker supervisors, not elsewhere classified	1,459	1,556	1,353	1,405	98	146	7	3	1	2
All other	2,292	2,392	1,897	1,990	290	303	76	64	29	35
Operatives, except transport	10,372	10,611	5,680	5,619	3,723	3,888	674	748	294	355
Durable goods manufacturing	4,672	4,674	2,946	2,891	1,408	1,439	225	232	92	113
Nondurable goods manufacturing	3,228	3,423	1,240	1,276	1,733	1,838	115	129	141	179
Other industries	2,472	2,514	1,494	1,453	582	611	334	386	61	64
Transport equipment operatives	3,286	3,483	2,898	3,108	158	181	209	171	21	22
Drivers, motor vehicles	2,728	2,874	2,396	2,559	140	161	174	134	18	20
All other	558	609	502	550	18	20	35	37	3	3
Nonfarm laborers	4,866	5,147	3,211	3,366	287	364	1,239	1,306	120	110
Construction	865	1,018	649	760	14	11	195	242	6	6
Manufacturing	1,142	1,166	879	843	109	138	151	177	4	8
Other industries	2,859	2,963	1,693	1,764	163	215	893	887	110	97
Service workers	12,452	12,779	3,857	3,813	6,034	6,264	1,048	1,089	1,512	1,612
Private household workers	1,104	1,166	11	15	813	844	12	21	267	287
Service workers, except private household	11,348	11,613	3,846	3,798	5,221	5,420	1,036	1,069	1,245	1,326
Food service workers	4,146	4,223	781	738	2,005	2,012	565	597	794	876
Protective service workers	1,302	1,333	1,215	1,209	53	97	22	18	12	8
All other	5,900	6,057	1,850	1,851	3,163	3,311	449	454	439	442
Farm workers	3,295	3,143	2,200	2,143	530	500	469	401	96	99
Farmers and farm managers	1,630	1,559	1,503	1,426	95	114	24	16	8	3
Farm laborers and supervisors	1,665	1,583	697	716	435	386	445	385	88	96
Paid workers	1,230	1,188	655	683	173	137	342	300	60	68
Unpaid family workers	435	396	42	34	262	249	103	85	28	28

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
TOTAL						
Total employed (thousands)	89,367	92,315	54,196	55,565	35,171	36,751
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	48.6	48.6	39.8	39.8	62.1	61.8
Professional and technical	14.5	14.3	14.0	13.9	15.3	15.0
Managers and administrators, except farm	10.5	10.6	13.7	13.7	5.6	6.0
Sales workers	6.3	6.3	5.9	5.9	6.8	6.8
Clerical workers	17.3	17.3	6.2	6.2	34.3	34.0
Blue-collar workers	33.8	34.2	46.2	46.8	14.6	15.1
Craft and kindred workers	13.0	13.4	20.5	21.1	1.5	1.7
Operatives, except transport	11.6	11.5	11.7	11.5	11.4	11.5
Transport equipment operatives	3.7	3.8	5.7	5.9	.5	.6
Nonfarm laborers	5.4	5.6	8.2	8.4	1.2	1.3
Service workers	13.9	13.8	9.1	8.8	21.5	21.4
Private household workers	1.2	1.3	(1)	.1	3.1	3.1
Other service workers	12.7	12.6	9.0	8.8	18.4	18.4
Farm workers	3.7	3.4	4.9	4.6	1.8	1.6
Farmers and farm managers	1.8	1.7	2.8	2.6	.3	.3
Farm laborers and supervisors	1.9	1.7	2.1	2.0	1.5	1.3
White						
Total employed (thousands)	79,604	82,278	48,854	50,128	30,751	32,151
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.4	50.3	41.5	41.3	64.5	64.2
Professional and technical	14.9	14.8	14.5	14.4	15.6	15.2
Managers and administrators, except farm	11.3	11.4	14.6	14.5	6.0	6.5
Sales workers	6.7	6.7	6.3	6.3	7.4	7.4
Clerical workers	17.5	17.5	6.2	6.1	35.5	35.2
Blue-collar workers	33.2	33.8	45.2	46.1	14.1	14.6
Craft and kindred workers	13.6	13.9	21.1	21.7	1.6	1.7
Operatives, except transport	11.1	11.1	11.2	11.1	10.9	11.0
Transport equipment operatives	3.5	3.6	5.4	5.6	.5	.6
Nonfarm laborers	5.0	5.2	7.5	7.7	1.1	1.3
Service workers	12.6	12.5	8.2	7.9	19.5	19.5
Private household workers	.9	.9	(1)	.1	2.2	2.3
Other service workers	11.7	11.5	8.2	7.9	17.3	17.2
Farm workers	3.8	3.5	5.1	4.7	1.8	1.7
Farmers and farm managers	2.0	1.9	3.0	2.8	.3	.4
Farm laborers and supervisors	1.8	1.7	2.0	1.9	1.5	1.3
Black and other						
Total employed (thousands)	9,763	10,037	5,343	5,437	4,420	4,600
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	34.0	34.5	24.5	25.6	45.4	45.0
Professional and technical	11.3	10.9	9.6	8.8	13.5	13.3
Managers and administrators, except farm	4.6	4.6	5.7	6.5	3.1	2.4
Sales workers	2.5	2.9	2.3	2.9	2.8	2.9
Clerical workers	15.5	16.1	6.9	7.4	26.0	26.5
Blue-collar workers	38.3	37.7	55.2	53.9	18.0	18.5
Craft and kindred workers	8.6	8.9	14.9	15.0	1.0	1.7
Operatives, except transport	15.9	15.1	16.4	15.1	15.3	15.1
Transport equipment operatives	4.8	4.9	8.6	8.9	.3	.3
Nonfarm laborers	9.0	8.8	15.3	14.9	1.3	1.6
Service workers	24.9	25.2	16.6	17.0	34.9	35.0
Private household workers	4.2	4.1	.1	.1	9.2	8.7
Other service workers	20.7	21.2	16.5	16.8	25.7	26.3
Farm workers	2.8	2.5	3.7	3.4	1.7	1.5
Farmers and farm managers	.5	.3	1.0	.6	--	(1)
Farm laborers and supervisors	2.2	2.2	2.7	2.8	1.7	1.4

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	August 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	81,930	1,426	14,672	65,832	6,213	490	3,682	1,675	413
16 to 19 years	8,542	444	859	7,240	93	38	427	36	116
16 to 17 years	3,563	332	376	2,855	39	20	222	18	75
18 to 19 years	4,979	111	483	4,385	54	18	205	18	41
20 to 24 years	12,695	95	1,544	11,056	306	26	322	250	61
25 to 34 years	21,051	149	4,113	16,790	1,389	97	331	1,389	97
35 to 44 years	14,753	181	2,955	11,617	1,436	138	148	281	64
45 to 54 years	13,876	176	3,023	10,676	1,434	115	181	356	66
55 to 64 years	9,215	241	1,918	7,056	1,051	56	112	375	52
55 to 59 years	5,821	143	1,279	4,399	641	38	65	231	34
60 to 64 years	3,395	98	639	2,657	410	18	47	144	18
65 years and over	1,799	142	260	1,397	504	20	74	268	18
Males, 16 years and over	47,969	227	7,656	40,086	4,579	49	1,300	1,535	123
16 to 19 years	4,508	138	447	3,923	54	24	348	29	89
16 to 17 years	1,931	104	210	1,617	21	15	177	16	57
18 to 19 years	2,577	34	236	2,306	32	9	171	14	32
20 to 24 years	6,891	13	666	6,212	207	14	284	106	20
25 to 34 years	12,723	12	2,150	10,561	1,029	7	252	221	6
35 to 44 years	8,872	16	1,519	7,337	1,069	1	118	251	1
45 to 54 years	8,349	10	1,650	6,689	1,060	1	139	327	2
55 to 64 years	5,573	18	1,063	4,492	790	5	91	350	--
55 to 59 years	3,503	11	691	2,802	486	4	51	216	--
60 to 64 years	2,070	7	372	1,691	304	--	41	135	1
65 years and over	1,054	20	162	872	371	6	68	250	4
Females, 16 years and over	33,961	1,199	7,016	25,746	1,634	431	295	140	290
16 to 19 years	4,034	305	412	3,317	39	14	79	7	27
16 to 17 years	1,632	228	165	1,239	18	5	45	2	18
18 to 19 years	2,402	77	247	2,078	22	9	34	4	9
20 to 24 years	5,804	81	878	4,844	99	12	66	47	2
25 to 34 years	8,328	137	1,962	6,228	360	90	71	29	55
35 to 44 years	5,881	165	1,436	4,280	366	137	30	30	63
45 to 54 years	5,527	166	1,373	3,988	374	113	42	30	63
55 to 64 years	3,642	223	856	2,564	261	51	21	25	52
55 to 59 years	2,318	132	589	1,597	155	34	14	15	35
60 to 64 years	1,325	91	267	967	106	18	6	9	18
65 years and over	745	122	98	525	133	14	6	18	13

A-24. Employed persons by industry and occupation

[in thousands]

Industry	August 1977											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, 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	3,682	70	43	7	61	51	15	29	248	--	17	3,143
Mining	815	112	63	2	77	220	277	32	18	--	14	--
Construction	6,059	172	633	23	358	3,333	279	314	1,018	--	30	--
Manufacturing	20,914	2,188	1,326	472	2,353	4,051	8,097	808	1,166	--	454	--
Durable goods	12,429	1,401	779	160	1,352	2,663	4,674	409	730	--	261	--
Non-durable goods	8,486	787	548	312	1,001	1,388	3,423	399	436	--	193	--
Transportation and public utilities	5,917	467	535	30	1,352	1,293	191	1,371	496	--	183	--
Wholesale and retail trade	19,111	330	3,801	3,961	3,164	1,456	958	747	1,176	--	3,518	--
Wholesale trade	3,650	113	801	809	760	293	128	422	286	--	37	--
Retail trade	15,460	218	2,999	3,152	2,403	1,163	830	325	890	--	3,481	--
Finance, insurance, and real estate	5,207	245	1,006	1,135	2,359	130	9	13	69	--	240	--
Services	25,500	8,712	1,786	178	4,396	1,490	744	230	729	1,166	6,069	--
Private households	1,457	15	--	2	13	13	--	12	199	1,166	47	--
Other service industries	24,043	8,697	1,786	176	4,383	1,487	744	218	530	--	6,022	--
Public administration	5,111	930	611	7	1,864	303	42	39	229	--	1,087	--

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			
					Paid absences ²		Unpaid absences ²	
	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977	Aug. 1976	Aug. 1977
Total	11,347	11,033	11,174	10,863	6,245	6,107	4,216	4,053
Vacation	8,924	8,689	8,831	8,588	5,596	5,463	2,814	2,716
Illness	1,310	1,302	1,274	1,277	456	502	707	673
Bad weather	40	50	24	37	--	--	--	--
Industrial dispute	168	213	168	213	--	--	--	--
All other reasons	906	779	877	748	193	142	694	664
Males	5,622	5,526	5,488	5,376	3,649	3,538	1,466	1,444
Vacation	4,302	4,168	4,223	4,083	3,249	3,132	775	723
Illness	737	791	708	771	287	338	360	372
All other reasons ³	583	567	557	521	113	67	331	349
Females	5,725	5,507	5,686	5,487	2,597	2,568	2,749	2,610
Vacation	4,622	4,521	4,608	4,505	2,348	2,331	2,039	1,993
Illness	573	511	566	506	169	162	347	301
All other reasons ³	530	475	512	477	80	75	363	316

¹ Excludes private household.

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

² Pay 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	August 1977					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	81,282	77,770	3,512	100.0	100.0	100.0
1-34 hours	17,750	16,781	968	21.8	21.6	27.6
1-4 hours	613	581	32	.8	.7	.9
5-14 hours	2,846	2,644	202	3.5	3.4	5.8
15-29 hours	8,926	8,412	514	11.0	10.8	14.6
30-34 hours	5,365	5,144	220	6.6	6.6	6.3
35 hours and over	63,532	60,988	2,544	78.2	78.4	72.4
35-39 hours	5,760	5,607	153	7.1	7.2	4.4
40 hours	35,291	34,705	586	43.4	44.6	16.7
41 hours and over	22,481	20,676	1,805	27.7	26.6	51.4
41 to 48 hours	8,976	8,692	285	11.0	11.2	8.1
49 to 59 hours	7,277	6,799	478	9.0	8.7	13.6
60 hours and over	6,228	5,185	1,042	7.7	6.7	29.7
Average hours, total at work	39.7	39.4	46.2	--	--	--
Average hours, workers on full-time schedules	43.3	42.9	53.6	--	--	--

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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	August 1977					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	17,750	6,247	11,503	16,781	5,893	10,888
Economic reasons	4,051	1,370	2,681	3,744	1,226	2,518
Slack work	1,651	945	706	1,440	811	629
Material shortages or repairs to plant and equipment	74	74	--	73	73	--
New job started during week	246	246	--	244	244	--
Job terminated during week	105	105	--	97	97	--
Could find only part-time work	1,975	--	1,975	1,889	--	1,889
Other reasons	13,698	4,876	8,822	13,038	4,667	8,371
Does not want, or unavailable for, full-time work	6,889	--	6,889	6,550	--	6,550
Vacation	1,457	1,457	--	1,416	1,416	--
Illness	1,531	1,361	170	1,481	1,334	147
Bad weather	436	436	--	334	334	--
Industrial dispute	53	53	--	53	53	--
Legal or religious holiday	118	118	--	118	118	--
Full time for this job	1,249	--	1,249	1,218	--	1,218
All other reasons	1,963	1,450	513	1,864	1,410	454
Average hours:						
Economic reasons	21.3	23.2	20.4	21.4	23.1	20.6
Other reasons	21.8	25.7	19.7	21.9	25.8	19.7
Worked 30 to 34 hours:						
Economic reasons	1,121	511	610	1,041	461	580
Other reasons	4,244	2,440	1,804	4,103	2,372	1,731

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

[Numbers in thousands]

Industry	August 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	77,770	3,744	8,371	65,655	44,979	8,692	11,984	39.4	42.9
Wage and salary workers	71,672	3,434	7,402	60,836	42,967	8,058	9,811	39.1	42.4
Construction	4,708	312	166	4,230	3,111	492	627	39.4	41.5
Manufacturing	18,392	523	448	17,421	11,990	2,850	2,581	41.3	42.3
Durable goods	10,787	231	169	10,387	7,086	1,690	1,611	41.8	42.5
Nondurable goods	7,604	292	279	7,033	4,904	1,159	970	40.6	42.1
Transportation and public utilities	5,026	132	177	4,717	3,299	547	871	42.0	43.4
Wholesale and retail trade	15,583	1,174	2,873	11,536	7,304	1,879	2,353	37.6	43.3
Finance, insurance, and real estate	4,395	83	376	3,936	2,963	387	586	39.4	41.6
Service industries	18,311	1,119	3,157	14,035	10,565	1,395	2,075	36.6	42.0
Private households	1,329	257	635	437	305	43	89	24.3	44.3
All other industries	16,982	862	2,522	13,598	10,260	1,352	1,986	37.6	41.9
Public administration	4,644	80	201	4,363	3,394	430	539	40.6	41.8
Self-employed workers	5,608	300	795	4,513	1,860	590	2,063	43.1	49.3
Unpaid family workers	490	10	173	307	154	43	110	38.3	48.1

¹Includes 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	August 1977							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 hours or more			
TOTAL									
Both sexes, 16 years and over	77,770	3,744	8,371	65,655	44,979	20,676	39.4	42.9	
16 to 21 years	13,228	1,674	2,597	8,957	6,898	2,059	34.5	41.1	
16 to 19 years	8,231	1,308	2,097	4,826	3,770	1,056	32.2	40.7	
16 to 17 years	3,389	672	1,302	1,415	1,114	301	28.1	40.2	
18 to 19 years	4,842	636	795	3,411	2,656	755	35.1	40.9	
20 years and over	69,539	2,435	6,274	60,830	41,210	19,620	40.2	43.1	
20 to 24 years	12,041	740	1,014	10,287	7,433	2,854	39.0	41.9	
25 years and over	57,498	1,695	5,259	50,544	33,778	16,766	40.5	43.3	
25 to 44 years	33,642	1,035	2,540	30,067	19,756	10,311	40.9	43.4	
45 to 64 years	21,844	600	1,729	19,515	13,394	6,121	40.7	43.2	
65 years and over	2,012	59	990	963	627	336	29.8	44.4	
Males, 16 years and over	47,231	1,776	2,536	42,919	26,435	16,484	42.0	44.2	
16 to 21 years	7,026	845	1,081	5,100	3,653	1,447	36.2	42.1	
16 to 19 years	4,375	676	911	2,788	2,089	699	33.8	41.4	
16 to 17 years	1,857	373	593	891	692	199	29.9	40.6	
18 to 19 years	2,518	303	319	1,896	1,396	500	36.6	41.8	
20 years and over	42,856	1,098	1,624	40,134	24,350	15,784	42.9	44.4	
20 to 24 years	6,631	323	363	5,945	3,816	2,129	41.1	43.3	
25 years and over	36,225	776	1,260	34,189	20,534	13,655	43.2	44.6	
25 to 44 years	21,204	498	377	20,329	11,879	8,450	43.8	44.8	
45 to 64 years	13,776	241	318	13,217	8,236	4,981	43.2	44.3	
65 years and over	1,246	38	564	644	421	223	30.7	43.9	
Females, 16 years and over	30,539	1,968	5,835	22,736	18,543	4,193	35.3	40.4	
16 to 21 years	6,202	828	1,516	3,858	3,247	611	32.4	39.8	
16 to 19 years	3,856	632	1,185	2,039	1,683	356	30.5	39.7	
16 to 17 years	1,532	299	709	524	422	102	25.9	39.5	
18 to 19 years	2,324	333	477	1,514	1,259	255	33.5	39.7	
20 years and over	26,682	1,336	4,650	20,696	16,860	3,836	36.0	40.5	
20 to 24 years	5,410	418	651	4,341	3,615	726	36.4	40.0	
25 years and over	21,272	918	3,999	16,355	13,243	3,112	35.8	40.7	
25 to 44 years	12,439	536	2,163	9,740	7,881	1,859	36.0	40.4	
45 to 64 years	8,068	362	1,410	6,296	5,156	1,140	36.3	40.7	
65 years and over	766	21	426	319	206	113	28.4	45.5	
RACE									
White	69,194	3,121	7,530	58,543	39,184	19,359	39.6	43.1	
Males	42,512	1,493	2,249	38,770	23,287	15,483	42.3	44.4	
Females	26,682	1,628	5,282	19,772	15,897	3,875	35.3	40.5	
Black and other	8,576	623	841	7,112	5,795	1,317	37.5	41.0	
Males	4,719	283	287	4,149	3,150	999	39.3	42.0	
Females	3,857	340	554	2,963	2,646	317	35.3	39.7	
MARITAL STATUS									
Males:									
Married, spouse present	32,523	619	1,000	30,904	18,165	12,739	43.5	44.7	
Widowed, divorced, or separated	3,361	121	156	3,084	1,916	1,168	42.0	44.1	
Single (never married)	11,347	1,036	1,379	8,932	6,357	2,575	37.8	42.4	
Females:									
Married, spouse present	15,999	715	3,454	11,830	9,700	2,130	35.0	40.4	
Widowed, divorced, or separated	5,757	334	749	4,674	3,642	1,032	37.1	40.9	
Single (never married)	8,782	921	1,633	6,228	5,198	1,030	34.5	40.2	

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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	August 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	38,497	1,079	4,384	33,034	22,233	3,940	6,861	40.0	43.2
Professional and technical	10,072	240	916	8,916	6,013	1,044	1,859	40.3	43.1
Managers and administrators, except farm	8,807	95	372	8,340	3,934	1,248	3,158	45.8	47.7
Sales workers	5,296	256	1,122	3,918	2,360	540	1,018	37.6	44.9
Clerical workers	14,322	486	1,974	11,862	9,927	1,109	826	36.9	40.2
Blue-collar workers	28,372	1,510	1,372	25,490	17,345	3,926	4,219	40.4	42.6
Craft and kindred workers	11,091	419	344	10,328	6,872	1,577	1,879	41.4	42.9
Operatives, except transport	9,442	512	325	8,605	6,170	1,367	1,068	40.3	42.0
Transport equipment operatives	3,071	128	141	2,802	1,512	491	799	43.2	45.4
Nonfarm laborers	4,767	451	562	3,754	2,790	491	473	36.7	41.4
Service workers	11,418	1,197	2,693	7,528	5,615	898	1,015	34.8	42.4
Private household	1,083	204	482	397	273	39	85	26.0	44.5
Other service workers	10,335	993	2,211	7,131	5,340	859	932	35.7	42.2
Males									
White-collar workers	19,656	303	998	18,355	10,130	2,576	5,649	43.9	45.6
Professional and technical	6,546	116	310	6,120	3,798	744	1,578	42.8	44.4
Managers and administrators, except farm	6,898	56	182	6,660	2,844	1,040	2,776	47.1	48.1
Sales workers	3,070	77	289	2,704	1,422	414	868	42.3	45.3
Clerical workers	3,142	56	218	2,868	2,062	379	427	40.5	42.4
Blue-collar workers	23,460	1,125	987	21,348	14,036	3,336	3,976	41.1	43.1
Craft and kindred workers	10,544	382	278	9,884	6,537	1,508	1,839	41.6	43.0
Operatives, except transport	5,636	221	125	5,290	3,492	909	889	41.9	43.2
Transport equipment operatives	2,945	115	112	2,718	1,453	476	789	43.6	45.5
Nonfarm laborers	4,335	406	471	3,458	2,557	442	459	37.0	41.5
Service workers	4,511	377	584	3,550	2,448	471	631	38.8	43.7
Private household	33	10	1	22	17	1	4	33.3	44.1
Other service workers	4,478	367	582	3,529	2,431	471	627	38.9	45.7
Females									
White-collar workers	18,840	776	3,386	14,678	12,101	1,365	1,212	35.9	40.3
Professional and technical	3,526	125	606	2,795	2,214	300	281	35.8	40.3
Managers and administrators, except farm	1,908	40	190	1,678	1,087	209	382	41.3	44.3
Sales workers	2,226	179	833	1,214	938	126	150	31.2	41.0
Clerical workers	11,180	431	1,756	8,993	7,864	729	400	35.9	39.5
Blue-collar workers	4,912	386	385	4,141	3,308	590	243	37.2	40.2
Craft and kindred workers	547	37	66	444	336	69	39	37.2	41.3
Operatives, except transport	3,806	291	200	3,315	2,678	457	180	37.8	40.0
Transport equipment operatives	126	13	29	84	59	15	10	32.7	41.4
Nonfarm laborers	433	45	90	298	235	49	14	34.0	39.9
Service workers	6,907	820	2,109	3,978	3,167	427	384	32.2	41.2
Private household	1,050	193	481	376	256	39	81	25.7	44.5
Other service workers	5,857	626	1,629	3,602	2,910	388	304	33.3	40.8

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

[Numbers in thousands]

Employment status	August 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,275	4,211	4,064	6,961	3,551	3,410	1,314	660	654
Civilian labor force	2,373	1,420	953	2,133	1,284	849	240	136	104
Employed	2,089	1,241	847	1,921	1,136	785	167	105	63
Agriculture	360	278	83	326	251	75	35	27	8
Nonagricultural industries	1,728	964	765	1,596	886	710	133	78	55
Unemployed	285	179	106	212	147	64	73	31	42
Unemployment rate	12.0	12.6	11.1	9.9	11.5	7.5	30.4	22.8	40.4
Not in labor force	5,902	2,791	3,111	4,828	2,267	2,561	1,074	524	550
Keeping house	361	20	341	266	14	253	95	7	88
Going to school	294	154	141	235	118	117	59	35	24
Unable to work	16	7	9	15	7	8	1	--	--
All other reasons	5,231	2,610	2,621	4,311	2,128	2,183	920	482	438

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

Characteristics	August 1977					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	2,089	1,241	847	100.0	100.0	100.0
Nonagricultural industries	1,729	964	765	82.8	77.6	90.3
Wage and salary workers	1,627	888	738	77.9	71.6	87.1
Private household workers	650	197	453	31.1	15.9	53.5
Government workers	181	123	57	8.7	9.9	6.7
Other wage and salary workers	796	568	228	38.1	45.8	26.9
Self-employed workers	75	52	23	3.6	4.2	2.7
Unpaid family workers	27	23	4	1.3	1.9	.5
Agriculture	360	278	83	17.2	22.4	9.7
Wage and salary workers	225	172	52	10.8	13.9	6.1
Self-employed workers	29	28	2	1.4	2.3	.2
Unpaid family workers	106	78	28	5.1	6.3	3.3
OCCUPATION						
Total	2,089	1,241	847	100.0	100.0	100.0
White-collar workers	320	213	107	15.4	17.2	12.5
Professional and technical	8	5	3	.4	.4	.4
Managers and administrators, except farm	2	1	--	.1	.1	--
Sales workers	225	167	57	10.8	13.5	6.7
Clerical workers	86	40	46	4.1	3.2	5.4
Blue-collar workers	552	507	45	26.4	40.9	5.3
Craft and kindred workers	51	47	4	2.4	3.8	.5
Operatives, except transport	62	53	8	3.0	4.3	.9
Transport equipment operatives	8	8	--	.4	.6	--
Nonfarm laborers	432	399	33	20.7	32.2	3.9
Service workers	899	283	616	43.0	22.9	72.7
Private household workers	471	35	436	22.5	2.8	51.5
Other service workers	429	249	180	20.5	20.1	21.3
Farm workers	317	237	80	15.2	19.1	9.4
Farmers and farm managers	7	6	1	.3	.5	.1
Farm laborers and supervisors	310	231	79	14.8	18.6	9.3

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-33. Employment status of the noninstitutional population by sex and age, seasonally adjusted

[Numbers in thousands]

Employment status	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL													
Total noninstitutional population ¹	156,367	156,595	156,788	157,006	157,176	157,381	157,584	157,782	157,986	158,228	158,456	158,682	158,899
Armed Forces ¹	2,147	2,145	2,147	2,149	2,146	2,133	2,137	2,138	2,132	2,128	2,129	2,135	2,137
Civilian noninstitutional population ¹	154,220	154,451	154,642	154,857	155,031	155,248	155,447	155,643	155,854	156,101	156,327	156,547	156,761
Civilian labor force	95,351	95,242	95,302	95,871	95,960	95,516	96,145	96,539	96,760	97,158	97,641	97,305	97,697
Percent of civilian population	61.8	61.7	61.6	61.9	61.9	61.5	61.9	62.0	62.1	62.2	62.5	62.2	62.3
Employed	87,834	87,794	87,738	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561	90,771
Percent of total population	56.2	56.1	56.0	56.2	56.3	56.3	56.5	56.7	57.0	57.1	57.2	57.1	57.1
Agriculture	3,372	3,278	3,310	3,248	3,257	3,090	3,090	3,116	3,260	3,386	3,338	3,213	3,252
Nonagricultural industries	84,462	84,516	84,428	84,972	85,184	85,468	85,872	86,359	86,763	87,022	87,341	87,348	87,519
Unemployed	7,517	7,448	7,564	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744	6,926
Unemployment rate	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1
Not in labor force	58,869	59,209	59,340	58,986	59,071	59,732	59,302	59,104	59,094	58,943	58,686	59,242	59,064
Males, 20 years and over													
Total noninstitutional population ¹	66,384	66,491	66,598	66,699	66,835	66,930	67,025	67,114	67,209	67,324	67,431	67,537	67,642
Civilian noninstitutional population ¹	64,688	64,796	64,902	65,001	65,140	65,250	65,342	65,423	65,522	65,641	65,743	65,845	65,947
Civilian labor force	51,698	51,851	51,912	52,066	52,078	51,842	52,092	52,061	52,089	52,282	52,497	52,494	52,588
Percent of civilian population	79.9	80.0	80.0	80.1	79.9	79.5	79.7	79.6	79.6	79.6	79.9	79.7	79.7
Employed	48,638	48,701	48,684	48,773	48,859	48,961	49,091	49,267	49,465	49,531	49,859	49,794	49,854
Percent of total population	73.3	73.2	73.1	73.1	73.1	73.2	73.2	73.4	73.6	73.6	73.9	73.7	73.7
Agriculture	2,393	2,341	2,334	2,283	2,273	2,209	2,230	2,208	2,280	2,373	2,372	2,305	2,355
Nonagricultural industries	46,245	46,360	46,350	46,490	46,586	46,752	46,861	47,059	47,185	47,158	47,487	47,489	47,499
Unemployed	3,060	3,150	3,228	3,293	3,219	2,881	3,001	2,794	2,624	2,751	2,638	2,700	2,734
Unemployment rate	5.9	6.1	6.2	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1	5.2
Not in labor force	12,990	12,945	12,990	12,935	13,062	13,408	13,250	13,362	13,433	13,359	13,246	13,351	13,359
Females, 20 years and over													
Total noninstitutional population ¹	73,168	73,286	73,378	73,491	73,535	73,642	73,746	73,852	73,958	74,081	74,198	74,315	74,429
Civilian noninstitutional population ¹	73,078	73,196	73,288	73,401	73,445	73,550	73,654	73,757	73,863	73,987	74,101	74,217	74,332
Civilian labor force	34,562	34,540	34,444	34,848	34,938	34,740	34,982	35,295	35,455	35,634	35,765	35,667	35,723
Percent of civilian population	47.3	47.2	47.0	47.5	47.6	47.2	47.5	47.9	48.0	48.2	48.1	48.1	48.1
Employed	31,883	31,906	31,811	32,208	32,340	32,331	32,477	32,750	32,985	33,288	33,116	33,212	33,172
Percent of total population	43.6	43.5	43.4	43.8	44.0	43.9	44.0	44.3	44.6	44.9	44.6	44.7	44.6
Agriculture	532	520	553	558	573	488	485	496	577	597	564	525	515
Nonagricultural industries	31,351	31,386	31,258	31,650	31,767	31,843	31,992	32,254	32,408	32,691	32,552	32,687	32,657
Unemployed	2,679	2,634	2,633	2,640	2,598	2,409	2,505	2,545	2,470	2,346	2,559	2,455	2,551
Unemployment rate	7.8	7.6	7.6	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9	7.1
Not in labor force	38,516	38,656	38,844	38,553	38,507	38,810	38,672	38,462	38,408	38,353	38,426	38,550	38,609
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,815	16,819	16,812	16,816	16,806	16,810	16,813	16,816	16,819	16,823	16,827	16,830	16,828
Civilian noninstitutional population ¹	16,454	16,458	16,452	16,455	16,446	16,448	16,451	16,464	16,468	16,473	16,483	16,485	16,483
Civilian labor force	9,091	8,851	8,946	8,957	8,944	8,934	9,071	9,183	9,216	9,242	9,469	9,144	9,386
Percent of civilian population	55.3	53.8	54.4	54.4	54.4	54.3	55.1	55.8	56.0	56.1	57.4	55.5	56.9
Employed	7,313	7,187	7,243	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555	7,745
Percent of total population	43.5	42.7	43.1	43.0	43.1	43.2	44.0	44.4	45.0	45.1	45.8	44.9	46.0
Agriculture	447	417	423	407	411	393	375	412	403	416	402	383	382
Nonagricultural industries	6,866	6,770	6,820	6,832	6,831	6,873	7,019	7,046	7,170	7,173	7,302	7,172	7,363
Unemployed	1,778	1,664	1,703	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589	1,641
Unemployment rate	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5
Not in labor force	7,363	7,607	7,506	7,498	7,502	7,514	7,380	7,281	7,252	7,231	7,014	7,341	7,097

¹ The population and Armed Forces figures are not adjusted for seasonal variations. NOTE: Detail for the household data shown in tables A-33 through A-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

A-34. Full- and part-time status of the civilian labor force, seasonally adjusted

[Numbers in thousands]

Full- and part-time employment status	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	81,177	80,977	81,297	81,786	82,048	81,730	81,946	82,074	82,229	82,738	83,306	82,994	83,257
Employed	75,092	74,879	75,135	75,601	75,923	76,223	76,295	76,606	76,886	77,349	77,905	77,587	77,624
Unemployed	6,085	6,098	6,162	6,185	6,125	5,507	5,651	5,468	5,343	5,389	5,401	5,407	5,633
Unemployment rate	7.5	7.5	7.6	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5	6.8
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,351	14,340	14,059	14,046	13,912	13,980	14,265	14,426	14,587	14,435	14,192	14,229	14,498
Employed	12,922	12,963	12,610	12,577	12,546	12,549	12,736	12,820	13,146	13,006	12,668	12,925	13,205
Unemployed	1,429	1,377	1,449	1,469	1,366	1,431	1,529	1,606	1,441	1,429	1,524	1,304	1,293
Unemployment rate	10.0	9.6	10.3	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2	8.9

NOTE: 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**

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

[Numbers in thousands]

Characteristics	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
WHITE													
Total, 16 years and over:	84,403	84,313	84,511	84,816	84,854	84,616	85,086	85,482	85,642	85,937	86,268	85,968	86,285
Civilian labor force	78,370	78,276	78,384	78,647	78,828	78,923	79,365	79,832	80,249	80,603	80,813	80,752	81,010
Employed	6,033	6,037	6,127	6,169	6,026	5,693	5,721	5,650	5,393	5,334	5,455	5,216	5,275
Unemployed	7.1	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1
Unemployment rate													
Males, 20 years and over:	46,355	46,489	46,561	46,667	46,624	46,347	46,605	46,584	46,600	46,769	46,967	46,948	47,086
Civilian labor force	43,831	43,844	43,926	43,996	44,044	44,035	44,159	44,299	44,434	44,563	44,856	44,811	44,987
Employed	2,524	2,645	2,635	2,671	2,580	2,312	2,446	2,285	2,166	2,206	2,111	2,137	2,099
Unemployed	5.4	5.7	5.7	5.7	5.5	5.0	5.2	4.9	4.6	4.7	4.5	4.6	4.5
Unemployment rate													
Females, 20 years and over:	29,922	29,876	29,914	30,138	30,211	30,071	30,261	30,588	30,663	30,838	30,879	30,868	30,873
Civilian labor force	27,806	27,805	27,775	28,017	28,143	28,170	28,328	28,604	28,781	29,021	28,895	28,958	28,921
Employed	2,116	2,071	2,139	2,121	2,068	1,901	1,933	1,984	1,882	1,817	1,984	1,910	1,952
Unemployed	7.1	6.9	7.2	7.0	6.8	6.3	6.4	6.5	6.1	5.9	6.4	6.2	6.3
Unemployment rate													
Both sexes, 16 to 19 years:	8,126	7,948	8,036	8,011	8,019	8,198	8,220	8,310	8,379	8,330	8,422	8,152	8,326
Civilian labor force	6,733	6,627	6,683	6,634	6,641	6,718	6,878	6,929	7,034	7,019	7,062	6,983	7,102
Employed	1,393	1,321	1,353	1,377	1,378	1,480	1,342	1,381	1,345	1,311	1,360	1,169	1,224
Unemployed	17.1	16.6	16.8	17.2	17.2	18.1	16.3	16.6	16.1	15.7	16.1	14.3	14.7
Unemployment rate													
BLACK AND OTHER													
Total, 16 years and over:	10,979	10,906	10,910	11,114	11,109	11,030	11,163	11,104	11,071	11,171	11,325	11,236	11,402
Civilian labor force	9,484	9,508	9,444	9,618	9,623	9,648	9,697	9,690	9,711	9,730	9,833	9,758	9,744
Employed	1,495	1,398	1,466	1,496	1,486	1,382	1,466	1,414	1,360	1,441	1,492	1,478	1,658
Unemployed	13.6	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5
Unemployment rate													
Males, 20 years and over:	5,376	5,371	5,388	5,437	5,457	5,464	5,523	5,506	5,432	5,502	5,551	5,494	5,514
Civilian labor force	4,822	4,847	4,802	4,806	4,838	4,907	4,976	4,991	4,972	4,959	5,018	4,941	4,867
Employed	554	524	586	631	619	557	547	515	460	543	533	553	647
Unemployed	10.3	9.8	10.9	11.6	11.3	10.2	9.9	9.4	8.5	9.9	9.6	10.1	11.7
Unemployment rate													
Females, 20 years and over:	4,632	4,639	4,602	4,728	4,714	4,674	4,758	4,725	4,775	4,811	4,784	4,741	4,847
Civilian labor force	4,079	4,108	4,072	4,209	4,173	4,171	4,167	4,176	4,188	4,245	4,215	4,223	4,257
Employed	553	531	530	519	541	503	591	549	587	566	569	518	590
Unemployed	11.9	11.4	11.5	11.0	11.5	10.8	12.4	11.6	12.3	11.8	11.9	10.9	12.2
Unemployment rate													
Both sexes, 16 to 19 years:	971	896	920	949	938	892	882	873	864	858	990	1,001	1,041
Civilian labor force	583	553	570	603	612	570	554	523	551	526	600	594	620
Employed	388	343	350	346	326	322	328	350	313	332	390	407	421
Unemployed	40.0	38.3	38.0	36.5	34.8	36.1	37.2	40.1	36.2	38.7	39.4	40.7	40.4
Unemployment rate													

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Characteristics													
Total (all civilian workers)	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1
Males, 20 years and over	5.9	6.1	6.2	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1	5.2
Females, 20 years and over	7.8	7.6	7.6	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9	7.1
Both sexes, 16-19 years	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5
White	7.1	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1
Black and other	13.6	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5
Household heads	5.2	5.4	5.4	5.3	5.1	4.8	4.9	4.6	4.4	4.5	4.3	4.3	4.6
Married men	4.3	4.5	4.4	4.5	4.3	3.8	4.1	3.7	3.6	3.6	3.4	3.4	3.5
Full-time workers	7.5	7.5	7.6	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5	6.8
Part-time workers	10.0	9.6	10.3	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2	8.9
Unemployed 15 weeks and over ¹	2.5	2.4	2.5	2.6	2.6	2.4	2.3	2.0	1.9	1.9	1.8	1.9	1.9
Labor force time lost ²	8.4	8.4	8.6	8.6	8.4	8.0	7.9	7.8	7.4	7.5	7.5	7.4	7.7
OCCUPATION													
White-collar workers	4.9	4.6	4.6	4.7	4.5	4.5	4.6	4.7	4.4	4.3	4.2	4.0	4.2
Professional and technical	3.1	3.0	3.2	3.4	3.3	3.3	3.3	3.1	3.2	2.9	3.0	2.8	3.0
Managers and administrators, except farm	3.5	3.2	3.0	3.1	3.1	3.0	2.8	3.4	2.9	2.8	2.7	2.6	2.5
Sales workers	5.8	5.6	5.4	5.7	5.0	5.7	5.6	5.5	5.1	5.5	5.2	5.4	5.3
Clerical workers	7.0	6.2	6.2	6.3	6.1	6.0	6.4	6.5	6.0	5.7	5.7	5.4	5.8
Blue-collar workers	9.8	9.8	9.8	9.7	9.6	8.4	8.7	8.3	7.8	7.9	7.7	8.2	8.4
Craft and kindred workers	7.0	6.9	6.8	7.0	7.0	6.1	6.5	6.0	4.9	5.6	5.6	5.6	5.5
Operatives, except transport	11.3	11.5	11.6	11.3	11.0	9.2	9.6	9.2	9.3	8.9	9.4	10.1	10.0
Transport equipment operatives	8.1	8.0	8.3	8.2	8.1	7.2	7.7	6.9	6.0	6.7	5.7	7.5	7.6
Nonfarm laborers	14.5	14.6	14.0	13.5	13.9	12.9	12.8	13.2	12.6	12.5	10.9	10.7	12.6
Service workers	8.5	8.7	9.4	9.3	9.0	8.6	8.4	7.9	8.1	9.0	8.2	7.7	8.4
Farm workers	3.6	4.0	4.2	5.1	6.1	4.8	6.7	5.4	4.8	4.4	4.8	3.8	3.7
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.2	8.1	8.2	8.2	7.9	7.4	7.6	7.4	7.0	7.1	6.9	6.8	7.0
Construction	16.5	15.7	15.1	15.4	14.1	14.9	15.2	14.2	12.0	13.0	12.6	12.1	11.5
Manufacturing	8.1	8.1	8.2	8.2	8.2	6.9	7.1	6.6	6.7	6.2	6.3	6.7	7.0
Durable goods	7.7	7.6	8.0	7.7	8.0	6.5	7.0	6.6	6.0	5.7	5.6	6.1	6.5
Nondurable goods	8.7	8.9	8.5	8.9	8.6	7.4	7.3	7.3	7.7	7.0	7.3	7.6	7.7
Transportation and public utilities	4.8	5.4	5.6	5.7	5.2	4.7	4.6	5.1	4.4	4.3	4.1	4.7	4.9
Wholesale and retail trade	8.9	8.9	8.9	9.0	8.2	8.4	8.7	8.4	7.8	8.3	7.9	7.7	8.3
Finance and service industries	6.6	6.4	6.7	6.8	6.8	6.2	6.2	6.4	6.1	6.6	6.0	5.7	5.6
Government workers	4.4	3.9	4.4	4.3	4.4	4.3	4.5	4.0	4.0	4.1	4.2	3.9	4.4
Agricultural wage and salary workers	10.4	11.2	11.5	13.2	14.0	12.6	13.4	13.2	12.3	11.5	11.0	9.7	9.3

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

[In millions of thousands]

Weeks of unemployment	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Duration													
Less than 5 weeks	2,867	2,852	2,952	2,759	2,765	2,762	2,804	3,005	3,100	2,782	3,058	2,830	2,870
5 to 14 weeks	2,433	2,426	2,367	2,494	2,319	2,083	2,107	2,098	1,857	2,093	2,023	1,969	2,338
15 weeks and over	2,341	2,311	2,360	2,517	2,514	2,283	2,182	1,923	1,816	1,836	1,737	1,834	1,808
15 to 26 weeks	1,127	1,118	1,094	1,188	1,130	1,038	947	777	715	800	798	917	966
27 weeks and over	1,214	1,193	1,266	1,329	1,384	1,245	1,235	1,146	1,101	1,036	939	917	842
Average (mean) duration, in weeks	15.4	15.4	15.3	15.5	15.6	15.5	14.7	14.0	14.3	14.9	14.4	14.1	13.5
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	37.5	37.6	38.4	35.5	36.4	38.7	39.5	42.8	45.8	41.5	44.9	42.7	40.9
5 to 14 weeks	31.8	32.0	30.8	32.1	30.5	29.2	29.7	29.9	27.4	31.2	29.7	29.7	33.3
15 weeks and over	30.6	30.5	30.7	32.4	33.1	32.0	30.8	27.4	26.8	27.4	25.5	27.6	25.8
15 to 26 weeks	14.7	14.7	14.2	15.3	14.9	14.6	13.4	11.1	10.6	11.9	11.7	13.8	13.8
27 weeks and over	15.9	15.7	16.5	17.1	18.2	17.5	17.4	16.3	16.3	15.4	13.8	13.8	12.0

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

Sex and age	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1
16 to 19 years	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5
16 to 17 years	22.1	20.6	21.3	21.6	20.7	21.1	19.8	22.2	19.2	20.4	21.3	19.9	20.7
18 to 19 years	18.0	17.5	17.5	17.6	17.7	17.0	17.5	16.6	16.8	16.3	16.5	15.3	15.6
20 to 24 years	11.9	11.7	12.6	12.7	12.5	11.4	12.0	11.4	10.8	10.7	10.5	10.6	11.1
25 years and over	5.6	5.8	5.7	5.6	5.5	5.1	5.2	5.1	4.9	4.8	5.0	5.0	5.0
25 to 54 years	5.9	5.9	6.0	5.9	5.9	5.3	5.3	5.2	5.1	5.1	5.3	5.2	5.3
55 years and over	4.8	4.8	4.6	4.6	4.2	4.1	4.8	4.3	4.1	4.0	3.8	3.9	3.9
Males, 16 years and over	7.0	7.2	7.4	7.5	7.3	6.6	6.9	6.5	6.1	6.3	6.2	6.2	6.3
16 to 19 years	18.7	19.1	19.6	19.7	19.1	17.4	18.6	18.7	17.0	17.0	18.6	16.9	17.6
16 to 17 years	21.5	21.3	22.3	22.2	21.0	19.5	19.3	22.2	17.9	18.7	22.7	20.2	21.7
18 to 19 years	16.8	17.3	17.7	18.1	17.4	16.1	17.9	16.1	16.0	16.0	15.5	14.7	14.8
20 to 24 years	11.8	11.7	12.7	12.6	12.9	11.3	12.1	11.2	10.5	10.6	9.9	10.6	11.3
25 years and over	5.0	5.2	5.1	5.2	5.0	4.6	4.6	4.3	4.1	4.2	4.1	4.2	4.2
25 to 54 years	5.1	5.2	5.3	5.4	5.2	4.7	4.6	4.3	4.3	4.4	4.3	4.3	4.4
55 years and over	4.6	4.6	4.4	4.4	3.9	4.0	4.7	4.4	3.7	3.9	3.3	3.6	3.5
Females, 16 years and over	9.1	8.8	8.8	8.7	8.6	8.3	8.4	8.5	8.2	7.9	8.4	8.0	8.3
16 to 19 years	20.6	18.4	18.3	18.5	18.9	20.1	18.4	18.9	18.8	19.0	18.7	17.9	17.4
16 to 17 years	22.9	19.8	20.1	20.8	20.2	23.0	20.4	22.2	20.8	22.5	19.7	19.5	19.4
18 to 19 years	19.4	17.6	17.3	17.1	18.0	18.1	16.9	17.1	17.7	16.6	17.5	16.0	16.4
20 to 24 years	11.9	11.8	12.4	12.8	11.9	11.4	11.9	11.7	11.2	10.9	11.0	10.5	10.8
25 years and over	6.7	6.7	6.6	6.4	6.4	5.9	6.1	6.1	6.0	5.7	6.3	6.2	6.2
25 to 54 years	7.1	7.1	7.1	6.7	6.9	6.2	6.3	6.6	6.5	6.1	6.7	6.4	6.6
55 years and over	5.2	5.2	4.9	5.1	4.7	4.3	4.9	4.2	4.6	4.3	4.6	4.4	4.6

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

(Numbers in thousands)

Reason for unemployment	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
NUMBER OF UNEMPLOYED													
Job losers	3,790	3,727	3,756	3,802	3,736	3,207	3,396	3,143	2,953	1,038	1,927	1,075	3,289
On layoff	1,191	1,222	1,107	1,067	1,057	791	1,001	865	754	749	827	919	1,018
Other job losers	2,599	2,505	2,649	2,735	2,679	2,416	2,395	2,278	2,199	2,289	2,100	2,156	2,271
Job leavers	994	934	936	858	831	932	852	919	846	944	954	841	910
Reentrants	1,941	1,912	1,927	2,061	1,957	1,991	1,963	2,013	2,001	1,993	1,889	1,822	1,857
New entrants	955	926	894	920	942	905	936	1,003	972	893	1,077	974	1,000
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	49.3	49.7	50.0	49.8	50.0	45.6	47.5	44.4	43.6	44.2	42.7	45.8	46.6
On layoff	15.5	16.3	14.7	14.0	14.2	11.2	14.0	12.2	11.1	10.9	12.1	13.7	14.4
Other job losers	33.8	33.4	35.3	35.8	35.9	34.3	33.5	32.2	32.5	33.2	30.7	32.1	32.2
Job leavers	12.9	12.5	12.5	11.2	11.1	13.2	11.9	13.0	12.5	13.7	13.9	12.5	12.9
Reentrants	25.3	25.5	25.6	27.0	26.2	28.3	27.5	28.4	29.5	29.0	27.6	27.1	26.3
New entrants	12.4	12.3	11.9	12.0	12.6	12.9	13.1	14.2	14.4	13.0	15.7	14.5	14.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.0	3.9	3.9	4.0	3.9	3.4	3.5	3.3	3.1	3.1	3.0	3.2	3.4
Job leavers	1.0	1.0	1.0	.9	.9	1.0	.9	1.0	.9	1.0	1.0	.9	.9
Reentrants	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	1.9	1.9	1.9
New entrants	1.0	1.0	.9	1.0	1.0	.9	1.0	1.0	1.0	.9	1.1	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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	87,834	87,794	87,738	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561	90,771
16 to 19 years	7,313	7,187	7,243	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555	7,745
16 to 17 years	2,970	2,916	2,861	2,882	2,914	2,906	3,017	2,972	3,092	3,044	3,056	3,029	3,111
18 to 19 years	4,346	4,319	4,380	4,356	4,332	4,396	4,402	4,461	4,527	4,499	4,605	4,507	4,616
20 to 24 years	12,301	12,321	12,279	12,378	12,459	12,598	12,634	12,706	12,710	12,758	12,986	12,901	12,887
25 years and over	68,140	68,317	68,257	68,533	68,762	68,759	68,980	69,336	69,744	70,082	70,014	70,033	70,032
25 to 54 years	54,682	54,751	54,688	54,873	55,059	55,239	55,511	55,787	56,010	56,233	56,356	56,456	56,496
55 years and over	13,506	13,566	13,599	13,644	13,702	13,564	13,538	13,530	13,698	13,780	13,671	13,602	13,586
Males, 16 years and over	52,596	52,546	52,576	52,643	52,799	52,918	53,046	53,270	53,575	53,722	53,987	53,900	53,958
16 to 19 years	3,958	3,845	3,892	3,870	3,940	3,957	3,955	4,003	4,110	4,191	4,128	4,106	4,104
16 to 17 years	1,652	1,587	1,588	1,577	1,622	1,588	1,617	1,613	1,714	1,734	1,640	1,674	1,702
18 to 19 years	2,308	2,298	2,301	2,289	2,316	2,381	2,358	2,384	2,433	2,481	2,451	2,420	2,392
20 to 24 years	6,726	6,778	6,787	6,832	6,879	6,975	6,951	6,988	6,958	6,929	7,069	7,036	7,034
25 years and over	41,828	41,955	41,922	41,931	42,016	41,993	42,160	42,298	42,500	42,639	42,809	42,687	42,708
25 to 54 years	33,392	33,468	33,505	33,478	33,529	33,594	33,799	33,908	34,029	34,070	34,190	34,123	34,175
55 years and over	8,442	8,464	8,461	8,460	8,500	8,449	8,384	8,395	8,461	8,543	8,592	8,558	8,524
Females, 16 years and over	35,238	35,248	35,162	35,577	35,642	35,640	35,916	36,205	36,448	36,686	36,692	36,661	36,813
16 to 19 years	3,355	3,342	3,351	3,369	3,302	3,309	3,439	3,455	3,463	3,398	3,576	3,449	3,641
16 to 17 years	1,318	1,329	1,273	1,305	1,292	1,318	1,400	1,359	1,378	1,310	1,416	1,355	1,409
18 to 19 years	2,038	2,021	2,079	2,067	2,016	2,015	2,044	2,077	2,094	2,081	2,154	2,087	2,224
20 to 24 years	5,575	5,543	5,492	5,546	5,580	5,623	5,683	5,718	5,752	5,829	5,917	5,865	5,853
25 years and over	26,312	26,362	26,335	26,602	26,746	26,766	26,820	27,038	27,244	27,443	27,205	27,346	27,324
25 to 54 years	21,290	21,283	21,183	21,395	21,530	21,645	21,712	21,879	21,981	22,163	22,166	22,333	22,321
55 years and over	5,064	5,102	5,138	5,184	5,202	5,115	5,154	5,135	5,237	5,237	5,079	5,044	5,062

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

(In thousands)

Sex and age	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	7,517	7,448	7,564	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744	6,926
16 to 19 years	1,778	1,664	1,703	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589	1,641
16 to 17 years	843	758	776	792	760	777	746	847	736	779	829	752	811
18 to 19 years	956	913	930	930	930	901	931	886	916	873	907	815	851
20 to 24 years	1,657	1,639	1,767	1,802	1,779	1,617	1,722	1,638	1,545	1,533	1,516	1,522	1,609
25 years and over	4,075	4,180	4,106	4,102	4,027	3,681	3,766	3,689	3,580	3,565	3,667	3,679	3,662
25 to 54 years	3,438	3,448	3,470	3,438	3,449	3,090	3,088	3,086	3,039	3,006	3,137	3,076	3,147
55 years and over	688	688	652	664	608	583	679	608	579	580	533	552	550
Males, 16 years and over	3,968	4,060	4,178	4,244	4,152	3,714	3,904	3,712	3,466	3,609	3,580	3,538	3,609
16 to 19 years	908	910	950	951	933	833	903	918	842	858	942	838	875
16 to 17 years	452	429	455	449	432	384	387	459	374	399	481	424	472
18 to 19 years	467	481	496	505	487	457	515	459	465	459	449	417	414
20 to 24 years	903	899	990	987	1,022	892	958	879	819	823	781	833	899
25 years and over	2,189	2,282	2,236	2,281	2,194	2,002	2,034	1,919	1,835	1,892	1,843	1,874	1,856
25 to 54 years	1,813	1,830	1,862	1,902	1,853	1,656	1,616	1,534	1,517	1,563	1,548	1,551	1,566
55 years and over	408	410	385	387	349	354	414	385	328	343	289	319	307
Females, 16 years and over	3,549	3,388	3,386	3,407	3,367	3,244	3,279	3,352	3,271	3,141	3,382	3,206	3,317
16 to 19 years	870	754	753	767	769	835	774	807	801	795	823	751	766
16 to 17 years	391	329	321	343	328	393	359	388	362	380	348	328	339
18 to 19 years	489	432	434	425	443	444	416	427	451	414	458	398	437
20 to 24 years	754	740	777	815	757	725	764	759	726	710	735	689	710
25 years and over	1,886	1,898	1,870	1,821	1,833	1,679	1,732	1,770	1,745	1,673	1,824	1,805	1,806
25 to 54 years	1,625	1,618	1,608	1,536	1,596	1,434	1,472	1,552	1,522	1,443	1,589	1,525	1,581
55 years and over	280	278	267	277	259	229	265	223	251	237	244	233	243

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total employed	87,834	87,794	87,738	88,220	88,441	88,588	88,962	89,475	90,023	90,408	90,679	90,561	90,771
Household heads	51,120	51,185	51,159	51,356	51,525	51,710	51,729	51,970	52,230	52,314	52,437	52,295	52,395
Married men, spouse present	38,179	38,140	37,989	37,895	37,998	38,195	38,159	38,294	38,536	38,509	38,582	38,434	38,316
Married women, spouse present	20,402	20,470	20,384	20,482	20,498	20,511	20,756	20,963	21,076	20,962	20,831	20,846	20,814
Occupation													
White-collar workers	43,731	44,023	44,207	44,297	44,648	44,521	44,451	44,495	44,851	44,766	44,798	45,105	45,114
Professional and technical	13,471	13,581	13,427	13,597	13,544	13,444	13,408	13,439	13,591	13,483	13,638	13,863	13,720
Managers and administrators, except farm	9,309	9,446	9,436	9,491	9,564	9,613	9,502	9,543	9,434	9,400	9,570	9,583	9,688
Sales workers	5,504	5,555	5,551	5,597	5,815	5,633	5,815	5,617	5,765	5,695	5,673	5,716	5,722
Clerical workers	15,447	15,441	15,793	15,612	15,725	15,831	15,726	15,896	16,061	16,188	15,917	15,943	15,984
Blue-collar workers	28,912	28,745	28,921	29,001	29,150	29,634	29,917	30,025	30,193	30,423	30,432	30,063	30,231
Craft and kindred workers	11,286	11,340	11,352	11,353	11,302	11,626	11,668	11,709	11,896	11,894	11,891	11,887	11,931
Operatives, except transport	10,015	9,820	9,885	9,970	10,231	10,341	10,341	10,574	10,394	10,530	10,378	10,270	10,242
Transport equipment operatives	3,266	3,275	3,297	3,258	3,283	3,358	3,448	3,487	3,482	3,552	3,551	3,397	3,462
Nonfarm laborers	4,345	4,310	4,387	4,420	4,334	4,309	4,450	4,255	4,421	4,447	4,612	4,509	4,596
Service workers	12,265	12,165	11,972	12,026	11,880	11,874	12,017	12,272	12,254	12,372	12,697	12,460	12,591
Farm workers	2,913	2,772	2,829	2,743	2,791	2,624	2,663	2,652	2,779	2,904	2,838	2,743	2,778
Major industry and class of worker													
Agriculture:													
Wage and salary workers	1,339	1,309	1,310	1,285	1,380	1,246	1,280	1,282	1,310	1,325	1,381	1,271	1,331
Self-employed workers	1,700	1,608	1,671	1,627	1,530	1,490	1,511	1,513	1,548	1,655	1,595	1,561	1,604
Unpaid family workers	352	344	343	342	340	354	338	319	366	393	378	363	315
Nonagricultural industries:													
Wage and salary workers	78,423	78,440	78,498	78,766	78,957	79,205	79,520	79,869	80,306	80,429	80,814	80,738	80,951
Private households	1,384	1,400	1,377	1,448	1,384	1,391	1,317	1,313	1,320	1,305	1,388	1,445	1,401
Government	15,262	15,143	14,998	15,045	14,967	15,013	14,913	14,923	14,960	15,075	14,961	15,131	15,282
Other	61,777	61,897	62,123	62,273	62,606	62,801	63,290	63,633	64,026	64,049	64,465	64,162	64,268
Self-employed workers	5,661	5,701	5,632	5,771	5,798	5,853	5,854	5,919	5,954	6,050	5,997	5,896	6,151
Unpaid family workers	444	433	448	449	460	419	516	536	499	550	518	523	469
Persons at work¹													
Nonagricultural industries													
Full-time schedules	64,687	64,965	64,955	65,385	65,846	65,700	66,144	66,659	66,436	67,219	67,126	67,867	67,755
Part time for economic reasons	3,178	3,376	3,448	3,545	3,454	3,320	3,438	3,276	3,174	3,290	3,368	3,371	3,199
Usually work full time	1,350	1,378	1,339	1,289	1,234	1,112	1,335	1,212	1,167	1,314	1,341	1,440	1,196
Usually work part time	1,828	1,998	2,109	2,256	2,220	2,208	2,103	2,064	2,007	1,976	2,027	1,931	2,003
Part time for noneconomic reasons	11,126	11,455	11,066	11,010	11,069	10,812	11,255	11,395	11,395	11,262	11,124	11,334	11,659

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					
	Aug. 1976	July 1977	Aug. 1977	Aug. 1976	Apr. 1977	May 1977	June 1977	July 1977	Aug. 1977
VETERANS¹									
Total, 20 to 34 years									
Civilian noninstitutional population ²	6,703	6,817	6,813	6,703	6,861	6,865	6,819	6,817	6,813
Civilian labor force	6,330	6,541	6,560	6,303	6,501	6,508	6,500	6,517	6,543
Employed	5,907	6,067	6,121	5,821	6,027	6,019	6,004	6,000	6,032
Unemployed	423	474	439	482	474	489	496	517	511
Unemployment rate	6.7	7.2	6.7	7.6	7.3	7.5	7.6	7.9	7.8
20 to 24 years									
Civilian noninstitutional population ²	1,067	1,050	1,040	1,067	1,077	1,073	1,058	1,050	1,040
Civilian labor force	926	953	963	909	956	921	937	942	947
Employed	789	814	808	763	818	796	767	788	782
Unemployed	137	139	155	146	138	125	170	154	165
Unemployment rate	14.8	14.6	16.1	16.1	14.4	13.6	18.1	16.3	17.4
25 to 29 years									
Civilian noninstitutional population ²	3,248	3,028	2,994	3,248	3,044	3,012	3,062	3,028	2,994
Civilian labor force	3,067	2,916	2,887	3,053	2,893	2,872	2,923	2,895	2,872
Employed	2,864	2,709	2,717	2,836	2,671	2,647	2,715	2,688	2,690
Unemployed	203	207	170	217	222	225	208	207	182
Unemployment rate	6.6	7.1	5.9	7.1	7.7	7.8	7.1	7.2	6.3
30 to 34 years									
Civilian noninstitutional population ²	2,388	2,739	2,779	2,388	2,740	2,780	2,699	2,739	2,779
Civilian labor force	2,337	2,672	2,710	2,341	2,652	2,715	2,640	2,680	2,724
Employed	2,254	2,544	2,596	2,222	2,538	2,576	2,522	2,524	2,560
Unemployed	83	128	114	119	114	139	118	156	164
Unemployment rate	3.6	4.8	4.2	5.1	4.3	5.1	4.5	5.8	6.0
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	16,854	17,640	17,712	16,854	17,347	17,432	17,556	17,640	17,712
Civilian labor force	15,584	16,431	16,468	15,151	15,645c	15,646	15,870	15,917	16,004
Employed	14,356	15,265	15,290	13,835	14,510c	14,527	14,780	14,713	14,743
Unemployed	1,228	1,166	1,178	1,316	1,135	1,119	1,090	1,204	1,261
Unemployment rate	7.9	7.1	7.2	8.7	7.3c	7.2	6.9	7.6	7.9
20 to 24 years									
Civilian noninstitutional population ²	7,954	8,158	8,183	7,954	8,080	8,104	8,133	8,158	8,183
Civilian labor force	7,104	7,428	7,394	6,703	6,850	6,831	6,909	6,902	6,970
Employed	6,403	6,738	6,715	5,950	6,161	6,135	6,293	6,222	6,241
Unemployed	701	690	679	753	689	696	616	680	729
Unemployment rate	9.9	9.3	9.2	11.2	10.1	10.2	8.9	9.9	10.5
25 to 29 years									
Civilian noninstitutional population ²	5,121	5,307	5,354	5,121	5,298	5,328	5,276	5,307	5,354
Civilian labor force	4,839	5,009	5,083	4,832	4,977	4,990	5,006	5,015	5,070
Employed	4,490	4,702	4,777	4,449	4,691	4,722	4,689	4,674	4,734
Unemployed	349	307	306	383	286	268	317	341	336
Unemployment rate	7.2	6.1	6.0	7.9	5.7	5.4	6.3	6.8	6.6
30 to 34 years									
Civilian noninstitutional population ²	3,779	4,175	4,175	3,779	3,969	4,000	4,147	4,175	4,175
Civilian labor force	3,641	3,994	3,991	3,616	3,818	3,825	3,955	4,000	3,964
Employed	3,463	3,825	3,798	3,436	3,658	3,670	3,798	3,817	3,768
Unemployed	178	169	193	180	160	155	157	183	196
Unemployment rate	4.9	4.2	4.8	5.0	4.2	4.1	4.0	4.6	4.9

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.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls, by industry division 1919 to date

(In thousands)

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.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,262	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,384	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
Aug.	79,555	23,806	766	3,869	19,171	55,749	4,528	17,754	4,302	13,452	4,368	14,869	14,230	2,754	11,476
Sept.	80,277	24,027	804	3,815	19,408	56,250	4,560	17,870	4,300	13,570	4,347	14,813	14,660	2,717	11,943
Oct.	80,572	23,804	804	3,815	19,185	56,768	4,538	17,922	4,322	13,600	4,355	14,849	15,104	2,711	12,393
Nov.	80,943	23,781	807	3,742	19,232	57,162	4,546	18,122	4,321	13,801	4,368	14,851	15,268	2,720	12,548
Dec.	81,099	23,480	805	3,547	19,128	57,619	4,553	18,559	4,326	14,233	4,385	14,868	15,261	2,725	12,536
1977:															
Jan.	79,473	23,005	806	3,198	19,001	56,468	4,499	17,791	4,297	13,494	4,379	14,740	15,059	2,697	12,362
Feb.	79,734	23,063	807	3,251	19,005	56,671	4,494	17,653	4,291	13,362	4,391	14,887	15,246	2,705	12,541
Mar.	80,547	23,461	827	3,451	19,183	57,086	4,522	17,799	4,310	13,489	4,422	15,028	15,315	2,714	12,601
Apr.	81,332	23,846	838	3,681	19,327	57,486	4,538	18,026	4,332	13,694	4,450	15,182	15,290	2,716	12,574
May.	82,029	24,167	844	3,853	19,470	57,862	4,577	18,176	4,353	13,823	4,476	15,288	15,345	2,728	12,617
June.	82,930	24,679	870	4,047	19,762	58,251	4,629	18,342	4,409	13,933	4,534	15,458	15,288	2,765	12,523
July.....	82,152	24,557	841	4,147	19,569	57,595	4,601	18,307	4,422	13,885	4,564	15,511	14,612	2,773	11,877
Aug.	82,349	24,778	834	4,201	19,743	57,571	4,594	18,348	4,433	13,915	4,584	15,541	14,504	2,755	11,749

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 EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
-	TOTAL	79,242	79,555	82,930	82,152	82,349	-	-	-	-	-
-	PRIVATE SECTOR	64,902	65,325	67,642	67,540	67,845	53,397	53,792	55,593	55,399	55,640
-	MINING	804	766	870	841	834	609	571	658	627	619
10	METAL MINING	96.2	95.9	99.5	85.5	-	73.8	74.1	76.7	62.7	-
101	Iron ores	26.5	26.6	26.8	25.3	-	21.4	21.6	21.6	20.2	-
102	Copper ores	36.6	36.3	37.3	24.6	-	27.3	27.8	28.8	16.1	-
11,12	COAL MINING	219.5	177.3	236.0	225.8	-	187.7	145.3	196.7	185.9	-
12	Bituminous coal and lignite mining	215.5	173.4	231.9	221.6	-	184.3	142.0	193.1	182.2	-
13	OIL AND GAS EXTRACTION	367.6	372.2	409.5	414.0	-	251.2	256.1	285.4	288.1	-
131,2	Crude petroleum and natural gas fields	170.5	169.8	176.7	179.8	-	86.0	85.2	87.8	89.5	-
138	Oil and gas field services	197.1	202.4	232.8	234.2	-	165.2	170.9	197.6	198.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	120.6	120.3	124.6	125.3	-	96.2	95.8	99.5	99.8	-
142	Crushed and broken stone	42.4	42.2	44.0	44.1	-	35.1	34.9	36.7	37.0	-
144	Sand and gravel	37.5	37.5	39.2	39.6	-	-	-	-	-	-
-	CONTRACT CONSTRUCTION	3,821	3,869	4,047	4,147	4,201	3,063	3,117	3,243	3,340	3,390
15	GENERAL BUILDING CONTRACTORS	1,134.5	1,160.8	1,198.3	1,228.7	-	893.3	922.0	951.2	984.0	-
16	HEAVY CONSTRUCTION CONTRACTORS	809.2	809.9	858.5	880.5	-	675.0	677.6	705.4	727.5	-
161	Highway and street construction	357.5	359.7	394.9	409.4	-	310.1	312.4	335.1	349.0	-
162	Heavy construction, nec	451.7	450.2	463.6	471.1	-	364.9	365.2	370.3	378.5	-
17	SPECIAL TRADE CONTRACTORS	1,877.3	1,898.4	1,990.4	2,037.9	-	1,494.8	1,516.9	1,586.3	1,628.5	-
171	Plumbing, heating, air conditioning	438.5	439.8	458.8	468.4	-	331.6	333.7	346.9	355.6	-
172	Painting, paper hanging, decorating	141.8	148.0	159.4	166.8	-	121.5	127.8	133.0	139.2	-
173	Electrical work	326.1	331.1	333.4	340.4	-	256.5	262.7	260.8	267.2	-
174	Masonry, stonework, and plastering	201.8	207.5	234.1	239.1	-	175.6	181.3	202.2	207.1	-
176	Roofing and sheet metal work	133.6	136.1	141.5	146.3	-	108.5	111.8	114.5	118.5	-
-	MANUFACTURING	18,821	19,171	19,762	19,569	19,743	13,470	13,797	14,258	14,042	14,175
19,24,25,32,39	DURABLE GOODS	10,958	11,108	11,598	11,478	11,483	7,787	7,922	8,334	8,199	8,181
20-23,26-31	NONDURABLE GOODS	7,863	8,063	8,164	8,091	8,260	5,683	5,875	5,924	5,843	5,994
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	156.8	157.1	156.5	156.4	156.1	70.4	71.0	71.9	71.9	71.7
192	Ammunition, except for small arms	101.0	101.8	99.8	99.6	98.9	34.8	25.6	35.6	35.7	35.3
1925	Complete guided missiles	83.8	84.2	81.4	80.8	-	22.6	22.8	22.2	21.9	-
1929	Ammunition, exc. for small arms, nec	17.2	17.6	18.4	18.8	-	12.2	12.8	13.4	13.8	-
24	LUMBER AND WOOD PRODUCTS	623.4	629.0	659.9	660.4	665.3	524.4	529.0	564.5	563.6	569.0
241	Logging camps and logging contractors	79.4	80.0	76.6	77.0	77.5	-	-	-	-	-
242	Sawmills and planing mills	216.9	217.1	223.0	221.7	222.2	192.8	192.9	199.2	197.2	197.9
2421	Sawmills and planing mills, general	186.0	185.1	189.5	188.8	-	165.2	164.4	169.4	167.9	-
243	Millwork, plywood and related products	209.1	212.2	232.2	234.6	238.0	173.5	176.0	194.8	196.6	199.4
2431	Millwork	94.7	96.8	104.2	105.1	-	78.1	79.7	85.8	86.7	-
2432	Veneer and plywood	74.5	74.7	79.0	78.6	-	66.2	66.2	70.5	70.1	-
244	Wooden containers	22.1	21.9	22.4	22.2	21.9	19.6	19.2	19.9	19.5	19.4
2441,2	Wooden boxes, shooks, and crates	18.1	17.9	18.2	17.9	-	16.1	15.8	16.3	15.8	-
249	Miscellaneous wood products	95.9	97.8	105.7	104.9	105.7	77.1	78.7	87.7	86.7	88.2

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
	DURABLE GOODS—Continued										
25	FURNITURE AND FIXTURES	478.4	491.8	511.1	501.6	509.2	390.6	403.7	420.8	410.4	418.7
251	Household furniture	344.0	355.6	369.7	360.5	367.6	289.6	300.9	312.7	302.9	310.4
2511	Wood household furniture	177.5	185.5	190.0	185.9	—	154.7	162.5	166.6	161.8	—
2512	Upholstered household furniture	99.6	103.1	106.5	104.5	—	82.3	85.6	87.7	85.7	—
2515	Mattresses and bedsprings	33.3	33.8	33.4	33.0	—	25.4	26.2	25.8	25.3	—
252	Office furniture	34.2	35.9	42.4	42.1	—	26.6	28.1	34.4	34.2	—
254	Partitions and fixtures	53.7	54.3	54.5	54.8	—	40.1	40.8	40.9	40.9	—
253,9	Other furniture and fixtures	46.5	46.0	44.5	44.2	44.2	34.3	33.9	32.8	32.4	32.4
32	STONE, CLAY, AND GLASS PRODUCTS ...	641.8	644.6	672.2	673.3	675.2	512.6	514.6	539.1	540.0	542.4
321	Flat glass	16.5	16.6	16.8	16.8	—	13.3	13.3	13.8	13.7	—
322	Glass and glassware, pressed or blown	134.7	134.9	138.6	139.0	140.1	116.6	116.6	120.5	120.6	121.9
3221	Glass containers	79.9	80.0	80.5	81.5	—	70.7	70.7	71.7	72.6	—
3229	Pressed and blown glass, nec	54.8	54.9	58.1	57.5	—	45.9	45.9	48.8	48.0	—
324	Cement, hydraulic	30.7	30.4	30.7	31.1	30.9	24.5	24.2	24.5	24.8	24.6
325	Structural clay products	49.4	49.7	52.2	52.3	53.1	39.7	40.0	42.1	42.4	42.9
3251	Brick and structural clay tile	22.5	22.5	23.7	23.9	—	18.7	18.8	19.8	20.0	—
326	Pottery and related products	43.0	43.0	42.0	41.4	—	36.1	36.1	35.4	34.9	—
327	Concrete, gypsum, and plaster products	198.4	198.1	210.0	212.5	214.5	155.1	154.9	164.6	167.4	169.1
328,9	Other stone and nonmetallic mineral products	133.6	134.4	141.5	139.6	(*)	100.7	100.9	108.0	105.5	(*)
3291	Abrasive products	24.5	24.8	24.5	24.6	—	17.4	17.7	17.4	17.2	—
33	PRIMARY METAL INDUSTRIES	1,208.8	1,214.8	1,233.9	1,211.9	1,205.5	948.9	954.2	968.3	945.9	939.7
331	Blast furnace and basic steel products	565.5	564.2	565.7	564.0	(*)	444.4	442.4	442.5	440.2	(*)
3312	Blast furnaces and steel mills	491.1	489.1	491.7	490.4	—	387.8	385.3	386.0	384.5	—
332	Iron and steel foundries	215.9	218.5	223.3	220.4	(*)	176.7	179.3	183.5	180.1	(*)
3321	Gray iron foundries	138.6	140.6	144.2	141.9	—	115.4	117.4	120.3	117.7	—
3322	Malleable iron foundries	20.3	20.6	20.9	20.7	—	16.2	16.6	17.2	16.9	—
3323	Steel foundries	57.0	57.3	58.2	57.8	—	45.1	45.3	46.0	45.5	—
333,4	Nonferrous metals	84.7	85.6	85.8	74.6	(*)	64.5	65.3	64.9	55.3	(*)
3334	Primary aluminum	33.3	33.9	34.8	35.2	—	26.8	27.4	28.0	28.2	—
335	Nonferrous rolling and drawing	193.5	195.1	201.7	197.1	198.7	142.9	144.6	149.4	144.2	145.6
3351	Copper rolling and drawing	35.4	36.5	38.3	36.6	—	26.8	27.8	29.8	27.8	—
3352	Aluminum rolling and drawing	61.8	61.0	63.2	63.6	—	44.9	44.3	45.4	45.5	—
3357	Nonferrous wire drawing and insulating	77.3	78.4	79.8	76.9	—	57.7	58.7	60.0	56.9	—
336	Nonferrous foundries	78.5	80.2	83.3	81.7	(*)	64.8	66.5	69.0	67.2	(*)
3361	Aluminum castings	44.4	44.9	46.3	45.3	—	37.3	37.8	39.0	37.8	—
3362,9	Other nonferrous castings	34.1	35.3	37.0	36.4	—	27.5	28.7	30.0	29.4	—
339	Miscellaneous primary metal products	70.7	71.2	74.1	74.1	74.5	55.6	56.1	59.0	58.9	59.1
3391	Iron and steel forgings	45.5	45.7	47.0	46.6	—	35.9	36.1	37.6	37.2	—
34	FABRICATED METAL PRODUCTS	1,374.0	1,396.7	1,463.6	1,443.7	1,460.3	1,031.3	1,053.8	1,112.6	1,089.9	1,104.6
341	Metal cans	64.9	64.5	62.9	62.6	63.2	56.5	56.2	53.8	53.3	53.8
342	Cutlery, hand tools, and hardware	164.6	168.3	176.6	173.2	176.4	126.6	129.5	138.3	134.0	137.1
3421,3,5	Cutlery and hand tools, including saws	69.6	70.8	71.0	70.0	—	52.6	53.8	54.8	53.5	—
3429	Hardware, nec	95.0	97.5	105.6	103.2	—	74.0	75.7	83.5	80.5	—
343	Plumbing and heating, except electric	68.8	69.1	75.4	73.8	75.9	50.3	50.6	56.0	54.1	56.6
3431,2	Sanitary ware and plumbers' brass goods	31.6	30.7	34.6	34.3	—	24.0	23.0	26.9	26.5	—
3433	Heating equipment, except electric	37.2	38.4	40.8	39.5	—	26.3	27.6	29.1	27.6	—
344	Fabricated structural metal products	451.5	450.2	470.6	472.3	478.3	313.7	313.2	331.1	332.3	336.9
3441	Fabricated structural steel	97.5	98.4	96.6	97.4	—	68.7	69.6	68.5	69.1	—
3442	Metal doors, sash, and trim	73.0	73.4	79.6	80.1	—	54.2	55.2	60.4	60.7	—
3443	Fabricated plate work (boiler shops)	136.5	133.1	138.3	137.2	—	87.9	84.8	90.1	88.9	—
3444	Sheet metal work	87.0	87.4	94.2	95.3	—	63.0	63.4	69.0	70.4	—
3448,9	Architectural and miscellaneous metal work	57.5	57.9	61.9	62.3	—	39.9	40.2	43.1	43.2	—
345	Screw machine products, bolts, etc	97.3	98.7	106.3	104.7	105.4	75.1	76.4	83.6	82.4	82.9
3451	Screw machine products	45.5	45.9	51.3	50.5	—	37.4	37.8	42.1	41.6	—
3452	Bolts, nuts, rivets, and washers	51.8	52.8	55.0	54.2	—	37.7	38.6	41.5	40.8	—
346	Metal stampings	213.3	227.9	238.1	228.8	(*)	170.4	185.1	194.5	185.1	(*)
347	Metal services, nec	90.4	91.8	96.3	95.1	96.4	73.4	74.8	78.9	77.8	79.0
348	Miscellaneous fabricated wire products	59.1	60.2	60.8	60.1	60.1	46.8	47.7	47.2	45.5	46.2
349	Miscellaneous fabricated metal products	164.1	166.0	176.6	173.1	174.5	118.5	120.3	129.2	125.4	126.0
3494,8	Valves, pipe, and pipe fittings	108.7	109.2	116.3	114.4	—	74.1	74.6	80.8	78.8	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
DURABLE GOODS—Continued											
35	MACHINERY, EXCEPT ELECTRICAL	2,064.9	2,069.2	2,180.8	2,171.0	2,174.6	1,324.5	1,326.7	1,416.4	1,406.4	1,387.4
351	Engines and turbines	111.9	112.5	108.9	113.0	114.0	71.8	72.2	68.5	71.0	71.6
3511	Steam engines and turbines	42.7	42.5	42.4	42.6	—	22.6	22.3	22.1	22.2	—
3519	Internal combustion engines, nec.	69.2	70.0	66.5	70.4	—	49.2	49.9	46.4	48.8	—
352	Farm machinery	147.5	145.4	147.6	144.4	—	103.1	101.3	102.6	98.8	—
353	Construction and related machinery	338.3	337.3	347.1	349.5	(*)	216.9	215.4	225.6	227.5	(*)
3531,2	Construction and mining machinery	180.9	179.5	179.4	180.0	—	116.3	114.4	116.1	116.7	—
3633	Oil field machinery	68.4	68.3	71.5	72.8	—	47.3	47.2	50.3	51.3	—
3535,6	Conveyors, hoists, cranes, monorails	46.9	47.7	50.0	50.0	—	27.9	28.6	29.6	29.6	—
3537	Industrial trucks and tractors	30.1	30.4	34.0	34.1	—	19.2	19.5	22.9	22.7	—
354	Metal working machinery	304.7	306.8	329.8	326.3	(*)	220.0	222.7	242.7	238.7	(*)
3541	Machine tools, metal cutting types	59.6	59.4	62.2	62.2	—	38.4	38.1	40.3	40.0	—
3544	Special dies, tools, jigs, and fixtures	118.3	120.4	133.8	131.5	—	94.2	96.2	108.1	105.8	—
3545	Machine tool accessories	52.9	54.2	58.1	57.4	—	37.1	38.7	41.5	40.6	—
3542,8	Miscellaneous metal working machinery ..	73.9	72.8	75.7	75.2	—	50.3	49.7	52.8	52.3	—
355	Special industry machinery	174.0	176.2	179.6	177.9	179.2	110.7	112.4	114.2	113.3	114.3
3551	Food products machinery	40.7	41.1	42.5	42.3	—	26.3	26.7	27.5	27.2	—
3552	Textile machinery	30.7	31.1	30.4	29.6	—	21.9	22.1	22.0	21.3	—
3555	Printing trades machinery	24.1	24.5	26.7	26.8	—	14.1	14.5	15.8	15.9	—
356	General industrial machinery	284.8	285.6	298.8	297.5	300.8	184.6	185.1	195.3	193.8	196.8
3561	Pumps and compressors	81.4	81.7	85.8	85.9	—	48.2	48.3	52.1	51.5	—
3562	Ball and roller bearings	52.8	52.6	57.3	56.7	—	39.3	40.0	42.5	41.9	—
3564	Blowers and fans	34.9	34.4	34.8	34.8	—	22.3	21.5	22.2	22.1	—
3566	Power transmission equipment	47.7	47.8	47.9	47.5	—	33.7	33.5	33.7	33.5	—
357	Office and computing machines	291.8	292.5	321.4	316.3	316.7	115.6	115.2	134.7	132.6	125.6
3573	Electronic computing equipment	219.3	221.2	246.8	241.8	—	72.6	73.8	91.0	89.3	—
358	Service industry machines	162.0	162.1	173.7	172.6	172.0	111.7	111.6	122.2	120.9	120.0
3585	Refrigeration machinery	112.5	111.4	122.1	121.0	—	79.0	77.9	87.8	86.5	—
359	Miscellaneous machinery, except electrical ..	249.9	250.8	273.9	273.5	274.7	190.1	190.8	210.6	209.8	211.4
36	ELECTRICAL EQUIPMENT AND SUPPLIES ..	1,806.3	1,837.6	1,938.8	1,935.4	1,946.5	1,187.7	1,214.9	1,291.6	1,280.6	1,291.5
361	Electric test and distributing equipment	185.8	194.4	204.4	206.4	205.9	123.3	130.0	139.3	138.6	138.0
3611	Electric measuring instruments	70.1	72.4	76.6	79.0	—	41.6	43.6	46.9	47.1	—
3612	Transformers	43.6	47.1	50.4	49.9	—	30.8	33.4	37.1	36.6	—
3613	Switchgear and switchboard apparatus	72.1	74.9	77.4	77.5	—	50.9	53.0	55.3	54.9	—
362	Electrical industrial apparatus	210.1	213.5	225.3	223.0	222.3	149.5	151.7	161.6	159.3	158.8
3621	Motors and generators	101.8	103.7	109.6	107.6	—	75.8	77.0	83.0	81.5	—
3622	Industrial controls	67.8	68.4	71.4	71.1	—	44.8	45.2	46.7	46.1	—
363	Household appliances	164.7	163.9	181.3	180.0	178.9	127.9	127.5	143.2	141.6	140.6
3632	Household refrigerators and freezers	35.5	31.5	39.8	39.7	—	26.7	23.2	31.3	31.0	—
3633	Household laundry equipment	23.8	24.4	28.4	28.3	—	18.7	19.2	22.6	22.4	—
3634	Electric housewares and fans	48.7	51.2	53.4	52.6	—	38.5	40.8	42.0	41.4	—
364	Electric lighting and wiring equipment	191.2	196.1	207.6	206.4	207.0	145.5	150.3	159.0	158.1	159.1
3641	Electric lamps	36.1	35.8	37.7	37.7	—	31.9	31.6	33.5	33.4	—
3642	Lighting fixtures	61.1	64.4	66.4	65.1	—	46.2	49.8	50.8	49.4	—
3643,4	Wiring devices	94.0	95.9	103.5	103.6	—	67.4	68.9	74.7	75.3	—
365	Radio and TV receiving equipment	127.5	130.9	134.3	131.2	135.0	92.6	95.8	97.4	95.0	99.0
366	Communication equipment	417.2	418.4	438.8	442.0	442.4	205.2	206.9	219.6	219.9	219.8
3661	Telephone and telegraph apparatus	130.7	131.1	144.8	146.0	—	84.9	85.3	97.4	98.0	—
3662	Radio and TV communication equipment	286.5	287.3	294.0	296.0	—	120.3	121.6	122.2	121.9	—
367	Electronic components and accessories	369.8	377.8	392.3	391.5	397.8	236.9	243.9	251.7	248.9	254.3
3671-3	Electron tubes	41.7	42.0	43.2	43.6	—	27.3	27.7	27.8	28.0	—
3674,9	Other electronic components	328.1	335.8	349.1	347.9	—	209.6	216.2	223.9	220.9	—
369	Miscellaneous electrical equipment	140.0	142.6	154.8	154.9	157.2	106.8	108.8	119.8	119.2	121.9
3694	Engine electrical equipment	72.8	73.3	79.9	80.0	—	57.1	57.1	64.1	64.0	—
37	TRANSPORTATION EQUIPMENT	1,679.8	1,724.2	1,827.5	1,790.4	1,738.4	1,171.4	1,212.5	1,299.3	1,261.5	1,212.2
371	Motor vehicles and equipment	808.5	845.9	902.4	871.7	(*)	618.2	653.0	704.5	671.5	(*)
3711	Motor vehicles	334.1	351.6	373.0	361.3	—	242.8	259.4	280.6	267.5	—
3712	Passenger car bodies	27.5	46.2	48.2	37.3	—	18.8	36.3	37.0	26.2	—
3713	Truck and bus bodies	39.4	39.7	41.2	42.1	—	30.1	30.3	31.9	32.6	—
3714	Motor vehicle parts and accessories	386.0	386.8	413.5	405.6	—	310.5	310.9	334.2	325.6	—
3715	Truck trailers	21.5	21.6	26.5	25.4	—	16.0	16.1	20.8	19.6	—
372	Aircraft and parts	468.7	477.4	487.2	483.4	(*)	234.9	242.4	249.2	245.9	(*)
3721	Aircraft	253.2	259.5	261.7	259.0	—	117.5	112.4	123.9	121.6	—
3722	Aircraft engines and engine parts	125.7	129.2	132.1	130.9	—	64.4	68.3	68.8	68.3	—
3723,9	Other aircraft parts and equipment	89.8	88.7	93.4	93.5	—	53.0	51.7	56.5	56.0	—
373	Ship and boat building and repairing	211.9	211.5	227.4	(*)	(*)	168.6	168.0	180.0	(*)	(*)
3731	Ship building and repairing	165.9	165.3	176.1	176.7	—	131.1	130.6	137.7	139.0	—

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					
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	
	DURABLE GOODS—Continued											
	TRANSPORTATION EQUIPMENT—Continued											
3732	Boat bodies and repairs	46.0	46.2	51.3	49.9	37.5	37.4	42.3	41.2	—		
374	Railroad equipment	40.1	39.5	48.3	(*)	28.7	28.4	35.7	(*)	—		
375.9	Other transportation equipment	150.6	149.9	162.2	159.4	121.0	120.7	129.9	127.0	—		
38	INSTRUMENTS AND RELATED PRODUCTS	510.3	512.3	530.4	526.3	526.5	311.1	312.1	325.1	320.4	319.2	
381	Engineering and scientific instruments	58.7	58.9	59.6	58.3	—	28.5	28.3	28.1	27.1	—	
382	Mechanical measuring and control devices	117.9	117.8	123.0	122.4	122.8	75.3	75.2	79.8	79.1	79.1	
3821	Mechanical measuring devices	76.3	75.9	81.4	80.8	—	45.2	45.1	50.0	49.4	—	
3822	Automatic temperature controls	41.6	41.9	41.6	41.6	—	30.1	30.1	29.8	29.7	—	
383.5	Optical and ophthalmic goods	63.6	63.9	70.2	70.1	69.7	43.1	43.1	47.4	47.3	47.3	
385	Ophthalmic goods	41.7	41.8	45.4	45.2	—	30.5	30.4	32.8	32.8	—	
384	Medical instruments and supplies	108.4	109.0	116.8	116.4	116.1	72.5	72.6	79.1	77.9	77.6	
386	Photographic equipment and supplies	131.8	131.8	130.3	129.2	129.3	67.9	68.1	67.1	65.8	65.2	
387	Watches, clocks, and watchcases	29.9	30.9	30.5	29.9	—	23.8	24.8	23.6	23.2	—	
	MISCELLANEOUS MANUFACTURING INDUSTRIES	413.1	430.4	423.4	407.4	425.1	313.9	329.8	324.3	308.8	324.6	
391	Jewelry, silverware, and plated ware	49.6	54.9	55.5	52.2	54.1	35.6	40.3	40.8	37.5	39.2	
394	Toys and sporting goods	124.1	128.9	121.7	116.6	—	96.1	100.7	93.6	88.9	—	
3941.3	Games, toys, dolls, and play vehicles	68.5	73.6	65.1	63.0	—	51.3	56.3	49.1	47.0	—	
3949	Sporting and athletic goods, nec.	55.6	55.3	56.6	53.6	—	44.8	44.4	44.5	41.9	—	
395	Pens, pencils, office, and art supplies	33.2	33.5	33.8	33.6	—	23.3	23.6	24.3	24.0	—	
396	Costume jewelry and notions	50.1	53.1	50.5	46.8	—	40.5	43.2	40.8	37.4	—	
393.9	Other manufacturing industries	156.1	160.0	161.9	158.2	162.1	118.4	122.0	124.8	121.0	124.4	
393	Musical instruments and parts	22.3	23.6	23.5	22.0	—	18.1	19.2	19.1	17.7	—	
	NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,749.5	1,835.2	1,727.0	1,761.3	1,840.0	1,199.0	1,282.8	1,168.4	1,197.9	1,269.1	
201	Meat products	353.4	358.5	363.6	363.8	364.1	290.0	295.7	299.6	301.5	300.0	
2011	Meat packing plants	168.4	169.8	170.8	170.7	—	134.2	136.4	136.4	136.4	—	
2013	Sausages and other prepared meats	67.0	67.4	68.3	68.8	—	47.5	48.1	49.6	50.1	—	
2015	Poultry dressing plants	118.0	121.3	124.5	126.3	—	108.3	111.2	113.6	115.0	—	
202	Dairy products	199.5	198.9	198.9	198.3	198.8	105.5	104.6	105.1	104.8	104.6	
2024	Ice cream and frozen desserts	25.3	24.8	25.2	24.6	—	14.4	13.9	14.3	14.2	—	
2026	Fluid milk	126.2	126.1	126.2	126.4	—	55.0	54.8	54.5	54.6	—	
203	Canned, cured, and frozen foods	323.9	403.1	288.6	306.7	—	274.5	352.3	236.7	256.0	—	
2031.6	Canned, cured, and frozen sea foods	48.3	49.0	44.4	48.1	—	42.4	43.1	38.8	42.7	—	
2032.3	Canned food, except sea foods	161.4	227.9	130.2	149.4	—	137.1	202.4	103.6	123.1	—	
2037	Frozen fruits and vegetables	61.8	72.0	65.7	59.1	—	53.0	63.2	56.8	51.2	—	
204	Grain mill products	144.5	145.1	148.0	147.6	147.9	100.4	101.0	103.3	103.1	103.3	
2041	Flour and other grain mill products	26.5	26.9	28.7	28.5	—	18.6	19.1	19.8	19.7	—	
2042	Prepared feeds for animals and fowls	74.7	74.7	74.1	73.9	—	48.9	49.0	49.4	49.4	—	
205	Bakery products	244.1	242.9	240.7	251.3	251.7	141.4	140.8	139.0	144.7	145.5	
2051	Bread, cake, and related products	202.8	201.5	202.3	212.0	—	108.7	108.1	108.3	113.2	—	
2052	Cookies and crackers	41.3	41.4	38.4	39.3	—	32.7	32.7	30.7	31.5	—	
206	Sugar	30.8	31.0	27.0	25.9	—	22.4	22.6	19.2	18.5	—	
207	Confectionery and related products	75.6	76.4	74.7	76.2	(*)	57.5	58.1	56.7	58.2	(*)	
2071	Confectionery products	54.8	55.1	53.3	54.2	—	42.7	42.8	41.4	42.4	—	
208	Beverages	233.1	232.7	237.8	240.7	242.2	113.4	113.7	114.3	115.8	116.1	
2082	Malt liquors	50.9	51.4	52.6	53.4	—	37.2	37.6	38.2	38.8	—	
2086	Bottled and canned soft drinks	138.6	137.4	140.9	143.1	—	51.8	51.0	52.2	53.0	—	
209	Miscellaneous foods and kindred products	144.6	146.6	147.7	148.8	(*)	93.9	94.0	94.5	95.3	(*)	
21	TOBACCO MANUFACTURES	73.2	85.0	64.8	65.8	77.7	60.2	71.5	51.4	51.4	62.2	
211	Cigarettes	46.2	45.5	44.3	44.1	—	37.9	37.2	35.2	34.7	—	
212	Cigars	9.7	10.3	9.2	8.9	—	8.5	9.0	8.0	7.1	—	
22	TEXTILE MILL PRODUCTS	951.3	974.9	995.6	972.7	984.5	829.4	852.0	869.1	847.2	859.1	
221	Weaving mills, cotton	172.1	175.8	173.5	170.4	169.7	156.4	159.8	156.9	153.8	153.1	
222	Weaving mills, synthetics	121.0	123.9	122.0	120.8	121.4	107.9	110.8	109.4	108.2	108.7	
223	Weaving and finishing mills, wool	22.2	23.0	23.8	21.7	22.7	18.5	19.2	20.0	18.3	19.1	
224	Narrow fabric mills	24.9	26.4	26.0	24.8	25.4	21.6	23.1	22.6	21.5	22.1	
225	Knitting mills	255.8	264.0	275.2	268.7	272.7	219.7	227.6	237.7	231.3	235.8	
2251	Women's hosiery, except socks	37.9	39.1	38.1	37.4	—	33.5	34.7	33.7	33.1	—	
2252	Hosiery, nec.	35.0	34.9	36.3	36.2	—	31.1	31.0	32.6	32.4	—	
2253	Knit outerwear mills	74.1	80.0	84.5	80.4	—	62.7	68.5	72.5	68.6	—	
2254	Knit underwear mills	40.6	40.5	41.9	41.5	—	35.4	35.2	36.2	35.6	—	

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
NONDURABLE GOODS—Continued											
TEXTILE MILL PRODUCTS—Continued											
226	Textile finishing, except wool	80.9	81.9	83.4	80.9	82.0	68.4	69.5	70.9	68.4	69.5
227	Floor covering mills	58.5	60.0	64.3	62.9	—	46.1	47.5	50.8	49.7	—
228	Yarn and thread mills	152.5	154.7	159.0	156.8	158.7	139.6	141.6	145.7	143.3	145.1
229	Miscellaneous textile goods	63.4	65.2	68.4	65.7	66.9	51.2	52.9	55.1	52.7	53.8
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,255.0	1,299.7	1,316.3	1,256.9	1,293.5	1,074.6	1,117.0	1,131.7	1,074.3	1,107.3
231	Men's and boys' suits and coats	84.6	89.0	89.5	83.6	87.1	74.8	78.5	78.8	73.5	76.8
232	Men's and boys' furnishings	373.9	386.9	391.7	375.9	387.6	319.3	330.8	336.5	320.8	331.9
2321	Men's and boys' shirts and nightwear	115.3	119.9	118.0	111.8	—	100.2	104.3	102.4	96.4	—
2327	Men's and boys' separate trousers	83.7	87.0	88.5	85.9	—	73.1	75.6	77.7	75.2	—
2328	Men's and boys' work clothing	89.9	92.7	99.0	95.1	—	73.2	75.9	81.5	77.5	—
233	Women's and misses' outerwear	375.4	381.8	381.1	363.6	377.5	327.8	334.7	333.0	315.9	327.4
2331	Women's and misses' blouses and waists	47.7	48.3	49.3	46.1	—	42.0	42.6	43.3	40.2	—
2335	Women's and misses' dresses	162.2	166.2	165.9	158.1	—	144.7	149.0	147.7	139.8	—
2337	Women's and misses' suits and coats	57.9	59.2	55.4	53.8	—	49.3	50.8	46.5	44.9	—
2339	Women's and misses' outerwear, nec	107.6	108.1	110.5	105.6	—	91.8	92.3	95.5	91.0	—
234	Women's and children's undergarments	97.7	102.6	102.0	98.7	101.2	82.6	87.1	86.5	83.4	85.9
2341	Women's and children's underwear	73.7	77.7	77.8	75.4	—	63.6	67.3	67.1	64.8	—
2342	Corsets and allied garments	24.0	24.9	24.2	23.3	—	19.0	19.8	19.4	18.6	—
235	Hats, caps, and millinery	15.4	16.0	16.6	15.1	—	13.2	14.1	14.7	13.3	—
236	Children's outerwear	73.6	78.6	79.5	77.3	76.2	62.6	67.6	68.4	66.1	64.9
2361	Children's dresses and blouses	30.6	30.2	32.0	31.1	—	27.4	27.2	29.0	28.1	—
237,8	Fur goods and miscellaneous apparel	64.4	67.4	70.7	66.9	—	55.2	58.2	60.5	56.6	—
239	Miscellaneous fabricated textile products	170.0	177.4	185.2	175.8	179.5	139.1	146.0	153.3	144.7	148.0
2391,2	Housefurnishings	71.8	76.6	78.0	75.4	—	59.6	64.3	65.3	62.9	—
26	PAPER AND ALLIED PRODUCTS	678.7	684.7	709.6	705.4	711.0	514.5	519.4	534.6	531.4	535.0
261,2,6	Paper and pulp mills	200.9	203.5	205.0	206.7	207.0	154.4	156.2	157.4	158.6	158.0
263	Paperboard mills	71.6	71.4	72.5	72.2	72.8	56.5	56.8	57.0	56.6	57.1
264	Miscellaneous converted paper products	196.8	199.1	211.2	208.3	211.6	140.4	142.3	148.4	147.1	150.1
2643	Bags, except textile bags	42.3	42.8	45.3	44.8	—	33.4	34.0	36.0	35.3	—
265	Paperboard containers and boxes	209.4	210.7	220.9	218.2	219.6	163.2	164.1	171.8	169.1	169.8
2651,2	Folding and setup paperboard boxes	58.6	60.4	60.1	58.8	—	47.9	49.3	48.3	47.1	—
2653	Corrugated and solid fiber boxes	101.5	101.7	107.1	106.3	—	74.9	75.1	79.1	78.2	—
2654	Sanitary food containers	31.1	31.0	35.7	35.1	—	25.8	25.7	30.0	29.4	—
27	PRINTING AND PUBLISHING	1,076.4	1,079.1	1,112.6	1,109.2	1,111.9	624.7	626.4	641.8	636.3	638.4
271	Newspapers	382.9	383.8	394.7	394.2	394.0	165.3	165.0	165.7	164.3	164.1
272	Periodicals	69.9	69.8	71.9	72.3	—	18.5	18.3	20.0	19.9	—
273	Books	86.7	86.9	90.4	89.4	—	45.4	45.6	48.4	47.1	—
275	Commercial printing	355.3	356.6	367.0	363.8	366.3	266.8	268.0	274.7	271.6	273.3
2751	Commercial printing, except lithographic	202.0	202.8	206.3	204.6	—	154.3	154.8	156.5	154.5	—
2752	Commercial printing, lithographic	143.4	144.1	150.3	149.2	—	105.0	106.0	110.0	109.2	—
278	Blankbooks and bookbinding	50.5	51.6	52.2	52.5	53.1	41.1	42.2	42.6	42.8	43.3
274,6,7,9	Other publishing and printing ind	131.1	130.4	136.4	137.0	136.8	87.6	87.3	90.4	90.6	90.4
28	CHEMICALS AND ALLIED PRODUCTS	1,041.9	1,048.5	1,067.5	1,069.4	1,075.6	591.2	599.9	613.6	611.3	617.4
281	Industrial chemicals	340.4	342.3	349.2	350.9	352.6	181.3	183.8	188.3	188.3	189.5
2812	Alkalies and chlorine	21.8	21.7	21.1	21.1	—	15.9	15.9	15.4	15.4	—
2818	Industrial organic chemicals, nec	141.3	140.7	144.4	145.1	—	61.9	62.1	67.1	67.2	—
2819	Industrial inorganic chemicals, nec	110.2	112.6	115.8	116.8	—	60.8	62.9	63.2	63.3	—
282	Plastics materials and synthetics	204.0	204.5	207.3	207.5	208.4	135.0	136.0	139.6	139.4	140.7
2821	Plastics materials and resins	88.4	89.2	90.7	90.7	—	55.2	56.2	57.3	56.7	—
2823,4	Synthetic fibers	104.1	103.8	102.8	103.0	—	71.7	71.7	71.8	72.3	—
283	Drugs	169.9	170.5	176.0	175.7	176.4	83.9	84.8	88.4	87.2	87.1
2834	Pharmaceutical preparations	135.4	136.3	140.5	139.7	—	64.5	65.4	68.1	66.7	—
284	Soap, cleaners, and toilet goods	122.7	127.1	124.2	125.3	126.7	72.1	76.5	74.3	74.7	77.3
2841	Soap and other detergents	39.3	40.4	40.5	40.7	—	25.8	27.0	26.5	26.2	—
2844	Toilet preparations	49.9	52.6	49.5	50.2	—	28.9	31.7	29.8	30.1	—
285	Paints and allied products	68.3	68.2	71.8	72.5	72.1	37.2	37.3	38.7	39.0	38.9
287	Agricultural chemicals	54.7	54.3	57.7	56.2	56.4	32.9	32.6	35.6	34.4	34.4
2871,2	Fertilizers, complete and mixing only	32.0	31.7	34.7	33.4	—	21.4	21.3	23.5	22.3	—
286,9	Other chemical products	81.9	81.6	81.3	81.3	83.0	48.8	48.9	48.7	48.3	49.5
2892	Explosives	15.2	15.1	14.0	14.2	—	9.8	9.9	9.4	9.6	—
29	PETROLEUM AND COAL PRODUCTS	207.1	207.1	213.7	215.8	215.5	135.0	134.8	141.7	143.2	142.8
291	Petroleum refining	159.1	159.1	162.9	164.4	164.1	99.2	99.2	103.7	104.9	104.5
295,9	Other petroleum and coal products	48.0	48.0	50.8	51.4	51.4	35.8	35.6	38.0	38.3	38.3

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
	NONDURABLE GOODS—Continued										
30	RUBBER AND PLASTICS PRODUCTS, NEC...	564.8	576.5	684.3	674.7	680.5	426.2	436.6	538.4	528.0	530.9
301	Tires and inner tubes	55.0	54.1	124.4	123.7	122.3	25.0	24.1	92.4	91.8	90.8
302,3,6	Other rubber products	159.2	164.4	174.7	171.3	(*)	123.0	127.3	137.6	134.3	(*)
302	Rubber footwear	18.7	21.0	20.9	19.7	—	15.1	17.4	18.1	17.0	—
307	Miscellaneous plastics products	350.6	358.0	385.2	379.7	389.6	278.2	285.2	308.4	301.9	309.1
31	LEATHER AND LEATHER PRODUCTS	265.0	272.7	272.1	259.6	269.6	228.6	234.9	233.5	222.0	231.3
311	Leather tanning and finishing	23.3	23.6	24.2	22.9	23.2	20.0	20.4	20.8	19.5	20.0
314	Footwear, except rubber	166.5	171.1	168.5	160.9	166.7	146.2	149.6	147.4	140.7	146.1
312,3,5-7,9	Other leather products	75.2	78.0	79.4	75.8	79.7	62.4	64.9	65.3	61.8	65.2
316	Luggage	17.8	18.1	18.7	18.2	—	14.0	14.3	14.7	14.2	—
317	Handbags and personal leather goods	34.5	36.2	35.6	35.1	—	28.9	30.3	29.3	28.9	—
—	TRANSPORTATION AND PUBLIC UTILITIES	4,540	4,528	4,629	4,601	4,594	3,890	3,881	3,942	3,912	3,903
40	RAILROAD TRANSPORTATION	536.6	536.7	547.4	547.2	—	—	—	—	—	—
4011	Class I railroads ²	497.3	497.9	508.5	509.2	—	—	—	—	—	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	239.0	234.4	263.3	226.8	—	—	—	—	—	—
411	Local and suburban transportation	67.4	67.6	67.0	67.4	—	61.8	62.1	61.9	62.3	—
412	Taxicabs	77.4	75.5	71.8	70.1	—	—	—	—	—	—
413	Intercity highway transportation	42.5	42.2	39.9	41.1	—	38.7	38.3	36.3	37.4	—
42	TRUCKING AND WAREHOUSING	1,115.2	1,115.3	1,140.7	1,136.6	—	995.7	995.9	1,010.8	1,006.5	—
421,3	Trucking and trucking terminals	1,030.3	1,027.9	1,051.7	1,046.9	—	923.4	921.4	935.2	930.1	—
422	Public warehousing	84.9	87.4	89.0	89.7	—	72.3	74.5	75.6	76.4	—
45	TRANSPORTATION BY AIR	374.3	375.1	380.6	384.5	—	—	—	—	—	—
451,2	Air transportation	339.4	339.8	344.2	347.9	—	—	—	—	—	—
46	PIPELINE TRANSPORTATION	17.2	17.2	16.9	17.0	—	12.8	12.9	12.3	12.4	—
44,47	OTHER TRANSPORTATION AND SERVICES	354.9	346.7	358.3	360.9	—	—	—	—	—	—
44	WATER TRANSPORTATION	207.6	199.1	199.0	199.9	—	—	—	—	—	—
47	TRANSPORTATION SERVICES	147.3	147.6	159.3	161.0	—	—	—	—	—	—
48	COMMUNICATION	1,157.8	1,158.9	1,167.7	1,171.6	—	892.0	895.1	891.8	897.8	—
481	Telephone communication	949.3	948.1	951.4	955.6	—	722.4	724.0	717.7	722.6	—
482	Telegraph communication ³	17.3	17.6	17.9	(*)	—	12.7	13.0	14.8	(*)	—
483	Radio and television broadcasting	157.3	159.3	162.4	161.9	—	127.3	128.5	127.9	128.0	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	744.9	743.8	754.1	756.2	—	619.2	617.4	624.3	624.4	—
491	Electric companies and systems	315.3	315.1	322.4	323.9	—	259.5	258.8	264.2	265.7	—
492	Gas companies and systems	163.8	163.1	160.7	160.6	—	135.4	134.8	133.1	132.4	—
493	Combination companies and systems	197.0	196.8	198.4	197.9	—	165.0	164.5	164.5	163.0	—
494-7	Water, steam, and sanitary systems	68.8	68.8	72.6	73.8	—	59.3	59.3	62.5	63.3	—
—	WHOLESALE AND RETAIL TRADE	17,723	17,754	18,342	18,307	18,348	15,672	15,696	16,186	16,140	16,178
50	WHOLESALE TRADE	4,297	4,302	4,409	4,422	4,433	3,560	3,566	3,645	3,653	3,662
501	Motor vehicles and automotive equipment	385.2	383.4	399.0	400.2	—	314.8	313.1	327.0	327.4	—
502	Drugs, chemicals, and allied products	242.9	243.0	247.6	247.7	—	193.2	193.6	196.4	195.9	—
503	Dry goods and apparel	154.3	156.6	160.0	158.2	—	120.7	122.5	123.1	121.9	—
504	Groceries and related products	632.1	634.8	628.5	632.2	—	552.0	554.6	546.6	549.1	—
506	Electrical goods	318.7	318.4	328.8	330.9	—	268.7	268.1	276.0	275.9	—
507	Hardware; plumbing and heating equipment	187.9	188.3	195.7	197.9	—	155.8	156.7	162.7	164.2	—
508	Machinery, equipment, and supplies	891.1	892.6	931.7	938.3	—	734.8	737.0	770.4	777.5	—
509	Miscellaneous wholesalers	1,378.4	1,374.2	1,409.1	1,408.5	—	1,132.9	1,129.9	1,155.6	1,154.4	—
52-59	RETAIL TRADE	13,426	13,452	13,933	13,885	13,915	12,112	12,130	12,541	12,487	12,516
53	Retail General Merchandise	2,439.0	2,442.4	2,477.6	2,465.6	—	2,239.1	2,242.7	2,278.4	2,265.1	—
531	Department stores	1,654.1	1,652.8	1,694.8	1,693.7	—	1,528.0	1,526.1	1,571.6	1,570.3	—
532	Mail order houses	108.1	110.0	104.9	104.8	—	100.9	103.0	99.5	99.5	—
533	Variety stores	296.6	299.3	303.0	297.4	—	276.5	279.8	281.6	275.6	—
54	FOOD STORES	2,043.4	2,038.7	2,106.2	2,101.8	—	1,888.3	1,883.3	1,944.7	1,939.5	—
541-3	Grocery, meat, and vegetable stores	1,861.0	1,855.4	1,910.0	1,908.1	—	1,719.8	1,714.5	1,763.6	1,760.5	—

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				
		July 1976	Aug. 1976	June 1977	July _p 1977	Aug. _p 1977	July 1976	Aug. 1976	June 1977	July _p 1977	Aug. _p 1977
WHOLESALE AND RETAIL TRADE—Continued											
56	APPAREL AND ACCESSORY STORES	780.7	780.0	804.8	790.9	—	680.8	679.3	697.2	683.3	—
561	Men's and boys' clothing and furnishings	139.1	136.4	142.2	139.7	—	121.0	118.7	122.6	120.2	—
562	Women's ready-to-wear stores	288.7	290.4	289.0	284.6	—	253.5	254.7	251.7	247.9	—
565	Family clothing stores	122.0	121.6	127.2	125.9	—	110.3	109.3	113.7	111.7	—
566	Shoe stores	159.5	160.2	171.2	165.1	—	133.4	133.8	142.8	136.9	—
57	FURNITURE AND HOME FURNISHINGS STORES	531.5	530.9	547.8	549.8	—	448.6	448.4	460.7	462.1	—
571	Furniture and home furnishings	323.5	322.8	328.5	329.6	—	275.6	274.8	278.7	279.7	—
58	EATING AND DRINKING PLACES	3,713.4	3,749.9	3,950.8	3,949.5	—	3,469.5	3,502.0	3,682.6	3,677.4	—
52,55,59	OTHER RETAIL TRADE	3,918.2	3,910.3	4,045.9	4,027.8	—	3,385.6	3,374.2	3,477.5	3,459.1	—
52	Building materials and farm equipment	647.5	643.3	670.6	676.0	—	556.3	552.4	573.8	579.4	—
55	Automotive dealers and service stations	1,765.7	1,763.5	1,793.8	1,789.7	—	—	—	—	—	—
551.2	Motor vehicle dealers	791.4	789.9	812.1	811.2	—	662.5	660.6	676.2	675.1	—
553.9	Other automotive and accessory dealers	342.5	341.5	354.0	354.6	—	290.5	289.3	300.5	301.2	—
554	Gasoline service stations	631.8	632.1	627.7	623.9	—	—	—	—	—	—
59	Miscellaneous retail stores	1,505.0	1,503.5	1,581.5	1,562.1	—	—	—	—	—	—
591	Drug stores and proprietary stores	472.7	472.9	485.3	481.5	—	421.5	421.8	430.5	427.7	—
594	Book and stationery stores	78.8	79.2	81.4	79.0	—	66.0	66.5	68.5	66.5	—
596	Farm and garden supply stores	138.0	135.1	148.4	144.5	—	—	—	—	—	—
598	Fuel and ice dealers	95.1	95.1	95.2	95.3	—	80.0	79.7	80.1	79.8	—
FINANCE, INSURANCE, AND REAL ESTATE⁴											
		4,368	4,368	4,534	4,564	4,584	3,344	3,345	3,461	3,485	3,492
60	Banking	1,311.3	1,312.8	1,347.4	1,356.8	—	1,035.1	1,036.6	1,053.4	1,061.0	—
61	Credit agencies other than banks	466.5	467.5	498.6	503.7	—	358.4	359.5	385.3	389.9	—
612	Savings and loan associations	188.1	188.9	207.0	209.7	—	152.0	152.5	165.3	167.5	—
614	Personal credit institutions	195.1	194.8	203.6	205.2	—	—	—	—	—	—
62	Security, commodity brokers and services	176.5	176.0	181.6	182.5	—	143.5	144.9	148.3	148.5	—
63	Insurance carriers	1,115.4	1,118.1	1,149.9	1,154.5	—	754.5	756.5	781.0	785.3	—
631	Life insurance	516.1	516.5	519.4	520.4	—	295.8	295.6	294.5	295.8	—
632	Accident and health insurance	122.3	122.3	124.4	124.5	—	100.0	100.2	102.2	102.5	—
633	Fire, marine, and casualty insurance	415.4	417.1	437.6	440.9	—	307.8	309.2	327.7	330.3	—
64	Insurance agents, brokers, and service	342.3	343.4	364.0	367.4	—	—	—	—	—	—
65	Real estate	838.0	833.3	876.9	882.7	—	—	—	—	—	—
655	Subdividers and developers	125.1	122.5	127.2	128.9	—	—	—	—	—	—
656	Operative builders	58.7	58.9	66.4	68.1	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	117.6	116.7	115.9	116.4	—	—	—	—	—	—
SERVICES											
		14,825	14,869	15,458	15,511	15,541	13,349	13,385	13,845	13,853	13,843
70	Hotels and other lodging places	1,194.1	1,211.3	1,121.1	1,182.6	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	932.6	944.1	905.3	920.0	—	867.4	878.5	836.9	851.0	—
72	Personal services	824.1	818.3	812.8	803.9	—	—	—	—	—	—
721	Laundries and dry cleaning plants	357.2	354.1	352.6	352.0	—	320.0	317.2	315.5	314.6	—
722	Photographic studios	42.5	43.4	38.5	38.2	—	37.0	37.9	34.2	34.0	—
73	Miscellaneous business services	2,135.0	2,148.3	2,246.0	2,266.9	—	—	—	—	—	—
731	Advertising	126.2	126.8	134.2	135.4	—	—	—	—	—	—
732	Credit reporting and collection	82.1	82.8	87.6	88.9	—	—	—	—	—	—
734	Services to buildings	410.6	412.5	427.2	427.2	—	—	—	—	—	—
76	Miscellaneous repair services	220.0	219.4	230.3	231.6	—	—	—	—	—	—
78	Motion pictures	217.1	218.2	209.8	219.9	—	—	—	—	—	—
781	Motion picture filming and distributing	66.9	68.3	66.8	70.1	—	52.2	49.0	55.3	58.8	—
782,3	Motion picture theaters and services	150.2	149.9	143.0	149.8	—	—	—	—	—	—
80	Medical and other health services	4,443.4	4,489.6	4,746.1	4,775.8	—	—	—	—	—	—
806	Hospitals	2,373.9	2,408.9	2,503.4	2,517.3	—	2,163.3	2,198.4	2,261.7	2,257.9	—
81	Legal services	382.7	381.3	418.4	425.5	—	—	—	—	—	—
82	Educational services	1,073.0	1,054.2	1,223.3	1,126.7	—	—	—	—	—	—
821	Elementary and secondary schools	343.1	337.3	432.5	378.8	—	—	—	—	—	—
822	Colleges and universities	567.0	552.0	605.2	567.1	—	—	—	—	—	—
89	Miscellaneous services	909.7	914.2	970.2	983.2	—	—	—	—	—	—
891	Engineering and architectural services	414.7	415.8	449.8	453.4	—	—	—	—	—	—
892	Nonprofit research agencies	153.9	155.3	164.9	169.0	—	—	—	—	—	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
—	GOVERNMENT	14,340	14,230	15,288	14,612	14,504	—	—	—	—	—
91	FEDERAL GOVERNMENT ⁵	2,775	2,754	2,765	2,773	2,755	—	—	—	—	—
	Executive	2,724.1	2,704.2	2,712.3	2,720.6	—	—	—	—	—	
	Department of Defense	938.5	929.3	932.0	931.6	—	—	—	—	—	
	Postal Service	670.7	667.8	655.6	657.5	—	—	—	—	—	
	Other agencies	1,114.9	1,107.1	1,124.7	1,131.5	—	—	—	—	—	
	Legislative	39.6	39.5	40.4	40.5	—	—	—	—	—	
	Judicial	11.1	10.2	12.3	12.3	—	—	—	—	—	
92,93	STATE AND LOCAL GOVERNMENT	11,565	11,476	12,523	11,839	11,749	—	—	—	—	
92	State government	3,091.3	3,079.8	3,275.2	3,199.8	—	—	—	—	—	
	State education	1,175.8	1,160.5	1,315.8	1,229.9	—	—	—	—	—	
	Other State government	1,915.5	1,919.3	1,959.4	1,969.9	—	—	—	—	—	
93	Local government	8,474.1	8,396.2	9,248.2	8,638.9	—	—	—	—	—	
	Local education	4,228.1	4,165.0	5,187.9	4,382.6	—	—	—	—	—	
	Other local government	4,246.0	4,231.2	4,060.3	4,256.3	—	—	—	—	—	

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	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
Aug.....	120.9	100.2	122.7	111.6	97.6	132.2	105.6	130.6	121.2	133.8	133.7	145.6	131.4	100.5	141.1
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 p.....	125.1	104.9	134.9	122.1	101.1	136.1	107.2	134.5	124.7	137.9	139.7	151.9	133.7	100.1	144.2
Aug p.....	125.2	104.5	133.6	121.1	100.8	136.5	107.2	134.9	124.9	138.4	140.3	152.7	134.0	100.5	144.5

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	Aug. ^p
TOTAL	79, 618	79, 918	79, 819	80, 106	80, 344	80, 561	80, 824	81, 395	81, 686	81, 921	82, 121	82, 356	82, 448
GOODS-PRODUCING	23, 310	23, 463	23, 323	23, 489	23, 508	23, 589	23, 701	24, 005	24, 217	24, 306	24, 353	24, 409	24, 307
MINING	752	798	800	805	808	817	823	842	847	845	855	827	819
CONTRACT CONSTRUCTION	3, 579	3, 565	3, 582	3, 619	3, 605	3, 561	3, 645	3, 759	3, 842	3, 861	3, 876	3, 916	3, 886
MANUFACTURING	18, 979	19, 100	18, 941	19, 065	19, 095	19, 211	19, 233	19, 404	19, 528	19, 600	19, 622	19, 666	19, 602
DURABLE GOODS	11, 083	11, 146	11, 018	11, 128	11, 158	11, 236	11, 230	11, 370	11, 423	11, 469	11, 491	11, 526	11, 509
Ordnance and accessories	157	156	155	156	156	156	156	156	157	157	157	156	156
Lumber and wood products	605	613	613	621	626	625	626	633	639	638	637	641	640
Furniture and fixtures	486	495	491	491	493	494	497	503	507	509	510	514	503
Stone, clay, and glass products	628	630	630	636	629	631	620	641	651	654	659	661	657
Primary metal industries	1, 215	1, 216	1, 194	1, 186	1, 182	1, 183	1, 178	1, 199	1, 208	1, 217	1, 218	1, 209	1, 206
Fabricated metal products	1, 394	1, 404	1, 387	1, 396	1, 404	1, 413	1, 416	1, 432	1, 433	1, 447	1, 452	1, 457	1, 457
Machinery, except electrical	2, 090	2, 115	2, 078	2, 106	2, 107	2, 125	2, 134	2, 142	2, 150	2, 165	2, 168	2, 191	2, 197
Electrical equipment and supplies	1, 843	1, 848	1, 849	1, 860	1, 863	1, 874	1, 888	1, 906	1, 919	1, 931	1, 933	1, 945	1, 952
Transportation equipment	1, 737	1, 737	1, 695	1, 749	1, 766	1, 790	1, 766	1, 808	1, 808	1, 802	1, 809	1, 810	1, 804
Instruments and related products	510	512	511	514	517	521	524	526	526	526	528	528	524
Miscellaneous manufacturing	418	420	415	413	415	424	425	424	425	423	420	414	413
NONDURABLE GOODS	7, 896	7, 954	7, 923	7, 937	7, 937	7, 975	8, 003	8, 034	8, 105	8, 131	8, 131	8, 140	8, 093
Food and kindred products	1, 715	1, 711	1, 706	1, 711	1, 710	1, 721	1, 727	1, 734	1, 743	1, 735	1, 737	1, 730	1, 720
Tobacco manufactures	78	76	76	75	75	74	73	68	73	71	72	72	72
Textile mill products	969	971	961	960	957	958	964	973	981	988	987	992	979
Apparel and other textile products	1, 292	1, 281	1, 273	1, 276	1, 271	1, 278	1, 280	1, 283	1, 291	1, 298	1, 306	1, 301	1, 286
Paper and allied products	679	681	677	680	680	684	688	688	697	703	703	707	705
Printing and publishing	1, 082	1, 086	1, 087	1, 089	1, 089	1, 090	1, 095	1, 097	1, 102	1, 109	1, 111	1, 115	1, 115
Chemicals and allied products	1, 040	1, 035	1, 032	1, 038	1, 041	1, 044	1, 050	1, 051	1, 060	1, 063	1, 060	1, 064	1, 067
Petroleum and coal products	202	202	202	203	204	205	205	207	211	210	210	210	210
Rubber and plastics products, nec	572	643	645	642	647	656	656	666	680	685	680	684	675
Leather and leather products	267	268	264	263	263	265	265	267	267	269	265	265	264
SERVICE-PRODUCING	56, 308	56, 455	56, 496	56, 617	56, 836	56, 972	57, 123	57, 390	57, 469	57, 615	57, 768	57, 947	58, 141
TRANSPORTATION AND PUBLIC UTILITIES	4, 501	4, 528	4, 506	4, 519	4, 553	4, 549	4, 553	4, 568	4, 575	4, 586	4, 579	4, 569	4, 567
WHOLESALE AND RETAIL TRADE ..	17, 764	17, 839	17, 824	17, 808	17, 898	17, 981	18, 067	18, 189	18, 203	18, 235	18, 247	18, 295	18, 359
WHOLESALE TRADE	4, 272	4, 283	4, 292	4, 291	4, 304	4, 323	4, 334	4, 354	4, 371	4, 384	4, 383	4, 396	4, 402
RETAIL TRADE	13, 492	13, 556	13, 532	13, 517	13, 594	13, 658	13, 733	13, 835	13, 832	13, 851	13, 864	13, 899	13, 957
FINANCE, INSURANCE, AND REAL ESTATE	4, 312	4, 338	4, 359	4, 381	4, 403	4, 423	4, 431	4, 453	4, 463	4, 480	4, 489	4, 505	4, 525
SERVICES	14, 751	14, 798	14, 819	14, 873	14, 936	15, 010	15, 068	15, 149	15, 182	15, 197	15, 245	15, 342	15, 418
Hotels and other lodging places	1, 061	1, 068	1, 069	1, 071	1, 090	1, 099	1, 084	1, 090	1, 092	1, 071	1, 061	1, 050	-
Personal services	823	817	814	809	808	808	807	809	809	805	805	803	-
Medical and other health services	4, 476	4, 505	4, 519	4, 648	4, 577	4, 584	4, 603	4, 629	4, 658	4, 681	4, 722	4, 747	-
Educational services	1, 252	1, 266	1, 283	1, 277	1, 271	1, 269	1, 282	1, 288	1, 290	1, 287	1, 284	1, 310	-
GOVERNMENT	14, 980	14, 952	14, 988	15, 036	15, 046	15, 009	15, 004	15, 031	15, 046	15, 117	15, 208	15, 236	15, 272
FEDERAL	2, 732	2, 728	2, 730	2, 734	2, 720	2, 721	2, 721	2, 725	2, 719	2, 723	2, 735	2, 721	2, 733
STATE AND LOCAL	12, 248	12, 224	12, 258	12, 302	12, 326	12, 288	12, 283	12, 306	12, 327	12, 394	12, 473	12, 515	12, 539

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL	53, 151	53, 474	53, 309	53, 498	53, 672	53, 813	54, 965	54, 534	54, 771	54, 911	54, 932	55, 060	55, 022
GOODS-PRODUCING	17, 029	17, 180	17, 032	17, 172	17, 158	17, 190	17, 287	17, 568	17, 771	17, 858	17, 874	17, 914	17, 756
MINING	561	605	605	612	613	609	617	637	640	637	644	626	608
CONTRACT CONSTRUCTION	2, 841	2, 826	2, 852	2, 855	2, 854	2, 780	2, 860	2, 973	3, 065	3, 076	3, 086	3, 127	3, 090
MANUFACTURING	13, 627	13, 749	13, 575	13, 675	13, 691	13, 801	13, 810	13, 958	14, 066	14, 145	14, 144	14, 161	14, 058
DURABLE GOODS	7, 911	7, 975	7, 833	7, 929	7, 955	8, 026	8, 011	8, 128	8, 177	8, 233	8, 240	8, 262	8, 221
Ordnance and accessories	71	70	69	69	70	70	70	69	72	73	73	72	72
Lumber and wood products	507	515	515	522	528	529	531	538	543	543	543	545	545
Furniture and fixtures	398	408	403	403	406	403	408	413	418	420	420	421	413
Stone, clay, and glass products	499	503	501	506	500	501	488	510	519	522	527	529	526
Primary metal industries	956	959	934	926	923	923	917	938	944	954	954	949	942
Fabricated metal products	1, 051	1, 062	1, 044	1, 051	1, 059	1, 069	1, 071	1, 083	1, 085	1, 099	1, 103	1, 104	1, 101
Machinery, except electrical	1, 350	1, 370	1, 329	1, 357	1, 358	1, 373	1, 378	1, 384	1, 387	1, 407	1, 407	1, 431	1, 411
Electrical equipment and supplies	1, 222	1, 224	1, 224	1, 232	1, 231	1, 237	1, 250	1, 265	1, 277	1, 289	1, 288	1, 292	1, 299
Transportation equipment	1, 228	1, 230	1, 186	1, 236	1, 251	1, 278	1, 251	1, 281	1, 284	1, 278	1, 281	1, 281	1, 281
Instruments and related products	311	312	311	312	315	318	320	321	322	323	323	323	318
Miscellaneous manufacturing	318	322	317	315	314	325	327	326	326	325	321	315	313
NONDURABLE GOODS	5, 716	5, 774	5, 742	5, 746	5, 736	5, 775	5, 799	5, 830	5, 889	5, 912	5, 904	5, 899	5, 837
Food and kindred products	1, 168	1, 164	1, 159	1, 161	1, 156	1, 169	1, 175	1, 183	1, 190	1, 183	1, 184	1, 176	1, 156
Tobacco manufactures	65	63	63	63	62	60	60	56	60	57	58	57	57
Textile mill products	845	848	838	835	833	835	840	848	856	863	860	865	852
Apparel and other textile products	1, 109	1, 100	1, 091	1, 093	1, 089	1, 096	1, 098	1, 100	1, 108	1, 115	1, 122	1, 114	1, 100
Paper and allied products	514	515	512	515	514	517	517	517	524	529	529	532	529
Printing and publishing	629	632	632	632	631	631	635	635	639	644	642	642	641
Chemicals and allied products	595	589	588	590	590	594	601	602	608	612	609	611	612
Petroleum and coal products	130	130	131	132	132	133	132	135	138	138	138	138	138
Rubber and plastics products, nec	432	504	502	501	505	513	514	525	537	540	535	537	526
Leather and leather products	229	229	226	224	224	227	227	229	229	231	227	227	226
SERVICE-PRODUCING	36, 122	36, 294	36, 277	36, 326	36, 514	36, 623	36, 778	36, 966	37, 000	37, 053	37, 058	37, 146	37, 266
TRANSPORTATION AND PUBLIC UTILITIES	3, 854	3, 877	3, 856	3, 861	3, 900	3, 882	3, 878	3, 890	3, 897	3, 907	3, 899	3, 881	3, 876
WHOLESALE AND RETAIL TRADE ..	15, 700	15, 771	15, 761	15, 734	15, 792	15, 876	15, 974	16, 071	16, 077	16, 109	16, 102	16, 136	16, 183
WHOLESALE TRADE	3, 534	3, 547	3, 554	3, 553	3, 562	3, 572	3, 584	3, 602	3, 618	3, 630	3, 623	3, 624	3, 629
RETAIL TRADE	12, 166	12, 224	12, 207	12, 181	12, 230	12, 304	12, 390	12, 469	12, 459	12, 479	12, 479	12, 512	12, 554
FINANCE, INSURANCE, AND REAL ESTATE	3, 289	3, 309	3, 325	3, 345	3, 364	3, 374	3, 382	3, 396	3, 402	3, 410	3, 417	3, 427	3, 434
SERVICES	13, 279	13, 337	13, 335	13, 386	13, 458	13, 491	13, 544	13, 609	13, 624	13, 627	13, 640	13, 702	13, 773

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 which employment¹ 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	77.6p
February	61.6	84.6	86.6	73.3p
March	79.7	86.0	83.7	
April	79.1	83.7	82.3p	
May	68.9	71.5	73.5p	
June	57.8	64.0p		
July	67.7p	49.4p		
August	40.7p			
September				
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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
1 ALABAMA	1,216.4	1,265.5	1,268.0	14.0	15.3	15.2	68.2	75.7	76.7	338.7	356.9	352.5
2 Birmingham	323.7	330.7	(*)	8.4	8.7	(*)	21.5	22.3	(*)	66.2	67.6	(*)
3 Huntsville	104.9	106.1	(*)	(1)	(1)	(*)	3.9	3.9	(*)	28.8	30.8	(*)
4 Mobile	134.0	135.3	135.1	(1)	(1)	(1)	9.8	10.8	11.0	28.0	26.1	26.7
5 Montgomery	90.2	91.3	(*)	(1)	(1)	(*)	6.0	6.0	(*)	13.7	14.3	(*)
6 Tuscaloosa	45.1	47.5	(*)	.7	.9	(*)	3.4	3.4	(*)	9.0	10.6	(*)
7 ALASKA	188.8	159.0	(*)	4.3	5.4	(*)	38.7	18.1	(*)	14.1	13.5	(*)
8 ARIZONA	748.0	777.6	769.3	24.5	26.0	19.7	40.5	47.8	48.6	105.4	112.0	110.8
9 Phoenix	443.3	465.5	465.4	.5	.5	.5	23.1	28.2	28.5	77.0	82.7	83.4
10 Tucson	144.9	148.8	146.8	7.5	8.4	7.1	8.6	9.8	9.9	12.6	13.1	13.1
11 ARKANSAS	657.1	700.7	(*)	4.9	5.2	(*)	36.9	37.2	(*)	198.4	213.2	(*)
12 Fayetteville-Springdale	51.0	53.9	(*)	(1)	(1)	(*)	2.7	2.8	(*)	16.1	16.6	(*)
13 Fort Smith	58.7	62.6	(*)	.5	.5	(*)	2.6	2.6	(*)	20.4	23.9	(*)
14 Little Rock-North Little Rock	157.2	164.9	(*)	(1)	(1)	(*)	8.6	9.8	(*)	28.2	30.7	(*)
15 Pine Bluff	25.9	26.4	(*)	(1)	(1)	(*)	1.2	1.2	(*)	5.8	6.1	(*)
16 CALIFORNIA	8,134.4	8,565.7	8,515.5	35.7	36.1	36.7	322.6	377.0	379.4	1,661.9	1,688.1	1,700.9
17 Anaheim-Santa Ana-Garden Grove	611.9	646.7	644.1	1.9	2.0	2.0	30.1	39.2	38.9	162.3	166.2	167.6
18 Bakersfield	110.4	112.0	112.2	8.9	8.9	8.9	4.4	4.7	4.7	8.9	8.8	8.7
19 Fresno	157.8	164.4	165.5	.8	.8	.8	7.7	8.8	8.8	22.2	22.0	23.1
20 Los Angeles-Long Beach	3,103.5	3,246.1	3,229.7	11.4	11.4	11.5	98.8	105.4	106.0	790.6	823.6	820.4
21 Modesto	74.4	77.1	78.1	.1	.1	.1	4.5	5.0	5.1	18.9	16.0	17.8
22 Oxnard-Simi Valley-Ventura	115.7	120.3	118.4	2.1	2.1	2.2	4.8	4.6	4.8	17.5	17.9	17.7
23 Riverside-San Bernardino-Ontario	339.8	356.8	351.8	2.4	2.4	2.5	13.5	14.4	14.3	54.4	53.9	54.3
24 Sacramento	331.7	349.5	348.7	.3	.3	.3	14.0	16.1	16.3	23.6	23.5	23.5
25 Selinas-Seaside-Monterey	74.9	79.7	78.7	.6	.6	.6	2.7	3.1	3.1	8.4	9.4	9.2
26 San Diego	488.8	516.0	513.4	.8	.8	.8	26.6	29.7	30.5	72.7	73.4	74.8
27 San Francisco-Oakland	1,260.8	1,393.6	1,390.4	2.2	2.3	2.3	58.3	61.1	61.7	187.4	186.1	187.5
28 San Jose	495.9	513.5	520.6	.1	.1	.1	17.3	19.0	19.0	167.8	167.0	173.0
29 Santa Barbara-Santa Maria-Lompoc	99.8	105.2	101.8	1.0	1.0	1.0	3.6	3.5	3.5	13.2	14.3	14.1
30 Santa Rosa	69.5	72.3	72.4	.4	.4	.4	3.9	4.0	4.0	10.1	10.0	10.3
31 Stockton	101.9	106.5	105.6	.1	.1	.1	3.7	4.2	4.2	18.8	18.4	18.6
32 Vallejo-Fairfield-Napa	85.8	88.6	88.7	.2	.2	.2	3.4	3.2	3.3	9.0	8.4	8.8
33 COLORADO	980.3	1,007.4	(*)	20.6	22.7	(*)	58.4	60.9	(*)	141.0	143.9	(*)
34 Denver-Boulder	617.9	635.6	(*)	8.2	9.5	(*)	37.7	40.7	(*)	94.9	98.3	(*)
35 CONNECTICUT	1,241.6	1,273.3	(*)	(3)	(3)	(*)	43.5	43.1	(*)	393.5	405.6	(*)
36 Bridgeport	145.1	147.1	(*)	(3)	(3)	(*)	4.3	4.1	(*)	58.1	59.5	(*)
37 Hartford	341.5	348.7	(*)	(3)	(3)	(*)	11.7	10.2	(*)	84.3	84.4	(*)
38 New Britain	51.9	56.6	(*)	(3)	(3)	(*)	2.0	2.2	(*)	23.7	26.6	(*)
39 New Haven-West Haven	170.0	173.8	(*)	(3)	(3)	(*)	5.8	5.1	(*)	41.6	43.4	(*)
40 Stamford	91.8	95.1	(*)	(3)	(3)	(*)	3.4	3.4	(*)	28.4	27.7	(*)
41 Waterbury	78.5	83.5	(*)	(3)	(3)	(*)	2.6	2.3	(*)	30.2	33.2	(*)
42 DELAWARE	236.9	238.2	237.6	(1)	(1)	(1)	14.6	15.0	15.1	69.5	69.2	70.1
43 Wilmington	204.4	208.5	208.2	(1)	(1)	(1)	11.9	13.6	13.7	64.7	64.5	65.5
44 DISTRICT OF COLUMBIA	591.1	580.9	(*)	(1)	(1)	(*)	17.2	18.2	(*)	15.5	15.5	(*)
45 Washington SMSA	1,289.9	1,401.5	(*)	(1)	(1)	(*)	74.7	76.5	(*)	49.4	50.2	(*)
46 FLORIDA	2,721.6	2,871.7	2,831.1	9.0	9.5	9.2	168.1	182.1	184.9	337.8	358.7	356.2
47 Fort Lauderdale-Hollywood	234.4	242.1	241.1	(1)	(1)	(1)	17.0	18.1	18.8	25.1	27.7	27.6
48 Jacksonville	255.8	262.7	261.4	(1)	(1)	(1)	14.7	15.2	15.4	29.7	29.8	30.3
49 Miami	583.5	586.7	586.1	(1)	(1)	(1)	24.4	23.9	24.1	83.4	88.1	86.8
50 Orlando	209.3	215.1	212.9	(1)	(1)	(1)	11.5	11.9	11.9	24.9	25.7	25.8
51 Pensacola	86.4	90.3	90.8	(1)	(1)	(1)	6.0	7.1	7.1	13.7	14.1	14.0
52 Tampa-St. Petersburg	412.2	421.3	418.4	(1)	(1)	(1)	28.6	27.2	27.8	55.6	58.3	57.7
53 West Palm Beach-Boca Raton	138.8	146.9	145.0	(1)	(1)	(1)	9.4	9.9	10.0	17.6	19.3	19.3
54 GEORGIA	1,845.2	1,927.3	1,918.5	7.1	7.4	7.3	86.6	98.8	99.0	476.1	493.6	486.8
55 Atlanta	776.2	791.6	786.7	(1)	(1)	(1)	32.9	34.0	33.8	125.2	128.3	124.6
56 Augusta	107.4	111.0	111.9	(1)	(1)	(1)	6.6	8.2	8.5	35.3	35.7	35.9
57 Columbus	76.9	76.4	78.2	(1)	(1)	(1)	4.4	4.4	4.4	19.8	20.8	20.6
58 Macon	91.4	93.5	93.3	(1)	(1)	(1)	5.3	5.9	5.6	16.6	16.5	16.6
59 Savannah	75.3	78.8	78.8	(1)	(1)	(1)	4.8	5.1	5.3	15.6	16.3	16.0
60 HAWAII	347.9	351.3	354.7	(1)	(1)	(1)	23.7	22.4	22.7	28.1	26.6	28.1
61 Honolulu	292.2	295.5	297.7	(1)	(1)	(1)	19.9	19.1	19.4	21.2	20.1	21.4

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	
63.2	66.8	66.8	244.7	254.5	255.8	53.3	54.8	55.5	176.4	182.3	183.2	257.9	259.2	262.3	1
24.0	25.0	(*)	77.5	78.9	(*)	20.8	21.0	(*)	56.3	57.0	(*)	49.0	50.2	(*)	2
2.3	2.2	(*)	19.9	20.1	(*)	2.8	2.9	(*)	15.5	15.6	(*)	31.7	30.5	(*)	3
10.3	10.2	10.0	32.1	33.1	33.0	6.1	6.3	6.4	26.4	26.4	26.5	21.3	22.4	21.5	4
4.3	4.2	(*)	20.8	21.0	(*)	5.3	5.3	(*)	16.4	16.8	(*)	23.7	23.6	(*)	5
1.8	1.8	(*)	8.6	9.0	(*)	1.5	1.5	(*)	4.8	5.0	(*)	15.3	15.3	(*)	6
16.5	16.3	(*)	29.1	26.9	(*)	7.6	7.6	(*)	30.6	25.3	(*)	47.9	45.9	(*)	7
35.7	40.6	40.4	182.4	186.9	186.5	42.7	44.2	44.4	143.9	147.9	148.7	168.9	172.2	170.2	8
23.7	24.4	24.3	117.4	121.5	120.9	32.8	34.1	34.2	85.0	88.6	88.3	83.8	85.5	85.3	9
7.8	7.6	7.6	32.9	33.0	33.0	5.9	6.0	6.1	29.4	30.2	30.1	40.2	40.7	39.9	10
38.3	38.6	(*)	143.4	148.6	(*)	28.7	30.3	(*)	95.3	99.8	(*)	111.2	127.8	(*)	11
3.1	2.5	(*)	12.1	13.1	(*)	1.9	2.0	(*)	7.1	7.4	(*)	8.0	9.1	(*)	12
3.2	3.3	(*)	13.2	13.5	(*)	2.1	2.2	(*)	10.1	10.4	(*)	6.6	6.2	(*)	13
11.1	11.1	(*)	37.2	37.8	(*)	11.5	12.2	(*)	28.4	29.3	(*)	32.2	34.0	(*)	14
3.4	3.4	(*)	5.5	5.4	(*)	1.1	1.2	(*)	4.0	4.1	(*)	4.9	5.0	(*)	15
472.8	483.1	485.8	1,882.2	1,985.5	1,980.9	472.6	492.9	496.4	1,627.6	1,709.3	1,712.9	1,659.0	1,793.7	1,722.5	18
18.9	19.5	19.9	148.3	157.7	158.3	33.1	35.8	36.2	117.2	122.3	122.8	100.1	103.6	98.4	17
6.8	7.0	7.0	28.2	28.6	28.8	3.9	3.9	3.9	17.6	18.3	18.2	31.7	31.8	32.0	18
9.2	9.1	9.3	43.3	44.4	45.6	7.7	8.2	8.2	30.1	29.7	32.3	36.8	41.4	37.4	19
177.3	179.0	182.0	712.9	750.1	748.6	189.2	197.7	199.4	647.6	680.5	680.5	475.7	498.4	481.3	20
3.2	3.3	3.4	17.0	19.1	19.3	2.0	2.1	2.1	13.3	14.0	13.7	15.4	17.5	16.6	21
4.6	4.8	4.7	28.1	28.7	28.8	4.5	4.5	4.5	20.3	20.6	20.7	33.8	37.1	35.0	22
19.3	19.9	20.0	81.7	84.8	84.2	13.5	13.9	13.9	69.4	72.9	71.8	85.6	94.6	90.8	23
17.6	18.0	18.3	75.5	79.9	80.5	15.1	16.2	16.4	56.8	59.9	59.8	128.8	135.6	133.6	24
4.3	4.6	4.6	20.0	20.6	20.6	3.3	3.3	3.4	15.2	15.4	15.5	20.4	22.7	21.7	25
23.2	24.2	24.3	115.1	119.8	120.5	26.5	28.0	28.1	105.8	106.1	111.5	118.1	134.0	122.9	26
121.5	120.5	122.1	304.2	313.4	311.6	116.5	117.7	118.2	277.7	285.2	285.0	293.0	307.3	302.0	27
18.2	18.5	19.0	97.0	102.1	102.2	20.1	21.0	21.2	102.4	107.6	109.6	73.0	77.8	76.5	28
3.4	3.4	3.4	24.6	25.4	25.4	4.4	4.4	4.4	24.7	25.0	24.8	24.9	28.2	25.2	29
3.4	3.5	3.6	16.5	17.9	18.0	3.7	4.0	4.0	13.1	13.3	13.4	18.0	19.2	18.7	30
7.5	7.6	7.6	24.2	25.2	25.2	4.1	4.1	4.2	18.9	19.8	20.0	24.6	27.1	25.7	31
4.2	4.2	4.2	16.2	16.6	16.7	2.6	2.7	2.7	14.8	15.3	15.7	35.4	38.0	37.1	32
61.4	63.2	(*)	236.7	241.9	(*)	59.8	60.7	(*)	198.1	197.6	(*)	204.4	216.5	(*)	33
40.8	42.4	(*)	156.1	158.2	(*)	44.8	44.9	(*)	127.5	125.9	(*)	107.8	115.8	(*)	34
51.3	53.8	(*)	254.2	262.4	(*)	89.0	90.5	(*)	235.2	240.9	(*)	174.9	177.0	(*)	35
5.3	5.5	(*)	29.0	29.1	(*)	6.1	6.0	(*)	26.0	25.4	(*)	16.3	17.6	(*)	36
12.1	12.5	(*)	71.7	74.8	(*)	50.6	52.0	(*)	60.9	63.6	(*)	50.4	50.8	(*)	37
1.3	1.3	(*)	9.1	9.5	(*)	1.6	1.6	(*)	8.3	8.7	(*)	6.0	6.8	(*)	38
13.2	13.7	(*)	36.1	37.1	(*)	9.7	9.8	(*)	41.1	41.5	(*)	22.5	23.2	(*)	39
3.2	3.3	(*)	20.5	22.1	(*)	6.1	6.3	(*)	20.6	21.6	(*)	9.6	10.7	(*)	40
2.8	3.0	(*)	14.6	15.3	(*)	2.8	2.9	(*)	15.0	15.8	(*)	10.6	11.1	(*)	41
11.9	12.2	12.1	51.1	51.7	51.8	11.1	11.1	11.1	39.8	39.2	39.3	38.9	39.8	38.1	42
10.5	10.7	10.6	41.9	42.7	42.7	10.1	10.1	10.1	34.4	34.2	34.2	30.9	32.7	31.4	43
29.3	29.2	(*)	65.6	66.5	(*)	33.7	32.8	(*)	147.3	149.7	(*)	282.5	269.0	(*)	44
66.7	66.5	(*)	265.0	271.5	(*)	79.2	80.8	(*)	324.2	332.0	(*)	530.7	523.6	(*)	45
181.8	187.5	187.0	705.5	737.9	739.8	189.2	191.7	193.0	602.8	626.9	623.8	527.4	577.4	537.2	46
13.4	13.2	13.3	65.8	65.4	64.8	19.4	21.0	21.0	58.8	57.0	59.8	34.9	39.6	35.8	47
20.9	21.4	21.1	68.5	70.4	70.9	26.8	26.5	26.6	47.6	48.5	48.4	47.6	50.9	48.7	48
58.6	58.7	58.9	147.1	148.9	148.6	43.5	43.8	44.1	138.5	139.3	136.6	88.0	84.0	87.0	49
11.6	11.7	11.6	59.4	60.0	59.9	14.0	14.3	14.3	54.7	56.1	56.2	33.2	35.4	33.2	50
4.3	4.4	4.4	20.3	21.5	21.9	3.5	3.7	3.7	15.3	16.3	16.4	23.3	23.2	23.3	51
26.4	26.6	26.7	118.3	117.6	117.1	29.0	29.7	30.0	90.3	91.9	91.1	64.0	69.8	68.0	52
6.6	6.7	6.7	37.5	38.7	38.5	10.7	11.4	11.3	32.7	34.9	34.4	24.3	26.0	24.8	53
118.8	121.1	121.8	422.0	436.3	438.1	99.8	100.7	100.9	281.8	296.3	297.2	353.1	373.1	367.3	54
69.5	70.7	70.9	219.3	222.3	222.4	57.7	57.4	57.6	145.4	147.0	146.7	126.1	131.8	130.8	55
4.1	4.1	4.2	18.2	18.6	18.9	3.7	3.7	3.8	13.3	13.8	13.9	26.3	26.9	26.8	56
3.0	3.0	3.0	15.9	15.4	15.8	4.6	4.7	4.8	10.0	10.4	10.5	19.2	17.9	19.1	57
4.2	4.2	4.2	17.0	16.3	16.5	5.4	5.4	5.4	14.7	15.6	15.5	28.2	29.6	29.4	58
8.3	8.4	8.5	17.9	18.4	18.4	3.8	3.8	3.8	12.5	12.9	13.0	12.3	14.0	13.9	59
26.2	26.0	26.4	86.6	87.6	88.3	24.0	24.6	24.8	73.9	77.3	77.4	85.4	86.8	87.0	60
22.1	21.9	22.2	73.9	74.6	75.3	21.7	22.1	22.3	60.8	63.6	63.7	72.6	74.1	73.4	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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
1 IDAHO ¹	299.3	309.5	312.0	3.4	3.4	3.4	19.8	20.6	22.3	54.1	55.4	54.9
2 Boise City ¹	67.3	70.8	71.1	(1)	(1)	(1)	5.5	5.9	6.0	7.0	7.4	7.6
3 ILLINOIS	4,495.8	4,609.1	4,603.8	27.7	28.0	28.2	193.4	187.5	194.6	1,196.0	1,234.9	1,223.1
4 Bloomington—Normal	43.1	46.9	47.0	(3)	(3)	(3)	1.3	1.4	1.5	6.7	7.5	7.5
5 Champaign—Urbana—Rantoul	63.4	63.5	63.1	(3)	(3)	(3)	3.5	3.3	3.4	6.3	6.3	6.3
6 Chicago—Gary	3,253.3	(*)	(*)	4.5	(*)	(*)	129.5	(*)	(*)	899.3	(*)	(*)
7 Chicago SMSA ²	3,010.7	3,112.0	3,119.5	4.4	4.4	4.4	116.1	118.7	122.0	800.3	835.6	833.6
8 Davenport—Rock Island—Moline	152.5	154.1	153.7	(3)	(3)	(3)	6.2	5.7	5.9	49.2	50.1	50.2
9 Decatur	51.1	53.3	52.6	(3)	(3)	(3)	3.5	3.5	3.8	18.0	18.7	18.6
10 Peoria	144.5	145.4	144.8	(3)	(3)	(3)	9.3	9.1	9.5	50.5	49.4	49.9
11 Rockford	111.5	116.8	115.4	(3)	(3)	(3)	3.6	3.6	3.8	50.8	53.1	52.6
12 Springfield	78.7	80.4	80.0	(3)	(3)	(3)	3.9	4.4	4.5	8.4	8.7	8.7
13 INDIANA	2,033.6	2,092.7	2,086.7	8.5	8.5	8.5	86.2	87.1	89.0	681.6	710.6	704.9
14 Anderson	49.6	50.7	(*)	(1)	(1)	(*)	1.2	1.1	(*)	24.4	25.3	(*)
15 Evansville	111.6	114.3	(*)	2.2	2.4	(*)	5.7	5.4	(*)	34.8	37.4	(*)
16 Fort Wayne	155.2	162.1	161.9	(1)	(1)	(1)	5.5	6.6	6.7	55.6	59.1	59.3
17 Gary—Hammond—East Chicago ³	242.6	247.2	249.1	(1)	(1)	(1)	13.4	14.2	14.6	59.0	101.9	101.3
18 Indianapolis	464.0	477.5	479.5	(1)	(1)	(1)	18.4	18.4	18.9	118.2	124.3	124.4
19 Lafayette—West Lafayette	48.6	50.2	51.0	(1)	(1)	(1)	1.7	2.0	2.1	10.8	11.8	11.8
20 Muncie	45.3	49.7	48.5	(1)	(1)	(1)	1.8	1.9	2.0	13.9	15.2	15.2
21 South Bend	102.0	103.4	103.6	(1)	(1)	(1)	4.3	4.3	4.5	31.2	32.8	32.6
22 Terre Haute	57.3	58.1	57.9	1.2	1.1	1.2	2.2	2.3	2.4	15.9	15.8	16.1
23 IOWA ²	1,012.5	1,035.4	(*)	3.0	3.0	(*)	53.2	47.4	(*)	232.2	239.5	(*)
24 Cedar Rapids ²	75.2	76.3	(*)	(1)	(1)	(*)	3.3	2.6	(*)	27.9	27.7	(*)
25 Des Moines ²	153.9	158.3	(*)	(1)	(1)	(*)	7.7	4.1	(*)	20.3	24.0	(*)
26 Dubuque ²	39.2	41.3	(*)	(1)	(1)	(*)	1.3	1.3	(*)	16.3	16.6	(*)
27 Sioux City ²	49.7	49.5	(*)	(1)	(1)	(*)	3.8	4.4	(*)	11.9	10.7	(*)
28 Waterloo—Cedar Falls ²	57.2	58.2	(*)	(1)	(1)	(*)	2.3	2.4	(*)	20.7	20.5	(*)
29 KANSAS	820.4	863.9	854.1	10.9	11.6	11.7	45.3	47.4	48.2	157.0	169.7	168.4
30 Topeka	75.2	80.6	80.0	.2	.2	.2	3.5	3.5	3.7	7.7	11.5	11.4
31 Wichita	166.4	176.6	175.9	1.7	1.8	1.9	9.6	10.8	11.0	45.8	52.5	52.4
32 KENTUCKY	1,117.5	1,151.1	(*)	47.6	48.4	(*)	59.7	63.4	(*)	273.2	280.0	(*)
33 Lexington—Fayette	124.8	130.0	(*)	(1)	(1)	(*)	7.0	7.2	(*)	28.6	28.8	(*)
34 Louisville	363.8	369.5	(*)	(1)	(1)	(*)	16.4	16.8	(*)	105.8	107.4	(*)
35 LOUISIANA	1,201.6	1,305.2	1,303.9	63.3	64.7	65.1	111.3	116.4	115.6	191.2	198.6	197.7
36 Alexandria	44.3	45.2	45.0	(1)	(1)	(1)	2.9	2.9	2.8	5.6	6.1	5.9
37 Baton Rouge	167.8	172.4	173.1	1.0	1.0	1.0	22.3	23.8	23.3	24.0	24.9	24.8
38 Lafayette	52.6	53.9	53.5	8.3	8.6	8.7	3.7	3.7	3.8	3.0	2.9	2.9
39 Lake Charles	51.7	52.2	52.8	1.6	1.6	1.6	5.1	5.5	5.7	11.2	11.3	11.5
40 Monroe	42.9	42.1	(*)	.3	.4	(*)	3.5	3.9	(*)	7.3	7.4	(*)
41 New Orleans	436.1	443.5	441.5	14.9	15.3	15.4	27.0	26.9	27.0	52.9	53.6	53.3
42 Shreveport	128.6	130.7	132.2	4.6	4.7	4.7	8.1	7.8	7.7	25.0	27.2	27.3
43 MAINE	381.7	396.1	394.5	(1)	(1)	(1)	25.4	24.2	25.5	100.5	107.9	103.2
44 Lewiston—Auburn	30.8	33.3	31.6	(1)	(1)	(1)	1.4	1.3	1.4	10.5	12.7	11.4
45 Portland	80.7	83.0	82.6	(1)	(1)	(1)	4.6	4.3	4.5	15.0	14.7	14.8
46 MARYLAND	1,517.6	1,549.9	1,547.2	1.8	1.8	1.8	99.8	100.3	102.8	234.9	237.8	234.9
47 Baltimore	860.0	873.9	875.8	(1)	(1)	(1)	48.3	49.2	50.5	162.6	165.1	162.2
48 MASSACHUSETTS	2,207.7	2,381.6	2,365.5	(1)	(1)	(1)	77.7	73.3	74.5	579.6	616.9	600.8
49 Boston	1,259.1	1,278.3	1,270.2	(1)	(1)	(1)	45.9	41.7	43.2	252.5	261.6	257.1
50 Brockton	49.2	51.3	51.2	-	-	-	1.7	1.6	1.6	11.3	12.1	11.7
51 Fall River	50.6	52.2	52.1	(1)	(1)	(1)	1.5	1.4	1.4	19.8	20.9	20.2
52 Lawrence—Haverhill	93.6	96.9	95.7	(1)	(1)	(1)	2.6	2.6	2.7	35.8	37.8	36.7
53 Lowell	61.7	63.7	62.8	(1)	(1)	(1)	2.6	2.5	2.6	20.7	22.1	21.6
54 New Bedford	59.2	62.2	61.3	(1)	(1)	(1)	1.6	1.6	1.6	73.2	25.4	24.2
55 Springfield—Chicopee—Holyoke	208.7	215.4	214.0	(1)	(1)	(1)	5.6	5.6	5.5	61.9	65.0	64.1
56 Worcester	144.1	148.4	145.8	(1)	(1)	(1)	4.1	3.9	3.9	43.3	45.6	44.5
57 MICHIGAN	3,223.4	3,443.2	(*)	13.8	14.5	(*)	113.6	131.6	(*)	1,019.9	1,117.6	(*)
58 Ann Arbor	114.8	121.7	(*)	(1)	(1)	(*)	3.0	2.8	(*)	36.0	40.2	(*)
59 Battle Creek	63.3	65.3	(*)	(1)	(1)	(*)	1.8	1.7	(*)	23.2	23.7	(*)
60 Bay City	33.9	35.5	(*)	(1)	(1)	(*)	1.3	1.6	(*)	10.0	10.8	(*)
61 Detroit	1,605.9	1,706.7	(*)	1.4	1.2	(*)	52.5	62.9	(*)	523.8	578.2	(*)
62 Flint	173.8	193.6	(*)	(1)	(1)	(*)	5.3	6.7	(*)	70.7	84.0	(*)
63 Grand Rapids	224.3	238.9	(*)	(1)	(1)	(*)	9.1	10.4	(*)	75.4	83.1	(*)

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			
JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	
17.3	18.1	18.1	72.5	76.5	76.4	15.7	16.1	16.3	50.5	53.0	53.3	66.0	66.4	67.3	1
4.0	4.3	4.4	17.9	18.8	18.9	5.2	5.7	5.8	11.4	12.0	12.1	15.9	16.7	16.3	2
276.3	280.1	276.6	1,034.5	1,058.6	1,054.9	260.1	265.3	267.0	822.2	832.5	845.1	685.7	722.3	714.3	3
3.1	3.0	2.9	10.4	10.9	11.1	6.7	6.8	6.5	7.0	7.2	7.1	8.0	10.1	9.8	4
2.6	2.6	2.5	14.2	14.3	14.2	2.0	2.0	2.1	9.4	9.8	9.8	25.5	25.2	25.0	5
202.1	(*)	(*)	750.0	(*)	(*)	205.0	(*)	(*)	621.2	(*)	(*)	441.8	(*)	(*)	6
187.9	188.9	190.2	706.6	740.0	736.0	197.1	198.4	199.8	590.2	595.5	604.6	408.1	430.5	428.9	7
7.7	7.7	7.6	37.3	38.4	38.3	6.4	6.4	6.4	19.9	20.2	20.2	25.8	25.6	25.2	8
4.1	4.2	3.8	9.6	10.2	10.2	2.3	2.4	2.4	9.2	9.3	9.4	4.4	5.1	4.5	9
7.7	7.9	7.0	32.1	32.6	32.6	6.7	6.9	7.0	23.9	25.1	25.0	14.4	14.3	13.8	10
4.4	4.5	4.9	22.4	23.3	23.3	3.4	3.4	3.4	16.0	16.3	16.5	10.9	12.1	10.9	11
5.1	5.3	4.9	15.6	15.5	15.5	6.6	6.7	6.7	13.4	14.3	14.3	25.7	25.5	25.4	12
101.7	104.5	104.4	438.0	450.7	450.4	92.4	92.8	93.3	288.9	292.9	292.4	336.3	345.6	343.6	13
1.4	1.3	(*)	9.2	9.1	(*)	1.5	1.5	(*)	6.1	6.2	(*)	5.8	6.2	(*)	14
5.6	6.1	(*)	26.1	26.5	(*)	3.9	4.0	(*)	20.9	20.7	(*)	12.4	11.8	(*)	15
10.1	10.2	10.3	36.4	37.2	36.9	8.9	9.4	9.4	23.4	24.0	23.9	15.3	15.6	15.4	16
14.2	14.6	14.8	43.4	44.9	45.0	7.9	8.1	8.1	31.0	31.5	31.5	33.7	32.0	33.8	17
28.4	29.1	29.2	111.3	114.7	114.5	33.1	33.7	33.9	71.9	74.2	74.5	82.7	83.1	84.1	18
1.5	1.5	1.5	10.0	10.1	10.2	2.5	2.6	2.7	7.4	7.6	7.6	14.7	14.6	15.1	19
1.9	1.9	1.9	10.5	11.5	11.4	1.4	1.5	1.5	6.8	7.0	7.0	9.0	10.7	9.5	20
4.9	5.0	5.0	23.8	24.3	24.4	5.5	4.8	4.8	20.3	20.4	20.6	12.0	11.8	11.7	21
4.0	3.8	3.8	13.6	13.9	14.1	1.8	1.9	1.9	8.2	8.4	8.3	10.4	10.9	10.1	22
55.8	55.8	(*)	252.7	260.2	(*)	48.4	49.5	(*)	183.4	186.3	(*)	183.9	197.7	(*)	23
3.7	3.7	(*)	15.4	15.6	(*)	3.6	3.7	(*)	12.8	13.2	(*)	8.5	9.8	(*)	24
10.6	10.5	(*)	40.3	41.2	(*)	17.6	18.1	(*)	30.5	32.7	(*)	27.0	27.8	(*)	25
1.6	1.6	(*)	7.8	8.3	(*)	1.1	1.1	(*)	7.9	8.9	(*)	3.2	3.5	(*)	26
3.6	3.5	(*)	11.9	11.8	(*)	2.5	2.5	(*)	9.9	10.1	(*)	6.0	6.6	(*)	27
2.3	2.1	(*)	12.4	12.5	(*)	1.6	1.7	(*)	8.8	9.3	(*)	9.1	9.6	(*)	28
56.6	58.6	58.4	204.5	210.6	210.2	40.7	41.8	42.0	142.8	150.2	150.4	162.6	174.0	164.8	29
7.1	7.0	6.9	17.0	17.4	17.5	5.6	5.6	5.7	14.0	14.4	14.5	20.3	21.0	20.1	30
8.8	8.9	9.0	38.1	38.2	38.4	8.8	9.0	9.0	32.2	32.3	32.6	21.5	23.1	21.6	31
62.0	64.1	(*)	235.4	244.9	(*)	43.9	45.1	(*)	178.2	180.8	(*)	217.5	224.4	(*)	32
5.8	6.2	(*)	29.1	31.7	(*)	5.9	6.0	(*)	21.6	23.4	(*)	26.8	26.7	(*)	33
22.6	22.9	(*)	79.8	82.3	(*)	19.7	20.5	(*)	65.0	68.1	(*)	54.5	51.5	(*)	34
101.4	101.6	102.1	302.5	293.7	297.0	61.3	61.4	61.6	220.5	220.7	218.9	250.1	248.1	245.9	35
2.3	2.4	2.4	10.5	10.6	10.6	2.6	2.5	2.5	8.4	8.5	8.7	12.0	12.2	12.1	36
8.8	8.4	8.4	33.9	33.2	33.3	9.5	9.7	9.9	25.1	25.4	25.5	43.2	46.0	46.9	37
4.0	4.2	4.2	14.0	14.0	14.0	1.8	1.9	1.9	10.0	9.9	10.1	7.8	8.7	7.9	38
3.2	3.1	3.1	11.2	11.4	11.5	2.2	2.3	2.3	8.3	8.6	8.6	8.9	8.4	8.5	39
2.4	2.3	(*)	11.5	11.0	(*)	3.1	3.2	(*)	6.8	6.6	(*)	8.0	7.3	(*)	40
45.2	45.3	45.3	111.2	112.2	112.1	26.8	26.9	27.0	92.9	93.8	94.7	65.2	69.5	66.7	41
9.6	9.3	9.5	32.0	32.9	33.3	5.8	5.9	5.9	21.5	22.0	21.9	22.0	20.9	21.9	42
18.0	18.5	18.3	82.2	85.1	86.6	14.9	15.3	15.4	72.1	67.8	74.0	68.6	77.3	71.5	43
1.2	1.2	1.1	7.2	7.6	7.5	1.3	1.4	1.4	6.3	6.1	6.4	2.5	3.0	2.4	44
5.0	5.3	5.2	22.2	23.1	23.2	6.4	6.8	6.7	16.5	16.5	16.6	11.0	12.3	11.6	45
78.4	79.6	79.3	361.6	370.9	370.8	81.3	82.9	83.3	290.5	298.9	299.4	369.3	377.7	374.9	46
54.8	55.5	55.4	193.1	198.2	198.4	49.5	50.0	50.3	159.3	163.4	163.6	192.4	192.5	195.4	47
109.7	112.7	109.5	520.5	539.8	537.2	136.9	137.8	137.6	518.6	532.6	535.3	364.7	368.5	370.6	48
67.2	67.1	66.1	289.1	296.5	293.5	93.9	95.0	95.1	315.9	325.8	323.6	194.6	190.6	191.6	49
3.6	3.7	3.9	13.9	14.0	14.2	1.8	1.8	1.9	7.9	8.6	8.6	9.0	9.5	9.3	50
1.9	1.9	1.9	10.6	11.0	11.2	2.4	2.3	2.4	8.6	8.9	9.0	5.7	5.8	6.0	51
3.3	3.5	3.3	19.2	20.0	19.5	3.4	3.6	3.5	14.0	14.1	14.2	15.3	15.3	15.8	52
2.8	3.1	2.8	13.4	13.7	13.6	1.9	1.9	1.9	9.8	9.9	10.0	10.5	10.5	10.3	53
2.6	2.7	2.7	12.1	12.0	12.1	1.7	1.8	1.8	10.1	10.7	10.8	7.9	8.0	8.1	54
8.4	8.8	8.3	44.0	44.4	44.0	10.7	11.0	11.0	36.9	39.4	39.4	41.2	41.2	41.7	55
6.9	6.7	6.5	31.3	32.0	32.1	8.1	8.1	8.2	26.4	28.3	27.3	24.0	23.8	23.3	56
146.6	148.5	(*)	672.6	703.1	(*)	139.4	140.4	(*)	543.6	572.4	(*)	573.9	615.0	(*)	57
2.2	2.2	(*)	16.1	17.5	(*)	3.4	3.6	(*)	17.1	18.0	(*)	37.0	37.4	(*)	58
2.1	2.1	(*)	10.6	10.7	(*)	3.5	3.5	(*)	10.7	11.1	(*)	11.4	12.5	(*)	59
1.9	2.1	(*)	8.4	8.6	(*)	1.0	1.1	(*)	6.0	6.2	(*)	5.3	5.1	(*)	60
81.7	81.6	(*)	323.6	332.7	(*)	80.8	82.1	(*)	297.6	307.4	(*)	244.5	260.7	(*)	61
6.0	6.3	(*)	36.0	36.9	(*)	5.3	5.5	(*)	23.0	26.4	(*)	27.5	27.8	(*)	62
9.3	9.5	(*)	52.9	55.9	(*)	8.3	8.6	(*)	41.2	42.2	(*)	28.1	29.2	(*)	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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
MICHIGAN—Continued												
1 Jackson	48.4	51.0	(*)	(1)	(1)	(*)	1.8	1.8	(*)	14.1	15.9	(*)
2 Kalamazoo—Portage	98.3	102.9	(*)	(1)	(1)	(*)	4.1	3.8	(*)	32.9	35.3	(*)
3 Lansing—East Lansing	159.5	179.5	(*)	(1)	(1)	(*)	5.9	5.6	(*)	31.9	41.7	(*)
4 Muskegon—Norton Shores—Musk. Hts.	58.8	58.4	(*)	(1)	(1)	(*)	2.5	2.9	(*)	22.2	20.4	(*)
5 Saginaw	80.8	87.4	(*)	(1)	(1)	(*)	2.7	2.8	(*)	31.7	35.9	(*)
6 MINNESOTA	1,531.4	1,581.2	1,571.8	15.9	15.8	15.7	76.6	67.7	73.7	323.5	333.6	335.9
7 Duluth—Superior	57.5	55.2	56.8	(1)	(1)	(1)	2.5	1.8	1.9	7.7	6.7	7.3
8 Minneapolis—St. Paul	908.1	947.6	939.5	(1)	(1)	(1)	37.4	35.7	38.7	208.7	215.9	217.0
9 MISSISSIPPI	730.8	764.7	762.3	7.2	7.8	7.9	42.0	45.2	44.6	220.2	228.2	227.6
10 Jackson	122.2	125.1	123.5	1.0	1.0	1.0	7.4	7.5	7.0	18.6	18.5	18.4
11 MISSOURI	1,737.6	1,793.9	1,782.0	8.3	8.3	7.9	74.4	72.8	76.5	414.1	431.5	434.2
12 Kansas City ²	553.8	557.9	557.5	.6	.7	.7	26.5	17.5	20.3	111.9	115.9	114.9
13 St. Joseph ²	36.1	36.3	36.2	(3)	(3)	(3)	2.4	2.0	2.1	9.7	10.1	10.1
14 St. Louis ²	900.8	920.8	917.2	2.6	2.8	2.8	42.2	38.4	39.3	238.6	246.4	249.2
15 Springfield ²	71.5	74.4	73.9	.2	.2	.2	2.8	3.3	3.3	18.2	17.5	17.7
18 MONTANA	256.7	261.5	(*)	5.9	5.7	(*)	15.8	12.8	(*)	24.4	24.9	(*)
17 Billings	39.3	42.1	(*)	(1)	(1)	(*)	2.5	2.2	(*)	3.5	3.6	(*)
18 Great Falls	26.8	28.1	(*)	(1)	(1)	(*)	2.0	1.5	(*)	1.8	1.8	(*)
19 NEBRASKA	580.9	591.7	585.0	1.8	2.1	2.1	31.7	29.0	28.6	87.8	90.8	90.7
20 Lincoln	87.6	93.0	92.0	-	-	-	4.7	4.2	3.8	11.6	13.9	14.1
21 Omaha	240.2	247.5	244.5	(3)	(3)	(3)	12.0	11.4	11.3	33.7	35.9	35.6
22 NEVADA	287.6	307.9	(*)	3.5	3.2	(*)	15.1	17.5	(*)	13.1	13.7	(*)
23 Las Vegas	156.8	166.3	166.9	.2	.2	.2	7.7	9.5	8.8	5.2	5.5	5.5
24 Reno	81.7	87.5	88.2	.4	.4	.4	5.1	5.7	5.9	5.5	5.7	5.8
25 NEW HAMPSHIRE	222.9	335.0	(*)	.5	.5	(*)	16.1	17.5	(*)	93.7	100.0	(*)
26 Manchester	60.4	65.3	(*)	(3)	(3)	(*)	2.8	3.2	(*)	17.5	19.0	(*)
27 Nashua	45.6	49.0	(*)	(3)	(3)	(*)	1.7	2.3	(*)	21.0	22.1	(*)
28 NEW JERSEY	2,783.5	2,849.8	2,839.4	2.8	3.1	3.1	101.2	100.7	100.0	748.5	770.3	751.8
29 Atlantic City	74.0	71.4	(*)	-	-	(*)	3.0	3.3	(*)	8.0	8.3	(*)
30 Camden ⁶	295.0	299.4	(*)	.1	.1	(*)	13.5	13.1	(*)	64.1	65.8	(*)
31 Hackensack	353.4	368.7	(*)	(1)	(1)	(*)	13.7	15.9	(*)	103.2	106.1	(*)
32 Jersey City ⁷	232.2	231.0	(*)	-	-	(*)	4.7	5.1	(*)	72.1	73.3	(*)
33 Long Branch—Asbury Park	149.0	149.3	(*)	(1)	(1)	(*)	7.0	6.7	(*)	21.6	22.7	(*)
34 New Bruns.—Perth Amboy—Sayreville	240.5	250.8	(*)	(1)	(1)	(*)	8.9	9.3	(*)	80.8	83.7	(*)
35 Newark ⁷	865.4	875.0	(*)	.9	1.0	(*)	31.2	28.2	(*)	239.5	244.2	(*)
36 Paterson—Clifton—Passaic ⁷	177.1	183.8	(*)	(1)	(1)	(*)	5.4	5.8	(*)	63.3	66.2	(*)
37 Trenton	150.1	157.3	(*)	(1)	(1)	(*)	3.2	3.3	(*)	36.6	38.5	(*)
38 Vineland—Millville—Bridgeton	51.8	52.7	(*)	(1)	(1)	(*)	1.5	1.2	(*)	18.9	19.3	(*)
39 NEW MEXICO	393.2	418.0	417.4	21.9	23.7	23.3	26.2	30.0	30.2	30.4	32.0	31.8
40 Albuquerque	156.9	166.2	166.1	(1)	(1)	(1)	10.5	12.1	12.4	16.6	16.2	16.2
41 NEW YORK	6,828.5	6,817.5	(*)	7.6	7.4	(*)	199.7	185.9	(*)	1,434.7	1,460.3	(*)
42 Albany—Schenectady—Troy	311.5	314.6	(*)	(1)	(1)	(*)	11.6	10.9	(*)	62.8	61.8	(*)
43 Binghamton	106.0	111.9	(*)	(1)	(1)	(*)	4.5	4.6	(*)	38.0	40.9	(*)
44 Buffalo	495.3	499.0	(*)	(1)	(1)	(*)	19.3	18.8	(*)	142.8	146.6	(*)
45 Elmira	37.0	36.0	(*)	(1)	(1)	(*)	1.8	1.5	(*)	12.6	11.1	(*)
46 Monroe County ⁸	316.2	320.3	(*)	(1)	(1)	(*)	10.0	10.4	(*)	129.0	127.9	(*)
47 Nassau—Suffolk ⁹	803.0	827.8	(*)	(1)	(1)	(*)	31.3	28.6	(*)	143.8	147.9	(*)
48 New York—Northeastern New Jersey	6,300.2	6,301.0	(*)	3.4	3.5	(*)	177.7	171.9	(*)	1,315.7	1,348.9	(*)
49 New York and Nassau—Suffolk ⁷	4,431.6	4,391.6	(*)	2.1	1.9	(*)	113.7	107.7	(*)	756.9	775.4	(*)
50 New York SMSA ⁹	3,628.6	3,563.9	(*)	2.0	1.8	(*)	82.5	79.0	(*)	613.1	627.4	(*)
51 New York City ¹⁰	3,237.3	3,165.7	(*)	1.7	1.7	(*)	67.3	64.0	(*)	534.4	546.4	(*)
52 Poughkeepsie	85.9	87.3	(*)	(1)	(1)	(*)	2.9	3.3	(*)	28.1	28.8	(*)
53 Rochester	384.9	393.4	(*)	(1)	(1)	(*)	12.1	12.1	(*)	147.7	147.3	(*)
54 Rockland County ¹⁰	72.8	73.3	(*)	(1)	(1)	(*)	1.8	1.5	(*)	14.2	14.6	(*)
55 Syracuse	235.3	242.5	(*)	(1)	(1)	(*)	9.9	9.8	(*)	55.1	57.4	(*)
56 Utica—Rome	111.2	112.5	(*)	(1)	(1)	(*)	3.7	3.7	(*)	29.6	30.0	(*)
57 Westchester County ¹⁰	307.3	313.9	(*)	(1)	(1)	(*)	12.6	12.9	(*)	63.3	65.3	(*)
58 NORTH CAROLINA	2,022.4	2,124.9	2,092.2	4.7	5.0	5.1	106.3	105.8	105.8	756.9	796.1	792.1
59 Asheville	63.8	65.4	66.4	(1)	(1)	(1)	3.5	3.5	3.6	20.1	20.7	20.6
60 Charlotte—Gastonia	276.4	288.0	284.1	(1)	(1)	(1)	14.8	15.1	15.3	79.5	82.9	82.5
61 Greensboro—Winston-Salem—High Pt.	336.5	351.5	346.7	(1)	(1)	(1)	15.7	15.9	15.9	137.7	140.0	139.9

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			
JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	
4.3	4.4	(*)	9.7	9.9	(*)	1.5	1.5	(*)	8.5	8.9	(*)	8.5	8.6	(*)	1
3.3	3.4	(*)	18.6	20.1	(*)	3.4	3.4	(*)	17.6	17.5	(*)	18.4	19.4	(*)	2
4.1	4.3	(*)	31.2	32.9	(*)	8.0	8.3	(*)	23.3	24.4	(*)	55.1	62.3	(*)	3
2.9	3.1	(*)	11.0	11.3	(*)	1.7	1.7	(*)	8.8	8.9	(*)	9.7	10.1	(*)	4
4.1	3.5	(*)	16.1	17.4	(*)	3.6	3.8	(*)	11.5	12.2	(*)	11.1	11.4	(*)	5
90.3	92.8	92.6	387.6	403.9	400.7	79.1	79.5	80.3	295.1	307.7	306.1	263.4	279.9	266.8	6
6.5	6.6	6.6	14.8	14.8	14.9	2.0	2.0	2.1	12.0	11.9	11.7	11.8	11.4	12.3	7
57.2	58.8	59.0	229.9	240.3	237.8	58.3	58.7	58.9	182.7	192.2	190.4	133.9	146.1	137.8	8
35.0	35.6	35.6	142.8	150.2	151.7	29.0	30.0	30.1	101.3	107.8	108.1	153.2	159.9	156.8	9
7.6	7.7	7.7	28.2	28.4	28.4	9.5	9.7	9.8	23.1	23.1	23.1	26.7	29.1	28.0	10
124.1	126.0	126.3	410.6	410.6	410.3	95.0	95.5	95.9	315.5	328.3	327.1	295.6	320.9	303.8	11
50.7	50.8	50.7	142.1	144.8	144.9	36.9	37.7	37.7	106.4	107.6	108.6	78.7	82.9	79.7	12
2.4	2.3	2.3	8.8	9.0	9.0	1.6	1.6	1.6	6.2	6.2	6.2	5.0	5.1	4.9	13
64.1	66.2	66.2	205.1	208.6	209.6	49.4	49.5	49.7	174.9	175.9	174.6	123.9	132.9	125.8	14
5.2	5.4	5.4	19.4	20.2	20.4	2.8	2.9	2.9	13.8	14.2	14.2	9.1	10.7	9.8	15
19.6	19.8	(*)	66.3	68.0	(*)	10.7	11.3	(*)	49.4	49.6	(*)	64.6	69.4	(*)	16
3.2	3.1	(*)	13.6	14.6	(*)	1.8	2.0	(*)	7.5	7.8	(*)	7.2	8.8	(*)	17
2.1	1.5	(*)	8.3	8.3	(*)	1.6	1.7	(*)	5.2	6.7	(*)	5.8	6.2	(*)	18
41.5	43.0	42.7	153.9	154.2	154.0	36.0	37.6	37.9	105.8	110.0	109.1	122.6	125.1	120.0	19
6.1	6.3	6.2	19.1	20.3	20.3	6.1	6.4	6.4	15.0	15.4	15.1	25.0	26.5	26.1	20
22.1	22.3	22.3	61.1	60.3	60.0	19.6	20.5	21.0	52.1	52.0	52.0	39.7	44.8	42.4	21
17.9	18.7	(*)	58.5	62.9	(*)	11.5	12.4	(*)	122.1	131.8	(*)	45.9	47.7	(*)	22
9.9	10.4	10.3	31.8	33.5	33.6	6.1	6.5	6.6	75.3	79.3	80.3	20.6	21.4	21.6	23
5.8	6.2	6.2	18.3	19.9	20.2	4.3	4.7	4.8	29.4	31.2	31.9	12.9	13.7	13.0	24
12.1	12.6	(*)	70.8	74.9	(*)	15.3	16.2	(*)	65.7	62.7	(*)	48.7	50.6	(*)	25
3.9	4.0	(*)	14.2	15.5	(*)	4.3	4.6	(*)	10.9	11.8	(*)	6.7	7.2	(*)	26
1.6	1.8	(*)	9.0	9.7	(*)	1.6	1.7	(*)	6.4	6.8	(*)	4.3	4.6	(*)	27
174.4	176.9	176.9	631.3	653.7	652.3	140.9	145.6	147.0	507.6	517.7	520.6	476.8	481.8	487.7	28
3.5	3.4	(*)	21.5	20.1	(*)	4.6	4.7	(*)	18.5	17.7	(*)	14.9	13.9	(*)	29
15.4	14.8	(*)	78.9	80.7	(*)	14.2	14.5	(*)	53.7	53.4	(*)	55.1	57.0	(*)	30
18.0	17.2	(*)	103.2	105.4	(*)	14.2	14.6	(*)	63.0	68.6	(*)	38.1	40.9	(*)	31
29.2	29.6	(*)	41.6	41.8	(*)	8.7	8.9	(*)	28.7	28.8	(*)	47.2	43.5	(*)	32
5.6	5.6	(*)	38.1	37.9	(*)	5.7	6.4	(*)	37.9	37.3	(*)	33.1	32.7	(*)	33
15.5	16.4	(*)	52.4	54.1	(*)	8.8	8.6	(*)	33.2	33.6	(*)	40.9	45.1	(*)	34
65.0	63.2	(*)	164.8	167.2	(*)	59.9	59.7	(*)	163.7	170.2	(*)	140.4	141.3	(*)	35
7.0	6.9	(*)	39.5	40.0	(*)	8.8	9.3	(*)	28.3	28.6	(*)	24.8	27.0	(*)	36
5.1	5.2	(*)	23.0	23.4	(*)	5.9	6.2	(*)	36.2	38.8	(*)	40.1	41.9	(*)	37
3.0	3.0	(*)	8.2	8.1	(*)	2.5	2.5	(*)	7.5	7.7	(*)	10.2	10.9	(*)	38
22.9	23.8	23.7	92.5	97.2	97.7	17.4	17.8	17.8	76.9	82.5	83.5	105.0	111.0	109.4	39
8.2	9.0	9.0	41.0	43.1	43.2	8.7	8.9	8.9	35.8	38.7	38.5	36.1	38.2	37.9	40
424.4	426.1	(*)	1,395.3	1,418.3	(*)	580.4	580.1	(*)	1,484.6	1,489.0	(*)	1,301.7	1,250.4	(*)	41
14.8	14.8	(*)	61.2	61.6	(*)	14.0	14.1	(*)	60.5	61.4	(*)	86.6	90.0	(*)	42
4.3	4.3	(*)	19.2	19.8	(*)	3.5	3.6	(*)	15.5	15.9	(*)	21.0	22.8	(*)	43
27.3	25.4	(*)	107.8	112.7	(*)	20.5	21.4	(*)	88.7	89.1	(*)	88.9	84.9	(*)	44
1.3	1.3	(*)	8.2	8.3	(*)	1.0	1.0	(*)	6.2	6.5	(*)	5.8	6.3	(*)	45
9.9	9.7	(*)	57.8	60.8	(*)	14.2	14.6	(*)	59.4	58.8	(*)	35.9	38.1	(*)	46
32.5	36.1	(*)	210.4	221.2	(*)	44.7	44.9	(*)	175.1	179.6	(*)	165.4	169.5	(*)	47
451.9	449.1	(*)	1,315.9	1,344.6	(*)	582.9	581.2	(*)	1,351.1	1,368.6	(*)	1,101.6	1,033.2	(*)	48
317.4	315.5	(*)	914.5	936.1	(*)	482.3	480.0	(*)	1,034.6	1,039.3	(*)	810.1	735.4	(*)	49
284.9	279.9	(*)	704.2	714.9	(*)	437.6	435.1	(*)	859.6	859.8	(*)	644.8	565.9	(*)	50
263.5	258.8	(*)	615.1	622.4	(*)	418.6	415.8	(*)	763.9	764.9	(*)	572.7	491.9	(*)	51
2.9	2.5	(*)	14.5	14.4	(*)	2.6	2.5	(*)	15.5	15.1	(*)	19.5	20.4	(*)	52
12.6	12.3	(*)	73.5	77.8	(*)	15.6	16.1	(*)	70.0	69.1	(*)	53.4	58.6	(*)	53
3.6	3.6	(*)	15.5	15.9	(*)	2.2	2.1	(*)	16.1	16.0	(*)	19.2	19.6	(*)	54
13.7	13.8	(*)	53.5	54.9	(*)	14.6	14.8	(*)	42.9	44.5	(*)	45.6	47.3	(*)	55
3.9	3.9	(*)	20.8	21.2	(*)	5.1	5.5	(*)	18.6	19.1	(*)	29.5	29.1	(*)	56
17.1	16.8	(*)	70.8	74.0	(*)	16.4	16.9	(*)	76.9	76.6	(*)	50.1	51.4	(*)	57
96.3	97.5	97.7	395.2	406.4	407.3	82.8	83.3	83.8	288.1	291.2	297.7	292.1	339.6	302.7	58
3.3	3.5	3.5	12.6	12.9	13.1	2.5	2.8	2.8	11.5	11.9	12.0	10.3	10.1	10.8	59
25.8	26.4	26.2	67.1	67.4	67.5	17.4	18.5	18.6	41.3	42.9	42.7	30.5	34.8	31.3	60
19.4	19.8	19.9	67.0	69.5	69.3	14.8	15.6	15.7	45.6	47.6	48.1	36.3	43.1	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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
NORTH CAROLINA—Continued												
1 Raleigh-Durham	214.6	222.6	221.9	(1)	(1)	(1)	11.2	11.5	11.7	35.7	37.2	36.7
NORTH DAKOTA												
2 Fargo-Moorhead	217.8	226.7	(*)	2.6	2.7	(*)	19.0	19.7	(*)	16.1	15.0	(*)
3 Fargo-Moorhead	55.1	58.4	(*)	(3)	(3)	(*)	4.2	4.4	(*)	5.1	4.9	(*)
OHIO												
4	4,098.9	4,267.2	4,221.3	29.0	29.0	29.4	169.6	161.4	168.2	1,287.7	1,347.4	1,340.9
5 Akron	239.5	258.1	255.0	.3	.3	.3	7.8	7.1	7.4	73.1	84.3	84.2
6 Canton	149.1	151.6	151.3	.8	.8	.8	6.3	5.9	6.3	56.2	56.3	56.2
7 Cincinnati	541.8	555.2	555.2	.4	.4	.4	24.0	23.0	23.9	153.6	158.1	157.6
8 Cleveland	870.4	884.6	877.4	1.5	1.5	1.5	32.0	30.2	30.8	268.3	271.0	270.4
9 Columbus	454.1	473.9	469.6	.7	.7	.7	19.0	17.8	18.7	93.8	98.2	97.7
10 Dayton	329.1	345.2	336.1	.4	.4	.4	12.6	11.6	12.0	104.2	109.9	107.9
11 Toledo	281.0	298.4	292.9	.6	.6	.6	12.6	12.1	12.5	84.2	88.2	88.2
12 Youngstown-Warren	203.3	210.0	206.3	.3	.3	.3	7.3	6.3	6.9	79.8	82.8	81.1
OKLAHOMA												
13	923.1	984.7	974.0	45.5	51.0	51.3	45.2	48.5	49.5	155.5	165.6	165.2
14 Oklahoma City	313.3	337.0	336.6	10.1	11.1	11.4	15.7	20.4	21.7	41.3	45.2	45.3
15 Tulsa	246.1	252.7	253.4	16.3	16.6	16.7	15.6	15.7	16.1	52.4	53.9	54.0
OREGON												
16	869.1	920.4	904.7	1.6	1.5	1.5	39.0	38.5	39.4	196.9	202.7	205.7
17 Eugene-Springfield	87.2	96.9	94.7	(1)	(1)	(1)	3.9	4.9	5.3	20.4	20.7	21.4
18 Jackson County	-	-	-	-	-	-	-	-	-	7.4	7.6	7.7
19 Portland	457.4	485.2	477.6	(1)	(1)	(1)	21.0	19.8	20.5	95.9	99.6	100.5
20 Salem	72.9	75.0	74.7	(1)	(1)	(1)	3.8	3.7	3.7	13.2	12.0	14.0
PENNSYLVANIA												
21	4,523.9	4,565.2	4,557.3	49.1	50.8	49.2	198.1	195.7	203.5	1,335.6	1,353.6	1,345.2
22 Allentown-Bethlehem-Easton	259.1	260.9	259.3	(1)	(1)	(1)	10.1	9.0	9.1	109.0	109.2	108.7
23 Altoona	51.4	53.3	53.2	(1)	(1)	(1)	2.3	2.2	2.3	13.4	13.5	13.3
24 Delaware Valley	1,512.0	1,510.9	1,517.5	(1)	(1)	(1)	56.2	53.5	55.9	379.4	383.0	380.5
25 Erie	108.9	113.3	111.9	(1)	(1)	(1)	3.9	3.4	3.8	41.8	44.4	44.0
26 Harrisburg	203.6	207.6	207.7	(1)	(1)	(1)	9.6	9.7	9.8	39.8	38.8	39.3
27 Johnstown	88.3	91.8	90.9	9.2	9.5	9.4	3.4	3.5	3.7	22.2	22.7	22.6
28 Lancaster	133.8	136.7	136.5	(1)	(1)	(1)	7.2	7.2	7.5	54.7	54.9	55.9
29 Northeast Pennsylvania	232.9	233.4	232.6	1.3	1.3	1.4	12.4	12.8	13.3	70.2	71.2	69.7
30 Philadelphia SMSA	1,806.9	1,810.6	1,815.6	(1)	(1)	(1)	69.7	66.9	69.1	443.7	449.0	446.5
31 Philadelphia City	812.7	797.7	810.4	(1)	(1)	(1)	18.2	17.7	18.1	159.9	160.0	157.5
32 Pittsburgh	507.4	512.0	506.3	11.9	11.9	11.9	46.3	47.0	48.8	250.6	248.6	249.0
33 Reading	127.9	132.4	129.4	(1)	(1)	(1)	5.0	4.7	5.1	49.2	51.1	51.0
34 Scranton	82.2	83.0	83.0	(1)	(1)	(1)	2.9	2.8	3.0	25.5	26.9	25.6
35 Wilkes-Barre-Hazleton	122.9	124.3	122.5	1.1	1.2	1.2	8.1	8.6	8.8	39.9	40.0	39.7
36 Williamsport	44.1	44.0	44.9	(1)	(1)	(1)	1.3	1.5	1.6	17.5	16.4	17.4
37 York	137.6	142.3	140.9	(1)	(1)	(1)	6.1	6.7	6.8	57.8	58.8	58.5
RHODE ISLAND												
38	362.2	376.4	372.1	(1)	(1)	(1)	13.6	13.6	14.0	115.7	126.3	118.7
39 Providence-Warwick-Pawtucket	375.1	388.7	383.8	(1)	(1)	(1)	14.1	13.9	14.3	130.5	141.1	132.8
SOUTH CAROLINA												
40	1,035.9	1,095.2	(*)	1.8	1.8	(*)	63.3	63.1	(*)	367.7	381.3	(*)
41 Charleston-North Charleston	121.7	127.7	(*)	(1)	(1)	(*)	10.0	10.5	(*)	17.3	18.3	(*)
42 Columbia	145.5	155.3	(*)	(1)	(1)	(*)	7.0	7.2	(*)	22.6	23.3	(*)
43 Greenville-Spartanburg	227.2	234.7	(*)	(1)	(1)	(*)	13.5	13.0	(*)	99.1	102.0	(*)
SOUTH DAKOTA												
44	221.9	233.1	230.9	2.6	2.7	2.7	12.8	13.3	14.4	23.0	23.1	22.6
45 Rapid City	26.4	26.6	26.9	(3)	(3)	(3)	2.4	2.1	2.2	2.2	2.3	2.4
46 Sioux Falls	46.7	50.7	51.7	(3)	(3)	(3)	2.8	3.4	3.7	6.6	7.0	6.9
TENNESSEE												
47	1,584.1	1,640.0	1,643.8	9.5	9.3	9.2	79.9	84.2	86.5	486.5	510.8	508.3
48 Chattanooga	160.9	164.7	164.3	1.1	1.1	1.0	6.4	6.5	6.6	56.3	57.4	56.9
49 Knoxville	180.3	187.0	186.4	1.7	1.8	1.8	10.1	12.4	12.6	49.7	51.0	51.2
50 Memphis	324.8	336.1	333.0	.2	.2	.2	15.3	16.1	16.5	56.4	59.7	59.0
51 Nashville-Davidson	217.2	228.2	(*)	(1)	(1)	(*)	17.8	18.3	(*)	76.8	80.3	(*)
TEXAS												
52	4,710.2	4,853.3	(*)	140.0	153.0	(*)	332.1	337.5	(*)	868.1	890.1	(*)
53 Amarillo	66.0	67.4	67.2	(1)	(1)	(1)	4.5	4.7	4.9	9.0	8.7	8.0
54 Austin	172.6	179.6	180.2	(1)	(1)	(1)	8.9	8.9	9.0	17.3	18.8	19.3
55 Beaumont-Port Arthur-Orange	138.1	137.3	137.9	(1)	(1)	(1)	16.5	14.7	14.5	41.8	40.9	41.2
56 Corpus Christi	103.6	103.1	103.8	3.9	3.7	3.7	11.2	11.0	11.1	12.7	12.0	11.8
57 Dallas-Fort Worth	1,116.4	1,164.8	1,161.0	12.7	13.2	13.2	50.3	50.9	52.6	247.0	255.4	256.5
58 El Paso	138.6	137.1	(*)	(1)	(1)	(*)	6.8	6.8	(*)	31.2	30.5	(*)
59 Galveston-Texas City	67.2	71.4	72.3	(1)	(1)	(1)	7.1	8.6	8.7	12.0	11.9	11.8
60 Houston	1,099.7	1,157.4	1,161.0	46.5	48.4	48.6	116.5	124.4	125.7	188.9	190.5	190.9
61 Lubbock	75.3	79.5	79.6	(1)	(1)	(1)	4.9	4.9	4.9	11.1	12.5	12.4
62 San Antonio	329.8	334.2	332.5	1.7	1.7	1.7	19.1	19.0	19.6	41.5	41.9	41.7

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			
JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	
9.9	10.0	10.1	42.8	43.0	43.0	13.2	13.9	14.0	43.6	46.0	47.7	58.2	61.0	58.7	1
13.3	14.0	(*)	62.7	65.1	(*)	9.3	9.9	(*)	41.3	42.6	(*)	53.5	57.7	(*)	2
3.6	3.6	(*)	17.1	18.0	(*)	3.3	3.5	(*)	11.4	11.7	(*)	10.3	12.3	(*)	3
215.3	216.6	213.7	898.6	925.4	924.9	179.4	182.2	184.0	720.1	757.5	756.7	599.2	647.6	603.6	4
14.0	14.2	13.9	55.5	57.2	57.5	8.6	8.9	9.0	44.2	45.3	46.2	36.1	40.8	36.4	5
6.9	7.1	6.8	31.5	32.5	32.8	5.4	5.3	5.5	25.4	26.4	25.7	16.5	17.3	17.1	6
31.0	30.4	30.6	124.9	129.0	129.2	29.0	29.0	29.0	103.6	107.8	107.6	75.3	77.5	74.8	7
46.9	45.8	44.6	198.1	203.5	204.0	44.8	45.4	45.8	163.1	168.9	167.6	115.8	118.3	112.8	8
22.5	22.8	22.9	109.2	112.5	112.9	31.2	32.1	32.5	86.4	89.5	89.5	91.2	100.4	94.6	9
12.2	12.6	12.4	69.2	71.5	71.5	11.3	11.5	11.6	60.4	63.0	62.0	58.8	64.6	58.7	10
19.0	19.6	19.7	64.9	67.8	67.7	9.3	9.5	9.5	52.9	55.6	55.5	37.6	45.1	39.2	11
5.7	9.7	9.4	43.9	45.2	45.3	6.6	6.6	6.6	33.7	34.7	34.6	21.9	24.5	22.1	12
58.0	59.6	59.9	223.4	236.7	235.6	47.0	49.7	50.2	153.7	163.5	162.8	194.8	210.1	199.5	13
19.5	20.1	20.1	79.0	82.1	82.3	20.7	22.1	22.2	52.3	56.5	56.4	74.7	79.5	77.2	14
19.1	19.5	19.6	59.6	59.4	59.2	13.2	13.5	13.5	46.2	47.7	48.2	23.7	26.4	26.1	15
52.4	53.6	54.2	211.7	219.0	219.2	52.6	55.9	56.6	150.1	158.2	157.6	164.8	191.0	170.5	16
4.8	5.0	5.0	21.8	23.5	23.5	4.2	4.5	4.7	14.7	16.8	16.3	17.8	21.5	18.5	17
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
31.5	33.0	33.4	117.8	121.5	121.6	33.8	36.7	36.5	89.2	96.5	94.8	68.2	78.1	69.9	19
2.5	2.5	2.4	15.1	15.9	15.9	4.1	4.3	4.5	10.9	11.2	11.3	23.3	25.4	22.9	20
256.1	257.3	254.2	917.0	922.2	916.5	212.5	217.9	218.4	834.8	859.6	852.2	720.7	708.1	718.1	21
13.1	13.1	13.0	44.5	46.0	45.9	7.8	7.9	7.9	37.7	38.7	38.8	36.9	37.0	35.9	22
7.7	8.1	8.1	11.0	12.0	12.1	1.4	1.4	1.4	8.1	8.3	8.4	7.5	7.8	7.6	23
81.4	82.4	81.7	308.2	309.3	305.3	97.3	98.2	98.2	335.7	342.9	342.5	253.8	241.6	253.4	24
5.2	5.3	5.3	21.0	21.0	20.9	4.4	4.6	4.6	18.9	18.7	18.8	13.7	15.9	14.5	25
14.4	14.7	14.6	41.0	41.6	41.2	10.8	11.4	11.4	34.9	36.4	36.8	53.1	55.0	54.6	26
5.4	5.8	5.5	16.4	17.2	17.1	3.4	3.8	3.9	14.5	15.0	15.0	13.8	14.3	13.7	27
5.9	6.3	6.2	29.0	29.5	29.6	4.1	4.2	4.2	20.7	21.3	21.2	12.2	13.3	11.9	28
11.7	11.7	11.7	47.9	47.7	47.3	8.9	9.2	9.2	41.6	41.0	41.0	38.9	38.5	39.0	29
96.8	97.2	96.1	387.1	389.9	385.3	111.6	112.6	112.8	389.3	396.5	396.6	308.7	298.5	309.2	30
56.0	55.8	55.7	151.1	150.3	148.5	65.6	64.5	64.9	192.0	197.7	196.2	169.9	151.7	169.5	31
57.8	58.1	58.2	197.0	201.0	200.7	41.3	42.1	42.4	178.8	179.6	179.1	123.7	123.7	116.2	32
6.3	6.5	6.1	24.2	24.3	24.0	5.2	5.4	5.5	21.4	21.9	21.8	16.6	18.5	15.9	33
4.4	4.3	4.3	18.0	17.8	17.9	3.1	3.2	3.2	15.9	16.5	16.3	12.4	11.5	12.7	34
5.9	6.0	6.1	25.2	25.4	24.9	4.9	5.2	5.1	17.4	16.9	16.7	20.4	21.0	20.0	35
2.0	2.0	2.0	8.5	8.6	8.6	1.8	1.9	1.9	7.5	7.8	7.8	5.5	5.8	5.6	36
6.2	6.3	6.3	28.7	29.1	29.3	3.3	3.4	3.6	19.5	20.6	20.3	16.0	17.4	16.1	37
13.4	13.5	13.2	74.2	75.9	74.1	18.3	18.4	18.4	69.7	71.7	71.7	57.2	57.0	62.0	38
13.2	13.1	13.0	76.2	78.3	76.4	18.4	18.3	18.3	68.9	70.3	70.3	53.8	53.7	58.7	39
43.3	46.1	(*)	192.0	204.3	(*)	40.0	41.5	(*)	137.5	144.7	(*)	190.3	212.4	(*)	40
7.1	7.3	(*)	26.3	26.7	(*)	5.0	5.0	(*)	18.4	19.7	(*)	37.6	40.2	(*)	41
8.3	8.5	(*)	30.7	32.9	(*)	11.4	12.2	(*)	22.2	22.7	(*)	43.3	48.5	(*)	42
9.2	9.4	(*)	41.6	41.8	(*)	8.1	8.2	(*)	31.1	32.2	(*)	24.6	28.1	(*)	43
12.0	12.2	12.1	63.3	63.0	63.4	9.6	10.4	10.4	46.5	48.3	48.9	52.1	60.1	56.4	44
1.7	1.5	1.5	8.1	8.3	8.5	1.2	1.3	1.3	5.9	5.5	5.5	4.9	5.6	5.5	45
4.1	4.3	4.3	15.0	16.1	16.2	2.5	2.6	2.7	10.0	10.5	10.7	5.7	6.8	7.2	46
73.8	75.7	75.7	344.3	351.3	355.2	70.7	73.6	73.8	243.2	247.7	249.0	276.2	287.4	286.1	47
6.3	6.4	6.3	30.1	30.6	30.8	8.5	8.1	8.2	24.9	25.3	25.5	27.3	29.3	29.0	48
7.3	7.5	7.5	38.4	38.6	38.8	6.9	7.0	7.1	26.5	27.6	27.6	39.7	41.1	39.8	49
21.7	22.2	22.3	88.0	87.7	88.3	18.5	18.7	18.6	63.7	65.4	65.7	61.0	66.1	62.4	50
16.4	17.1	(*)	71.2	72.8	(*)	19.9	19.8	(*)	61.3	64.0	(*)	53.8	55.9	(*)	51
294.6	301.9	(*)	1,171.1	1,189.7	(*)	260.5	269.7	(*)	818.6	854.8	(*)	825.2	856.6	(*)	52
6.4	6.6	6.7	20.1	20.6	20.8	3.2	3.3	3.3	12.7	12.7	12.7	10.1	10.8	10.8	53
5.5	5.7	5.7	35.4	36.7	36.8	9.8	9.9	9.9	28.6	30.5	30.5	67.1	69.1	69.0	54
10.1	10.1	10.4	27.4	28.1	28.1	4.8	5.0	5.0	20.0	20.3	20.5	17.5	18.2	18.2	55
5.8	5.7	5.8	26.5	26.6	26.7	4.9	5.1	5.1	16.7	17.2	17.2	21.9	21.8	22.4	56
75.3	77.5	78.0	305.2	320.1	321.2	83.2	87.4	88.0	199.0	208.4	207.5	143.7	151.5	144.0	57
9.9	9.5	(*)	34.9	34.4	(*)	6.4	6.4	(*)	22.4	21.9	(*)	27.0	27.3	(*)	58
5.4	5.7	5.7	12.1	12.7	12.8	4.4	4.6	4.7	10.7	10.9	11.3	15.5	17.0	17.3	59
77.5	83.3	83.9	268.6	288.6	290.4	62.2	65.2	65.6	216.3	226.3	227.0	123.2	130.7	128.9	60
4.3	4.5	4.5	23.5	24.5	24.8	3.7	3.9	3.9	13.6	14.3	14.2	14.2	14.9	14.9	61
14.5	14.5	14.9	82.1	82.1	82.9	21.6	23.0	23.1	61.9	62.1	62.2	87.4	89.5	86.4	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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
TEXAS—Continued												
1 Waco	61.1	61.9	62.6	(1)	(1)	(1)	3.1	3.3	3.3	14.4	14.4	14.7
2 Wichita Falls	45.3	46.8	46.9	2.2	2.3	2.3	2.8	2.8	2.9	7.6	8.2	8.2
UTAH												
3 Salt Lake City—Ogden	464.7	482.4	478.0	14.3	15.0	10.5	31.1	29.7	31.4	72.1	75.9	76.0
4	333.0	346.3	342.5	6.7	7.0	2.9	21.1	20.0	21.7	47.9	50.1	48.4
VERMONT												
5 Burlington ¹⁵	170.6	176.5	177.3	.7	.7	.7	9.5	10.1	10.3	40.7	43.2	42.2
6 Springfield ¹⁵	43.8	45.5	45.9	-	-	-	-	-	-	9.9	10.8	10.9
7	12.4	13.2	13.3	-	-	-	-	-	-	4.9	5.3	5.3
VIRGINIA												
8 Bristol	1,860.6	1,921.6	1,921.3	22.4	22.6	22.6	119.1	122.3	125.5	385.5	397.6	397.2
9 Lynchburg	24.7	25.6	24.6	(1)	(1)	(1)	1.1	1.1	1.1	8.7	8.7	8.6
10 Newport News—Hampton	60.7	62.5	61.8	(1)	(1)	(1)	3.0	3.0	3.0	26.6	27.6	27.3
11 Norfolk—Virginia Beach—Portsmouth	136.5	138.5	138.2	(1)	(1)	(1)	7.1	7.5	7.7	32.5	33.9	33.9
12 Northern Virginia ¹⁵	255.3	259.3	261.0	(1)	(1)	(1)	16.3	17.3	17.8	26.4	27.5	28.0
13 Petersburg—Colonial Hts.—Hopewell	367.5	376.6	377.0	.3	.4	.4	25.4	25.7	26.8	13.6	14.1	14.2
14 Richmond	44.2	44.7	44.2	(1)	(1)	(1)	2.3	2.6	2.5	13.0	12.4	12.2
15 Roanoke	289.0	293.5	294.5	.4	.3	.3	16.5	18.4	18.7	51.9	51.1	51.0
16	98.2	99.0	98.3	.2	.2	.2	5.7	5.6	5.7	21.5	21.2	21.0
WASHINGTON												
17 Seattle—Everett ¹⁷	1,267.6	1,343.5	(*)	2.2	2.2	(*)	70.7	79.3	(*)	247.4	260.2	(*)
18 Spokane ¹⁷	588.9	629.9	(*)	(1)	(1)	(*)	27.1	32.4	(*)	120.8	126.3	(*)
19 Tacoma ¹⁷	107.1	111.1	(*)	(1)	(1)	(*)	6.4	5.4	(*)	14.9	14.8	(*)
20	119.4	127.4	(*)	(1)	(1)	(*)	5.7	6.3	(*)	21.0	20.8	(*)
WEST VIRGINIA												
21 Charleston	604.0	618.7	(*)	70.2	74.5	(*)	36.7	40.0	(*)	124.5	127.0	(*)
22 Huntington—Ashland	105.0	103.4	(*)	6.0	6.2	(*)	6.8	6.1	(*)	19.3	19.3	(*)
23 Parkersburg—Martietta	98.1	96.0	(*)	.8	.8	(*)	6.1	5.5	(*)	28.6	28.3	(*)
24 Wheeling	52.3	52.3	(*)	.4	.4	(*)	2.6	2.3	(*)	16.9	16.9	(*)
25	64.4	64.3	(*)	8.4	8.5	(*)	3.1	2.4	(*)	13.8	14.3	(*)
WISCONSIN												
26 Appleton—Oshkosh	1,730.1	1,808.6	1,790.3	2.8	2.6	2.6	70.7	79.2	81.8	517.1	531.5	533.3
27 Green Bay	108.5	110.4	109.5	(1)	(1)	(1)	5.6	5.3	5.8	41.2	41.7	41.6
28 Kenosha	67.9	70.9	69.7	(1)	(1)	(1)	3.5	4.0	4.1	20.8	20.9	21.4
29 La Crosse	41.1	41.9	41.2	(1)	(1)	(1)	1.0	1.1	1.1	18.2	17.5	17.4
30 Madison	35.3	37.2	36.8	(1)	(1)	(1)	1.2	1.5	1.6	9.4	9.2	9.2
31 Milwaukee	141.6	147.2	140.4	(1)	(1)	(1)	6.3	6.7	6.8	17.4	18.1	17.9
32 Racine	603.3	621.8	613.8	(1)	(1)	(1)	19.7	22.6	23.3	197.8	200.3	199.4
33	63.1	66.9	65.1	(1)	(1)	(1)	1.6	1.8	1.8	26.6	27.7	27.0
WYOMING												
34 Casper	164.6	175.3	175.7	21.0	24.1	24.4	17.2	18.3	18.8	8.6	8.6	8.6
35 Cheyenne	28.0	30.2	29.6	5.0	5.5	5.5	2.7	2.6	2.6	1.7	1.8	1.8
36	24.4	25.0	24.6	(1)	(1)	(1)	1.5	1.9	1.8	1.4	1.4	1.4

¹ Combined with services.
² Based on the 1967 Standard Industrial Classification Manual.
³ Combined with construction.
⁴ Revised to 1977 benchmark; not strictly comparable with previously published data.
⁵ Area included in Chicago—Gary Standard Consolidated Statistical Area.
⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
⁷ Subarea of New York—Northeastern New Jersey.
⁸ Subarea of Rochester Standard Metropolitan Statistical Area.
⁹ Area included in New York and Nassau—Suffolk combined SMSA's.
¹⁰ Subarea of New York Standard Metropolitan Statistical Area.
¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
¹² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
¹⁴ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
¹⁵ Total includes data for industry divisions not shown separately. Services excludes agriculture, forestry, and fisheries.
¹⁶ 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.
¹⁷ Based on 1972 Standard Industrial Classification and adjusted to 1976 benchmark; not strictly comparable with previously published data.
p=preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

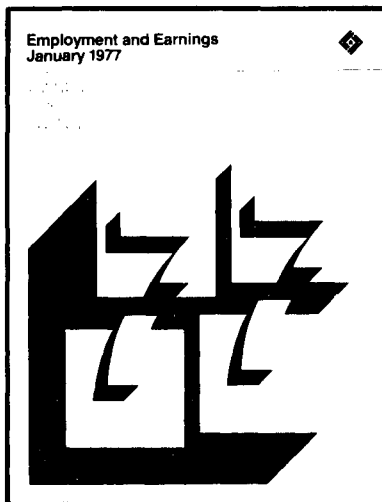
**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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			
JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	
3.0	3.0	3.0	13.7	14.3	14.4	3.6	3.6	3.6	12.0	12.3	12.5	11.3	11.0	11.1	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	10.2	10.5	10.5	2
28.6	29.8	30.0	112.7	116.4	117.6	20.9	21.9	22.0	77.1	80.2	79.9	107.8	113.5	110.6	3
22.7	23.3	23.5	83.4	88.1	89.0	17.4	17.9	17.9	53.8	57.1	57.3	80.0	82.8	81.8	4
8.4	8.6	8.5	35.3	36.0	36.5	6.9	7.1	7.1	40.1	40.2	42.1	29.3	30.7	30.1	5
2.1	2.1	2.1	9.5	10.0	10.2	-	-	-	9.4	9.9	9.7	-	-	-	6
.8	.8	.8	2.1	2.0	2.0	-	-	-	2.4	2.5	2.6	-	-	-	7
108.7	110.0	110.4	388.4	394.2	397.4	88.2	91.1	91.9	321.3	334.5	335.1	427.0	449.3	441.2	8
.9	.9	.9	6.0	6.0	6.1	.9	.9	.9	3.3	3.3	3.3	3.8	4.7	3.7	9
2.6	2.7	2.7	10.1	9.6	9.7	2.7	2.7	2.7	8.0	8.2	8.3	7.7	8.7	8.1	10
4.5	4.5	4.4	24.7	24.8	24.9	4.4	4.5	4.5	26.8	25.9	25.7	36.5	37.4	37.1	11
18.4	18.2	18.3	61.1	62.8	63.2	13.3	13.0	13.0	45.5	45.6	45.6	74.3	74.9	75.1	12
26.7	26.7	27.1	87.5	88.5	88.5	22.0	23.4	23.4	84.8	87.5	87.9	107.2	110.3	108.7	13
1.5	1.3	1.3	7.9	8.0	7.9	1.1	1.2	1.2	5.3	5.4	5.4	13.1	13.8	13.7	14
18.1	18.1	18.2	66.3	67.9	67.7	22.5	22.8	23.0	51.5	52.0	52.6	61.8	62.9	63.0	15
10.1	9.5	10.0	23.7	23.4	23.6	5.4	5.4	5.4	18.0	18.2	17.9	13.6	15.1	14.5	16
76.8	78.5	(*)	310.5	320.9	(*)	68.9	72.2	(*)	233.1	244.5	(*)	258.0	285.7	(*)	17
43.6	45.5	(*)	144.6	154.4	(*)	41.1	43.4	(*)	109.9	118.5	(*)	101.8	109.4	(*)	18
7.6	7.7	(*)	30.7	31.8	(*)	7.0	7.3	(*)	23.6	23.8	(*)	16.9	20.3	(*)	19
6.1	6.0	(*)	28.7	29.5	(*)	5.7	5.8	(*)	23.9	25.9	(*)	28.3	33.1	(*)	20
39.8	40.7	(*)	117.4	120.7	(*)	18.7	18.8	(*)	84.4	87.1	(*)	112.5	110.1	(*)	21
8.8	8.5	(*)	23.3	23.2	(*)	4.5	4.5	(*)	17.1	17.2	(*)	19.2	18.4	(*)	22
9.3	9.1	(*)	19.8	19.9	(*)	3.3	3.4	(*)	13.6	13.4	(*)	16.7	15.8	(*)	23
2.3	2.3	(*)	11.3	11.5	(*)	1.7	1.8	(*)	7.6	7.6	(*)	9.4	9.4	(*)	24
3.7	3.7	(*)	13.5	13.5	(*)	2.4	2.4	(*)	11.8	12.2	(*)	7.8	7.3	(*)	25
80.8	84.9	82.5	393.6	413.0	412.4	78.4	80.5	81.2	312.9	328.5	330.9	273.8	287.9	265.7	26
3.8	3.9	3.7	21.8	22.0	21.9	4.2	4.3	4.4	17.4	18.2	18.1	14.6	15.0	14.0	27
4.6	4.5	4.4	16.0	16.6	16.5	2.1	2.3	2.3	11.9	12.6	12.6	9.0	10.1	8.4	28
1.4	1.5	1.4	7.9	8.2	8.1	.8	.8	.8	6.5	6.9	6.9	5.4	6.0	5.5	29
2.2	2.1	2.1	9.1	9.7	9.5	.9	.9	.9	7.7	8.1	8.1	4.8	5.7	5.4	30
5.2	5.2	5.1	30.1	32.5	32.3	9.5	10.0	10.1	25.5	25.7	25.9	47.5	48.9	42.2	31
29.9	31.8	30.7	133.3	135.2	133.9	33.3	33.7	33.8	117.3	122.4	122.6	72.0	75.8	70.3	32
2.0	2.4	2.1	12.5	12.9	12.7	1.7	1.9	1.8	10.5	11.0	11.1	8.2	9.3	8.6	33
13.2	13.5	13.7	37.6	39.4	40.2	5.2	5.8	5.8	27.2	27.3	28.0	34.6	38.3	36.2	34
2.1	2.2	2.2	7.1	7.7	7.6	1.2	1.3	1.3	4.1	4.3	4.3	4.1	4.8	4.3	35
3.4	3.4	3.5	5.6	5.9	6.1	1.3	1.3	1.3	4.3	4.2	4.2	6.9	6.9	6.3	36

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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				
		July 1976	Aug. 1976	June 1977	July 1977P	Aug. 1977P	July 1976	Aug. 1976	June 1977	July 1977P	Aug. 1977P
-	TOTAL PRIVATE	\$177.88	\$178.97	\$190.01	\$191.26	\$190.37	\$4.86	\$4.89	\$5.22	\$5.24	\$5.23
-	MINING	272.85	259.15	306.85	299.35	287.70	6.39	6.29	6.88	6.85	6.85
10	METAL MINING	283.50	283.46	302.02	305.98	-	6.75	6.88	7.26	7.32	-
101	Iron ores	311.17	308.29	337.59	335.62	-	7.04	7.22	7.69	7.68	-
102	Copper ores	278.48	281.32	280.39	289.11	-	7.05	7.14	7.34	7.49	-
11,12	COAL MINING	304.58	248.54	354.90	334.22	-	(*)	7.89	8.43	8.44	-
12	Bituminous coal and lignite mining	305.37	248.52	356.17	334.96	-	(*)	7.94	8.46	8.48	-
13	OIL AND GAS EXTRACTION	257.47	263.32	287.99	286.44	-	5.76	5.80	6.18	6.20	-
131,2	Crude petroleum and natural gas fields	273.31	276.78	301.46	301.18	-	6.57	6.59	7.11	7.12	-
138	Oil and gas field services	248.56	256.70	281.20	279.74	-	5.38	5.45	5.81	5.84	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	242.82	245.06	267.93	269.50	-	5.42	5.47	5.85	5.91	-
142	Crushed and broken stone	235.65	239.40	264.12	267.26	-	5.26	5.32	5.68	5.76	-
-	CONTRACT CONSTRUCTION	291.07	292.21	298.08	302.40	298.34	7.68	7.71	7.97	8.00	8.02
15	GENERAL BUILDING CONTRACTORS	273.80	276.75	289.34	287.82	-	7.42	7.50	7.82	7.80	-
16	HEAVY CONSTRUCTION CONTRACTORS	297.25	298.70	294.03	303.46	-	7.25	7.25	7.26	7.33	-
161	Highway and street construction	291.33	293.41	292.22	306.29	-	6.92	6.92	7.11	7.19	-
162	Heavy construction, nec	302.00	303.11	296.00	301.38	-	7.55	7.54	7.40	7.46	-
17	SPECIAL TRADE CONTRACTORS	299.46	297.78	306.12	309.64	-	8.05	8.07	8.41	8.46	-
171	Plumbing, heating, air conditioning	315.65	313.68	329.38	332.64	-	8.22	8.19	8.60	8.64	-
172	Painting, paper hanging, decorating	259.81	263.77	275.96	277.46	-	7.36	7.43	7.95	7.95	-
173	Electrical work	340.74	342.52	352.49	358.34	-	8.92	8.99	9.45	9.48	-
174	Masonry, stonework, and plastering	269.26	272.00	272.90	282.54	-	7.85	7.93	8.22	8.31	-
176	Roofing and sheetmetal work	251.76	254.56	246.51	250.47	-	7.34	7.40	7.47	7.59	-
-	MANUFACTURING	208.00	208.40	228.48	226.16	226.16	5.20	5.21	5.60	5.64	5.64
19,24,25,32-39	DURABLE GOODS	224.78	225.99	249.00	244.01	244.61	5.55	5.58	6.00	6.01	6.01
20-23,26-31	NONDURABLE GOODS	183.85	184.24	200.19	200.43	200.70	4.69	4.70	5.03	5.10	5.12
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	232.88	232.53	252.15	250.63	251.30	5.75	5.77	6.15	6.25	6.33
192	Ammunition, except for small arms	228.73	231.85	259.43	251.94	(*)	5.82	5.84	6.39	6.46	(*)
1925	Complete guided missiles	249.95	254.32	289.34	283.46	-	6.36	6.39	7.04	7.14	-
1929	Ammunition, exc. for small arms, nec.	188.94	192.94	210.54	202.39	-	4.82	4.86	5.29	5.34	-
24	LUMBER AND WOOD PRODUCTS	194.32	196.10	203.91	204.72	205.31	4.81	4.83	5.01	5.08	5.12
242	Sawmills and planing mills	192.23	193.93	203.35	202.46	204.76	4.70	4.73	4.90	4.95	4.97
2421	Sawmills and planing mills, general	201.88	203.03	212.07	211.67	-	4.90	4.94	5.11	5.15	-
243	Millwork, plywood and related products	199.17	199.67	209.61	211.58	215.33	4.93	4.93	5.15	5.25	5.33
2431	Millwork	184.32	185.10	200.40	199.76	-	4.69	4.71	5.01	5.07	-
2432	Veneer and plywood	219.72	221.43	229.87	233.23	-	5.32	5.31	5.46	5.62	-
244	Wooden containers	138.67	140.91	149.23	144.77	(*)	3.63	3.66	3.74	3.78	(*)
2441,2	Wooden boxes, shooks, and crates	136.58	139.20	147.29	141.73	-	3.52	3.56	3.71	3.72	-
249	Miscellaneous wood products	156.02	159.20	169.24	168.35	169.62	3.96	3.97	4.21	4.23	4.23
25	FURNITURE AND FIXTURES	151.65	156.39	167.78	165.17	172.53	3.97	4.01	4.28	4.29	4.39
251	Household furniture	142.13	146.67	156.35	153.52	(*)	3.75	3.79	4.04	4.04	(*)
2511	Wood household furniture	137.00	140.62	148.93	147.44	-	3.54	3.56	3.78	3.80	-
2512	Upholstered household furniture	144.94	150.26	163.81	159.16	-	3.96	4.05	4.38	4.29	-
2515	Mattresses and bedspreads	159.47	164.92	172.21	175.78	-	4.31	4.34	4.58	4.70	-
252	Office furniture	177.18	185.59	206.24	199.96	-	4.52	4.56	4.83	4.83	-
254	Partitions and fixtures	189.43	196.09	206.04	203.84	-	4.82	4.89	5.19	5.24	-
253,9	Other furniture and fixtures	167.42	170.09	189.92	185.25	187.63	4.36	4.35	4.76	4.75	4.75
32	STONE, CLAY, AND GLASS PRODUCTS	219.60	222.44	243.18	241.53	243.69	5.33	5.36	5.79	5.82	5.83
321	Flat glass	294.79	296.78	306.43	299.52	-	6.92	6.87	7.21	7.27	-
322	Glass and glassware, pressed or blown	219.92	221.41	246.44	244.82	(*)	5.43	5.44	6.07	6.09	(*)
3221	Glass containers	230.11	234.43	260.12	259.90	-	5.64	5.69	6.36	6.37	-
3229	Pressed and blown glass, nec	203.60	200.70	226.73	222.61	-	5.09	5.03	5.64	5.65	-
324	Cement, hydraulic	308.58	310.06	345.35	350.45	(*)	7.40	7.40	8.05	8.15	(*)
325	Structural clay products	173.83	175.51	191.63	189.78	190.34	4.25	4.26	4.64	4.64	4.62
3251	Brick and structural clay tile	162.57	162.09	171.81	173.06	-	3.88	3.85	4.16	4.17	-
326	Pottery and related products	171.45	170.28	196.00	190.88	-	4.50	4.40	5.00	5.01	-
327	Concrete, gypsum, and plaster products	231.98	234.79	251.94	253.58	254.32	5.37	5.41	5.70	5.75	5.78
328,9	Other stone and nonmetallic mineral products	209.04	212.74	231.99	228.89	(*)	5.20	5.24	5.59	5.61	(*)
3291	Abrasive products	203.58	206.33	221.13	221.29	-	5.22	5.25	5.46	5.56	-

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
—	TOTAL PRIVATE	36.6	36.6	36.4	36.5	36.4	—	—	—	—	—
—	MINING	42.7	41.2	44.6	43.7	42.0	—	—	—	—	—
10	METAL MINING	42.0	41.2	41.6	41.8	—	—	—	—	—	
101	Iron ores	44.2	42.7	43.9	43.7	—	—	—	—	—	
102	Copper ores	39.5	39.4	38.2	38.6	—	—	—	—	—	
11,12	COAL MINING	(*)	31.5	42.1	39.6	—	—	—	—	—	
12	Bituminous coal and lignite mining	(*)	31.3	42.1	39.5	—	—	—	—	—	
13	OIL AND GAS EXTRACTION	44.7	45.4	46.6	46.2	—	—	—	—	—	
131,2	Crude petroleum and natural gas fields	41.6	42.0	42.4	42.3	—	—	—	—	—	
138	Oil and gas field services	46.2	47.1	48.4	47.9	—	—	—	—	—	
14	NONMETALLIC MINERALS, EXCEPT										
	FUELS	44.8	44.8	45.8	45.6	—	—	—	—	—	
142	Crushed and broken stone	44.8	45.0	46.5	46.4	—	—	—	—	—	
—	CONTRACT CONSTRUCTION	37.9	37.9	37.4	37.8	37.2	—	—	—	—	
15	GENERAL BUILDING CONTRACTORS	36.9	36.9	37.0	36.9	—	—	—	—	—	
16	HEAVY CONSTRUCTION CONTRACTORS										
161	Highway and street construction	41.0	41.2	40.5	41.4	—	—	—	—	—	
162	Heavy construction, nec	42.1	42.4	41.1	42.6	—	—	—	—	—	
17	SPECIAL TRADE CONTRACTORS	40.0	40.2	40.0	40.4	—	—	—	—	—	
171	Plumbing, heating, air conditioning	37.2	36.9	36.4	36.6	—	—	—	—	—	
172	Painting, paper hanging, decorating	38.4	38.3	38.3	38.5	—	—	—	—	—	
172	Painting, paper hanging, decorating	35.3	35.5	34.8	34.9	—	—	—	—	—	
173	Electrical work	38.2	38.1	37.3	37.8	—	—	—	—	—	
174	Masonry, stonework, and plastering	34.3	34.3	33.2	34.0	—	—	—	—	—	
176	Roofing and sheet metal work	34.3	34.4	33.0	33.0	—	—	—	—	—	
—	MANUFACTURING	40.0	40.0	40.8	40.1	40.1	3.1	3.1	3.5	3.3	
19,24,25,32-39	DURABLE GOODS	40.5	40.5	41.5	40.6	40.7	3.2	3.2	3.7	3.5	
20-23,26-31	NONDURABLE GOODS	39.2	39.2	39.8	39.3	39.2	3.0	3.0	3.2	3.1	
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	40.5	40.3	41.0	40.1	39.7	2.9	2.7	2.6	2.9	
192	Ammunition, except for small arms	39.3	39.7	40.6	39.0	(*)	1.9	2.3	2.5	2.3	
1925	Complete guided missiles	39.3	39.8	41.1	39.7	—	—	—	—	—	
1929	Ammunition, exc. for small arms, nec.	39.2	39.7	39.8	37.9	—	—	—	—	—	
24	LUMBER AND WOOD PRODUCTS	40.4	40.6	40.7	40.3	40.1	3.5	3.8	4.0	3.9	
242	Sawmills and planing mills	40.9	41.0	41.5	40.9	41.2	4.1	4.4	4.5	4.4	
2421	Sawmills and planing mills, general	41.2	41.1	41.5	41.1	—	—	—	—	—	
243	Millwork, plywood and related products	40.4	49.5	40.7	40.3	40.4	3.3	3.6	3.8	3.8	
2431	Millwork	39.3	39.3	40.0	39.4	—	—	—	—	—	
2432	Veneer and plywood	41.3	41.7	42.1	41.5	—	—	—	—	—	
244	Wooden containers	38.2	38.5	39.9	38.3	(*)	2.6	2.6	3.1	2.6	
2441,2	Wooden boxes, shooks, and crates	38.8	39.1	39.7	38.1	—	—	—	—	—	
249	Miscellaneous wood products	39.4	40.1	40.2	39.8	40.1	2.6	3.3	3.6	3.3	
25	FURNITURE AND FIXTURES	38.2	39.0	39.2	38.5	39.3	1.7	2.2	2.5	2.1	
251	Household furniture	37.9	38.7	38.7	38.0	(*)	1.5	2.0	2.3	1.9	
2511	Wood household furniture	38.7	39.5	39.4	38.8	—	2.0	2.5	2.8	2.3	
2512	Upholstered household furniture	36.6	37.1	37.4	37.1	—	—	—	—	—	
2515	Mattresses and bedsprings	37.0	38.0	37.6	37.4	—	—	—	—	—	
252	Office furniture	39.2	40.7	42.7	41.4	—	2.1	2.7	4.0	3.5	
254	Partitions and fixtures	39.3	40.1	39.7	38.9	—	2.9	3.4	2.5	2.6	
253,9	Other furniture and fixtures	38.4	39.1	39.9	39.0	39.5	1.6	1.8	2.2	1.5	
32	STONE, CLAY, AND GLASS PRODUCTS	41.2	41.5	42.0	41.5	41.8	4.2	4.5	4.8	4.9	
321	Flat glass	42.6	43.2	42.5	41.2	—	5.2	5.6	7.1	6.8	
322	Glass and glassware, pressed or blown	40.5	40.7	40.6	40.2	(*)	4.2	4.2	3.9	4.2	
3221	Glass containers	40.8	41.2	40.9	40.8	—	—	—	—	—	
3229	Pressed and blown glass, nec	40.0	39.9	40.2	39.4	—	3.3	3.0	2.8	3.1	
324	Cement, hydraulic	41.7	41.9	42.9	43.0	(*)	3.2	3.3	4.2	4.4	
325	Structural clay products	40.9	41.2	41.3	40.9	41.2	4.1	4.2	4.2	4.3	
3251	Brick and structural clay tile	41.9	42.1	41.3	41.5	—	—	—	—	—	
326	Pottery and related products	38.1	38.7	39.2	38.1	—	1.9	2.2	2.2	2.0	
327	Concrete, gypsum and plaster										
	products	43.2	43.4	44.2	44.1	44.0	5.9	6.2	6.8	7.1	
328,9	Other stone and nonmetallic mineral										
	products	40.2	40.6	41.5	40.8	(*)	2.9	3.3	3.8	3.7	
3291	Abrasive products	39.0	39.3	40.5	39.8	—	—	—	—	—	

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
DURABLE GOODS—Continued											
	PRIMARY METAL INDUSTRIES	\$280.03	\$280.95	\$310.67	\$307.91	\$310.78	\$6.83	\$6.92	\$7.45	\$7.51	\$7.58
33	Blast furnace and basic steel products	312.83	314.40	348.57	347.17	(*)	7.63	7.86	8.44	8.53	(*)
3312	Blast furnaces and steel mills	319.80	320.79	355.93	355.25	—	7.80	8.06	8.66	8.75	—
332	Iron and steel foundries	253.78	256.68	279.64	278.47	(*)	6.22	6.20	6.69	6.71	(*)
3321	Gray iron foundries	267.71	269.02	294.04	291.60	—	6.42	6.39	6.87	6.91	—
3322	Malleable iron foundries	257.54	264.37	272.83	273.86	—	6.57	6.56	6.96	7.04	—
3323	Steel foundries	217.56	221.29	244.42	245.84	—	5.55	5.56	6.08	6.07	—
333,4	Nonferrous metals	277.72	278.30	301.67	306.36	(*)	6.66	6.69	7.34	7.40	(*)
3334	Primary aluminum	310.17	306.77	342.37	348.19	—	7.35	7.41	8.31	8.31	—
335	Nonferrous rolling and drawing	254.10	255.40	282.96	277.13	280.87	6.05	6.11	6.55	6.63	6.64
3351	Copper rolling and drawing	249.23	254.07	282.19	267.55	—	5.92	5.95	6.37	6.34	—
3352	Aluminum rolling and drawing	272.00	272.00	301.80	305.59	—	6.37	6.40	6.97	7.14	—
3357	Nonferrous wire drawing and insulating	249.00	252.95	273.48	266.20	—	6.00	6.11	6.36	6.43	—
336	Nonferrous foundries	210.25	209.32	232.82	226.40	(*)	5.23	5.22	5.61	5.59	(*)
3361	Aluminum castings	214.27	213.99	240.66	235.42	—	5.33	5.31	5.73	5.77	—
3362,9	Other nonferrous castings	203.71	203.49	223.04	215.47	—	5.08	5.10	5.44	5.36	—
339	Miscellaneous primary metal products	258.24	205.73	293.02	277.09	(*)	6.44	6.38	7.01	6.91	(*)
3391	Iron and steel forgings	275.37	267.13	312.00	290.08	—	6.85	6.78	7.50	7.40	—
34	FABRICATED METAL PRODUCTS	220.05	223.86	242.11	235.89	238.62	5.42	5.46	5.82	5.81	5.82
341	Metal cans	327.73	321.22	345.33	352.01	(*)	7.14	7.17	7.54	7.57	(*)
342	Cutlery, hand tools, and hardware	206.68	212.10	216.52	210.14	(*)	5.18	5.25	5.32	5.28	(*)
3421,3,5	Cutlery and hand tools, incl. saws	189.21	195.05	207.25	205.42	—	4.79	4.84	5.13	5.11	—
3429	Hardware, nec	218.95	224.37	222.36	213.30	—	5.46	5.54	5.45	5.40	—
343	Plumbing and heating, except electric	193.64	197.56	204.73	201.11	(*)	4.89	4.89	5.17	5.21	(*)
3431,2	Sanitary ware and plumbers' brass goods	191.98	191.48	206.19	193.88	—	4.91	4.86	5.26	5.17	—
3433	Heating equipment, except electric	195.69	202.29	204.11	208.03	—	4.88	4.91	5.09	5.24	—
344	Fabricated structural metal products	212.00	217.49	229.30	227.13	233.13	5.30	5.37	5.62	5.65	5.70
3441	Fabricated structural steel	230.16	238.14	247.94	244.82	—	5.60	5.67	5.96	6.03	—
3442	Metal doors, sash, and trim	170.13	172.04	179.15	172.60	—	4.34	4.40	4.49	4.46	—
3443	Fabricated plate work (boiler shops)	221.87	231.38	246.84	244.16	—	5.66	5.77	6.11	6.15	—
3444	Sheet metal work	217.95	220.00	235.18	233.51	—	5.49	5.50	5.75	5.78	—
3446,9	Architectural and misc. metal work	206.82	209.39	223.27	228.60	—	5.02	5.07	5.38	5.43	—
345	Screw machine products, bolts, etc	217.46	219.98	242.09	233.52	238.01	5.24	5.25	5.63	5.60	5.64
3451	Screw machine products	209.16	208.33	225.46	221.31	—	5.04	5.02	5.28	5.32	—
3452	Bolts, nuts, rivets, and washers	226.30	230.83	258.93	245.78	—	5.44	5.47	5.98	5.88	—
346	Metal stampings	250.28	257.46	294.55	278.39	(*)	6.06	6.13	6.85	6.79	(*)
347	Metal services, nec	178.09	179.74	191.09	186.12	187.78	4.43	4.46	4.73	4.70	4.73
348	Miscellaneous fabricated wire products	185.80	188.03	204.00	197.60	202.21	4.68	4.62	5.00	4.99	5.03
349	Miscellaneous fabricated metal products	210.94	213.86	239.04	232.53	(*)	5.30	5.32	5.76	5.77	(*)
3494,8	Valves, pipe, and pipe fittings	215.42	217.60	244.95	236.74	—	5.44	5.44	5.86	5.86	—
35	MACHINERY, EXCEPT ELECTRICAL	234.60	237.39	257.69	253.18	252.77	5.75	5.79	6.15	6.16	6.15
351	Engines and turbines	273.50	278.24	289.58	295.30	(*)	6.72	6.87	7.15	7.15	(*)
3511	Steam engines and turbines	264.06	266.74	259.52	258.33	—	6.52	6.57	6.57	6.59	—
3519	Internal combustion engines, nec	277.85	282.80	303.81	312.17	—	6.81	7.00	7.41	7.38	—
352	Farm machinery	244.40	242.00	271.65	263.74	—	6.11	6.05	6.53	6.48	—
353	Construction and related machinery	241.19	246.44	275.04	268.55	(*)	6.06	6.07	6.58	6.55	(*)
3531,2	Construction and mining machinery	252.71	260.40	296.23	287.83	—	6.53	6.51	7.19	7.16	—
3533	Oil field machinery	231.85	242.52	261.44	262.57	—	5.56	5.64	6.01	6.05	—
3535,6	Conveyors, hoists, cranes, monorails	232.25	222.32	248.17	241.90	—	5.61	5.60	5.98	5.90	—
3537	Industrial trucks and tractors	216.37	216.40	239.95	226.73	—	5.45	5.41	5.81	5.74	—
354	Metal working machinery	243.85	246.69	278.19	271.36	(*)	5.89	5.93	6.41	6.40	(*)
3541	Machine tools, metal cutting types	247.70	246.74	290.79	280.14	—	5.94	5.96	6.52	6.53	—
3544	Special dies, tools, jigs and fixtures	266.41	269.61	301.27	292.52	—	6.21	6.27	6.77	6.74	—
3545	Machine tool accessories	222.77	224.52	251.69	248.17	—	5.46	5.53	5.95	5.98	—
3542,8	Miscellaneous metal working machinery	214.73	218.99	241.84	238.14	—	5.52	5.53	5.87	5.88	—
355	Special industry machinery	215.20	218.30	238.88	236.87	241.78	5.34	5.39	5.77	5.82	5.84
3551	Food products machinery	225.74	231.09	247.25	248.67	—	5.56	5.65	6.06	6.14	—
3552	Textile machinery	180.35	183.47	196.11	191.92	—	4.52	4.53	4.76	4.81	—
3555	Printing trades machinery	225.32	221.03	251.74	244.16	—	5.69	5.61	6.17	6.15	—
356	General industrial machinery	230.68	234.03	255.01	251.53	(*)	5.71	5.75	6.13	6.18	(*)
3561	Pumps and compressors	227.43	236.23	259.01	246.83	—	5.70	5.79	6.08	6.14	—
3562	Ball and roller bearings	245.37	247.57	258.96	260.63	—	5.97	5.98	6.21	6.25	—
3564	Blowers and fans	220.66	221.78	234.43	236.23	—	5.33	5.37	5.69	5.79	—
3566	Power transmission equipment	233.21	234.93	253.17	251.53	—	5.73	5.73	6.13	6.18	—
357	Office and computing machines	221.76	223.13	226.80	222.50	(*)	5.28	5.30	5.40	5.44	(*)
3573	Electronic computing equipment	232.35	234.18	232.78	229.36	—	5.48	5.51	5.49	5.54	—
358	Service industry machines	212.74	211.20	222.96	218.90	222.24	5.24	5.28	5.56	5.77	5.57
3585	Refrigeration machinery	217.54	213.86	221.43	217.28	—	5.28	5.32	5.62	5.60	—
359	Miscellaneous machinery, except electrical	230.74	234.64	250.84	245.27	245.74	5.56	5.60	5.93	5.91	5.95

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
DURABLE GOODS—Continued											
33	PRIMARY METAL INDUSTRIES	41.0	40.6	41.7	41.0	41.0	3.6	3.5	3.8	3.7	—
331	Blast furnace and basic steel products	41.0	40.0	41.3	40.7	(*)	3.2	2.8	2.9	2.9	—
3312	Blast furnaces and steel mills	41.0	39.8	41.1	40.6	—	3.2	2.7	2.7	2.8	—
332	Iron and steel foundries	40.8	41.4	41.8	41.5	(*)	4.4	4.4	4.6	4.6	—
3321	Gray iron foundries	41.7	42.1	42.8	42.2	—	5.2	5.0	5.2	5.2	—
3322	Malleable iron foundries	39.2	40.3	39.2	38.9	—	—	—	—	—	—
3323	Steel foundries	39.2	39.8	40.2	40.5	—	2.8	3.2	3.8	3.4	—
333,4	Nonferrous metals	41.7	41.6	41.1	41.4	(*)	4.0	3.6	3.5	3.7	—
3334	Primary aluminum	42.2	41.4	41.2	41.9	—	—	—	—	—	—
335	Nonferrous rolling and drawing	42.0	41.8	43.2	41.8	42.3	4.2	4.7	5.3	5.0	—
3351	Copper rolling and drawing	42.1	42.7	44.3	42.2	—	—	—	—	—	—
3352	Aluminum rolling and drawing	42.7	42.5	43.3	42.8	—	5.2	4.8	6.3	6.8	—
3357	Nonferrous wire drawing and insulating	41.5	41.4	43.0	41.4	—	3.9	4.7	4.9	4.3	—
336	Nonferrous foundries	40.2	40.1	41.5	40.5	(*)	3.0	2.9	3.8	3.4	—
3361	Aluminum castings	40.2	40.3	42.0	40.8	—	—	—	—	—	—
3362,9	Other nonferrous castings	40.1	39.9	41.0	40.2	—	—	—	—	—	—
339	Miscellaneous primary metal products	40.1	39.3	41.8	40.1	(*)	3.4	3.6	4.3	3.8	—
3391	Iron and steel forgings	40.2	39.4	41.6	39.2	—	—	—	—	—	—
34	FABRICATED METAL PRODUCTS	40.6	41.0	41.6	40.6	41.0	3.2	3.5	3.8	3.6	—
341	Metal cans	45.9	44.8	45.8	46.5	(*)	5.7	4.9	4.7	5.3	—
342	Cutlery, hand tools, and hardware	39.9	40.4	40.7	39.8	(*)	2.7	3.2	3.2	2.7	—
3421,3,5	Cutlery and hand tools, incl. saws	39.5	40.3	40.4	40.2	—	—	—	—	—	—
3429	Hardware, nec	40.1	40.5	40.8	39.5	—	—	—	—	—	—
343	Plumbing and heating, except electric	39.6	40.4	39.6	38.6	(*)	2.9	2.9	2.5	2.5	—
3431,2	Sanitary ware and plumbers' brass goods	39.1	39.4	39.2	37.5	—	—	—	—	—	—
3433	Heating equipment, except electric	40.1	41.2	40.1	39.7	—	—	—	—	—	—
344	Fabricated structural metal products	40.0	40.5	40.8	40.2	40.9	2.7	3.1	3.2	3.3	—
3441	Fabricated structural steel	41.1	42.0	41.6	40.6	—	2.6	3.8	3.3	3.3	—
3442	Metal doors, sash, and trim	39.2	39.1	39.9	38.7	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops)	39.2	40.1	40.4	39.7	—	2.3	2.6	3.1	3.1	—
3444	Sheet metal work	39.7	40.0	40.9	40.4	—	—	—	—	—	—
3446,9	Architectural and misc. metal work	41.2	41.3	41.5	42.1	—	—	—	—	—	—
345	Screw machine products, bolts, etc	41.5	41.9	43.0	41.7	42.2	3.6	4.0	4.9	4.2	—
3451	Screw machine products	41.5	41.5	42.7	41.6	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers	41.6	42.2	43.3	41.8	—	—	—	—	—	—
346	Metal stampings	41.3	42.0	43.0	41.0	(*)	4.1	4.4	5.6	4.9	—
347	Metal services, nec	40.2	40.3	40.4	39.6	39.7	3.5	3.5	3.5	3.1	—
348	Miscellaneous fabricated wire products	39.7	40.7	40.8	39.6	40.2	2.6	3.1	2.9	2.5	—
349	Miscellaneous fabricated metal products	39.8	40.2	41.5	40.3	(*)	2.7	3.0	3.7	3.2	—
3494,8	Valves, pipe, and pipe fittings	39.6	40.0	41.8	40.4	—	—	—	—	—	—
35	MACHINERY, EXCEPT ELECTRICAL	40.8	41.0	41.9	41.1	41.1	3.0	3.2	3.8	3.6	—
351	Engines and turbines	40.7	40.5	40.5	41.3	(*)	3.6	3.9	2.7	4.0	—
3511	Steam engines and turbines	40.5	40.6	39.5	39.2	—	—	—	—	—	—
3519	Internal combustion engines, nec	40.8	40.4	41.0	42.3	—	—	—	—	—	—
352	Farm machinery	40.0	40.0	41.6	40.7	—	2.7	3.1	3.7	4.0	—
353	Construction and related machinery	39.8	40.6	41.8	41.0	(*)	2.2	2.5	3.1	3.0	—
3531,2	Construction and mining machinery	38.7	40.0	41.2	40.2	—	1.4	2.1	2.5	2.3	—
3533	Oil field machinery	41.7	43.0	43.5	43.4	—	—	—	—	—	—
3535,6	Conveyors, hoists, cranes, monorails	41.4	39.7	41.5	41.0	—	—	—	—	—	—
3537	Industrial trucks and tractors	39.7	40.0	41.3	39.5	—	—	—	—	—	—
354	Metal working machinery	41.4	41.6	43.4	42.4	(*)	3.9	3.9	5.3	4.8	—
3541	Machine tools, metal cutting types	41.7	41.4	44.6	42.9	—	3.5	3.6	5.2	4.5	—
3544	Special dies, tools, jig and fixtures	42.9	43.0	44.5	43.4	—	—	—	—	—	—
3545	Machine tool accessories	40.8	40.6	42.3	41.5	—	3.4	2.9	4.2	4.1	—
3542,8	Miscellaneous metal working machinery	38.9	39.6	41.2	40.5	—	—	—	—	—	—
355	Special industry machinery	40.3	40.5	41.4	40.7	41.4	2.5	2.8	3.4	3.1	—
3551	Food products machinery	40.6	40.9	40.8	40.5	—	—	—	—	—	—
3552	Textile machinery	39.9	40.5	41.2	39.9	—	—	—	—	—	—
3555	Printing trades machinery	39.6	39.4	40.8	39.7	—	—	—	—	—	—
356	General industrial machinery	40.4	40.7	41.6	40.7	(*)	2.8	3.2	3.7	3.5	—
3561	Pumps and compressors	39.9	40.8	42.6	40.2	—	2.5	3.5	4.6	3.8	—
3562	Ball and roller bearings	41.1	41.4	41.7	41.7	—	3.5	3.7	3.9	4.1	—
3564	Blowers and fans	41.4	41.3	41.2	40.8	—	—	—	—	—	—
3566	Power transmission equipment	40.7	41.0	41.3	40.7	—	3.2	3.5	3.3	3.5	—
357	Office and computing machines	42.0	42.1	42.0	40.9	(*)	2.7	3.1	3.0	2.8	—
3573	Electronic computing equipment	42.4	42.5	42.4	41.4	—	—	—	—	—	—
358	Service industry machines	40.6	40.0	40.1	39.3	39.9	2.8	2.3	2.8	2.7	—
3585	Refrigeration machinery	41.2	40.2	39.4	38.8	—	3.1	2.2	2.8	2.7	—
359	Miscellaneous machinery, except electrical	41.5	41.9	42.3	41.5	41.3	3.6	3.9	4.4	4.1	—

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				
		July 1976	Aug. 1976	June 1977	July p 1977	Aug. p 1977	July 1976	Aug. 1976	June 1977	July p 1977	Aug. p 1977
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	\$193.55	\$198.00	\$214.77	\$211.60	\$218.43	\$4.90	\$4.95	\$5.29	\$5.33	\$5.38
361	Electric test and distributing equipment	205.65	204.49	218.97	214.52	218.56	5.18	5.19	5.38	5.39	5.37
3611	Electric measuring instruments	201.39	202.18	209.60	204.88	—	5.06	5.08	5.24	5.20	—
3612	Transformers	196.31	198.70	210.43	208.12	—	4.92	4.98	5.12	5.19	—
3613	Switchgear and switchboard apparatus	213.94	209.91	233.45	228.00	—	5.43	5.41	5.68	5.70	—
362	Electrical industrial apparatus	194.93	200.49	218.41	215.86	219.51	4.96	5.05	5.34	5.41	5.42
3621	Motors and generators	198.69	204.57	226.74	223.67	—	5.03	5.14	5.49	5.55	—
3622	Industrial controls	181.93	190.81	196.42	192.27	—	4.75	4.88	4.96	5.02	—
363	Household appliances	192.86	195.13	206.52	207.62	(*)	4.92	4.94	5.22	5.31	(*)
3632	Household refrigerators and freezers	211.72	213.47	222.50	234.48	—	5.36	5.35	5.44	5.65	—
3633	Household laundry equipment	220.47	228.85	230.14	230.26	—	5.61	5.75	6.17	6.24	—
3634	Electric housewares and fans	161.77	164.51	172.72	171.52	—	4.18	4.24	4.44	4.49	—
364	Electric lighting and wiring equipment	179.93	185.97	199.89	198.58	203.20	4.59	4.72	4.96	5.04	5.08
3641	Electric lamps	190.69	205.00	216.52	213.59	—	4.72	5.00	5.23	5.38	—
3642	Lighting fixtures	182.50	190.03	198.58	198.51	—	4.79	4.86	5.04	5.09	—
3643,4	Wiring devices	172.97	174.72	192.63	191.09	—	4.39	4.48	4.78	4.85	—
365	Radio and TV receiving equipment	173.42	178.23	190.03	181.74	(*)	4.60	4.57	4.86	4.77	(*)
366	Communication equipment	220.25	228.73	251.49	244.01	249.89	5.52	5.62	6.06	6.07	6.08
3661	Telephone and telegraph apparatus	223.67	235.98	260.60	251.33	—	5.55	5.70	6.19	6.16	—
3662	Radio and TV communication equipment	217.80	222.96	243.36	238.20	—	5.50	5.56	5.95	6.00	—
367	Electronic components and accessories	163.15	165.20	181.04	179.44	(*)	4.12	4.13	4.47	4.52	(*)
3671-3	Electron tubes	208.55	210.65	235.06	236.86	—	5.24	5.24	5.61	5.68	—
3674,9	Other electronic components	156.82	159.60	174.10	172.22	—	3.97	3.99	4.32	4.36	—
369	Miscellaneous electrical equip. and supplies	231.74	238.71	258.32	254.61	(*)	5.68	5.67	6.18	6.21	(*)
3694	Engine electrical equipment	253.37	255.07	287.80	282.76	—	6.12	6.03	6.82	6.83	—
37	TRANSPORTATION EQUIPMENT	273.00	266.67	310.18	300.59	292.63	6.50	6.52	7.18	7.14	7.12
371	Motor vehicles and equipment	309.93	296.52	360.36	348.74	(*)	7.06	7.06	7.92	7.89	(*)
3711	Motor vehicles	331.81	298.41	383.87	368.83	—	7.39	7.35	8.22	8.16	—
3712	Passenger car bodies	337.40	290.57	404.76	374.11	—	8.29	7.79	8.78	8.95	—
3713	Truck and bus bodies	224.95	222.60	251.68	256.88	—	5.50	5.51	6.05	6.25	—
3714	Motor vehicle parts and accessories	304.41	308.00	355.27	347.41	—	6.95	7.00	7.86	7.86	—
3715	Truck trailers	193.22	193.61	213.20	210.54	—	4.98	4.99	5.33	5.30	—
372	Aircraft and parts	263.90	263.25	287.58	284.28	(*)	6.50	6.50	6.88	6.90	(*)
3721	Aircraft	271.47	271.58	295.81	292.99	—	6.67	6.64	7.06	7.06	—
3722	Aircraft engines and engine parts	267.71	264.14	286.34	283.50	—	6.61	6.62	6.95	7.00	—
3723,9	Other aircraft parts and equipment	241.40	240.99	271.58	266.02	—	5.99	5.98	6.39	6.41	—
373	Ship and boat building and repairing	222.26	216.41	234.81	(*)	(*)	5.67	5.71	5.99	(*)	(*)
3731	Ship building and repairing	235.20	229.67	250.49	243.84	—	6.00	6.06	6.39	6.35	—
3732	Boat building and repairing	175.89	171.45	182.52	182.28	—	4.51	4.50	4.68	4.71	—
374	Railroad equipment	257.54	267.92	297.75	(*)	—	6.57	6.80	7.28	(*)	—
375,9	Other transportation equipment	175.43	177.51	187.07	182.83	—	4.43	4.46	4.76	4.70	—
38	INSTRUMENTS AND RELATED PRODUCTS	196.66	196.98	209.61	207.48	205.88	4.88	4.90	5.15	5.20	5.16
381	Engineering and scientific instruments	208.68	209.16	224.26	220.00	—	5.14	5.19	5.43	5.50	—
382	Mechanical measuring and control devices	189.13	190.72	206.86	204.51	(*)	4.74	4.78	5.07	5.10	(*)
3821	Mechanical measuring devices	196.99	196.66	214.65	211.41	—	4.84	4.88	5.21	5.22	—
3822	Automatic temperature controls	177.25	182.03	194.17	193.55	—	4.58	4.62	4.83	4.90	—
383,5	Optical and ophthalmic goods	177.51	176.48	188.03	185.07	186.53	4.34	4.39	4.62	4.65	4.64
385	Ophthalmic goods	158.40	158.76	167.42	165.68	—	3.98	4.05	4.26	4.27	—
384	Medical instruments and supplies	170.52	173.09	181.03	177.10	(*)	4.35	4.36	4.56	4.60	(*)
386	Photographic equipment and supplies	253.57	252.14	269.80	272.41	(*)	6.11	6.12	6.47	6.58	(*)
387	Watches, clocks, and watchcases	152.48	152.87	166.76	169.97	—	3.88	3.88	4.19	4.26	—
39	MISC. MANUFACTURING INDUSTRIES	154.37	154.00	169.81	166.22	167.18	4.02	4.00	4.31	4.34	4.32
391	Jewelry, silverware, and plated ware	164.48	161.83	177.36	172.93	176.34	4.25	4.27	4.49	4.48	4.51
394	Toys and sporting goods	140.58	141.31	155.59	151.13	—	3.68	3.68	4.01	4.03	—
3941-3	Games, toys, dolls and play vehicles	135.55	134.85	147.07	142.45	—	3.53	3.53	3.81	3.85	—
3949	Sporting and athletic goods, nec	146.30	149.38	165.78	161.16	—	3.85	3.86	4.24	4.23	—
395	Pens, pencils, office and art supplies	161.98	161.99	169.81	169.22	—	3.97	3.98	4.31	4.35	—
396	Costume jewelry and notions	132.13	129.59	152.08	143.25	—	3.61	3.57	3.86	3.82	—
393,9	Other manufacturing industries	169.12	168.52	183.41	180.81	182.99	4.37	4.31	4.62	4.66	4.68
393	Musical instruments and parts	161.17	155.52	167.42	167.09	—	4.07	4.05	4.26	4.23	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	200.38	202.69	211.73	214.13	213.84	4.96	4.98	5.28	5.34	5.40
201	Meat products	204.12	205.44	211.74	213.05	(*)	5.04	5.06	5.32	5.38	(*)
2011	Meat packing plants	251.26	255.17	263.53	264.21	—	6.04	6.09	6.35	6.46	—
2013	Sausages and other prepared meats	247.01	245.42	255.20	260.74	—	6.01	6.03	6.38	6.47	—
2015	Poultry dressing plants	127.92	127.14	130.47	131.92	—	3.28	3.26	3.47	3.49	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	39.5	40.0	40.6	39.7	40.6	2.1	2.4	2.6	2.3	—
361	Electric test and distributing equipment	39.7	39.4	40.7	39.8	40.7	2.1	1.9	2.7	2.6	—
3611	Electric measuring instruments	39.8	39.8	40.0	39.4	—	1.8	1.9	2.1	1.9	—
3612	Transformers	39.9	39.9	41.1	40.1	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	39.4	38.8	41.1	40.0	—	—	—	—	—	—
362	Electrical industrial apparatus	39.3	39.7	40.9	39.9	40.5	2.3	2.2	2.9	2.7	—
3621	Motors and generators	39.5	39.8	41.3	40.3	—	2.5	2.5	3.5	3.4	—
3622	Industrial controls	38.3	39.1	39.6	38.3	—	1.9	1.7	1.8	1.6	—
363	Household appliances	39.2	39.5	39.6	39.1	(*)	1.7	2.1	1.9	1.8	—
3632	Household refrigerators and freezers	39.5	39.9	40.9	41.5	—	—	—	—	—	—
3633	Household laundry equipment	39.3	39.8	37.3	36.9	—	—	—	—	—	—
3634	Electric housewares and fans	38.7	38.8	38.9	38.2	—	1.5	2.0	1.7	1.2	—
364	Electric lighting and wiring equipment	39.2	39.4	40.3	39.4	40.0	1.8	2.3	2.3	1.9	—
3641	Electric lamps	40.4	41.0	41.4	39.7	—	1.4	2.4	1.9	1.5	—
3642	Lighting fixtures	38.1	39.1	39.4	39.0	—	1.9	2.4	2.3	2.0	—
3643,4	Wiring devices	39.4	39.0	40.3	39.4	—	1.9	2.1	2.5	2.0	—
365	Radio and TV receiving equipment	37.7	39.0	39.1	38.1	(*)	1.7	1.8	2.0	1.5	—
366	Communication equipment	39.9	40.7	41.5	40.2	41.1	1.6	2.6	2.8	2.3	—
3661	Telephone and telegraph apparatus	40.3	41.4	42.1	40.8	—	—	—	—	—	—
3662	Radio and TV communication equipment	39.6	40.1	40.9	39.7	—	1.9	2.8	2.5	2.4	—
367	Electronic components and accessories	39.6	40.0	40.5	39.7	(*)	2.4	2.6	2.5	2.1	—
3671-3	Electron tubes	39.8	40.2	41.9	41.7	—	1.3	1.5	2.4	2.2	—
3674,9	Other electronic components	39.5	40.0	40.3	39.5	—	2.5	2.7	2.5	2.1	—
369	Miscellaneous electrical equip. and supplies	40.8	42.1	41.8	41.0	(*)	3.0	3.8	3.9	3.6	—
3694	Engine electrical equipment	41.4	42.3	42.2	41.4	—	—	—	—	—	—
37	TRANSPORTATION EQUIPMENT	42.0	40.9	43.2	42.1	41.1	4.5	3.9	5.2	4.9	—
371	Motor vehicles and equipment	43.9	42.0	45.5	44.2	(*)	6.1	5.0	7.0	6.5	—
3711	Motor vehicles	44.9	40.6	46.7	45.2	—	7.1	4.7	7.4	6.7	—
3712	Passenger car bodies	40.7	37.3	46.1	41.8	—	—	—	—	—	—
3713	Truck and bus bodies	40.9	40.4	41.6	41.1	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	43.8	44.0	45.2	44.2	—	5.8	5.7	6.9	6.9	—
3715	Truck trailers	38.8	38.8	40.0	39.5	—	—	—	—	—	—
372	Aircraft and parts	40.6	40.5	41.8	41.2	(*)	2.9	2.7	3.3	3.2	—
3721	Aircraft	40.7	40.9	41.9	41.5	—	3.6	2.3	2.6	2.5	—
3722	Aircraft engines and engine parts	40.5	39.9	41.2	40.5	—	2.1	3.1	3.8	3.9	—
3723,9	Other aircraft parts and equipment	40.3	40.3	42.5	41.5	—	3.2	2.9	4.3	4.1	—
373	Ship and boat building and repairing	39.2	37.9	39.2	(*)	(*)	2.6	2.4	3.1	(*)	—
3731	Ship building and repairing	39.2	37.9	39.2	38.4	—	—	—	—	—	—
3732	Boat building and repairing	39.0	38.1	39.0	38.7	—	—	—	—	—	—
374	Railroad equipment	39.2	39.4	40.9	(*)	—	1.6	1.7	2.6	(*)	—
375,9	Other transportation equipment	39.6	39.8	39.3	38.9	—	2.6	2.6	2.7	2.4	—
38	INSTRUMENTS AND RELATED PRODUCTS.	40.3	40.2	40.7	39.9	39.9	2.3	2.4	2.4	2.0	—
381	Engineering and scientific instruments	40.6	40.3	41.3	40.0	—	2.4	2.7	2.9	2.5	—
382	Mechanical measuring and control devices	39.9	39.9	40.8	40.1	(*)	2.4	2.5	2.6	2.4	—
3821	Mechanical measuring devices	40.7	40.3	41.2	40.5	—	2.5	2.5	2.9	2.7	—
3822	Automatic temperature controls	38.7	39.4	40.2	39.5	—	2.3	2.7	2.2	2.0	—
383,5	Optical and ophthalmic goods	40.9	40.2	40.7	39.8	40.2	2.7	2.1	2.4	1.5	—
385	Ophthalmic goods	39.8	39.2	39.3	38.8	—	2.1	1.9	1.8	1.3	—
384	Medical instruments and supplies	39.2	39.7	39.7	38.5	(*)	1.6	2.1	2.2	1.7	—
386	Photographic equipment and supplies	41.5	41.2	41.7	41.4	(*)	2.9	3.0	2.2	2.3	—
387	Watches, clocks, and watch cases	39.3	39.4	39.8	39.9	—	1.8	1.8	1.9	1.5	—
39	MISC. MANUFACTURING INDUSTRIES	38.4	38.5	39.4	38.3	38.7	1.7	2.0	2.0	1.6	—
391	Jewelry, silverware, and plated ware	38.7	37.9	39.5	38.6	39.1	1.7	2.2	2.5	1.4	—
394	Toys and sporting goods	38.2	38.4	38.8	37.5	—	1.6	1.7	1.6	1.0	—
3941-3	Games, toys, dolls and play vehicles	38.4	38.2	38.6	37.0	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	38.0	38.7	39.1	38.1	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	40.8	40.7	39.4	38.9	—	2.2	2.6	1.9	2.2	—
396	Costume jewelry and notions	36.6	36.3	39.4	37.5	—	1.4	1.6	1.9	.9	—
393,9	Other manufacturing industries	38.7	39.1	39.7	38.8	39.1	1.8	2.1	2.2	2.0	—
393	Musical instruments and parts	39.6	38.4	39.3	39.5	—	1.3	1.1	1.3	1.1	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.4	40.7	40.1	40.1	39.6	4.2	4.2	3.8	4.1	—
201	Meat products	40.5	40.6	39.8	39.6	(*)	4.0	4.1	3.8	3.8	—
2011	Meat packing plants	41.6	41.9	41.5	40.9	—	4.4	4.7	4.6	4.2	—
2013	Sausages and other prepared meats	41.1	40.7	40.0	40.3	—	—	—	—	—	—
2015	Poultry dressing plants	39.0	39.0	37.6	37.8	—	—	—	—	—	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	\$208.40	\$204.52	\$222.83	\$226.80	\$224.27	\$4.95	\$4.94	\$5.17	\$5.25	\$5.24
2024	Ice cream and frozen desserts	204.60	196.61	218.27	218.50	—	4.93	4.94	5.16	5.19	—
2026	Fluid milk	218.54	214.95	232.05	238.61	—	5.13	5.13	5.25	5.35	—
203	Canned, cured, and frozen foods	159.18	178.00	165.76	173.12	—	4.20	4.45	4.48	4.58	—
2031,6	Canned, cured, and frozen sea foods	144.72	136.96	137.09	144.14	—	3.88	3.88	4.08	4.13	—
2032,3	Canned food, except sea foods	166.22	196.30	173.82	185.94	—	4.34	4.73	4.66	4.78	—
2037	Frozen fruits and vegetables	147.20	152.48	158.42	157.60	—	4.00	3.94	4.27	4.39	—
204	Grain mill products	237.36	237.01	248.60	251.41	(*)	5.31	5.35	5.65	5.74	(*)
2041	Flour and other grain mill products	262.26	263.29	267.60	275.81	—	5.58	5.59	5.83	5.97	—
2042	Prepared feeds for animals and fowls	201.59	202.46	208.01	206.97	—	4.45	4.56	4.76	4.78	—
205	Bakery products	206.32	204.36	216.70	219.78	218.51	5.21	5.20	5.50	5.55	5.56
2051	Bread, cake, and related products	205.27	202.80	215.91	219.38	—	5.21	5.20	5.48	5.54	—
2052	Cookies and crackers	208.12	209.68	219.38	220.41	—	5.19	5.19	5.54	5.58	—
206	Sugar	234.68	232.56	244.80	253.31	—	5.71	5.70	6.12	6.27	—
207	Confectionery and related products	178.03	180.29	190.30	188.86	(*)	4.53	4.53	4.83	4.88	(*)
2071	Confectionery products	170.87	171.35	178.33	179.80	—	4.37	4.36	4.62	4.67	—
208	Beverages	247.57	246.82	262.03	265.60	261.94	5.98	6.02	6.36	6.40	6.42
2082	Malt liquors	355.29	349.74	368.83	374.10	—	8.02	8.04	8.44	8.40	—
2086	Bottled and canned soft drinks	186.14	180.10	194.00	198.17	—	4.54	4.48	4.79	4.81	—
209	Miscellaneous foods and kindred products ..	202.31	200.72	211.74	210.64	(*)	4.84	4.86	5.09	5.15	(*)
21	TOBACCO MANUFACTURES	169.00	172.33	224.45	205.05	205.72	5.00	4.62	5.77	5.68	5.56
211	Cigarettes	199.33	217.54	262.28	235.72	—	5.88	5.96	6.64	6.64	—
212	Cigars	117.06	120.62	125.09	130.70	—	3.13	3.26	3.39	3.36	—
22	TEXTILE MILL PRODUCTS	148.03	148.50	159.51	161.20	163.62	3.71	3.75	3.90	4.02	4.06
221	Weaving mills, cotton	159.08	158.75	164.02	170.85	170.77	3.88	3.91	4.02	4.25	4.28
222	Weaving mills, synthetics	162.70	157.61	169.31	176.34	175.05	3.93	3.96	4.07	4.28	4.28
223	Weaving and finishing mills, wool	154.50	156.59	164.42	162.81	166.46	3.75	3.81	4.02	4.05	4.10
224	Narrow fabric mills	134.94	137.86	147.53	147.60	(*)	3.46	3.49	3.67	3.69	(*)
225	Knitting mills	131.41	133.70	145.33	142.82	146.63	3.41	3.50	3.67	3.70	3.75
2251	Women's hosiery, except socks	118.67	124.21	129.16	126.88	—	3.19	3.26	3.39	3.42	—
2252	Hosiery, nec	121.28	119.88	134.16	132.10	—	3.20	3.24	3.44	3.44	—
2253	Knit outerwear mills	129.43	133.86	142.84	136.89	—	3.47	3.56	3.71	3.67	—
2254	Knit underwear mills	118.67	123.71	129.75	130.50	—	3.19	3.23	3.37	3.48	—
226	Textile finishing, except wool	157.99	159.17	174.30	169.42	(*)	4.01	4.05	4.16	4.30	(*)
227	Floor covering mills	159.39	162.18	171.77	174.72	—	3.85	3.88	4.08	4.15	—
228	Yarn and thread mills	140.35	139.74	152.67	155.83	156.65	3.50	3.52	3.67	3.81	3.83
229	Miscellaneous textile goods	159.19	160.00	178.90	178.30	178.64	3.96	4.00	4.28	4.37	4.40
23	APPAREL AND OTHER TEXTILE PRODUCTS	120.68	121.75	130.32	127.09	127.80	3.39	3.42	3.62	3.58	3.60
231	Men's and boys' suits and coats	151.52	150.17	162.63	159.04	(*)	4.14	4.23	4.53	4.48	(*)
232	Men's and boys' furnishings	111.26	111.57	117.57	116.28	115.67	3.04	3.04	3.23	3.23	3.24
2321	Men's and boys' shirts and nightwear	108.41	109.30	114.03	113.17	—	2.97	2.97	3.15	3.17	—
2327	Men's and boys' separate trousers	116.00	113.09	116.32	115.60	—	3.11	3.09	3.24	3.22	—
2328	Men's and boys' work clothing	107.58	110.70	118.93	116.07	—	2.98	3.00	3.18	3.18	—
233	Women's and misses' outerwear	117.92	117.48	125.06	122.98	(*)	3.52	3.56	3.70	3.66	(*)
2331	Women's and misses' blouses and waists ..	111.41	113.54	122.42	117.99	—	3.22	3.32	3.59	3.44	—
2335	Women's and misses' dresses	116.64	116.16	121.60	121.18	—	3.60	3.63	3.73	3.74	—
2337	Women's and misses' suits and coats	136.45	134.88	143.06	140.44	—	4.11	4.15	4.22	4.23	—
2339	Women's and misses' outerwear, nec	113.75	111.80	122.13	118.96	—	3.25	3.25	3.45	3.37	—
234	Women's and children's undergarments	110.67	114.35	124.54	118.70	121.84	3.10	3.15	3.33	3.27	3.32
2341	Women's and children's underwear	109.69	111.75	119.31	114.98	—	3.03	3.07	3.19	3.15	—
2342	Corsets and allied garments	114.24	123.15	142.85	132.43	—	3.35	3.44	3.84	3.72	—
236	Hats, caps, and millinery	117.48	110.53	119.57	112.81	—	3.02	3.02	3.18	3.16	—
236	Children's outerwear	109.96	109.70	119.79	115.43	(*)	3.08	3.09	3.30	3.27	(*)
2361	Children's dresses and blouses	109.12	106.11	120.18	115.81	—	3.10	3.13	3.32	3.29	—
237,8	Fur goods and miscellaneous apparel	123.14	122.38	131.77	129.60	—	3.34	3.39	3.61	3.62	—
239	Miscellaneous fabricated textile products ..	142.86	149.75	160.99	154.19	(*)	3.83	3.91	4.16	4.09	(*)
2391,2	Housefurnishings	116.07	118.99	127.72	127.57	—	3.18	3.19	3.37	3.42	—
26	PAPER AND ALLIED PRODUCTS	231.38	233.20	253.74	254.92	257.05	5.47	5.50	5.86	5.97	6.02
261,2,6	Paper and pulp mills	274.22	275.90	298.14	304.87	(*)	6.19	6.20	6.64	6.79	(*)
263	Paperboard mills	277.25	278.60	305.33	311.81	309.91	6.33	6.39	6.77	6.96	6.98
264	Miscellaneous converted paper products	200.08	202.13	217.35	216.77	223.15	4.88	4.93	5.25	5.30	5.39
2643	Bags, except textile bags	194.88	198.17	212.01	212.70	—	4.73	4.81	5.06	5.15	—
265	Paperboard containers and boxes	203.53	204.85	226.41	222.98	226.26	4.94	4.96	5.29	5.36	5.40
2651,2	Folding and setup paperboard boxes	192.92	195.76	211.33	210.60	—	4.74	4.74	5.08	5.20	—
2653	Corrugated and solid fiber boxes	214.35	217.57	240.67	236.18	—	5.19	5.23	5.52	5.61	—
2654	Sanitary food containers	196.56	193.39	216.22	213.78	—	4.68	4.66	5.04	5.03	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	42.1	41.4	43.1	43.2	42.8	4.4	3.9	4.7	5.0	—
2024	Ice cream and frozen desserts	41.5	39.8	42.3	42.1	—	—	—	—	—	—
2026	Fluid milk	42.6	41.9	44.2	44.6	—	—	—	—	—	—
203	Canned, cured, and frozen foods	37.9	40.0	37.0	37.8	—	3.6	4.0	2.9	3.5	—
2031,6	Canned, cured, and frozen sea foods	37.3	35.3	33.6	34.9	—	—	—	—	—	—
2032,3	Canned food, except sea foods	38.3	41.5	37.3	38.9	—	—	—	—	—	—
2037	Frozen fruits and vegetables	36.8	38.7	37.1	35.9	—	—	—	—	—	—
204	Grain mill products	44.7	44.3	44.0	43.8	(*)	6.9	6.4	5.7	5.9	—
2041	Flour and other grain mill products	47.0	47.1	45.9	46.2	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls	45.3	44.4	43.7	43.3	—	—	—	—	—	—
205	Bakery products	39.6	39.3	39.4	39.6	39.3	3.8	3.5	3.4	3.7	—
2051	Bread, cake, and related products	39.4	39.0	39.4	39.6	—	—	—	—	—	—
2052	Cookies and crackers	40.1	40.4	39.6	39.5	—	—	—	—	—	—
206	Sugar	41.1	40.8	40.0	40.4	—	4.1	3.9	2.6	4.2	—
207	Confectionery and related products	39.3	39.8	39.4	38.7	(*)	2.5	2.7	2.2	2.1	—
2071	Confectionery products	39.1	39.3	38.6	38.5	—	—	—	—	—	—
208	Beverages	41.4	41.0	41.2	41.5	40.8	4.9	4.4	4.7	5.0	—
2082	Malt liquors	44.3	43.5	43.7	43.5	—	—	—	—	—	—
2086	Bottled and canned soft drinks	41.0	40.2	40.5	41.2	—	—	—	—	—	—
209	Miscellaneous foods and kindred products	41.8	41.3	41.6	40.9	(*)	4.6	4.5	4.2	3.9	—
21	TOBACCO MANUFACTURES	33.8	37.3	38.9	36.1	37.0	.9	1.1	1.6	1.1	—
211	Cigarettes	33.9	36.5	39.5	35.5	—	.8	.8	1.9	1.1	—
212	Cigars	37.4	37.0	36.9	38.9	—	.7	.7	.4	.4	—
22	TEXTILE MILL PRODUCTS	39.9	39.6	40.9	40.1	40.3	3.2	3.1	3.7	3.3	—
221	Weaving mills, cotton	41.0	40.6	40.8	40.2	39.9	3.6	3.7	3.8	3.6	—
222	Weaving mills, synthetics	41.4	39.8	41.6	41.2	40.9	3.8	3.0	3.6	3.2	—
223	Weaving and finishing mills, wool	41.2	41.1	40.9	40.2	40.6	4.0	3.7	3.4	3.4	—
224	Narrow fabric mills	39.0	39.5	40.2	40.0	(*)	2.4	3.1	3.0	2.3	—
225	Knitting mills	38.2	38.2	39.6	38.6	39.1	2.5	2.6	3.2	2.8	—
2251	Women's hosiery, except socks	37.2	38.1	38.1	37.1	—	—	—	—	—	—
2252	Hosiery, nec	37.9	37.0	39.0	38.4	—	—	—	—	—	—
2253	Knit outerwear mills	37.3	37.6	38.5	37.3	—	—	—	—	—	—
2254	Knit underwear mills	37.2	38.3	38.5	37.5	—	—	—	—	—	—
226	Textile finishing, except wool	39.4	39.3	41.9	39.4	(*)	3.0	3.0	4.3	3.1	—
227	Floor covering mills	41.4	41.8	42.1	42.1	—	3.6	4.2	4.6	4.3	—
228	Yarn and thread mills	40.1	39.7	41.6	40.9	40.9	3.5	3.0	4.1	3.6	—
229	Miscellaneous textile goods	40.2	40.0	41.8	40.8	40.6	2.9	3.2	4.2	3.7	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.6	35.6	36.0	35.5	35.5	1.0	1.2	1.3	1.0	—
231	Men's and boys' suits and coats	36.6	35.5	35.9	35.5	(*)	.6	1.0	.7	.4	—
232	Men's and boys' furnishings	36.6	36.7	36.4	36.0	35.7	1.0	1.1	1.1	.8	—
2321	Men's and boys' shirts and nightwear	36.5	36.8	36.2	35.7	—	1.1	1.0	1.0	.6	—
2327	Men's and boys' separate trousers	37.3	36.6	35.9	35.9	—	.9	1.1	1.1	.8	—
2328	Men's and boys' work clothing	36.1	36.9	37.4	36.5	—	.9	1.0	1.4	1.0	—
233	Women's and misses' outerwear	33.5	33.0	33.8	33.6	(*)	.8	.9	1.0	.9	—
2331	Women's and misses' blouses and waists	34.6	34.2	34.1	34.3	—	—	—	—	—	—
2335	Women's and misses' dresses	32.4	32.0	32.6	32.4	—	.7	.7	.8	.8	—
2337	Women's and misses' suits and coats	33.2	32.5	33.9	33.2	—	1.0	1.0	1.2	1.1	—
2339	Women's and misses' outerwear, nec	35.0	34.4	35.4	35.3	—	.9	1.1	1.3	1.1	—
234	Women's and children's undergarments	35.7	36.3	37.4	36.3	36.7	1.0	1.3	1.5	.9	—
2341	Women's and children's underwear	36.2	36.4	37.4	36.5	—	—	—	—	—	—
2342	Corsets and allied garments	34.1	35.8	37.2	35.6	—	—	—	—	—	—
235	Hats, caps, and millinery	38.9	36.6	37.6	35.7	—	1.2	1.5	1.4	.8	—
236	Children's outerwear	35.7	35.5	36.3	35.3	(*)	1.3	1.6	1.6	1.3	—
2361	Children's dresses and blouses	35.2	33.9	36.2	35.2	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel	35.9	36.1	36.5	35.8	—	.8	1.2	1.0	.8	—
239	Miscellaneous fabricated textile products	37.3	38.3	38.7	37.7	(*)	1.6	2.1	2.3	1.9	—
2391,2	Housefurnishings	36.5	37.3	37.9	37.3	—	—	—	—	—	—
26	PAPER AND ALLIED PRODUCTS	42.3	42.4	43.3	42.7	42.7	4.8	4.8	4.8	4.8	—
261,2,6	Paper and pulp mills	44.3	44.5	44.9	44.9	(*)	6.3	6.1	6.1	6.4	—
263	Paperboard mills	43.8	43.6	45.1	44.8	44.4	6.9	6.8	7.0	7.4	—
264	Miscellaneous converted paper products	41.0	41.0	41.4	40.9	41.4	3.6	3.7	3.5	3.3	—
2643	Bags, except textile bags	41.2	41.2	41.9	41.3	—	—	—	—	—	—
265	Paperboard containers and boxes	41.2	41.3	42.8	41.6	41.9	3.7	3.8	4.0	3.7	—
2651,2	Folding and setup paperboard boxes	40.7	41.3	41.6	40.5	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes	41.3	41.6	43.6	42.1	—	4.1	4.3	4.5	4.1	—
2654	Sanitary food containers	42.0	41.5	42.9	42.5	—	—	—	—	—	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. ^P 1977 ^P	July 1976	Aug. 1976	June 1977	July ^P 1977 ^P	Aug. ^P 1977 ^P
	NONDURABLE GOODS—Continued										
27	PRINTING AND PUBLISHING	\$213.19	\$215.27	\$228.46	\$229.59	\$233.09	\$5.67	\$5.71	\$6.06	\$6.09	\$6.15
271	Newspapers	217.06	216.43	228.80	228.80	229.82	6.31	6.31	6.69	6.69	6.72
272	Periodicals	217.50	219.64	234.25	242.95	—	5.80	5.78	6.23	6.36	—
273	Books	193.83	201.70	209.09	209.61	—	4.97	5.03	5.28	5.32	—
275	Commercial printing	218.27	222.69	235.68	236.46	242.65	5.64	5.71	6.09	6.11	6.19
2751	Commercial printing, except lithographic	211.46	215.67	228.13	230.08	—	5.45	5.53	5.91	5.93	—
2752	Commercial printing, lithographic	229.85	234.57	248.32	247.17	—	5.97	6.03	6.40	6.42	—
278	Blankbooks and bookbinding	170.48	169.12	183.53	183.06	184.78	4.36	4.37	4.67	4.67	4.75
274,6,7,9	Other publishing and printing ind	219.40	217.16	237.98	238.12	241.30	5.64	5.67	6.04	6.09	6.14
28	CHEMICALS AND ALLIED PRODUCTS ...	244.50	243.72	266.70	267.07	266.20	5.92	5.93	6.35	6.42	6.43
281	Industrial chemicals	277.62	276.89	305.88	308.72	307.28	6.61	6.64	7.13	7.23	7.23
2812	Alkalies and chlorine	286.44	285.29	323.95	337.03	—	6.60	6.65	7.43	7.73	—
2818	Industrial organic chemicals, nec	306.29	301.86	333.41	332.90	—	7.19	7.17	7.70	7.76	—
2819	Industrial inorganic chemicals, nec	261.02	264.86	288.65	293.41	—	6.32	6.46	6.84	6.92	—
282	Plastics materials and synthetics	240.12	237.22	263.75	262.50	260.82	5.80	5.80	6.25	6.28	6.30
2821	Plastics materials and resins	261.19	258.83	281.45	282.31	—	6.06	6.09	6.47	6.55	—
2823,4	Synthetic fibers	217.74	214.92	239.20	238.86	—	5.43	5.40	5.82	5.84	—
283	Drugs	222.77	225.22	235.71	235.20	(*)	5.46	5.52	5.82	5.88	(*)
2834	Pharmaceutical preparations	217.34	219.78	231.32	230.66	—	5.34	5.40	5.74	5.81	—
284	Soap, cleaners, and toilet goods	230.68	227.86	246.43	246.24	244.61	5.71	5.64	6.04	6.05	6.01
2841	Soap and other detergents	307.82	302.40	323.60	330.65	—	7.26	7.20	7.65	7.78	—
2844	Toilet preparations	181.34	181.03	194.93	192.67	—	4.71	4.63	4.96	4.89	—
285	Paints and allied products	221.53	219.50	247.21	244.67	(*)	5.39	5.38	5.90	5.91	(*)
287	Agricultural chemicals	221.65	222.03	247.39	248.98	248.39	5.29	5.35	5.74	5.90	5.90
2871,2	Fertilizers, complete and mixing only	205.58	207.92	232.85	232.96	—	4.93	5.01	5.39	5.56	—
286,9	Other chemical products	223.97	228.11	243.02	240.85	243.78	5.53	5.55	5.80	5.86	5.86
2892	Explosives	216.95	223.15	233.19	229.30	—	5.37	5.39	5.66	5.62	—
29	PETROLEUM AND COAL PRODUCTS	303.74	299.46	333.94	338.09	328.67	7.13	7.13	7.73	7.79	7.77
291	Petroleum refining	325.50	321.21	361.67	368.51	355.73	7.75	7.74	8.49	8.55	8.49
295,9	Other petroleum and coal products	242.66	238.58	256.00	256.63	(*)	5.49	5.51	5.74	5.78	(*)
30	RUBBER AND PLASTICS PRODUCTS, NEC	175.56	176.44	211.46	206.23	207.77	4.40	4.40	5.12	5.13	5.13
301	Tires and inner tubes	244.22	242.39	322.01	311.47	312.19	5.76	5.69	7.22	7.21	7.21
302,3,6	Other rubber products	182.49	185.72	208.88	201.10	(*)	4.42	4.62	5.07	5.04	(*)
302	Rubber footwear	123.76	123.46	132.45	129.20	—	3.40	3.42	3.57	3.53	—
307	Miscellaneous plastics products	165.97	166.76	179.38	176.57	179.15	4.17	4.19	4.44	4.47	4.49
31	LEATHER AND LEATHER PRODUCTS	127.53	127.31	137.94	133.20	134.30	3.41	3.45	3.63	3.60	3.62
311	Leather tanning and finishing	175.87	179.21	191.60	183.94	181.02	4.58	4.56	4.79	4.79	4.84
314	Footwear, except rubber	122.15	119.72	130.41	125.80	(*)	3.24	3.28	3.45	3.40	(*)
312,3,5-7,9	Other leather products	125.20	128.00	137.97	133.59	135.42	3.43	3.45	3.65	3.65	3.66
316	Luggage	125.32	132.46	143.98	140.56	—	3.53	3.58	3.86	3.83	—
317	Handbags and personal leather goods	120.29	122.72	134.55	138.49	—	3.26	3.29	3.55	3.53	—
—	TRANSPORTATION AND PUBLIC UTILITIES	259.69	265.02	275.25	279.86	278.59	6.46	6.56	6.83	6.91	6.93
4011	RAILROAD TRANSPORTATION: Class I railroads ²	306.42	300.67	315.86	(*)	—	6.98	6.96	7.13	(*)	—
	LOCAL AND INTERURBAN PASSENGER TRANSIT:										
411	Local and suburban transportation	224.27	226.18	235.35	243.67	—	5.47	5.53	5.84	5.90	—
413	Intercity highway transportation	283.56	281.64	280.74	293.92	—	6.95	6.92	7.33	7.46	—
42	TRUCKING AND WAREHOUSING	262.75	266.15	284.41	283.15	—	6.44	6.46	6.92	6.94	—
421,3	Trucking and trucking terminals	269.37	272.17	291.58	289.57	—	6.57	6.59	7.06	7.08	—
422	Public warehousing	186.59	188.42	196.72	200.21	—	4.76	4.77	5.07	5.16	—
46	PIPE LINE TRANSPORTATION	311.41	308.16	340.37	335.65	—	7.45	7.39	7.99	8.03	—
48	COMMUNICATION	243.10	260.17	266.53	272.57	—	6.17	6.57	6.68	6.73	—
481	Telephone communication	246.02	266.90	270.80	278.26	—	6.26	6.74	6.77	6.82	—
4817	Switchboard operating employees ³	181.63	195.62	201.14	209.72	—	5.28	5.67	5.78	5.73	—
4818	Line construction employees ⁴	315.49	246.90	348.73	360.19	—	7.32	7.92	7.98	8.04	—
482	Telegraph communication ⁵	265.02	277.69	295.91	(*)	—	6.28	6.74	6.93	(*)	—
483	Radio and television broadcasting	232.07	234.24	245.46	247.26	—	5.89	5.93	6.31	6.34	—

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				
		July 1976	Aug. 1976	June 1977	July 1977 P	Aug. 1977 P	July 1976	Aug. 1976	June 1977	July 1977 P	Aug. 1977 P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	37.6	37.7	37.7	37.7	37.9	2.5	2.6	2.6	2.7	—
271	Newspapers	34.4	34.3	34.2	34.2	34.2	1.5	1.6	1.7	1.7	—
272	Periodicals	37.5	38.0	37.6	38.2	—	1.8	2.3	1.8	2.7	—
273	Books	39.0	40.1	39.6	39.4	—	2.4	3.3	4.0	4.2	—
275	Commercial printing	38.7	39.0	38.7	38.7	39.2	3.0	3.1	3.0	3.0	—
2751	Commercial printing, except lithographic	38.8	39.0	38.6	38.8	—	3.0	2.9	2.9	3.0	—
2752	Commercial printing, lithographic	38.5	38.9	38.8	38.5	—	2.9	3.3	3.1	3.1	—
278	Blankbooks and bookbinding	39.1	38.7	39.3	39.2	38.9	2.3	2.2	2.3	2.3	—
274,6,7,9	Other publishing and printing ind	38.9	38.3	39.4	39.1	39.3	2.9	2.9	2.7	3.0	—
28	CHEMICALS AND ALLIED PRODUCTS ...	41.3	41.1	42.0	41.6	41.4	3.3	3.0	3.6	3.5	—
281	Industrial chemicals	42.0	41.7	42.9	42.1	42.5	3.9	3.4	4.0	4.0	—
2812	Alkalies and chlorine	43.4	42.9	43.6	43.6	—	—	—	—	—	—
2818	Industrial organic chemicals, nec	42.6	42.1	43.3	42.9	—	3.8	3.2	4.0	4.2	—
2819	Industrial inorganic chemicals, nec	41.3	41.0	42.2	42.4	—	3.6	3.6	3.5	3.6	—
282	Plastics materials and synthetics	41.4	40.9	42.2	41.8	41.4	3.0	2.8	3.5	3.6	—
2821	Plastics materials and resins	43.1	42.5	43.5	43.1	—	4.5	4.5	4.7	4.8	—
2823,4	Synthetic fibers	40.1	39.8	41.1	40.9	—	1.8	1.5	2.7	2.9	—
283	Drugs	40.8	40.8	40.5	40.0	(*)	2.9	2.7	2.6	2.5	—
2834	Pharmaceutical preparations	40.7	40.7	40.3	39.7	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	40.4	40.4	40.8	40.7	40.7	2.6	2.7	2.8	2.6	—
2841	Soap and other detergents	42.4	42.0	42.3	42.5	—	—	—	—	—	—
2844	Toilet preparations	38.5	39.1	39.3	39.4	—	—	—	—	—	—
285	Paints and allied products	41.1	40.8	41.9	41.4	(*)	3.4	3.0	3.9	3.7	—
287	Agricultural chemicals	41.9	41.5	43.1	42.2	42.1	3.7	3.5	4.9	4.7	—
2871,2	Fertilizers, complete and mixing only	41.7	41.5	43.2	41.9	—	—	—	—	—	—
286,9	Other chemical products	40.5	41.1	41.9	41.1	41.6	3.0	3.0	3.8	3.1	—
2892	Explosives	40.4	41.4	41.2	40.8	—	—	—	—	—	—
29	PETROLEUM AND COAL PRODUCTS ...	42.6	42.0	43.2	43.4	42.3	3.8	3.5	4.2	4.2	—
291	Petroleum refining	42.0	41.5	42.6	43.1	41.9	3.1	2.7	3.5	3.6	—
295,9	Other petroleum and coal products	44.2	43.3	44.6	44.4	(*)	5.8	5.6	6.1	5.8	—
30	RUBBER AND PLASTICS PRODUCTS, NEC	39.9	40.1	41.3	40.2	40.5	3.0	3.1	3.8	3.3	—
301	Tires and inner tubes	42.4	42.6	44.6	43.2	43.3	4.3	4.9	5.6	5.1	—
302,3,6	Other rubber products	39.5	40.2	41.2	39.9	(*)	2.8	2.9	3.6	2.9	—
302	Rubber footwear	36.4	36.1	37.1	36.6	—	.4	.3	1.5	.9	—
307	Miscellaneous plastics products	39.8	39.8	40.4	39.5	39.9	2.9	3.0	3.3	2.9	—
31	LEATHER AND LEATHER PRODUCTS ...	37.4	36.9	38.0	37.0	37.1	1.7	1.6	2.0	1.6	—
311	Leather tanning and finishing	38.4	39.3	40.0	38.4	37.4	2.5	2.8	2.9	2.3	—
314	Footwear, except rubber	37.7	36.5	37.8	37.0	(*)	1.6	1.4	1.8	1.5	—
312,3,5-7,9	Other leather products	36.5	37.1	37.8	36.6	37.0	1.6	1.8	2.0	1.8	—
316	Luggage	35.5	37.0	37.3	36.7	—	1.2	1.6	2.4	2.6	—
317	Handbags and personal leather goods	36.9	37.3	37.9	36.4	—	1.9	2.2	2.2	1.7	—
—	TRANSPORTATION AND PUBLIC UTILITIES	40.2	40.4	40.3	40.5	40.2	—	—	—	—	—
4011	RAILROAD TRANSPORTATION: Class 1 railroads ²	43.9	43.2	44.3	(*)	—	—	—	—	—	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	41.0	40.9	40.3	41.3	—	—	—	—	—	—
413	Intercity highway transportation	40.8	40.7	38.3	39.4	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	40.8	41.2	41.1	40.8	—	—	—	—	—	—
421,3	Trucking and trucking terminals	41.0	41.3	41.3	40.9	—	—	—	—	—	—
422	Public warehousing	39.2	39.5	38.8	38.8	—	—	—	—	—	—
46	PIPE LINE TRANSPORTATION	41.8	41.7	42.6	41.8	—	—	—	—	—	—
48	COMMUNICATION	39.4	39.6	39.9	40.5	—	—	—	—	—	—
481	Telephone communication	39.3	39.6	40.0	40.8	—	—	—	—	—	—
4817	Switchboard operating employees ³	34.4	34.5	34.8	36.6	—	—	—	—	—	—
4818	Line construction employees ⁴	43.1	43.8	43.7	44.8	—	—	—	—	—	—
482	Telegraph communication ⁵	42.2	41.2	42.7	(*)	—	—	—	—	—	—
483	Radio and television broadcasting	39.4	39.5	38.9	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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	\$271.75	\$275.15	\$285.93	\$292.58	-	\$6.58	\$6.63	\$6.94	\$7.05	-
481	Electric companies and systems	275.64	278.56	294.69	304.01	-	6.61	6.68	7.05	7.17	-
492	Gas companies and systems	244.82	247.44	264.96	268.21	-	6.06	6.14	6.51	6.59	-
493	Combination companies and systems	306.45	311.22	308.97	315.87	-	7.42	7.41	7.61	7.78	-
494-7	Water, steam, and sanitary systems	220.70	222.38	232.40	237.27	-	5.28	5.32	5.60	5.69	-
-	WHOLESALE AND RETAIL TRADE	136.62	136.51	143.14	145.95	\$145.27	3.96	3.98	4.26	4.28	4.26
50	WHOLESALE TRADE	203.18	203.19	214.34	216.84	216.06	5.17	5.21	5.51	5.56	5.54
501	Motor vehicles and automotive equipment	182.49	184.54	193.45	193.44	-	4.62	4.66	4.91	4.96	-
502	Drugs, chemicals, and allied products	205.16	211.31	227.12	228.27	-	5.56	5.62	5.93	5.96	-
503	Dry goods and apparel	175.90	173.70	182.59	183.96	-	4.78	4.72	5.03	5.04	-
504	Groceries and related products	200.59	194.54	211.75	218.57	-	5.04	5.04	5.50	5.59	-
506	Electrical goods	221.65	226.08	221.48	225.22	-	5.50	5.61	5.65	5.76	-
507	Hardware, plumbing and heating equipment	191.78	193.50	204.36	205.92	-	4.93	5.00	5.24	5.28	-
508	Machinery, equipment, and supplies	221.35	222.80	236.16	237.18	-	5.52	5.57	5.86	5.90	-
509	Miscellaneous wholesalers	200.47	199.54	211.42	212.95	-	5.18	5.21	5.52	5.56	-
52-59	RETAIL TRADE	116.82	117.15	122.62	125.24	124.59	3.54	3.55	3.82	3.83	3.81
53	Retail general merchandise [†]	110.03	109.65	115.50	119.45	-	3.46	3.47	3.75	3.78	-
531	Department stores [†]	112.77	112.32	119.56	123.64	-	3.58	3.60	3.92	3.95	-
532	Mail order houses	144.66	148.35	154.98	158.10	-	4.28	4.30	4.64	4.68	-
533	Variety stores	89.05	87.82	89.98	92.11	-	2.91	2.87	3.04	3.03	-
54	Food stores	146.45	145.58	155.04	158.05	-	4.32	4.32	4.67	4.69	-
541-3	Grocery, meat, and vegetable stores	151.16	149.94	159.80	163.34	-	4.42	4.41	4.77	4.79	-
56	Apparel and accessory stores	99.83	99.21	101.14	103.12	-	3.21	3.19	3.36	3.37	-
561	Men's and boys' clothing and furnishings	128.70	125.95	126.49	130.20	-	3.96	3.84	3.88	3.91	-
562	Women's ready-to-wear stores	88.17	87.01	88.48	90.90	-	2.91	2.91	3.03	3.04	-
565	Family clothing stores	98.26	96.71	104.16	105.56	-	3.09	3.07	3.36	3.33	-
566	Shoe stores	98.21	100.73	101.96	103.01	-	3.22	3.26	3.48	3.54	-
57	Furniture and home furnishings stores	152.62	153.72	158.12	159.28	-	4.17	4.20	4.38	4.40	-
571	Furniture and home furnishings	155.98	157.01	162.45	162.99	-	4.25	4.29	4.50	4.49	-
58	Eating and drinking places [§]	75.08	77.06	80.34	81.79	-	2.58	2.63	2.89	2.88	-
52,55,59	Other retail trade	146.59	146.20	152.67	155.87	-	3.93	3.93	4.16	4.19	-
52	Building materials and farm equipment	162.40	163.62	174.96	177.02	-	4.00	4.05	4.32	4.36	-
551,2	Motor vehicle dealers	196.91	194.13	210.00	211.29	-	4.96	4.89	5.33	5.39	-
553,9	Other automotive and accessory dealers	163.22	162.81	174.90	177.51	-	4.05	4.05	4.34	4.34	-
591	Drug stores and proprietary stores	110.14	109.10	111.20	114.99	-	3.41	3.42	3.53	3.56	-
594	Book and stationery stores	122.79	124.95	129.26	131.87	-	3.58	3.57	3.87	3.89	-
598	Fuel and ice dealers	175.78	173.31	185.89	187.23	-	4.45	4.41	4.73	4.74	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁷	160.01	162.36	166.16	168.09	168.36	4.36	4.40	4.54	4.58	4.60
60	Banking	135.79	136.90	139.39	141.99	-	3.71	3.72	3.84	3.89	-
61	Credit agencies other than banks	144.74	146.26	150.42	151.90	-	3.87	3.89	3.99	4.04	-
612	Savings and loan associations	140.93	142.48	144.69	146.92	-	3.84	3.83	3.90	3.96	-
62	Security, commodity brokers and services	288.00	292.99	286.52	294.10	-	7.50	7.63	7.56	7.76	-
63	Insurance carriers	168.97	172.21	178.29	178.93	-	4.53	4.58	4.78	4.81	-
631	Life insurance	166.21	169.05	174.27	175.75	-	4.48	4.52	4.71	4.75	-
632	Accident and health insurance	161.36	166.17	173.50	171.83	-	4.28	4.35	4.59	4.57	-
633	Fire, marine, and casualty insurance	171.95	175.22	181.76	182.77	-	4.61	4.66	4.86	4.90	-

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P	July 1976	Aug. 1976	June 1977	July 1977 ^P	Aug. 1977 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.3	41.5	41.2	41.5	-	-	-	-	-	
491	Electric companies and systems	41.7	41.7	41.8	42.4	-	-	-	-	-	
492	Gas companies and systems	40.4	40.3	40.7	40.7	-	-	-	-	-	
493	Combination companies and systems	41.3	42.0	40.6	40.6	-	-	-	-	-	
494-7	Water, steam, and sanitary systems	41.8	41.8	41.5	41.7	-	-	-	-	-	
-	WHOLESALE AND RETAIL TRADE	34.5	34.3	33.6	34.1	34.1	-	-	-	-	
50	WHOLESALE TRADE	39.3	39.0	38.9	39.0	39.0	-	-	-	-	
501	Motor vehicles and automotive equipment	39.5	39.6	39.4	39.0	-	-	-	-	-	
502	Drugs, chemicals, and allied products	36.9	37.6	38.3	38.3	-	-	-	-	-	
503	Dry goods and apparel	36.8	36.8	36.3	36.5	-	-	-	-	-	
504	Groceries and related products	39.8	38.6	38.5	39.1	-	-	-	-	-	
506	Electrical goods	40.3	40.3	39.2	39.1	-	-	-	-	-	
507	Hardware; plumbing and heating equipment	38.9	38.7	39.0	39.0	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.1	40.0	40.3	40.2	-	-	-	-	-	
509	Miscellaneous wholesalers	38.7	38.3	38.3	38.3	-	-	-	-	-	
52-59	RETAIL TRADE	33.0	33.0	32.1	32.7	32.7	-	-	-	-	
53	Retail general merchandise	31.8	31.6	30.8	31.6	-	-	-	-	-	
531	Department stores	31.5	31.2	30.5	31.3	-	-	-	-	-	
532	Mail order houses	33.8	34.5	33.4	34.0	-	-	-	-	-	
533	Variety stores	30.6	30.6	29.6	30.4	-	-	-	-	-	
54	Food stores	33.9	33.7	33.2	33.7	-	-	-	-	-	
541-3	Grocery, meat, and vegetable stores	34.2	34.0	33.5	34.1	-	-	-	-	-	
56	Apparel and accessory stores	31.1	31.1	30.1	30.6	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.5	32.8	32.6	33.3	-	-	-	-	-	
562	Women's ready-to-wear stores	30.3	29.9	29.2	29.9	-	-	-	-	-	
565	Family clothing stores	31.8	31.5	31.0	31.7	-	-	-	-	-	
566	Shoe stores	30.5	30.9	29.3	29.1	-	-	-	-	-	
57	Furniture and home furnishings stores	36.6	36.6	36.1	36.2	-	-	-	-	-	
571	Furniture and home furnishings	36.7	36.6	36.1	36.3	-	-	-	-	-	
58	Eating and drinking places ⁶	29.1	29.3	27.8	28.4	-	-	-	-	-	
52,55,59	Other retail trade	37.3	37.2	36.7	37.2	-	-	-	-	-	
52	Building materials and farm equipment	40.6	40.4	40.5	40.6	-	-	-	-	-	
551,2	Motor vehicle dealers	39.7	39.7	39.4	39.2	-	-	-	-	-	
553,9	Other automotive and accessory dealers	40.3	40.2	40.3	40.9	-	-	-	-	-	
591	Drug stores and proprietary stores	32.3	31.9	31.5	32.3	-	-	-	-	-	
594	Book and stationery stores	34.3	35.0	33.4	33.9	-	-	-	-	-	
598	Fuel and ice dealers	39.5	39.3	39.3	39.5	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE⁷	36.7	36.9	36.6	36.7	36.6	-	-	-	-	
60	Banking	36.6	36.8	36.3	36.5	-	-	-	-	-	
61	Credit agencies other than banks	37.4	37.6	37.7	37.6	-	-	-	-	-	
612	Savings and loan associations	36.7	37.2	37.1	37.1	-	-	-	-	-	
62	Security, commodity brokers and services	38.4	38.4	37.9	37.9	-	-	-	-	-	
63	Insurance carriers	37.3	37.6	37.3	37.2	-	-	-	-	-	
631	Life insurance	37.1	37.4	37.8	37.0	-	-	-	-	-	
632	Accident and health insurance	37.7	38.2	37.8	37.6	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.3	37.6	37.4	37.3	-	-	-	-	-	

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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
—	SERVICES	\$146.88	\$146.88	\$156.11	\$157.51	\$157.17	\$4.32	\$4.32	\$4.66	\$4.66	\$4.65
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	98.43	98.94	101.09	102.71	—	3.01	2.98	3.24	3.18	—
	Personal services:										
721	Laundries and dry cleaning plants	116.09	115.10	122.84	123.55	—	3.27	3.27	3.48	3.49	—
722	Photographic studios	115.93	118.65	128.90	125.45	—	3.44	3.50	3.93	3.86	—
	Motion pictures:										
781	Motion picture filming and distributing	275.81	277.22	304.94	323.11	—	6.63	6.68	7.72	8.18	—
806	Hospitals	145.46	144.97	158.00	162.50	—	4.18	4.19	4.62	4.71	—

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.

† 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.

**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				
		July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p	July 1976	Aug. 1976	June 1977	July 1977 ^p	Aug. 1977 ^p
—	SERVICES	34.0	34.0	33.5	33.8	33.8	—	—	—	—	—
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	32.7	33.2	31.2	32.3	—	—	—	—	—	
	Personal services:										
721	Laundries and dry cleaning plants	35.5	35.2	35.3	35.4	—	—	—	—	—	
722	Photographic studios	33.7	33.9	32.8	32.5	—	—	—	—	—	
	Motion pictures:										
781	Motion picture filming and distributing ...	41.6	41.5	39.5	39.5	—	—	—	—	—	
806	Hospitals	34.8	34.6	34.2	34.5	—	—	—	—	—	

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Executive Branch														
Total employment	2,681.2	2,686.0	2,707.8	2,724.1	2,704.2	2,668.0	2,661.1	2,670.3	2,674.4	2,645.8	2,654.9	2,662.8	2,664.0	
Average weekly hours	39.2	39.2	39.3	39.4	39.4	39.3	39.9	39.6	40.4	39.4	39.5	39.3	39.2	
Average overtime hours	.8	.9	.9	1.0	1.0	1.1	1.4	1.2	2.0	1.0	1.0	.9	.9	
Indexes (1967=100):														
Average weekly earnings	195.5	196.6	195.7	196.1	196.5	199.5	209.7	208.6	215.9	208.9	209.2	208.7	208.7	
Average hourly earnings	196.5	197.6	196.2	195.1	196.5	200.0	207.0	207.6	210.5	208.9	208.6	209.2	209.7	
Department of Defense														
Total employment	930.7	930.2	936.7	938.5	929.3	917.2	918.0	920.4	919.6	918.4	917.6	918.4	917.4	
Average weekly hours	39.8	39.8	40.0	40.1	40.0	39.9	39.9	40.2	40.0	39.9	40.0	39.9	39.6	
Average overtime hours	.5	.6	.7	.6	.7	.9	.8	.8	.7	.7	.7	.7	.7	
Indexes (1967=100):														
Average weekly earnings	191.1	-	191.2	188.2	191.5	195.1	201.5	204.4	203.7	202.3	204.2	203.9	204.3	
Average hourly earnings	193.5	-	192.6	189.1	192.9	197.0	203.5	204.9	205.2	204.4	205.7	206.0	207.9	
Postal service														
Total employment	670.3	670.6	672.8	670.7	667.8	662.8	657.9	664.9	685.7	650.0	649.9	652.3	650.7	
Average weekly hours	39.2	39.3	39.0	39.7	39.4	39.6	42.1	40.6	43.8	40.4	40.4	39.6	39.7	
Average overtime hours	1.0	1.1	.9	1.0	1.1	1.4	2.9	2.2	5.5	1.9	1.4	1.2	1.2	
Indexes (1967=100):														
Average weekly earnings	219.8	223.2	220.9	224.5	223.8	226.8	243.7	237.6	267.8	240.0	238.0	233.3	234.9	
Average hourly earnings	216.5	219.2	218.6	218.3	219.2	221.0	223.5	225.9	236.0	229.3	227.4	227.4	228.4	
Other agencies														
Total employment	1,080.2	1,085.2	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	
Average weekly hours	38.7	38.7	38.9	39.1	38.9	38.6	38.7	38.6	38.4	38.2	38.5	38.5	38.6	
Average overtime hours	1.0	1.1	1.1	1.2	1.1	1.2	1.1	1.0	.9	.8	.9	.9	.9	
Indexes (1967=100):														
Average weekly earnings	185.7	186.2	185.4	187.3	185.6	188.6	199.0	197.5	197.4	197.2	197.5	198.2	198.0	
Average hourly earnings	186.1	186.6	184.9	185.9	185.1	189.6	199.5	198.5	199.5	200.2	199.0	199.8	199.0	

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				
	July 1976	Aug. 1976	June 1977	July ^p 1977	Aug. ^p 1977
MANUFACTURING	\$5.00	\$5.02	\$5.37	\$5.42	\$5.44
DURABLE GOODS	5.35	5.37	5.74	5.77	5.75
Ordnance and accessories	5.55	5.58	5.96	6.03	-
Lumber and wood products	4.61	4.61	4.77	4.85	-
Furniture and fixtures	3.88	3.90	4.15	4.18	-
Stone, clay, and glass products	5.07	5.09	5.48	5.50	-
Primary metal industries	6.54	6.64	7.12	7.19	-
Fabricated metal products	5.21	5.24	5.56	5.56	-
Machinery, except electrical	5.55	5.57	5.89	5.90	-
Electrical equipment and supplies	4.78	4.80	5.12	5.17	-
Transportation equipment	6.17	6.22	6.77	6.75	-
Instruments and related products	4.74	4.75	5.00	5.07	-
Miscellaneous manufacturing industries	3.93	3.90	4.20	4.25	-
NONDURABLE GOODS	4.52	4.53	4.83	4.91	4.92
Food and kindred products	4.71	4.74	5.04	5.08	-
Tobacco manufactures	4.94	4.56	5.65	5.60	-
Textile mill products	3.57	3.60	3.73	3.86	-
Apparel and other textile products	3.34	3.36	3.55	3.53	-
Paper and allied products	5.18	5.21	5.55	5.65	-
Printing and publishing	(²)	(²)	(²)	(²)	-
Chemicals and allied products	5.69	5.72	6.10	6.16	-
Petroleum and coal products	6.82	6.85	7.37	7.43	-
Rubber and plastics products, nec	4.24	4.24	4.84	4.92	-
Leather and leather products	3.34	3.37	3.54	3.52	-

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

p = preliminary.

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.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings					
				Worker with no dependents			Married worker with 3 dependents		
	July 1976	June 1977	July 1977 ^p	July 1976	June 1977	July 1977 ^p	July 1976	June 1977	July 1977 ^p
TOTAL PRIVATE:									
Current dollars	\$ 177.88	\$ 190.01	\$ 191.26	\$ 145.05	\$ 157.43	\$ 158.33	\$ 157.70	\$ 173.50	\$ 174.48
1967 dollars	103.96	104.52	104.74	84.77	86.60	86.71	92.17	95.43	95.55
MINING:									
Current dollars	272.85	306.85	299.35	214.10	235.38	230.50	229.90	260.36	255.14
1967 dollars	159.47	168.78	163.94	125.13	129.47	126.23	134.37	143.21	139.73
CONTRACT CONSTRUCTION:									
Current dollars	291.07	298.08	302.40	227.00	229.67	232.48	243.71	254.25	257.26
1967 dollars	170.12	163.96	165.61	132.67	126.33	127.32	142.44	139.85	140.89
MANUFACTURING:									
Current dollars	208.00	228.48	226.16	166.85	184.52	182.90	180.33	202.61	200.87
1967 dollars	121.57	125.68	123.86	97.52	101.50	100.16	105.39	111.45	110.01
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	259.69	275.25	279.86	204.69	215.00	217.95	219.72	257.76	241.13
1967 dollars	151.78	151.40	153.26	119.63	118.26	119.36	128.42	130.78	132.05
WHOLESALE AND RETAIL TRADE:									
Current dollars	136.62	143.14	145.95	114.51	122.55	124.66	127.45	144.77	137.41
1967 dollars	79.85	78.73	79.93	66.93	67.41	68.27	74.49	74.13	75.25
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	160.01	166.16	168.09	132.09	139.93	141.42	143.97	154.67	156.20
1967 dollars	93.52	91.40	92.05	77.20	76.97	77.45	84.14	85.08	85.54
SERVICES:									
Current dollars	146.88	156.11	157.51	122.22	132.30	133.35	134.44	146.74	147.87
1967 dollars	85.84	85.87	86.26	71.43	72.77	73.03	78.57	80.72	80.98
CONSUMER PRICE INDEX (All items, 1967 = 100)	171.1	181.8	182.6	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	July 1976	August 1976	June 1977	July 1977 ^p	August 1977 ^p
	Hours				
TOTAL	113.9	114.6	118.0	117.8	118.0
GOODS-PRODUCING	96.9	98.7	104.2	102.0	102.5
MINING	130.0	117.8	146.7	139.2	130.1
CONTRACT CONSTRUCTION	113.9	115.6	119.0	123.6	123.5
MANUFACTURING	92.7	95.0	100.1	97.0	97.9
DURABLE GOODS	91.6	93.2	100.3	96.8	96.7
Ordnance and accessories	39.2	39.4	40.6	39.7	39.2
Lumber and wood products	101.4	102.9	110.2	108.9	109.4
Furniture and fixtures	98.6	104.0	109.0	104.3	108.7
Stone, clay, and glass products	101.6	102.7	108.9	107.9	109.0
Primary metal industries	89.4	88.9	92.8	89.1	88.4
Fabricated metal products	95.8	98.9	105.8	101.1	103.6
Machinery, except electrical	92.7	93.3	101.8	99.2	97.9
Electrical equipment and supplies	88.2	91.5	98.7	95.7	98.7
Transportation equipment	86.7	87.3	98.9	93.7	87.8
Instruments and related products	107.8	108.0	113.8	110.1	109.5
Miscellaneous manufacturing	90.5	95.2	95.7	88.5	94.2
NONDURABLE GOODS	94.4	97.6	99.7	97.3	99.6
Food and kindred products	99.8	107.5	96.5	99.0	103.5
Tobacco manufactures	71.5	93.6	70.3	65.2	80.7
Textile mill products	95.3	97.1	102.3	97.7	99.5
Apparel and other textile products	85.9	89.3	91.5	85.5	88.2
Paper and allied products	96.8	97.9	102.8	100.9	101.4
Printing and publishing	92.6	93.0	95.4	94.4	95.2
Chemicals and allied products	99.2	100.2	104.7	103.4	103.8
Petroleum and coal products	117.5	115.7	125.0	127.2	123.6
Rubber and plastics products, nec	103.5	106.5	135.5	129.4	131.0
Leather and leather products	73.8	74.8	76.5	70.9	74.1
SERVICE-PRODUCING	125.6	125.7	127.7	128.8	128.7
TRANSPORTATION AND PUBLIC UTILITIES	104.1	104.2	105.7	105.4	104.3
WHOLESALE AND RETAIL TRADE	122.0	121.7	123.0	124.3	124.6
WHOLESALE TRADE	116.7	116.0	118.5	118.9	119.2
RETAIL TRADE	123.8	124.0	124.7	126.4	126.6
FINANCE, INSURANCE, AND REAL ESTATE	129.0	129.6	133.3	134.4	134.3
SERVICES	139.5	139.8	142.4	143.9	144.0

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	July 1976	August 1976	June 1977	July 1977 ^P	August 1977 ^P
	Payrolls				
TOTAL	206.8	209.2	229.9	230.5	230.6
GOODS-PRODUCING	181.5	185.1	208.3	205.9	206.8
MINING	260.6	232.4	316.5	299.2	279.5
CONTRACT CONSTRUCTION	212.7	216.6	230.4	240.3	240.9
MANUFACTURING	170.4	175.2	198.4	193.4	195.3
DURABLE GOODS	169.4	173.3	200.4	193.7	193.5
Ordnance and accessories	70.8	71.4	78.5	77.9	77.9
Lumber and wood products	206.3	210.2	233.2	234.0	236.7
Furniture and fixtures	168.2	179.1	200.5	192.4	205.3
Stone, clay, and glass products	192.2	195.4	223.5	222.7	225.4
Primary metal industries	183.0	184.3	206.8	200.3	200.6
Fabricated metal products	174.2	181.4	206.7	197.1	202.3
Machinery, except electrical	167.1	169.2	196.5	191.6	188.9
Electrical equipment and supplies	156.0	163.2	188.1	183.8	191.5
Transportation equipment	164.0	165.7	206.7	194.7	181.8
Instruments and related products	184.5	185.6	205.5	201.1	198.5
Miscellaneous manufacturing	154.8	162.0	175.5	163.4	173.1
NONDURABLE GOODS	172.1	178.6	195.0	193.0	198.3
Food and kindred products	187.7	203.0	193.0	200.3	211.6
Tobacco manufactures	157.5	190.6	178.7	163.3	198.0
Textile mill products	172.1	176.8	193.9	191.1	196.3
Apparel and other textile products	143.5	150.5	163.0	151.0	156.3
Paper and allied products	184.4	187.5	209.5	209.6	212.6
Printing and publishing	160.1	161.9	176.4	175.3	178.5
Chemicals and allied products	189.1	191.4	214.3	213.8	215.0
Petroleum and coal products	234.2	230.7	270.0	277.0	268.5
Rubber and plastics products, nec	165.6	170.8	252.4	241.5	244.7
Leather and leather products	121.9	124.7	134.5	123.3	130.0
SERVICE-PRODUCING	228.6	229.8	248.5	251.8	251.1
TRANSPORTATION AND PUBLIC UTILITIES	207.9	211.3	223.3	225.2	223.3
WHOLESALE AND RETAIL TRADE	215.4	215.6	233.4	237.0	236.5
WHOLESALE TRADE	209.7	209.9	226.8	229.8	229.6
RETAIL TRADE	218.2	219.1	237.0	240.8	240.1
FINANCE, INSURANCE, AND REAL ESTATE	217.8	220.7	234.1	238.4	239.1
SERVICES	263.4	263.9	289.8	293.2	292.6

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

p = preliminary.

**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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL PRIVATE	36.1	36.0	36.1	36.2	36.2	35.8	36.3	36.3	36.2	36.3	36.2	36.1	36.0
MINING	41.2	43.5	43.3	43.3	43.7	42.9	43.6	44.4	44.4	44.0	44.0	43.6	42.0
CONTRACT CONSTRUCTION	36.8	35.9	37.3	37.4	37.3	35.4	37.8	37.1	37.3	37.4	36.8	36.8	36.2
MANUFACTURING	40.0	39.7	39.9	40.1	40.0	39.5	40.3	40.4	40.3	40.4	40.5	40.3	40.1
<i>Overtime hours</i>	3.0	3.0	2.9	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.4
DURABLE GOODS	40.8	40.2	40.5	40.8	40.5	40.0	40.8	41.0	40.8	41.1	41.2	41.0	41.0
<i>Overtime hours</i>	3.1	3.0	3.0	3.2	3.3	3.4	3.3	3.4	3.6	3.6	3.7	3.6	3.6
Ordnance and accessories	40.7	40.1	40.6	40.6	41.0	40.5	40.6	40.6	41.2	41.1	40.9	40.5	40.1
Lumber and wood products	40.2	39.8	40.3	40.3	40.3	39.9	40.5	40.1	40.0	40.0	39.9	40.5	39.7
Furniture and fixtures	38.5	38.0	38.4	38.6	38.6	37.0	38.1	38.6	38.4	38.7	38.8	38.9	38.8
Stone, clay, and glass products	41.1	40.9	41.4	41.2	41.2	39.9	41.4	41.4	41.4	41.7	41.7	41.3	41.4
Primary metal industries	40.9	40.3	40.2	40.3	40.1	40.0	40.6	41.1	41.5	41.6	41.6	41.2	41.3
Fabricated metal products	41.0	40.6	40.4	40.8	40.5	39.9	40.8	41.0	40.7	41.0	41.3	41.0	41.0
Machinery, except electrical	41.4	40.8	41.2	41.5	41.2	40.6	41.3	41.5	41.3	41.6	41.9	41.9	41.5
Electrical equipment and supplies	40.1	39.7	40.0	40.3	40.2	39.4	40.6	40.3	40.0	40.1	40.4	40.3	40.7
Transportation equipment	41.9	41.1	41.2	42.0	41.1	41.4	41.4	42.8	41.9	42.7	42.9	42.1	42.2
Instruments and related products	40.4	39.9	40.3	40.4	40.7	39.8	40.8	40.4	40.1	40.4	40.7	40.4	40.1
Miscellaneous manufacturing, Ind.	38.5	38.2	38.7	39.0	38.9	38.2	39.5	39.3	38.9	39.0	39.2	38.7	38.7
NONDURABLE GOODS	38.9	39.0	39.1	39.2	39.3	38.7	39.6	39.5	39.5	39.5	39.6	39.3	39.0
<i>Overtime hours</i>	2.8	2.9	2.8	3.0	3.1	3.0	3.2	3.1	3.2	3.1	3.1	3.0	3.0
Food and kindred products	40.1	40.2	40.3	40.4	40.1	39.5	40.3	40.2	40.3	39.9	40.0	39.7	39.1
Tobacco manufactures	36.8	37.1	37.5	36.9	37.5	36.1	39.4	38.4	38.3	38.6	39.0	37.3	36.5
Textile mill products	39.3	39.0	39.4	39.8	40.1	39.7	40.5	40.8	40.5	40.7	40.5	40.4	40.0
Apparel and other textile products	35.2	34.9	35.0	35.1	35.3	34.2	35.7	35.6	35.1	35.7	35.9	35.4	35.1
Paper and allied products	42.1	42.2	42.1	42.4	42.6	41.9	42.7	42.8	43.3	43.0	43.1	42.7	42.4
Printing and publishing	37.5	37.4	37.5	37.6	37.7	37.4	37.9	37.7	37.7	37.6	37.7	37.8	37.7
Chemicals and allied products	41.3	41.9	41.6	41.7	41.7	41.6	41.7	41.8	41.9	41.7	41.9	41.7	41.6
Petroleum and coal products	42.3	42.2	42.0	41.9	42.5	42.3	42.5	43.0	42.7	42.6	43.0	43.0	42.6
Rubber and plastics products, nec	40.0	40.5	41.1	41.2	41.5	40.9	41.4	41.2	41.2	41.3	41.1	40.6	40.4
Leather and leather products	36.7	36.5	36.4	36.4	36.5	35.3	36.7	36.4	37.4	37.1	37.2	36.6	36.9
TRANSPORTATION AND PUBLIC UTILITIES	40.0	39.9	39.8	40.2	40.5	39.8	40.5	40.3	40.1	40.2	40.1	40.1	39.8
WHOLESALE AND RETAIL TRADE	33.6	33.6	33.5	33.4	33.6	33.2	33.4	33.5	33.5	33.4	33.3	33.3	33.3
WHOLESALE TRADE	38.9	38.8	38.7	38.7	38.6	38.7	39.1	38.9	39.0	38.7	38.8	38.8	38.9
RETAIL TRADE	32.0	32.1	32.0	31.9	32.2	31.6	31.8	31.9	31.9	31.9	31.7	31.7	31.7
FINANCE, INSURANCE, AND REAL ESTATE	36.8	36.7	36.7	36.7	36.7	36.8	36.6	36.7	36.6	36.7	36.6	36.6	36.5
SERVICES	33.5	33.6	33.5	33.5	33.5	33.5	33.6	33.5	33.5	33.5	33.3	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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
Average hourly earnings													
TOTAL PRIVATE	\$4.91	\$4.92	\$4.95	\$5.00	\$5.02	\$5.07	\$5.09	\$5.12	\$5.17	\$5.20	\$5.22	\$5.26	\$5.26
MINING	6.34	6.60	6.62	6.62	6.67	6.67	6.72	6.78	6.79	6.82	6.89	6.90	6.91
CONTRACT CONSTRUCTION	7.74	7.71	7.76	7.81	7.82	7.82	7.88	7.90	7.95	7.96	8.06	8.09	8.05
MANUFACTURING	5.25	5.29	5.29	5.34	5.38	5.43	5.43	5.49	5.53	5.57	5.61	5.65	5.68
TRANSPORTATION AND PUBLIC UTILITIES	6.52	6.54	6.58	6.62	6.64	6.69	6.74	6.75	6.83	6.88	6.89	6.93	6.89
WHOLESALE AND RETAIL TRADE	4.00	4.03	4.05	4.08	4.11	4.15	4.18	4.19	4.23	4.24	4.26	4.30	4.29
FINANCE, INSURANCE, AND REAL ESTATE	4.43	4.39	4.43	4.42	4.43	4.51	4.48	4.50	4.53	4.58	4.54	4.59	4.63
SERVICES	4.39	4.39	4.43	4.48	4.50	4.58	4.58	4.61	4.64	4.67	4.68	4.70	4.72
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	177.25	177.12	178.70	181.00	181.72	181.51	184.77	185.86	187.15	188.76	188.96	189.89	189.36
1967 dollars	103.17	102.74	103.29	104.32	104.32	103.37	104.21	104.18	104.09	104.34	103.88	103.99	-
Real spendable earnings (worker and 3 dependents, 1967 dollars)	91.51	91.14	91.51	92.24	92.18	91.36	91.86	91.75	91.58	91.69	94.93	94.97	-

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 workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

[1967 = 100]

Industry division and group	1976					1977							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL	111.8	112.2	112.2	112.8	113.3	112.3	114.2	115.2	115.6	116.1	115.8	115.7	115.3
GOODS-PRODUCING	95.7	95.9	96.0	97.2	96.9	95.2	98.3	100.0	100.9	101.7	101.8	101.5	99.9
MINING	115.6	131.7	131.1	132.6	134.0	130.7	134.6	141.5	142.2	140.2	141.8	136.6	127.8
CONTRACT CONSTRUCTION	102.5	99.4	104.2	105.7	104.3	96.4	105.9	108.1	112.0	112.7	111.3	112.8	109.6
MANUFACTURING	93.9	94.0	93.2	94.5	94.4	93.8	95.7	97.1	97.5	98.5	98.8	98.3	97.2
DURABLE GOODS	93.6	93.2	92.0	93.8	93.6	93.2	94.8	96.8	96.8	98.1	98.7	98.4	97.8
Ordnance and accessories	39.8	38.6	38.5	38.5	39.5	39.0	39.1	38.5	40.8	41.3	41.1	40.1	39.7
Lumber and wood products	97.6	98.2	99.4	100.8	101.9	101.1	103.0	103.4	104.1	104.1	103.8	105.8	103.7
Furniture and fixtures	101.2	102.4	102.2	102.8	103.5	98.5	102.7	105.3	106.0	107.4	107.7	108.2	105.9
Stone, clay, and glass products	98.6	98.9	99.7	100.2	99.1	96.1	97.1	101.5	104.1	104.7	105.7	105.1	104.7
Primary metal industries	89.8	88.8	86.2	85.7	85.0	84.8	85.5	88.5	90.0	91.1	91.1	89.8	89.3
Fabricated metal products	98.6	98.6	96.5	98.1	98.1	97.6	100.0	101.6	101.0	103.1	104.2	103.6	103.3
Machinery, except electrical	95.9	95.9	94.0	96.7	96.0	95.7	97.7	98.6	98.3	100.5	101.2	102.9	100.5
Electrical equipment and supplies	92.2	91.5	92.1	93.4	93.1	91.7	95.5	95.9	96.1	97.3	97.9	98.0	99.5
Transportation equipment	90.7	89.1	86.1	91.5	90.6	93.3	91.3	96.7	94.8	96.2	96.9	95.1	95.3
Instruments and related products	108.1	107.2	107.9	108.5	110.4	108.9	112.4	111.6	111.1	112.3	113.2	112.3	109.8
Miscellaneous manufacturing, Ind.	91.8	92.2	92.0	92.1	91.6	93.1	96.8	96.0	95.1	95.0	94.3	91.4	90.8
NONDURABLE GOODS	94.2	95.2	95.0	95.4	95.5	94.7	97.1	97.6	98.5	98.9	98.9	98.1	96.3
Food and kindred products	96.5	96.4	96.2	96.6	95.5	95.1	97.5	97.9	98.8	97.2	97.5	96.1	93.1
Tobacco manufactures	84.0	82.1	83.0	81.6	81.6	76.1	83.0	75.5	80.7	77.2	79.4	74.6	73.1
Textile mill products	95.5	95.2	95.0	95.6	96.1	95.4	97.9	99.5	99.7	101.1	100.2	100.5	98.1
Apparel and other textile products	87.6	86.2	85.7	86.1	86.3	84.1	88.0	87.9	87.3	89.4	90.4	88.5	86.7
Paper and allied products	96.1	96.5	95.7	97.0	97.2	96.2	98.0	98.3	100.8	101.0	101.3	100.9	99.6
Printing and publishing	92.9	93.1	93.4	93.6	93.7	93.0	94.8	94.3	94.9	95.4	95.3	95.6	95.2
Chemicals and allied products	99.8	100.3	99.4	100.0	100.0	100.4	101.8	102.2	103.5	103.7	103.7	103.5	103.4
Petroleum and coal products	112.4	112.2	112.5	113.1	114.7	115.0	114.7	118.7	120.5	120.2	121.3	121.3	120.2
Rubber and plastics products, nec	105.2	124.3	125.6	125.7	127.6	127.7	129.6	131.7	134.7	135.8	133.9	132.7	129.4
Leather and leather products	72.5	72.1	71.0	70.4	70.5	69.1	71.9	71.9	73.9	73.9	72.9	71.7	71.9
SERVICE-PRODUCING	123.0	123.6	123.5	123.5	124.6	124.1	125.3	125.8	125.8	126.6	125.4	125.7	126.0
TRANSPORTATION AND PUBLIC UTILITIES	102.5	102.9	102.0	103.2	105.0	102.7	104.4	104.2	103.9	104.4	104.0	103.5	102.6
WHOLESALE AND RETAIL TRADE	119.0	119.7	119.3	118.9	120.0	119.1	120.7	121.5	121.7	121.7	121.1	121.4	121.8
WHOLESALE TRADE	114.7	114.9	114.8	114.8	114.8	115.4	117.0	116.9	117.8	117.3	117.3	117.4	117.8
RETAIL TRADE	120.6	121.6	121.0	120.4	122.0	120.4	122.1	123.2	123.1	123.3	122.5	122.9	123.3
FINANCE, INSURANCE, AND REAL ESTATE	127.3	127.7	128.3	129.1	129.8	130.6	130.2	131.1	131.1	131.6	131.5	131.9	131.8
SERVICES	136.6	137.2	137.6	137.7	138.4	138.8	139.7	140.0	140.1	140.2	139.5	139.7	140.8

¹For 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		
	June 1977	July 1977 P	August 1977 P	Aug. 1976 to Aug. 1977	June 1976 to July 1977	July 1977 to Aug. 1977
TOTAL	156,582	157,045	156,828	3.4	0.3	-0.1
PRIVATE SECTOR	126,610	126,701	126,492	3.5	0.1	-0.2
MINING	1,956	1,875	1,789	11.0	-4.2	-4.6
CONTRACT CONSTRUCTION	7,417	7,494	7,315	6.8	1.0	-2.4
MANUFACTURING	41,050	40,964	40,739	3.6	-0.2	-0.5
DURABLE GOODS	24,365	24,353	24,315	4.2	0.0	-0.2
NONDURABLE GOODS	16,685	16,612	16,424	2.7	-0.4	-1.1
TRANSPORTATION AND PUBLIC UTILITIES	9,548	9,527	9,452	1.0	-0.2	-0.8
WHOLESALE AND RETAIL TRADE	31,697	31,781	31,911	2.6	0.3	0.4
FINANCE, INSURANCE, AND REAL ESTATE	8,543	8,574	8,588	4.1	0.4	0.2
SERVICES	26,398	26,486	26,698	3.9	0.3	0.8
GOVERNMENT	29,972	30,344	30,336	2.8	1.2	0.0

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	101.1
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

p=preliminary.
r=revised.

**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	I 1976	II 1976	III 1976	IV 1976	I 1977	II 1975	III 1975	IV 1975	I 1976	II 1976	
	to I 1976	to II 1976	to III 1976	to IV 1976	to I 1977	to II 1977	to II 1976	to III 1976	to IV 1976	to I 1977	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	12.0	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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
ALABAMA	\$180.50	\$196.26	\$201.90	40.2	40.3	40.3	\$4.49	\$4.87	\$5.01
Birmingham	232.82	242.13	(*)	41.5	40.9	(*)	5.61	5.92	(*)
Mobile	223.71	243.65	250.32	40.6	42.3	42.0	5.51	5.76	5.96
ALASKA	362.86	367.11	(*)	46.7	40.7	(*)	7.77	9.02	(*)
ARIZONA	205.52	221.94	218.80	39.6	40.5	40.0	5.19	5.48	5.47
Phoenix	206.04	219.23	222.05	39.7	40.3	40.3	5.19	5.44	5.51
Tucson	210.94	226.86	211.53	39.8	39.8	38.6	5.30	5.70	5.48
ARKANSAS	156.01	170.05	(*)	39.9	40.2	(*)	3.91	4.23	(*)
Fayetteville—Springdale	148.82	153.16	(*)	42.4	40.2	(*)	3.51	3.81	(*)
Fort Smith	155.99	170.04	(*)	38.9	39.0	(*)	4.01	4.36	(*)
Little Rock—North Little Rock	172.77	197.40	(*)	39.0	40.7	(*)	4.43	4.85	(*)
Pine Bluff	195.29	205.58	(*)	41.2	41.7	(*)	4.74	4.93	(*)
CALIFORNIA	221.03	241.40	(*)	39.4	40.3	(*)	5.61	5.99	(*)
Anaheim—Santa Ana—Garden Grove	208.64	222.63	(*)	40.2	40.7	(*)	5.19	5.47	(*)
Bakersfield	233.05	250.27	(*)	39.3	39.6	(*)	5.93	6.32	(*)
Fresno	195.67	219.06	(*)	37.2	41.1	(*)	5.26	5.33	(*)
Los Angeles—Long Beach	206.19	226.40	(*)	39.5	40.5	(*)	5.22	5.59	(*)
Modesto	204.60	233.92	(*)	37.2	38.6	(*)	5.50	6.06	(*)
Oxnard—Simi Valley—Ventura	193.27	199.05	(*)	38.5	38.5	(*)	5.02	5.17	(*)
Riverside—San Bernardino—Ontario	240.49	242.33	(*)	40.9	40.0	(*)	5.88	6.06	(*)
Sacramento	243.82	253.36	(*)	39.2	38.8	(*)	6.22	6.53	(*)
Salinas—Seaside—Monterey	199.96	218.68	(*)	37.8	37.9	(*)	5.29	5.77	(*)
San Diego	213.71	227.35	(*)	38.3	38.6	(*)	5.58	5.89	(*)
San Francisco—Oakland	274.22	253.46	(*)	35.8	40.2	(*)	6.89	7.30	(*)
San Jose	235.98	260.18	(*)	39.2	40.4	(*)	6.02	6.44	(*)
Santa Barbara—Santa Maria—Lompoc	200.07	265.35	(*)	39.0	38.6	(*)	5.13	5.32	(*)
Santa Rosa	209.61	226.37	(*)	37.7	39.3	(*)	5.56	5.76	(*)
Stockton	241.52	260.70	(*)	39.4	39.5	(*)	6.13	6.60	(*)
Vallejo—Fairfield—Napa	229.45	246.09	(*)	37.8	39.0	(*)	6.07	6.31	(*)
COLORADO	210.50	225.22	(*)	39.2	39.1	(*)	5.37	5.76	(*)
Denver—Boulder	207.05	225.22	(*)	38.7	39.1	(*)	5.35	5.76	(*)
CONNECTICUT	209.82	231.02	(*)	40.9	41.7	(*)	5.13	5.54	(*)
Bridgeport	223.87	237.84	(*)	42.4	42.7	(*)	5.28	5.57	(*)
Hartford	238.29	254.49	(*)	42.4	42.7	(*)	5.62	5.96	(*)
New Britain	208.87	241.82	(*)	40.4	42.8	(*)	5.17	5.65	(*)
New Haven—West Haven	200.55	230.72	(*)	39.4	41.2	(*)	5.09	5.60	(*)
Stamford	219.54	235.05	(*)	42.3	42.2	(*)	5.19	5.57	(*)
Waterbury	179.49	200.93	(*)	40.7	42.3	(*)	4.41	4.75	(*)
DELAWARE	214.20	234.77	232.46	40.8	40.2	39.4	5.25	5.84	5.90
Wilmington	247.46	268.37	267.46	40.5	40.6	39.8	6.11	6.61	6.72
DISTRICT OF COLUMBIA:									
Washington SMSA	209.83	213.46	(*)	38.5	38.6	(*)	5.45	5.53	(*)
FLORIDA	175.20	188.03	187.33	40.0	40.7	40.2	4.38	4.62	4.66
Fort Lauderdale—Hollywood	173.75	188.61	180.50	40.5	42.1	40.2	4.29	4.48	4.49
Jacksonville	226.68	225.07	222.36	41.9	40.7	40.8	5.41	5.53	5.45
Miami	153.27	163.07	159.29	39.2	39.2	38.2	3.91	4.16	4.17
Orlando	189.01	201.89	205.50	41.0	41.8	41.1	4.61	4.83	5.00
Pensacola	209.48	239.57	242.30	39.9	43.4	43.5	5.25	5.52	5.57
Tampa—St. Petersburg	186.00	158.29	205.67	40.0	40.8	41.3	4.65	4.86	4.98
West Palm Beach—Boca Raton	203.72	207.95	214.61	40.5	40.3	40.8	5.03	5.16	5.26
GEORGIA	165.96	180.46	179.38	39.8	41.2	40.4	4.17	4.38	4.44
Atlanta	199.52	226.46	(*)	39.2	41.1	(*)	5.09	5.51	(*)
Savannah	223.74	236.19	240.44	41.5	43.1	43.4	5.34	5.48	5.54
HAWAII	186.19	195.98	224.10	39.7	37.4	43.6	4.69	5.24	5.14
Honolulu	174.60	188.12	184.51	38.8	36.6	38.2	4.50	5.14	4.83
IDAHO	217.88	233.23	232.85	39.4	39.8	39.4	5.53	5.86	5.91

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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
ILLINOIS	(*)	\$257.84	\$251.59	(*)	41.2	39.9	(*)	\$6.26	\$6.31
Bloomington—Normal	(*)	152.13	188.90	(*)	39.2	39.1	(*)	4.90	4.82
Champaign—Urbana—Rantoul	(*)	245.36	229.18	(*)	41.8	38.9	(*)	5.86	5.89
Chicago SMSA	(*)	263.37	(*)	(*)	42.1	(*)	(*)	6.26	(*)
Davenport—Rock Island—Moline	(*)	263.52	265.48	(*)	39.7	39.4	(*)	6.63	6.73
Decatur	(*)	268.42	270.89	(*)	40.1	40.2	(*)	6.69	6.75
Peoria	(*)	307.72	281.78	(*)	40.5	37.5	(*)	7.59	7.51
Rockford	(*)	245.58	247.95	(*)	41.1	40.5	(*)	5.98	6.13
Springfield	(*)	257.80	300.53	(*)	43.5	43.1	(*)	6.84	6.97
INDIANA	\$245.01	276.30	271.83	40.7	41.8	41.0	\$6.02	6.61	6.63
Gary—Hammond—East Chicago	310.02	360.76	(*)	40.9	41.9	(*)	7.58	8.61	(*)
Indianapolis	244.96	295.15	(*)	41.1	42.9	(*)	5.96	6.88	(*)
IOWA	231.05	259.05	(*)	39.7	40.1	(*)	5.82	6.46	(*)
Cedar Rapids	236.01	247.26	(*)	39.8	39.0	(*)	5.93	6.34	(*)
Des Moines	211.58	261.06	(*)	35.5	38.0	(*)	5.96	6.87	(*)
Dubuque	292.52	326.79	(*)	41.2	40.9	(*)	7.10	7.99	(*)
Sioux City	193.14	214.73	(*)	37.0	38.9	(*)	5.22	5.52	(*)
Waterloo—Cedar Falls	303.36	332.88	(*)	41.9	41.3	(*)	7.24	8.06	(*)
KANSAS	201.76	217.83	220.96	40.9	41.1	41.3	4.94	5.30	5.35
Topeka	191.29	227.20	239.55	41.4	40.5	42.1	4.62	5.61	5.69
Wichita	225.02	229.96	235.00	41.4	40.7	41.3	5.44	5.65	5.69
KENTUCKY	203.71	224.07	(*)	39.1	40.3	(*)	5.21	5.56	(*)
Louisville	237.80	263.16	(*)	39.7	40.8	(*)	5.99	6.45	(*)
LOUISIANA	220.17	239.20	242.84	41.0	41.6	41.3	5.37	5.75	5.88
Baton Rouge	281.82	313.49	315.38	42.7	43.3	43.5	6.60	7.24	7.25
New Orleans	209.08	227.53	226.18	39.5	40.2	39.2	5.24	5.66	5.77
Shreveport	184.39	217.24	221.33	39.4	42.1	42.4	4.68	5.16	5.22
MAINE	168.00	178.35	182.34	40.0	39.9	39.9	4.20	4.47	4.57
Lewiston—Auburn	142.16	145.54	143.99	39.6	38.1	37.4	3.59	3.82	3.85
Portland	177.48	174.54	177.97	40.8	39.4	39.2	4.35	4.43	4.54
MARYLAND	223.60	242.61	(*)	40.0	40.1	(*)	5.59	6.05	(*)
Baltimore	238.36	254.52	(*)	40.4	40.4	(*)	5.90	6.30	(*)
MASSACHUSETTS	190.32	206.15	(*)	39.9	40.5	(*)	4.77	5.09	(*)
Boston	209.48	224.07	(*)	39.5	40.3	(*)	5.25	5.56	(*)
Brockton	156.74	162.86	(*)	38.7	38.5	(*)	4.05	4.23	(*)
Fall River	135.32	149.97	(*)	35.8	36.4	(*)	3.78	4.12	(*)
Lawrence—Haverhill	181.31	200.88	(*)	39.5	40.5	(*)	4.59	4.96	(*)
Lowell	166.12	177.70	(*)	38.1	38.8	(*)	4.36	4.58	(*)
New Bedford	153.75	177.80	(*)	37.5	35.6	(*)	4.10	4.49	(*)
Springfield—Chicopee—Holyoke	191.76	217.36	(*)	40.8	41.8	(*)	4.70	5.20	(*)
Worcester	190.70	212.63	(*)	39.4	40.5	(*)	4.84	5.25	(*)
MICHIGAN	292.64	329.65	(*)	43.2	44.1	(*)	6.77	7.48	(*)
Ann Arbor	317.86	366.92	(*)	44.4	45.4	(*)	7.16	8.08	(*)
Battle Creek	295.72	307.63	(*)	42.3	41.9	(*)	6.99	7.34	(*)
Bay City	313.31	370.49	(*)	47.9	50.4	(*)	6.54	7.35	(*)
Detroit	316.68	352.81	(*)	44.1	44.3	(*)	7.18	7.96	(*)
Flint	350.40	400.92	(*)	46.3	47.7	(*)	7.57	8.41	(*)
Grand Rapids	228.38	253.83	(*)	40.6	41.7	(*)	5.63	6.09	(*)
Jackson	245.18	275.55	(*)	40.6	42.3	(*)	6.04	6.52	(*)
Kalamazoo—Portage	244.62	285.31	(*)	40.6	42.4	(*)	6.03	6.73	(*)
Lansing—East Lansing	301.01	358.94	(*)	43.6	45.9	(*)	6.90	7.82	(*)
Muskegon—Norton Shores—Muskegon Heights	243.97	266.28	(*)	40.6	42.0	(*)	6.01	6.34	(*)
Saginaw	349.73	355.73	(*)	44.7	46.3	(*)	7.82	8.55	(*)
MINNESOTA	218.20	239.19	238.60	39.6	40.2	39.9	5.51	5.95	5.98
Duluth—Superior	195.97	214.97	222.08	38.5	39.3	39.8	5.09	5.47	5.58
Minneapolis—St. Paul	232.64	258.90	256.94	39.7	40.9	40.4	5.86	6.33	6.36
MISSISSIPPI	150.07	164.82	165.21	39.7	40.2	40.1	3.78	4.10	4.12
Jackson	154.06	184.61	180.14	39.2	41.3	40.3	3.93	4.47	4.47

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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
MISSOURI ¹	\$207.60	\$230.11	\$228.50	40.0	40.8	40.3	\$5.19	\$5.64	\$5.67
Kansas City ¹	240.13	266.27	260.58	40.7	41.8	40.4	5.90	6.37	6.45
St. Joseph ¹	192.16	210.20	203.78	40.2	40.5	39.8	4.78	5.19	5.12
St. Louis ¹	243.24	266.62	267.03	40.5	41.4	41.4	6.01	6.44	6.45
Springfield ¹	184.54	195.37	195.11	41.1	40.2	39.9	4.49	4.86	4.89
MONTANA	235.78	259.37	(*)	38.4	42.8	(*)	6.14	6.06	(*)
NEBRASKA	200.59	222.14	221.90	41.2	41.6	41.4	4.87	5.34	5.36
Lincoln	187.85	210.30	213.29	37.6	38.8	38.5	5.00	5.42	5.54
Omaha	220.18	238.46	235.58	41.7	41.4	40.9	5.28	5.76	5.76
NEVADA	224.83	231.72	236.88	39.1	38.3	37.6	5.75	6.05	6.30
Las Vegas	271.08	300.37	(*)	40.1	40.7	(*)	6.76	7.38	(*)
NEW HAMPSHIRE	169.06	182.25	(*)	39.5	40.5	(*)	4.28	4.50	(*)
Manchester	151.31	164.00	(*)	38.6	40.0	(*)	3.92	4.10	(*)
Nashua	186.12	207.17	(*)	39.6	41.6	(*)	4.70	4.98	(*)
NEW JERSEY	216.95	242.02	239.95	40.4	41.8	41.3	5.37	5.79	5.81
Atlantic City	167.01	181.88	(*)	37.7	37.5	(*)	4.43	4.85	(*)
Camden ²	199.02	226.97	(*)	39.1	40.1	(*)	5.09	5.66	(*)
Hackensack ³	212.05	227.70	(*)	40.7	42.8	(*)	5.21	5.32	(*)
Jersey City ³	208.05	228.58	(*)	38.6	40.6	(*)	5.39	5.63	(*)
New Brunswick—Perth Amboy—Sayreville ³	239.20	256.62	(*)	41.6	42.0	(*)	5.75	6.11	(*)
Newark ³	222.89	248.30	(*)	40.6	42.3	(*)	5.49	5.87	(*)
Paterson—Clifton—Passaic ³	207.46	226.46	(*)	41.0	41.1	(*)	4.85	5.51	(*)
Trenton	223.30	246.60	(*)	41.2	41.1	(*)	5.42	6.00	(*)
NEW MEXICO	172.57	165.56	165.68	42.4	37.8	37.4	4.07	4.38	4.43
Albuquerque	179.78	168.97	172.81	44.5	37.8	37.9	4.04	4.47	4.56
NEW YORK	206.84	225.44	(*)	39.1	39.9	(*)	5.29	5.65	(*)
Albany—Schenectady—Troy	228.26	241.31	(*)	40.4	40.9	(*)	5.65	5.90	(*)
Binghamton	194.73	157.87	(*)	40.4	40.3	(*)	4.82	4.91	(*)
Buffalo	268.87	306.13	(*)	41.3	42.4	(*)	6.51	7.22	(*)
Elmira	201.96	222.75	(*)	39.6	40.5	(*)	5.10	5.50	(*)
Monroe County ⁴	264.38	289.26	(*)	41.7	41.8	(*)	6.34	6.92	(*)
Nassau—Suffolk ⁵	191.78	202.64	(*)	38.9	39.5	(*)	4.93	5.13	(*)
New York—Northeastern New Jersey	198.92	217.46	(*)	38.7	39.9	(*)	5.14	5.45	(*)
New York and Nassau—Suffolk ³	184.64	198.12	(*)	37.2	38.1	(*)	4.95	5.20	(*)
New York SMSA ⁵	182.66	197.32	(*)	36.9	37.8	(*)	4.95	5.22	(*)
New York City ⁵	181.17	154.25	(*)	36.6	37.5	(*)	4.95	5.18	(*)
Poughkeepsie	223.34	235.74	(*)	42.3	42.4	(*)	5.28	5.56	(*)
Rochester	249.67	274.56	(*)	41.2	41.6	(*)	6.06	6.60	(*)
Rockland County ⁶	203.61	222.29	(*)	41.3	42.1	(*)	4.93	5.28	(*)
Syracuse	228.37	254.14	(*)	41.0	41.8	(*)	5.57	6.08	(*)
Utica—Rome	200.80	212.22	(*)	40.0	40.5	(*)	5.02	5.24	(*)
Westchester County ⁶	199.02	225.76	(*)	39.1	40.1	(*)	5.09	5.63	(*)
NORTH CAROLINA	148.59	163.21	163.53	39.0	40.2	39.5	3.81	4.06	4.14
Asheville	147.02	160.00	159.60	39.1	40.2	39.8	3.76	3.98	4.01
Charlotte—Gastonia	155.52	166.85	168.50	40.5	41.3	40.7	3.84	4.04	4.14
Greensboro—Winston-Salem—High Point	161.02	178.97	177.41	38.8	40.4	39.6	4.15	4.43	4.48
Raleigh—Durham	161.08	184.86	181.50	37.9	39.5	38.7	4.25	4.68	4.69
NORTH DAKOTA	184.12	207.37	(*)	38.2	39.2	(*)	4.82	5.29	(*)
Fargo—Moorhead	205.31	225.55	(*)	40.1	39.5	(*)	5.12	5.71	(*)
OHIO	252.95	287.80	284.60	41.4	42.7	42.1	6.11	6.74	6.76
Akron	236.98	257.04	292.66	41.0	43.3	42.6	5.78	6.86	6.87
Canton	239.90	275.49	276.74	39.2	40.1	40.4	6.12	6.87	6.85
Cincinnati	229.70	265.44	264.81	40.8	42.2	41.9	5.63	6.29	6.32
Cleveland	262.29	300.72	295.41	41.5	43.9	43.0	6.26	6.85	6.87
Columbus	228.34	248.47	245.63	40.2	40.8	40.4	5.68	6.09	6.08
Dayton	273.18	310.22	294.29	43.5	44.7	42.9	6.28	6.94	6.86
Toledo	257.67	303.63	300.73	40.9	43.5	42.9	6.30	6.98	7.01
Youngstown—Warren	285.20	318.37	317.83	40.0	41.4	40.8	7.13	7.69	7.79

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		
	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P	JULY 1976	JUNE 1977	JULY 1977P
OKLAHOMA	\$193.36	\$213.96	\$215.06	40.2	40.6	40.5	\$4.81	\$5.27	\$5.31
Oklahoma City	186.99	210.20	214.93	40.3	40.5	40.4	4.64	5.19	5.32
Tulsa	212.38	228.80	228.63	40.3	40.0	39.9	5.27	5.72	5.73
OREGON	244.73	260.55	(*)	39.6	39.9	(*)	6.18	6.53	(*)
Eugene—Springfield	275.80	280.03	(*)	42.3	41.0	(*)	6.52	6.83	(*)
Jackson County	233.38	253.46	(*)	37.4	43.8	(*)	6.24	6.70	(*)
Portland	228.76	243.72	(*)	38.0	38.2	(*)	6.02	6.38	(*)
PENNSYLVANIA	212.12	231.42	230.47	39.5	39.9	39.6	5.37	5.80	5.82
Allentown—Bethlehem—Easton	212.08	227.15	227.54	38.7	38.5	38.5	5.48	5.90	5.91
Altoona	171.65	198.18	192.73	38.4	39.4	38.7	4.47	5.03	4.98
Delaware Valley ⁷	220.30	243.21	240.98	39.2	40.2	39.7	5.62	6.05	6.07
Erie	220.30	238.14	225.23	40.2	41.2	38.7	5.48	5.78	5.82
Harrisburg	189.60	208.24	210.27	35.5	40.2	39.5	4.80	5.18	5.27
Johnstown	246.82	256.37	262.91	41.0	35.2	40.2	6.02	6.54	6.54
Lancaster	189.20	203.94	203.43	40.0	39.6	39.5	4.73	5.15	5.15
Northeast Pennsylvania	152.15	168.90	166.16	36.4	36.4	36.2	4.18	4.64	4.59
Philadelphia SMSA ¹	217.09	(*)	(*)	39.4	(*)	(*)	5.51	(*)	(*)
Pittsburgh	263.40	288.86	280.76	40.9	40.8	39.6	6.44	7.08	7.09
Reading	187.79	212.12	207.05	38.8	39.5	38.7	4.84	5.37	5.35
Scranton ⁸	155.12	174.56	177.08	37.2	37.3	38.0	4.17	4.68	4.66
Wilkes—Barre—Hazleton ⁹	147.74	164.22	158.55	35.6	35.7	35.0	4.15	4.60	4.53
Williamsport	175.77	152.84	199.05	37.8	38.8	38.5	4.65	4.97	5.17
York	193.80	214.56	211.97	40.8	41.5	41.0	4.75	5.17	5.17
RHODE ISLAND	166.36	172.09	171.55	39.8	39.2	38.9	4.18	4.39	4.41
Providence—Warwick—Pawtucket	167.62	172.53	172.38	40.1	39.3	39.0	4.18	4.30	4.42
SOUTH CAROLINA	159.59	171.79	(*)	40.2	41.0	(*)	3.97	4.19	(*)
Charleston—North Charleston	178.93	193.17	(*)	40.3	41.1	(*)	4.44	4.70	(*)
Columbia	155.24	176.11	(*)	39.3	40.3	(*)	3.95	4.37	(*)
Greenville—Spartanburg	157.61	172.21	(*)	39.8	41.1	(*)	3.96	4.19	(*)
SOUTH DAKOTA	178.70	191.28	198.65	39.8	40.1	41.3	4.49	4.77	4.81
Sioux Falls	231.55	240.66	240.35	42.1	42.0	40.6	5.50	5.73	5.92
TENNESSEE	169.60	190.34	(*)	42.4	41.2	(*)	4.24	4.62	(*)
Chattanooga	182.86	196.32	(*)	41.0	40.9	(*)	4.46	4.80	(*)
Knoxville	202.00	220.17	(*)	40.4	41.0	(*)	5.00	5.37	(*)
Memphis	199.66	203.76	(*)	40.5	41.5	(*)	4.93	4.91	(*)
Nashville—Davidson	183.02	208.38	(*)	39.7	40.7	(*)	4.61	5.12	(*)
TEXAS	204.22	222.35	(*)	40.6	41.1	(*)	5.03	5.41	(*)
Amarillo	200.58	224.43	225.93	41.7	44.4	44.3	4.81	5.28	5.10
Austin	178.40	180.02	184.64	41.2	41.1	41.4	4.33	4.38	4.46
Beaumont—Port Arthur—Orange	286.06	318.84	338.48	41.1	41.3	42.9	6.96	7.72	7.89
Corpus Christi	249.61	253.68	242.38	44.1	42.0	40.6	5.66	6.04	5.97
Dallas—Fort Worth	188.40	210.34	201.89	40.0	41.9	39.9	4.71	5.02	5.06
El Paso	142.72	148.22	(*)	39.1	38.8	(*)	3.65	3.82	(*)
Galveston—Texas City	336.98	347.54	355.88	45.6	42.8	43.4	7.39	8.12	8.20
Houston	252.19	283.80	287.31	42.6	43.0	43.4	5.92	6.60	6.62
Lubbock	152.62	168.09	168.51	41.7	41.3	41.2	3.66	4.07	4.09
San Antonio	152.09	164.41	170.15	39.3	40.1	41.4	3.87	4.11	4.11
Waco	160.90	187.29	185.64	38.4	41.9	42.0	4.19	4.47	4.42
Wichita Falls	170.93	198.77	197.15	37.9	40.9	40.4	4.51	4.86	4.88
UTAH	198.90	206.41	206.36	35.7	40.1	40.2	5.01	5.15	5.13
Salt Lake City—Ogden	190.48	195.13	187.96	40.1	39.7	39.4	4.75	4.92	4.77
VERMONT	181.66	193.75	192.64	41.1	41.4	40.9	4.42	4.68	4.71
Burlington	218.44	220.33	221.70	43.0	42.7	42.8	5.08	5.16	5.18
Springfield	195.05	219.76	215.13	40.3	41.0	40.9	4.84	5.36	5.26
VIRGINIA	172.77	189.14	187.38	39.9	40.5	39.7	4.33	4.67	4.72
Bristol	153.60	166.92	166.80	38.4	39.0	38.7	4.00	4.28	4.31
Lynchburg	172.03	194.28	181.58	40.1	40.9	38.8	4.29	4.75	4.68
Norfolk—Virginia Beach—Portsmouth	182.29	209.84	207.33	40.6	41.8	41.3	4.49	5.02	5.02
Northern Virginia ¹⁰	199.19	215.35	215.87	35.6	41.0	40.2	5.03	5.35	5.37
Petersburg—Colonial Heights—Hopewell	209.21	220.95	213.53	39.4	38.9	37.2	5.31	5.68	5.74
Richmond	205.67	222.08	217.84	39.4	39.8	38.9	5.22	5.58	5.60

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		
	JULY 1976	JUNE 1977	JULY 1977 ^p	JULY 1976	JUNE 1977	JULY 1977 ^p	JULY 1976	JUNE 1977	JULY 1977 ^p
VIRGINIA—Continued									
Roanoke	\$157.61	\$163.56	\$162.60	39.2	39.7	38.9	\$3.96	\$4.12	\$4.18
WASHINGTON ¹¹									
Seattle—Everett	249.36	266.34	(*)	38.6	35.4	(*)	6.46	6.76	(*)
Spokane	255.45	275.22	(*)	39.0	39.6	(*)	6.55	6.95	(*)
Tacoma	220.42	228.48	(*)	38.4	38.4	(*)	5.74	5.95	(*)
.....	247.38	272.63	(*)	38.0	35.8	(*)	6.51	6.85	(*)
WEST VIRGINIA									
Charleston	214.62	242.00	(*)	38.6	40.2	(*)	5.56	6.02	(*)
Huntington—Ashland	246.84	276.60	(*)	40.4	42.1	(*)	6.11	6.57	(*)
Parkersburg—Marietta	236.99	261.46	(*)	40.1	39.2	(*)	5.91	6.67	(*)
Wheeling	241.13	252.10	(*)	40.2	39.7	(*)	5.91	6.35	(*)
.....	226.94	249.00	(*)	39.4	41.5	(*)	5.76	6.00	(*)
WISCONSIN									
Appleton—Oshkosh	225.61	249.53	246.41	40.1	40.8	40.3	5.62	6.11	6.11
Green Bay	221.23	243.86	246.91	40.7	42.1	42.0	5.44	5.80	5.88
Kenosha	232.03	262.57	255.99	41.5	42.9	42.1	5.60	6.12	6.08
La Crosse	260.95	296.73	282.22	38.9	41.3	39.9	6.70	7.18	7.07
Madison	186.67	200.67	201.71	40.4	39.2	39.8	4.62	5.12	5.07
Milwaukee	249.16	268.24	278.12	39.8	40.9	41.0	6.27	6.56	6.78
Racine	248.13	274.67	275.11	39.9	40.8	40.6	6.21	6.73	6.78
.....	246.84	267.97	244.04	39.9	40.9	38.0	6.18	6.55	6.42
WYOMING									
Casper	223.11	227.77	239.20	40.2	40.1	40.0	5.55	5.68	5.98
Cheyenne	269.93	273.98	290.50	41.4	41.2	41.5	6.52	6.65	7.00
.....	259.08	231.68	251.66	41.2	42.2	42.8	6.29	5.49	5.88

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.

¹¹ Based on 1972 Standard Industrial Classification and adjusted to 1976 benchmark; not strictly comparable with previously published data.

^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	4.3 ^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 ^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 ^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 ^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 ^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	
		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
	MANUFACTURING	4.9	4.3	3.7	3.0	3.5	4.3	1.9	1.9	0.8	1.5
19,24,25,32-39	DURABLE GOODS	4.4	3.7	3.4	2.6	3.1	3.8	1.6	1.6	.7	1.3
20-23,26-31	NONDURABLE GOODS	5.5	5.0	4.2	3.5	4.1	5.0	2.3	2.4	1.0	1.8
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	2.5	1.9	1.6	1.1	2.0	1.6	.6	.6	.6	.5
192	Ammunition, except for small arms	2.3	-	1.3	-	2.2	-	.6	-	.7	-
24	LUMBER AND WOOD PRODUCTS	7.6	5.7	6.4	4.9	4.8	5.3	3.3	3.3	.5	1.1
242	Sawmills and planing mills	6.8	-	5.5	-	4.6	-	3.1	-	.6	-
2421	Sawmills and planing mills, general	6.6	-	5.3	-	4.3	-	2.8	-	.6	-
243	Millwork, plywood and related products	8.3	-	7.4	-	4.9	-	3.4	-	.3	-
2431	Millwork	7.9	-	7.2	-	5.1	-	3.4	-	.4	-
2432	Veneer and plywood	6.0	-	5.3	-	3.8	-	2.5	-	.3	-
244	Wooden containers	8.4	-	7.4	-	6.7	-	5.7	-	.1	-
2441,2	Wooden boxes, shooks, and crates	7.7	-	7.1	-	6.1	-	5.2	-	.2	-
249	Miscellaneous wood products	6.7	-	6.0	-	5.3	-	3.7	-	.5	-
25	FURNITURE AND FIXTURES	5.7	5.8	4.9	4.6	4.8	6.2	2.9	3.3	.8	1.7
251	Household furniture	5.5	-	4.8	-	5.1	-	3.2	-	.9	-
2511	Wood household furniture	6.1	-	5.5	-	5.2	-	3.6	-	.4	-
2512	Upholstered household furniture	4.2	-	3.5	-	3.8	-	2.6	-	.5	-
2515	Mattresses and bedsprings	5.7	-	4.8	-	4.6	-	2.9	-	.5	-
252	Office furniture	7.0	-	5.7	-	3.3	-	1.9	-	.3	-
32	STONE, CLAY, AND GLASS PRODUCTS	5.2	4.7	4.1	3.4	3.2	4.0	1.8	1.9	.4	1.1
321	Flat glass	3.6	-	2.6	-	1.9	-	.5	-	.2	-
322	Glass and glassware, pressed or blown	3.8	-	2.7	-	2.6	-	1.1	-	.5	-
3221	Glass containers	4.3	-	3.1	-	2.2	-	1.2	-	.1	-
3229	Pressed and blown glass, nec	3.1	-	2.1	-	3.1	-	.8	-	1.1	-
324	Cement, hydraulic	3.6	-	2.7	-	1.6	-	.4	-	.4	-
325	Structural clay products	7.6	-	6.6	-	4.7	-	3.2	-	.5	-
3251	Brick and structural clay tile	9.7	-	8.6	-	6.3	-	4.8	-	.3	-
326	Pottery and related products	5.0	-	4.2	-	3.8	-	1.9	-	.5	-
3291	Abrasive products	4.3	-	2.9	-	1.8	-	.9	-	.1	-
33	PRIMARY METAL INDUSTRIES	3.3	2.4	2.3	1.5	2.1	2.9	.8	.8	.4	1.0
331	Blast furnace and basic steel products	2.7	-	1.5	-	1.7	-	.3	-	.5	-
3312	Blast furnaces and steel mills	2.7	-	1.4	-	1.6	-	.3	-	.5	-
332	Iron and steel foundries	4.2	-	3.5	-	2.8	-	1.4	-	.4	-
3321	Gray iron foundries	4.2	-	3.6	-	2.7	-	1.4	-	.3	-
3322	Malleable iron foundries	4.0	-	3.5	-	2.8	-	1.6	-	.2	-
3323	Steel foundries	4.3	-	3.2	-	3.1	-	1.3	-	.6	-
333,4	Nonferrous metals	3.3	-	2.5	-	1.9	-	.9	-	.2	-
335	Nonferrous rolling and drawing	2.6	-	1.9	-	1.9	-	.7	-	.3	-
3351	Copper rolling and drawing	3.0	-	2.5	-	1.7	-	1.0	-	.1	-
3352	Aluminum rolling and drawing	2.9	-	2.2	-	2.0	-	.5	-	.3	-
3357	Nonferrous wire drawing, and insulating	2.1	-	1.5	-	1.9	-	.7	-	.4	-
336	Nonferrous foundries	5.9	-	4.7	-	4.1	-	2.2	-	.6	-
3361	Aluminum castings	6.9	-	6.0	-	4.5	-	2.6	-	.5	-
3362,9	Other nonferrous castings	4.8	-	3.1	-	3.5	-	1.7	-	.6	-
339	Miscellaneous primary metal products	3.4	-	2.7	-	2.0	-	1.0	-	.4	-
3391	Iron and steel forgings	3.4	-	2.4	-	2.1	-	.9	-	.5	-
34	FABRICATED METAL PRODUCTS	5.0	4.4	4.0	3.1	3.5	4.0	1.8	1.8	.8	1.2
341	Metal cans	5.7	-	2.7	-	3.1	-	.7	-	1.6	-
342	Cutlery, hand tools, and hardware	4.2	-	3.5	-	3.1	-	1.6	-	.6	-
3421,3,5	Cutlery and hand tools, incl. saws	4.4	-	3.6	-	2.9	-	1.6	-	.5	-
3429	Hardware, nec	4.1	-	3.5	-	3.3	-	1.6	-	.7	-
343	Plumbing and heating, except electric	4.5	-	4.0	-	3.1	-	1.8	-	.5	-
3431,2	Sanitary ware and plumbers' brass goods	4.4	-	4.1	-	2.9	-	1.8	-	.3	-
3433	Heating equipment, except electric	4.6	-	3.9	-	3.3	-	1.8	-	.7	-
344	Fabricated structural metal products	6.0	-	4.9	-	4.0	-	2.2	-	.9	-
3441	Fabricated structural steel	5.7	-	4.0	-	3.7	-	1.8	-	.9	-
3443	Fabricated plate work (boiler shops)	3.0	-	2.3	-	2.8	-	1.2	-	.9	-
3446,9	Architectural and misc. metal work	6.6	-	5.4	-	4.0	-	2.5	-	.7	-
345	Screw machine products, bolts, etc.	3.5	-	3.0	-	2.5	-	1.6	-	.2	-
3452	Bolts, nuts, rivets, and washers	3.1	-	2.6	-	2.5	-	1.3	-	.3	-

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	
		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
DURABLE GOODS — Continued											
FABRICATED METAL PRODUCTS — Continued											
346	Metal stampings	3.8	-	2.8	-	3.0	-	1.2	-	0.9	-
348	Miscellaneous fabricated wire products	5.4	-	4.6	-	3.9	-	2.6	-	.4	-
349	Miscellaneous fabricated metal products	4.3	-	3.4	-	2.5	-	1.5	-	.3	-
3494,8	Valves, pipe, and pipe fittings	4.2	-	3.0	-	2.3	-	1.3	-	.4	-
35	MACHINERY, EXCEPT ELECTRICAL	3.5	3.1	2.8	2.1	2.7	2.8	1.2	1.2	.7	0.8
351	Engines and turbines	2.0	-	1.0	-	2.0	-	.3	-	.6	-
3511	Steam engines and turbines	1.5	-	.7	-	1.4	-	.2	-	.1	-
3519	Internal combustion engines, nec	2.3	-	1.2	-	2.3	-	.4	-	1.0	-
352	Farm machinery	3.2	-	2.3	-	3.2	-	1.1	-	1.1	-
353	Construction and related machinery	3.2	-	2.4	-	3.4	-	1.2	-	1.6	-
3531,2	Construction and mining machinery	2.7	-	1.7	-	4.1	-	.9	-	2.6	-
3533	Oil field machinery	4.1	-	3.6	-	2.6	-	1.7	-	.3	-
3535,6	Conveyors, hoists, cranes, monorails	3.3	-	2.6	-	2.5	-	1.2	-	.7	-
354	Metal working machinery	3.4	-	2.8	-	2.4	-	1.3	-	.5	-
3541	Machine tools, metal cutting types	2.2	-	1.9	-	1.5	-	.9	-	.1	-
3545	Machine tool accessories	3.0	-	2.7	-	2.3	-	1.0	-	.4	-
3542,8	Miscellaneous metal working machinery	2.9	-	2.1	-	2.5	-	1.0	-	1.0	-
355	Special industry machinery	2.8	-	2.3	-	2.0	-	.9	-	.5	-
3551	Food products machinery	2.6	-	2.2	-	2.2	-	.9	-	.7	-
3552	Textile machinery	3.5	-	2.4	-	2.6	-	1.1	-	1.0	-
356	General industrial machinery	3.0	-	2.3	-	2.0	-	1.0	-	.3	-
3561	Pumps and compressors	3.0	-	2.4	-	2.1	-	1.0	-	.4	-
3562	Ball and roller bearings	2.8	-	2.0	-	1.7	-	.6	-	.2	-
3566	Power transmission equipment	2.9	-	2.2	-	1.8	-	1.0	-	.1	-
357	Office and computing machines	4.5	-	3.9	-	2.5	-	1.6	-	.2	-
3573	Electronic computing equipment	4.7	-	4.1	-	2.3	-	1.6	-	.1	-
358	Service industry machines	4.8	-	3.6	-	3.9	-	1.6	-	1.0	-
3585	Refrigeration machinery	5.1	-	3.7	-	4.5	-	1.5	-	1.4	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	3.9	2.9	2.9	1.9	2.8	2.8	1.4	1.3	.6	.7
361	Electric test and distributing equipment	4.4	-	3.2	-	2.6	-	1.5	-	.2	-
3611	Electric measuring instruments	4.7	-	3.1	-	2.3	-	1.6	-	.1	-
3612	Transformers	3.6	-	2.1	-	3.1	-	1.3	-	.4	-
3613	Switchgear and switchboard apparatus	4.6	-	4.0	-	2.7	-	1.6	-	.1	-
362	Electrical industrial apparatus	3.4	-	2.4	-	2.1	-	1.1	-	.2	-
3621	Motors and generators	3.1	-	2.1	-	2.3	-	1.1	-	.3	-
3622	Industrial controls	3.7	-	2.7	-	2.0	-	1.0	-	.2	-
363	Household appliances	4.8	-	3.2	-	5.0	-	1.7	-	2.0	-
3632	Household refrigerators and freezers	5.1	-	2.3	-	5.5	-	1.3	-	2.1	-
3633	Household laundry equipment	2.4	-	1.8	-	1.8	-	.5	-	.6	-
3634	Electric housewares and fans	5.8	-	4.5	-	7.4	-	2.7	-	3.7	-
364	Electric lighting and wiring equipment	3.9	-	3.0	-	2.8	-	1.2	-	.6	-
3641	Electric lamps	3.0	-	1.6	-	1.7	-	.7	-	.1	-
3642	Lighting fixtures	4.2	-	3.2	-	3.1	-	1.4	-	.8	-
3643,4	Wiring devices	4.0	-	3.4	-	3.0	-	1.3	-	.7	-
365	Radio and TV receiving equipment	4.0	-	1.9	-	4.3	-	1.1	-	1.3	-
366	Communication equipment	2.8	-	2.2	-	1.5	-	.8	-	.2	-
3661	Telephone and telegraph apparatus	2.4	-	1.9	-	1.0	-	.5	-	(¹)	-
3662	Radio and TV communication equipment	3.0	-	2.3	-	1.8	-	1.0	-	.2	-
367	Electronic components and accessories	4.8	-	4.0	-	3.4	-	2.1	-	.4	-
3671-3	Electron tubes	3.4	-	2.0	-	2.4	-	.7	-	.5	-
3674,9	Other electronic components	5.0	-	4.2	-	3.5	-	2.2	-	.4	-
369	Miscellaneous electrical equipment and supplies	3.7	-	2.9	-	2.7	-	1.3	-	.5	-
3694	Engine electrical equipment	3.8	-	2.8	-	2.6	-	1.2	-	.4	-
37	TRANSPORTATION EQUIPMENT	4.9	-	3.1	-	3.4	-	1.4	-	.9	-
371	Motor vehicles and equipment	4.6	-	2.8	-	2.3	-	1.0	-	.4	-
3711	Motor vehicles	5.1	-	2.8	-	2.2	-	1.1	-	.2	-
3712	Passenger car bodies	2.2	-	1.8	-	1.2	-	.3	-	(¹)	-
3713	Truck and bus bodies	4.6	-	3.9	-	3.3	-	2.0	-	.5	-
3714	Motor vehicle parts and accessories	4.2	-	2.7	-	2.2	-	.8	-	.5	-
372	Aircraft and parts	2.8	-	2.0	-	1.7	-	.7	-	.3	-
3721	Aircraft	2.5	-	1.6	-	1.5	-	.6	-	.4	-
3722	Aircraft engines and engine parts	2.6	-	1.8	-	1.4	-	.5	-	.2	-
3723,9	Other aircraft parts and equipment	4.0	-	3.2	-	2.7	-	1.4	-	.5	-
373	Ship and boat building and repairing	8.3	-	4.0	-	6.7	-	2.3	-	3.1	-
3731	Ship building and repairing	9.3	-	4.2	-	6.6	-	2.0	-	3.2	-
374	Railroad equipment	7.0	-	2.4	-	2.8	-	.5	-	1.3	-
375,9	Other transportation equipment	8.1	-	7.1	-	9.5	-	4.8	-	2.7	-

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	
		June 1977	July ^p 1977	June 1977	July ^p 1977	June 1977	July ^p 1977	June 1977	July ^p 1977	June 1977	July ^p 1977
DURABLE GOODS — Continued											
38	INSTRUMENTS AND RELATED PRODUCTS	3.1	2.2	2.6	1.6	2.3	2.7	1.2	1.2	0.3	0.7
381	Engineering and scientific instruments	2.8	-	2.5	-	1.7	-	1.0	-	.1	-
382	Mechanical measuring and control devices	3.4	-	2.7	-	2.3	-	1.3	-	.2	-
3821	Mechanical measuring devices	3.1	-	2.5	-	2.1	-	1.2	-	.2	-
3822	Automatic temperature controls	4.0	-	3.2	-	2.7	-	1.4	-	.2	-
383,5	Optical and ophthalmic goods	4.0	-	3.1	-	2.7	-	1.7	-	.3	-
384	Medical instruments and supplies	3.4	-	3.0	-	3.1	-	1.7	-	.6	-
386	Photographic equipment and supplies	2.3	-	2.1	-	1.4	-	.6	-	.1	-
387	Watches, clocks, and watchcases	3.3	-	2.5	-	3.2	-	1.7	-	.7	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	5.6	5.7	4.3	3.9	4.4	5.4	2.1	2.3	1.1	2.1
391	Jewelry, silverware, and plated ware	4.3	-	3.3	-	3.2	-	1.7	-	.8	-
394	Toys and sporting goods	8.1	-	6.3	-	6.2	-	2.8	-	1.5	-
3941-3	Games, toys, dolls and play vehicles	11.5	-	9.3	-	6.2	-	3.4	-	.6	-
3949	Sporting and athletic goods, nec	4.1	-	2.9	-	6.2	-	2.2	-	2.5	-
395	Pens, pencils, office and art supplies	4.0	-	3.6	-	4.0	-	2.0	-	.9	-
396	Costume jewelry and notions	4.3	-	3.3	-	4.6	-	2.3	-	1.4	-
393,9	Other manufacturing industries	4.8	-	3.7	-	3.6	-	1.7	-	1.0	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	8.2	8.3	6.2	5.7	5.5	6.4	2.8	3.1	1.8	2.5
201	Meat products	8.0	-	6.3	-	6.3	-	4.1	-	1.3	-
2011	Meat packing plants	4.7	-	2.9	-	4.1	-	1.4	-	2.0	-
2015	Poultry dressing plants	13.8	-	12.4	-	10.7	-	9.1	-	.1	-
204	Grain mill products	4.3	-	3.2	-	3.5	-	1.9	-	.9	-
2041	Flour and other grain mill products	4.0	-	3.3	-	3.3	-	2.1	-	.7	-
2042	Prepared feeds for animals and fowls	4.5	-	3.5	-	4.5	-	2.6	-	1.3	-
205	Bakery products	4.6	-	3.8	-	3.0	-	2.0	-	.4	-
2051	Bread, cake, and related products	4.5	-	4.1	-	3.0	-	2.2	-	.2	-
2052	Cookies and crackers	4.9	-	2.2	-	2.7	-	1.1	-	1.0	-
207	Confectionery and related products	5.6	-	2.3	-	4.9	-	1.6	-	2.5	-
2071	Confectionery products	6.1	-	2.4	-	6.0	-	1.9	-	3.3	-
208	Beverages	7.6	-	5.3	-	4.8	-	2.5	-	1.4	-
2082	Malt liquors	5.5	-	2.2	-	3.8	-	.5	-	2.7	-
21	TOBACCO MANUFACTURES	4.2	-	1.3	-	1.9	-	.6	-	.6	-
211	Cigarettes	1.7	-	1.0	-	.9	-	.2	-	(^b)	-
212	Cigars	3.1	-	1.8	-	2.3	-	1.8	-	.1	-
22	TEXTILE MILL PRODUCTS	5.3	4.6	4.4	3.5	4.6	5.4	3.0	3.0	.6	1.4
221	Weaving mills, cotton	4.5	-	3.2	-	3.9	-	2.6	-	.2	-
222	Weaving mills, synthetics	4.2	-	3.7	-	4.8	-	2.8	-	1.1	-
223	Weaving and finishing mills, wool	5.8	-	4.8	-	4.8	-	3.1	-	.5	-
224	Narrow fabric mills	3.8	-	2.8	-	3.9	-	2.4	-	.6	-
225	Knitting mills	6.0	-	5.1	-	4.9	-	3.3	-	.7	-
2251	Women's hosiery, except socks	4.9	-	4.1	-	6.2	-	3.0	-	2.5	-
2252	Hosiery, nec	5.8	-	5.4	-	5.2	-	4.4	-	.2	-
2254	Knit underwear mills	5.4	-	4.9	-	3.8	-	3.0	-	.1	-
226	Textile finishing, except wool	4.2	-	3.3	-	3.5	-	2.0	-	.6	-
227	Floor covering mills	5.0	-	4.2	-	4.0	-	2.8	-	.2	-
228	Yarn and thread mills	7.1	-	6.3	-	5.9	-	4.5	-	.2	-
229	Miscellaneous textile goods	4.3	-	3.3	-	3.8	-	1.8	-	.8	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.1	6.4	4.2	3.8	5.7	8.1	3.1	3.3	1.7	3.6
231	Men's and boys' suits and coats	4.0	-	2.6	-	3.3	-	1.9	-	.8	-
232	Men's and boys' furnishings	5.9	-	4.8	-	5.7	-	3.9	-	1.0	-
2321	Men's and boys' shirts and nightwear	5.8	-	4.3	-	5.0	-	3.7	-	.5	-
2327	Men's and boys' separate trousers	4.9	-	4.0	-	4.4	-	3.3	-	.3	-
2328	Men's and boys' work clothing	6.8	-	6.0	-	6.6	-	5.1	-	.6	-
234	Women's and children's undergarments	6.4	-	5.0	-	5.5	-	3.7	-	.8	-
2341	Women's and children's underwear	7.2	-	5.6	-	6.1	-	4.2	-	.8	-
2342	Corsets and allied garments	4.0	-	3.0	-	3.5	-	1.8	-	.9	-
26	PAPER AND ALLIED PRODUCTS	3.8	2.8	2.9	2.0	2.3	2.8	1.1	1.2	.5	.9
261,2,6	Paper and pulp mills	3.2	-	2.2	-	1.5	-	.5	-	.6	-
263	Paperboard mills	3.2	-	2.8	-	1.3	-	.7	-	.1	-

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	
		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
	NONDURABLE GOODS—Continued										
	PAPER AND ALLIED PRODUCTS—Continued										
264	Miscellaneous converted paper products	3.9	-	3.1	-	2.4	-	1.3	-	0.3	-
2643	Bags, except textile bags	4.5	-	3.7	-	3.3	-	1.8	-	.5	-
265	Paperboard containers and boxes	4.4	-	3.6	-	3.1	-	1.6	-	.6	-
2651,2	Folding and setup paperboard boxes	4.5	-	3.4	-	3.6	-	1.6	-	1.1	-
2653	Corrugated and solid fiber boxes	4.3	-	3.6	-	2.8	-	1.5	-	.5	-
27	PRINTING AND PUBLISHING	3.9	3.0	3.2	2.4	3.1	2.8	1.9	1.7	.6	0.6
28	CHEMICALS AND ALLIED PRODUCTS	2.7	1.8	2.1	1.4	1.7	1.7	.7	.7	.4	.3
281	Industrial chemicals	2.4	-	1.8	-	1.2	-	.5	-	.2	-
282	Plastics materials and synthetics	2.1	-	1.7	-	1.3	-	.6	-	.1	-
2821	Plastics materials and resins	3.0	-	2.4	-	1.6	-	.6	-	.1	-
2823,4	Synthetic fibers	1.5	-	1.2	-	1.1	-	.6	-	.1	-
283	Drugs	2.7	-	2.1	-	1.7	-	.8	-	.5	-
2834	Pharmaceutical preparations	2.8	-	2.1	-	1.9	-	.8	-	.6	-
284	Soap, cleaners, and toilet goods	3.7	-	2.7	-	2.3	-	1.0	-	.4	-
2841	Soap and other detergents	2.8	-	2.2	-	1.5	-	.6	-	.1	-
2844	Toilet preparations	4.6	-	2.9	-	3.1	-	1.2	-	.5	-
285	Paints and allied products	3.8	-	3.3	-	2.2	-	1.3	-	.1	-
286,9	Other chemical products	3.5	-	2.8	-	2.0	-	1.1	-	.3	-
29	PETROLEUM AND COAL PRODUCTS	3.5	2.3	3.0	2.0	1.5	2.2	.7	.9	.3	.3
291	Petroleum refining	2.8	-	2.4	-	1.1	-	.4	-	.3	-
295,9	Other petroleum and coal products	5.5	-	4.8	-	2.8	-	1.6	-	.2	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	6.2	4.6	5.1	3.6	4.6	4.8	2.7	2.5	.7	1.2
301	Tires and inner tubes	2.4	-	1.6	-	1.7	-	.6	-	.3	-
302,3,6	Other rubber products	5.2	-	4.2	-	3.7	-	2.1	-	.6	-
307	Miscellaneous plastics products	7.9	-	6.7	-	5.9	-	3.7	-	.9	-
31	LEATHER AND LEATHER PRODUCTS	7.2	8.5	5.8	4.7	6.4	11.1	4.2	4.2	1.0	5.9
311	Leather tanning and finishing	5.6	-	4.4	-	4.7	-	2.0	-	1.8	-
314	Footwear, except rubber	7.7	-	6.4	-	6.9	-	5.1	-	.7	-
	NONMANUFACTURING										
10	METAL MINING	4.5	-	4.0	-	2.7	-	1.5	-	.2	-
101	Iron ores	4.8	-	4.1	-	2.1	-	.4	-	.1	-
102	Copper ores	2.4	-	1.9	-	2.0	-	1.1	-	.2	-
11,12	COAL MINING	2.2	-	1.6	-	1.1	-	.6	-	.1	-
12	Bituminous coal and lignite mining	2.2	-	1.6	-	1.1	-	.6	-	.1	-
	COMMUNICATION:										
481	Telephone communication	1.2	-	-	-	.7	-	.3	-	.1	-
482	Telegraph communication ^{2,3}	1.3	-	-	-	.7	-	.3	-	.2	-

¹ Less than 0.05.

p = preliminary.

² Data relate to all employees except messengers.

³ May 1977 rates for telegraph communication (SIC 482) are: total accessions 1.4, total separations 0.5, quits 0.2 and layoffs 0.1.

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	3.6	3.5	3.8	4.0
1977	4.0	4.6	4.3	4.1	4.1	3.9	4.0 ^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 ^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	4.1	4.0	3.6	3.6
1977	3.9	4.1	3.7	3.8	3.8	3.9	3.9 ^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 ^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 ^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	
	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P
ALABAMA:										
Birmingham	3.5	4.1	2.1	2.1	3.4	2.5	1.2	1.0	1.4	0.7
Mobile	7.5	10.2	2.9	3.2	8.9	6.2	2.0	1.9	6.3	3.7
ALASKA	28.3	26.3	17.9	20.4	8.7	7.6	5.8	5.3	1.6	1.4
ARIZONA	5.4	5.6	4.3	4.5	3.7	4.1	2.3	2.4	.5	.5
Phoenix	5.6	5.5	4.5	4.5	3.7	4.1	2.3	2.4	.4	.5
ARKANSAS	8.7	7.0	7.3	6.1	6.9	6.3	4.8	4.3	.7	.8
Fort Smith	12.5	9.2	11.2	8.1	8.9	8.5	6.7	5.4	.5	.8
Little Rock-North Little Rock	6.1	6.2	5.5	5.8	4.9	4.7	3.3	3.0	.4	.4
Pine Bluff	5.5	4.9	3.9	2.8	4.2	4.8	3.7	3.2	.1	.9
COLORADO ²	5.2	5.3	4.5	4.5	3.5	3.2	2.2	2.0	.5	.2
Denver-Boulder ²	4.6	4.9	4.2	4.2	3.6	3.3	2.2	2.1	.6	.4
CONNECTICUT	2.9	2.7	2.0	2.1	2.0	2.1	1.0	1.0	.5	.4
Hartford	2.4	(*)	1.6	(*)	1.6	(*)	.8	(*)	.3	(*)
DELAWARE ¹	2.8	5.1	1.7	1.7	1.9	2.0	.9	.9	.4	.4
Wilmington ¹	2.7	5.1	1.6	1.7	1.5	1.9	.6	.8	.3	.4
DISTRICT OF COLUMBIA:										
Washington SMSA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
FLORIDA	5.4	5.8	4.5	5.0	4.9	5.2	2.7	2.7	1.2	1.3
Fort Lauderdale-Hollywood	6.7	6.3	6.0	5.6	4.8	5.5	2.9	3.3	.4	.7
Jacksonville	5.7	5.7	4.7	4.3	4.8	4.6	2.0	2.4	1.2	.7
Miami	5.3	5.7	4.4	4.8	4.6	3.9	2.2	2.2	1.5	1.0
Orlando	4.1	4.2	3.2	3.4	5.3	6.6	2.1	2.7	2.4	3.0
Pensacola	3.0	3.1	1.8	2.4	1.6	2.3	1.0	1.7	(³)	(³)
Tampa-St. Petersburg	5.3	6.1	4.4	5.1	4.8	5.7	3.3	3.3	.7	1.5
West Palm Beach-Boca Raton	2.9	3.6	2.7	3.3	2.6	3.0	1.8	1.7	.1	.4
GEORGIA	4.9	(*)	4.2	(*)	4.3	(*)	2.9	(*)	.5	(*)
Atlanta ⁴	4.2	(*)	3.4	(*)	3.4	(*)	1.9	(*)	.7	(*)
HAWAII ⁵	3.0	2.4	2.0	2.1	3.6	1.9	.8	1.0	2.0	.3
IDAHO ⁶	9.5	8.7	5.8	6.4	4.6	5.2	3.2	3.4	.7	.8
ILLINOIS:										
Chicago SMSA	4.2	3.8	3.4	3.1	3.3	2.8	1.7	1.5	.6	.3
INDIANA	4.6	3.7	3.4	2.7	3.0	2.7	1.5	1.3	.5	.6
Indianapolis ⁷	5.0	3.3	3.2	2.6	3.0	2.4	1.2	1.3	.5	.4
IOWA ²	4.5	3.7	3.2	2.8	3.3	3.0	1.8	1.4	.8	.9
Cedar Rapids ²	3.1	3.5	1.7	2.1	2.7	3.3	.9	.9	1.3	1.8
Des Moines ²	5.7	3.7	2.8	2.6	5.3	2.7	1.9	1.5	2.4	.4
KANSAS	5.8	4.9	5.0	4.2	4.6	4.6	3.3	3.1	.4	.7
Topeka	5.4	3.3	4.9	3.0	4.2	3.7	2.6	1.5	.8	1.6
Wichita	6.1	4.2	5.1	3.3	4.3	3.5	3.2	2.4	.1	.2
KENTUCKY	5.0	5.1	3.4	3.7	4.0	4.1	1.9	2.0	1.2	1.2
Louisville	3.5	3.4	2.0	2.3	2.7	2.2	1.0	.8	.7	.3
LOUISIANA:										
New Orleans	6.9	6.9	5.5	4.6	3.8	4.6	2.2	2.6	.5	.9
MAINE	7.8	8.8	6.0	6.7	5.7	6.1	3.6	3.4	1.2	1.8
Portland	5.0	4.9	3.9	4.2	3.5	3.5	2.2	2.1	.7	.7
MARYLAND	3.4	3.4	2.2	2.4	2.7	2.8	1.1	1.2	1.1	1.0
Baltimore	2.8	3.0	1.8	2.1	2.5	2.6	.9	1.0	1.1	1.0
MASSACHUSETTS	3.8	(*)	2.8	(*)	2.9	(*)	1.5	(*)	.7	(*)
Boston	3.1	(*)	2.3	(*)	2.5	(*)	1.2	(*)	.6	(*)
MICHIGAN	3.6	3.7	2.3	2.6	2.3	2.4	.9	.9	.6	.6
Detroit	3.6	4.0	2.4	2.7	2.5	2.6	1.1	1.1	.5	.4
Flint	3.0	2.7	2.4	2.1	1.5	1.7	.5	.5	.1	.2
Grand Rapids	3.9	5.4	2.2	3.6	2.7	3.7	1.0	1.6	.8	1.0
Lansing-East Lansing	6.4	8.5	3.4	5.5	6.6	1.8	.8	.6	3.2	.2

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	
	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P
MINNESOTA	4.4	(*)	3.3	(*)	2.6	(*)	1.7	(*)	0.4	(*)
Minneapolis—St. Paul	3.6	(*)	2.9	(*)	2.4	(*)	1.5	(*)	.3	(*)
MISSISSIPPI:										
Jackson	4.3	3.4	4.0	2.8	3.6	4.0	2.0	2.5	1.0	.6
MISSOURI ² :										
Kansas City ²	4.4	4.4	3.4	3.5	3.2	3.4	1.8	1.8	.7	.8
St. Louis ²	4.3	4.1	3.6	3.6	3.3	3.8	2.0	2.0	.6	.8
	3.5	3.6	2.4	2.6	2.3	2.4	1.1	1.1	.5	.5
MONTANA	3.3	5.8	2.6	4.8	3.1	2.9	1.5	1.9	.9	.4
NEBRASKA	6.0	4.7	4.9	4.0	3.8	3.8	2.7	2.3	.4	.8
NEVADA	5.2	6.5	4.4	5.4	3.0	7.1	1.9	4.1	.2	.4
NEW HAMPSHIRE	4.8	(*)	3.9	(*)	3.3	(*)	2.2	(*)	.4	(*)
NEW JERSEY:										
Camden ⁸	3.0	3.4	1.9	2.4	3.0	2.3	.8	.7	1.5	.8
Hackensack	4.1	4.0	3.2	3.1	4.0	3.6	1.7	1.5	1.2	1.0
Jersey City	4.1	3.6	2.4	2.4	1.9	3.0	.6	.9	.7	1.2
Newark	3.5	4.2	2.3	2.7	2.8	2.5	1.0	1.0	.9	.7
New Brunswick—Perth Amboy—Sayreville	4.6	5.6	3.1	3.8	3.3	3.5	1.3	1.3	.6	.7
Paterson—Clifton—Passaic	4.4	5.2	2.6	3.6	3.2	3.9	1.3	1.5	.9	1.0
Trenton	2.8	3.7	1.9	2.7	2.1	2.9	.9	.9	.5	1.0
NEW YORK	3.8	(*)	2.4	(*)	3.4	(*)	1.1	(*)	1.5	(*)
Albany—Schenectady—Troy	3.2	3.4	2.0	2.3	2.1	2.3	.6	.7	.6	.6
Binghamton	2.9	4.2	2.2	3.4	2.1	2.9	1.2	1.9	.3	.3
Buffalo	2.9	3.2	1.5	1.8	1.9	2.0	.5	.6	.6	.7
Elmira	3.2	2.9	1.7	2.2	2.1	3.1	.7	.7	.4	1.4
Monroe County ⁹	2.2	2.6	1.8	2.2	1.6	1.6	.6	.6	.5	.3
Nassau—Suffolk ¹⁰	4.4	5.1	3.7	4.0	3.6	5.2	1.7	1.7	.8	2.3
New York and Nassau—Suffolk	4.3	5.2	2.8	3.0	4.5	4.0	1.2	1.2	2.4	2.0
New York SMSA ¹⁰	4.2	(*)	2.6	(*)	4.7	(*)	1.1	(*)	2.7	(*)
New York City ¹¹	4.5	5.4	2.7	2.8	5.0	3.9	1.1	1.1	3.0	2.1
Rochester	2.7	3.0	2.1	2.4	2.0	1.8	.7	.7	.7	.4
Syracuse	3.5	3.7	2.2	2.7	2.1	2.4	.8	.9	.7	.9
Utica—Rome	3.3	3.5	1.9	2.5	2.6	2.4	1.0	1.0	.9	.9
Westchester County ¹¹	2.7	3.8	2.1	3.1	3.0	2.3	1.2	1.0	.6	.6
NORTH CAROLINA	5.5	5.2	4.7	4.4	4.6	4.2	3.4	3.0	.3	.3
Charlotte—Gastonia	5.7	5.5	4.9	4.9	4.9	4.6	3.6	3.7	.4	.1
Greensboro—Winston-Salem—High Point	5.8	5.5	4.8	4.5	4.7	4.0	3.4	2.9	.4	.3
NORTH DAKOTA	6.5	5.7	3.7	3.7	4.5	4.3	2.5	2.0	1.2	1.5
Fargo—Moorhead	8.0	8.7	3.6	4.5	3.7	3.3	2.2	2.0	.5	.3
OHIO	3.5	3.6	2.3	2.5	2.4	2.5	.9	1.0	.6	.7
Akron	2.1	2.4	1.1	1.8	1.6	1.6	.7	.8	.3	.5
Canton	4.0	4.0	2.6	2.7	3.0	3.0	.8	.9	1.1	.9
Cincinnati	3.2	3.0	2.0	2.1	2.2	2.3	1.0	.9	.5	.7
Cleveland	3.1	4.3	2.2	3.4	2.5	2.7	1.1	1.3	.5	.4
Columbus	3.2	3.2	2.3	2.4	2.4	3.1	1.1	1.1	.6	1.3
Dayton	3.5	3.7	2.6	2.6	2.3	2.4	1.0	1.3	.3	.3
Toledo	3.5	4.0	2.0	2.8	2.4	2.5	1.0	.9	.7	.7
Youngstown—Warren	2.8	2.5	1.2	1.2	1.9	2.4	.3	.4	.6	.9
OKLAHOMA	7.5	7.0	6.5	6.1	5.9	5.8	4.2	4.3	.7	.6
Oklahoma City	6.9	6.9	6.1	6.2	5.4	6.2	3.8	4.3	.5	.9
Tulsa ¹²	6.8	6.8	5.9	5.9	5.6	4.7	3.9	3.4	.6	.3
OREGON ¹	5.1	6.9	3.7	5.4	3.8	4.0	2.2	2.3	.9	.9
Portland ¹	4.8	6.2	3.8	4.9	3.6	3.8	1.9	2.1	.9	.9
PENNSYLVANIA	3.8	3.7	2.3	2.4	2.7	2.7	.9	1.0	1.1	1.1
Allentown—Bethlehem—Easton	3.4	3.0	2.0	1.8	2.2	2.1	.8	1.0	.9	.6
Altoona	5.0	5.0	3.5	3.8	2.7	4.1	1.5	2.1	.6	1.3
Erie	4.5	4.8	2.4	3.1	2.2	2.4	1.1	1.2	.4	.3
Harrisburg	3.3	4.0	2.1	2.5	3.6	1.9	1.2	1.1	1.9	.2
Johnstown	3.3	4.4	1.4	1.6	2.4	2.4	.8	.9	1.3	.8
Lancaster	3.8	3.7	3.2	3.3	2.5	2.4	1.6	1.5	.3	.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	
	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P	May 1977	June 1977 ^P
PENNSYLVANIA—Continued										
Northeast Pennsylvania	3.4	4.0	1.6	2.2	3.5	3.0	0.9	1.1	1.9	1.3
Philadelphia SMSA	3.7	3.2	2.3	2.3	2.7	2.5	.9	.9	1.1	.9
Pittsburgh	3.5	3.1	1.7	1.7	2.0	1.7	.5	.4	.9	.7
Reading	4.0	4.2	2.6	2.9	2.8	2.8	1.2	1.3	.9	.8
Scranton ¹³	4.2	3.6	1.9	2.1	3.5	2.5	1.0	1.4	2.1	.8
Wilkes-Barre—Hazleton ¹³	2.9	4.1	1.2	2.0	3.2	3.4	.7	1.1	1.5	1.4
Williamsport	3.1	4.3	2.0	2.8	2.0	2.0	.9	.9	.8	.6
York	4.2	4.4	3.1	3.3	2.8	2.7	1.6	1.3	.6	.7
RHODE ISLAND										
Providence—Warwick—Pawtucket	5.1	5.3	3.9	3.7	4.4	4.3	2.5	2.0	.9	1.3
.....	5.0	5.2	3.9	3.8	4.3	4.1	2.5	2.1	.8	1.1
SOUTH CAROLINA										
Charleston—North Charleston	4.8	4.6	4.1	3.8	3.9	4.0	2.7	2.5	.3	.6
Columbia	5.6	4.0	5.2	3.4	4.8	3.8	2.8	1.7	.6	.6
Greenville—Spartanburg	5.0	5.3	4.4	5.0	3.0	4.0	2.1	3.0	.1	.2
.....	5.2	4.6	4.6	4.2	5.0	4.4	3.2	2.8	.6	.3
SOUTH DAKOTA										
Sioux Falls	5.4	5.8	4.2	4.3	4.7	3.6	2.9	2.2	1.1	.7
.....	5.5	4.2	3.5	2.9	3.1	3.3	1.9	1.3	1.0	1.8
TENNESSEE:										
Memphis	4.4	4.1	3.4	3.4	2.8	3.1	1.5	1.8	.6	.4
TEXAS:										
Dallas—Fort Worth	5.5	6.0	5.0	5.7	4.4	4.7	3.4	3.5	.2	.3
Houston	4.6	4.8	4.1	4.3	3.8	3.6	2.6	2.6	.3	.2
San Antonio	5.1	4.9	4.5	4.3	3.4	4.0	2.3	2.7	.4	.7
UTAH⁵										
Salt Lake City—Ogden ⁵	5.6	5.8	4.7	5.2	4.3	4.6	3.0	3.2	.5	.4
.....	4.7	5.4	4.3	5.0	4.2	5.0	2.9	3.3	.5	.5
VERMONT										
Burlington	4.8	4.0	3.5	3.1	3.3	3.0	1.6	1.5	1.2	.9
Springfield	4.1	3.4	3.3	2.6	1.3	2.0	.6	.5	.5	1.0
.....	3.4	3.1	2.0	2.0	2.0	1.8	.7	.7	.9	.7
VIRGINIA										
Richmond	4.2	4.3	3.4	3.5	3.3	3.1	2.0	1.9	.4	.4
.....	2.1	2.5	1.7	1.8	1.9	1.3	.9	.7	.4	.1
WASHINGTON:										
Seattle—Everett ^{2 14}	4.1	4.8	2.8	3.6	2.7	2.5	1.2	1.3	.9	.6
WISCONSIN										
Milwaukee	4.0	4.3	2.6	3.0	2.6	2.6	1.2	1.2	.6	.6
.....	3.7	3.5	2.4	2.3	2.2	2.1	1.0	.9	.3	.3
WYOMING										
.....	11.3	9.7	10.0	9.3	6.7	7.0	3.8	4.8	.6	.7

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		
	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P
ALABAMA	1,511.1	1,537.5	1,543.7	105.1	92.5	96.9	7.0	6.0	6.3
Birmingham	359.0	366.3	369.1	24.9	21.3	22.7	6.9	5.8	6.2
Huntsville	124.4	125.6	127.2	9.2	7.7	9.3	7.4	6.1	7.3
Mobile	170.6	172.8	172.2	11.3	11.4	11.5	6.5	6.6	6.7
Montgomery	104.2	106.7	107.5	5.9	5.3	5.4	5.7	4.9	5.0
Tuscaloosa	49.7	52.1	51.4	2.6	2.7	3.0	5.2	5.2	5.8
ALASKA	171.2	153.7	155.4	11.3	16.3	17.2	6.5	11.9	11.1
ARIZONA	943.0	951.2	945.7	94.9	69.6	65.8	10.1	7.3	7.0
Phoenix	547.6	557.5	553.0	55.2	39.7	36.0	10.1	7.1	6.5
Tucson	178.8	179.4	178.3	14.8	11.4	11.2	8.3	6.3	6.3
ARKANSAS	886.6	916.2	915.2	62.3	52.0	51.3	7.0	5.7	5.6
Fayetteville-Springdale	63.3	66.7	66.6	3.3	2.9	3.1	5.1	4.3	4.7
Fort Smith ¹	75.1	80.8	80.6	5.6	4.6	4.3	7.5	5.7	5.3
Little Rock-North Little Rock	168.7	176.2	175.2	8.9	7.5	6.8	5.2	4.2	3.9
Pine Bluff	33.5	33.9	33.7	2.8	2.3	2.2	8.5	6.9	6.5
CALIFORNIA	9,771.7	10,086.2	10,034.6	685.2	788.6	767.3	9.1	7.8	7.6
Anaheim-Santa Ana-Garden Grove	839.4	875.0	868.2	49.8	42.6	39.3	5.9	4.9	4.5
Bakersfield	158.5	163.9	160.1	11.5	10.3	10.5	7.3	6.3	6.6
Fresno	229.3	247.5	245.6	15.7	17.0	16.3	6.9	6.9	6.6
Los Angeles-Long Beach	3,283.2	3,359.4	3,338.5	293.2	253.0	244.2	8.9	7.5	7.3
Modesto	118.6	127.4	129.8	14.6	18.7	16.6	12.3	14.7	12.8
Oxnard-Simi Valley-Ventura	177.1	187.8	187.1	13.5	12.1	14.1	7.6	6.4	7.5
Riverside-San Bernardino-Ontario	480.7	497.7	494.2	49.7	42.4	42.8	10.3	8.5	8.7
Sacramento	393.4	419.7	419.8	32.6	32.2	32.2	8.3	7.7	7.7
Salinas-Seaside-Monterey	114.5	122.4	121.5	7.9	7.0	7.2	6.9	5.7	5.9
San Diego	653.7	667.7	664.1	79.9	68.0	66.2	12.2	10.2	10.0
San Francisco-Oakland	1,538.1	1,523.4	1,525.0	167.1	132.2	132.4	10.9	8.7	8.7
San Jose	575.2	588.7	589.5	45.1	41.4	36.2	7.9	7.0	6.1
Santa Barbara-Santa Maria-Lompoc	123.2	132.1	130.9	8.0	7.9	8.1	6.5	6.0	6.2
Santa Rosa	101.3	107.3	107.0	9.9	9.2	9.1	9.8	8.6	8.5
Stockton	142.1	156.4	150.8	13.4	12.8	14.2	9.4	8.2	9.4
Vallejo-Fairfield-Napa	107.1	115.1	114.0	7.0	7.7	7.2	6.5	6.7	6.3
COLORADO	1,258.5	N.A.	N.A.	76.8	N.A.	N.A.	6.1	N.A.	N.A.
Denver-Boulder	731.4	N.A.	N.A.	45.5	N.A.	N.A.	6.2	N.A.	N.A.
CONNECTICUT	1,494.4	1,485.9	1,478.2	142.4	110.8	109.8	9.5	7.5	7.4
Bridgeport	184.4	181.7	177.8	19.6	14.3	13.6	10.6	7.9	7.7
Hartford	352.4	355.0	353.1	31.3	25.6	25.5	8.9	7.2	7.2
New Britain	71.8	70.2	69.3	8.1	5.6	5.6	11.4	7.9	8.0
New Haven-West Haven	199.4	195.3	192.9	19.6	16.0	15.7	9.8	8.2	8.2
Stamford	108.8	108.5	109.2	7.3	5.9	5.6	6.7	5.4	5.1
Waterbury	109.6	106.3	106.8	12.4	9.0	9.7	11.3	8.5	9.0
DELAWARE	264.1	266.2	266.9	23.8	20.2	19.4	9.0	7.6	7.3
Wilmington ¹	227.9	231.7	232.1	21.8	17.1	17.1	9.6	7.4	7.4
DISTRICT OF COLUMBIA	342.2	343.5	343.2	31.3	30.6	28.5	9.2	8.9	8.3
Washington SMSA ¹	1,495.3	1,502.6	1,505.8	78.3	76.5	71.2	5.2	5.1	4.7
FLORIDA	3,412.9	3,511.2	3,450.5	311.3	252.2	245.8	9.1	7.2	7.1
Fort Lauderdale-Hollywood	338.0	344.2	340.9	38.4	27.4	26.0	11.4	7.9	7.6
Jacksonville	291.2	305.4	301.1	18.9	18.7	17.0	6.5	6.1	5.6
Miami	671.6	658.6	658.1	62.9	48.8	47.4	9.4	7.4	7.2
Orlando	269.6	279.0	272.1	24.7	20.5	19.1	9.2	7.3	7.0
Pensacola	106.0	111.9	112.0	6.4	5.4	5.5	6.0	4.8	4.9
Tampa-St. Petersburg	529.4	544.6	539.6	49.1	40.3	41.4	9.3	7.4	7.7
West Palm Beach-Boca Raton	185.2	187.1	184.1	20.2	14.4	15.0	10.9	7.7	8.1
GEORGIA	2,222.8	2,232.4	2,226.1	185.7	148.4	148.7	8.4	6.6	6.7
Atlanta	894.8	888.4	880.9	68.2	53.8	53.7	7.6	6.1	6.1
Augusta ¹	117.8	114.6	115.8	10.3	8.2	8.5	8.7	7.2	7.4
Columbus ¹	87.0	79.6	80.1	7.7	6.1	6.0	8.9	7.7	7.5
Macon	100.2	94.4	94.1	11.1	8.5	8.5	11.1	9.0	9.0
Savannah	82.0	79.5	79.6	7.9	6.4	6.6	9.6	8.1	8.3

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		
	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P
HAWAII	410.7	404.5	407.9	40.6	32.0	30.8	9.9	7.9	7.5
Honolulu	326.9	324.2	325.3	31.2	24.8	23.6	9.5	7.6	7.3
IDAHO	382.6	392.8	397.4	21.4	18.3	18.3	5.5	4.7	4.6
Boise City	72.6	77.9	79.0	2.5	2.5	2.4	3.4	3.2	3.0
ILLINOIS	5,150.7	5,250.0	5,252.7	320.5	268.3	267.6	6.2	5.1	5.1
Bloomington—Normal	57.5	58.7	59.5	2.6	2.1	2.5	4.4	3.5	4.2
Champaign—Urbana—Rantoul	77.6	73.4	73.3	3.1	2.9	2.9	4.0	3.9	4.0
Chicago	3,218.4	3,271.7	3,278.2	207.7	158.7	154.0	6.5	4.8	4.7
Davenport—Rock Island—Moline ¹	180.1	177.0	178.4	8.7	6.8	8.1	4.8	3.9	4.6
Decatur	59.3	59.2	59.1	4.2	3.7	3.8	7.0	6.3	6.5
Peoria	175.0	171.7	172.8	7.3	7.9	8.8	4.2	4.6	5.1
Rockford	137.2	134.1	132.7	9.0	7.1	7.1	6.5	5.3	5.3
Springfield	93.4	92.9	92.6	4.1	4.4	4.4	4.4	4.7	4.7
INDIANA	2,466.3	2,506.7	2,498.0	142.8	123.6	120.3	5.8	4.9	4.8
Evansville ¹	132.8	133.9	134.5	6.9	5.4	5.3	5.2	4.0	4.0
Fort Wayne	178.8	181.4	181.9	8.6	7.1	7.1	4.8	3.9	3.9
Gary—Hammond—East Chicago	284.2	288.1	290.0	17.1	14.7	14.4	6.0	5.1	5.0
Indianapolis	558.1	567.0	567.8	37.4	32.8	31.1	6.7	5.8	5.5
Muncie	54.3	57.2	56.0	3.0	2.3	2.1	5.5	4.0	3.8
South Bend	133.9	134.1	133.6	6.8	6.5	5.8	5.1	4.8	4.3
Terre Haute	75.8	76.0	76.0	4.1	3.3	3.4	5.4	4.3	4.4
IOWA	1,382.9	1,398.3	1,391.2	54.3	43.8	44.3	3.9	3.1	3.2
Cedar Rapids	79.7	80.2	79.6	2.6	2.9	2.6	3.3	3.6	3.3
Des Moines	164.8	167.0	166.4	7.8	5.5	5.5	4.7	3.3	3.3
Dubuque	41.6	43.1	42.6	2.2	2.0	2.0	5.3	4.5	4.6
Sioux City ¹	58.2	57.0	55.9	2.7	2.2	2.1	4.5	3.9	3.8
Waterloo—Cedar Falls	61.6	61.8	61.5	3.5	2.4	2.2	5.5	3.9	3.6
KANSAS	1,115.1	1,134.8	1,123.7	49.8	44.1	42.2	4.5	3.9	3.8
Topeka	85.7	88.1	87.5	4.1	3.7	3.5	4.8	4.2	4.0
Wichita	192.1	196.8	195.6	10.7	10.2	9.4	5.6	5.2	4.8
KENTUCKY	1,464.6	1,505.6	1,484.9	76.1	70.9	62.7	5.2	4.7	4.2
Lexington—Fayette	147.9	150.9	151.6	4.6	4.8	4.6	3.1	3.2	3.0
Louisville ¹	392.1	396.7	395.9	22.8	19.1	16.9	5.8	4.8	4.3
LOUISIANA	1,505.8	1,528.0	1,519.6	109.5	117.2	115.4	7.3	7.7	7.6
Baton Rouge	187.4	192.7	192.7	11.7	14.7	14.6	6.3	7.6	7.5
Lake Charles	60.9	61.5	61.7	4.9	5.7	5.4	8.1	9.2	8.8
Monroe	48.0	47.5	47.7	3.8	4.1	4.0	7.8	8.5	8.5
New Orleans	445.4	448.4	446.2	34.2	36.9	37.2	7.7	8.2	8.3
Shreveport	142.6	141.6	142.9	10.8	9.3	9.3	7.5	6.6	6.5
MAINE	492.1	500.5	507.9	47.5	41.1	49.4	9.7	8.2	9.7
Lewiston—Auburn	39.9	38.8	39.4	6.2	2.9	5.5	15.4	7.4	14.0
Portland	87.9	89.2	88.0	7.6	6.6	6.7	8.6	7.4	7.6
MARYLAND	1,934.3	1,943.6	1,949.2	129.7	109.7	109.4	6.7	5.6	5.6
Baltimore	981.8	977.3	984.2	78.6	66.6	67.9	8.0	6.8	6.9
MASSACHUSETTS	2,794.6	2,759.6	2,751.9	274.6	175.1	177.4	9.8	6.3	6.4
Boston	1,367.1	1,330.6	1,325.2	128.1	82.3	80.9	9.4	6.2	6.1
Brockton	75.1	76.5	75.7	8.5	5.9	5.7	11.3	7.7	7.6
Fall River ¹	73.4	74.1	74.0	7.2	4.8	5.5	9.8	6.5	7.4
Lawrence—Haverhill ¹	130.6	128.9	127.6	18.1	10.1	10.7	13.9	7.9	8.4
Lowell ¹	107.3	106.7	105.6	12.1	7.3	7.2	11.3	6.8	6.9
New Bedford	79.2	80.7	80.2	9.5	6.2	7.1	12.0	7.6	8.8
Springfield—Chicopee—Holyoke ¹	262.6	264.6	264.3	24.9	14.9	15.6	9.5	5.6	5.9
Worcester	189.9	190.8	186.6	18.2	10.4	10.5	9.4	5.5	5.6
MICHIGAN	3,999.9	4,123.4	4,084.6	387.9	279.5	283.7	9.7	6.8	6.9
Ann Arbor	123.6	129.6	127.9	10.3	7.0	7.0	8.4	5.4	5.5
Battle Creek	83.4	82.8	82.3	8.0	6.0	5.7	9.5	7.2	6.9
Bay City	52.0	53.5	52.5	5.1	3.8	3.4	9.8	7.2	6.5
Detroit	1,888.8	1,941.3	1,920.9	180.2	128.5	125.7	9.5	6.6	6.5
Flint	210.0	218.4	216.9	24.4	15.3	20.3	11.5	7.0	9.4

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		
	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1975	JUN. 1977R	JUL. 1977P
MICHIGAN—Continued									
Grand Rapids	265.5	285.5	279.9	21.2	15.4	15.4	8.0	5.4	5.5
Jackson	66.4	66.1	65.5	6.0	4.6	4.4	9.1	6.9	6.7
Kalamazoo—Portage	127.1	130.4	128.5	9.8	7.2	6.7	7.7	5.5	5.2
Lansing—East Lansing	208.1	224.8	214.9	23.3	14.0	17.5	11.2	6.2	8.1
Muskegon—Norton Shores—Muskegon Heights	78.2	76.9	77.0	7.1	5.8	6.3	9.1	7.6	8.1
Saginaw	100.4	101.5	100.0	9.1	6.4	5.6	9.0	6.3	5.6
MINNESOTA	1,918.9	1,955.8	1,947.2	105.4	94.9	89.5	5.5	4.8	4.6
Duluth—Superior	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minneapolis—St. Paul	1,017.9	1,044.4	1,034.2	65.8	55.9	52.7	6.5	5.3	5.1
MISSISSIPPI	975.7	989.1	989.6	67.7	63.7	60.2	6.9	6.4	6.1
Jackson	137.9	141.2	139.3	7.8	7.1	6.9	5.6	5.0	4.9
MISSOURI	2,148.6	2,197.6	2,192.8	140.8	115.7	121.7	6.6	5.3	5.6
Kansas City ¹	609.4	612.0	614.6	38.4	31.3	37.4	6.3	5.1	6.1
St. Joseph	47.2	47.1	47.5	3.9	2.7	3.2	8.3	5.8	6.6
St. Louis ¹	1,040.1	1,050.1	1,041.0	79.3	64.4	60.9	7.6	6.1	5.9
Springfield	92.5	97.2	97.5	5.2	4.2	4.2	5.6	4.3	4.3
MONTANA	341.5	N.A.	N.A.	20.3	N.A.	N.A.	5.9	N.A.	N.A.
Billings	50.6	N.A.	N.A.	2.5	N.A.	N.A.	4.9	N.A.	N.A.
Great Falls	34.4	N.A.	N.A.	2.3	N.A.	N.A.	6.6	N.A.	N.A.
NEBRASKA	748.1	750.3	746.9	23.2	19.1	17.3	3.1	2.5	2.3
Lincoln	97.4	103.9	102.2	3.0	2.1	1.9	3.0	2.0	1.8
Omaha ¹	257.0	264.8	261.7	13.7	10.9	10.1	5.3	4.1	3.9
NEVADA	313.6	327.0	329.0	26.4	23.0	21.3	8.4	7.0	6.5
Las Vegas	169.2	176.7	177.3	15.9	14.3	13.5	9.4	8.1	7.6
Reno	86.0	91.0	91.4	5.1	4.6	4.1	5.9	5.0	4.5
NEW HAMPSHIRE	406.8	410.1	425.2	29.4	19.9	24.8	7.2	4.9	5.8
Manchester	65.8	N.A.	N.A.	5.5	N.A.	N.A.	8.4	N.A.	N.A.
NEW JERSEY	3,380.9	3,389.3	3,388.3	346.8	302.5	293.6	10.3	8.9	8.7
Atlantic City	87.8	84.3	88.7	8.9	8.5	8.6	10.1	10.0	9.7
Jersey City	256.5	251.3	250.6	37.2	32.8	31.5	14.5	13.1	12.6
Long Branch—Asbury Park	218.9	219.2	219.5	20.5	19.2	19.2	9.4	8.8	8.7
Newark	935.7	930.2	937.6	91.5	78.5	76.0	9.8	8.4	8.1
New Brunswick—Perth Amboy—Sayreville	285.1	291.2	287.9	30.4	25.1	24.1	10.7	8.6	8.4
Paterson—Clifton—Passaic	203.2	208.2	201.8	26.4	22.8	21.7	13.0	10.9	10.8
Trenton	148.0	152.6	149.6	11.9	9.9	9.8	6.0	6.5	6.6
Vineland—Millville—Bridgeton	57.8	56.6	56.6	8.0	6.4	6.8	13.8	11.3	11.9
NEW MEXICO	477.2	495.6	497.5	44.4	40.6	40.2	9.3	8.2	8.1
Albuquerque	174.7	181.8	182.4	17.4	16.0	16.0	10.0	8.8	8.8
NEW YORK	7,888.3	7,676.4	7,739.0	833.8	640.7	658.8	10.6	8.3	8.5
Albany—Schenectady—Troy	360.0	359.1	357.9	30.5	26.4	25.3	8.5	7.3	7.1
Binghamton ¹	130.0	135.7	133.8	10.9	9.3	9.7	8.4	6.9	7.2
Buffalo	579.9	564.5	566.8	62.6	43.3	49.1	10.8	7.7	8.7
Elmira	40.5	40.7	41.2	3.7	4.3	4.0	9.1	10.6	9.8
Nassau—Suffolk	1,152.4	1,140.2	1,140.0	121.6	87.1	89.0	10.6	7.6	7.8
New York	3,740.3	3,554.5	3,605.7	418.7	307.5	326.7	11.2	8.7	9.1
Poughkeepsie	98.5	99.4	99.4	6.9	6.0	5.7	7.0	6.0	5.7
Rochester	453.4	456.5	453.1	39.6	32.8	31.7	8.7	7.2	7.0
Syracuse	286.9	289.0	288.4	29.1	23.5	22.4	10.2	8.2	7.8
Utica—Rome	141.6	139.7	140.7	15.9	13.2	12.8	11.2	9.4	9.1
NORTH CAROLINA	2,667.6	2,638.0	2,675.0	176.2	143.0	153.0	6.6	5.4	5.7
Asheville	83.2	81.9	84.1	4.5	3.5	3.7	5.4	4.4	4.4
Charlotte—Gastonia	314.4	320.9	317.5	17.8	15.3	14.8	5.7	4.8	4.7
Greensboro—Winston-Salem—High Point	403.1	405.3	406.7	25.1	20.1	21.1	6.2	5.0	5.2
Raleigh—Durham	254.7	258.9	259.5	11.2	10.9	10.3	4.4	4.2	4.0
NORTH DAKOTA	300.8	307.9	308.2	9.1	11.9	10.0	3.0	3.9	3.2
Fargo—Moorhead ¹	65.0	67.1	66.2	1.9	2.0	1.9	2.9	3.0	2.9

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		
	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P
OHIO	4,772.8	4,858.8	4,808.9	364.1	304.3	296.4	7.6	6.3	6.2
Akron	293.1	295.9	292.3	24.0	18.8	17.6	8.2	6.3	6.0
Canton	178.0	178.9	178.6	14.8	11.6	11.8	8.3	6.5	6.6
Cincinnati ¹	592.8	599.3	596.2	51.3	45.2	42.1	8.7	7.5	7.1
Cleveland	896.3	906.4	896.4	58.9	52.9	49.5	6.5	5.8	5.5
Columbus	506.5	522.0	518.2	35.0	30.6	30.3	6.9	5.9	5.8
Dayton	360.6	374.5	364.2	23.4	19.8	18.9	6.5	5.3	5.2
Toledo ¹	348.9	365.2	359.6	28.0	24.0	23.5	8.0	6.6	6.5
Youngstown—Warren	235.2	236.5	233.6	22.1	17.0	17.2	9.4	7.2	7.4
OKLAHOMA	1,163.3	1,233.7	1,205.8	67.3	63.3	52.5	5.8	5.1	4.4
Oklahoma City	343.7	371.3	362.6	20.7	17.6	14.6	6.0	4.8	4.0
Tulsa	283.6	293.2	289.2	15.6	15.3	12.8	5.5	5.2	4.4
OREGON	1,081.4	1,120.0	1,104.2	98.6	91.5	87.5	9.1	8.2	7.9
Eugene—Springfield	110.7	119.9	118.0	11.4	11.1	10.9	10.3	9.2	9.2
Portland ¹	518.8	540.2	530.8	44.5	39.1	37.0	8.6	7.2	7.0
Salem	98.2	100.5	98.7	8.1	8.3	7.0	8.3	8.2	7.1
PENNSYLVANIA	5,195.4	5,145.1	5,153.6	409.4	334.5	346.4	7.9	6.5	6.7
Allentown—Bethlehem—Easton ¹	305.1	301.6	302.5	21.3	15.5	19.3	7.0	5.2	6.4
Altoona	57.4	58.9	58.6	3.9	3.4	3.3	6.7	5.7	5.6
Erie	123.0	124.6	123.1	10.7	7.9	7.7	8.7	6.3	6.3
Harrisburg	210.9	213.7	213.8	11.0	9.5	9.9	5.2	4.4	4.6
Johnstown	108.5	109.6	110.4	7.5	5.0	6.9	6.9	4.6	6.2
Lancaster	162.9	164.2	163.7	7.9	6.5	6.5	4.8	4.0	4.0
Northeast Pennsylvania	285.0	275.9	279.3	29.2	20.1	25.0	10.2	7.3	8.9
Philadelphia ¹	2,062.2	2,038.2	2,038.0	185.0	160.0	154.1	9.0	7.9	7.6
Pittsburgh	1,004.5	995.9	990.8	78.2	68.8	67.5	7.8	6.9	6.8
Reading	145.2	147.5	145.3	9.7	7.5	8.5	6.7	5.1	5.8
Williamsport	50.1	50.4	50.3	4.5	3.5	4.0	9.1	7.0	7.9
York	158.7	161.1	160.5	10.8	7.8	9.2	6.8	4.9	5.7
RHODE ISLAND	427.6	437.1	441.2	36.8	29.2	36.7	8.6	6.7	8.3
Providence—Warwick—Pawtucket ¹	429.5	442.5	445.1	37.4	29.4	37.0	8.7	6.6	8.3
SOUTH CAROLINA	1,291.6	1,315.4	1,304.1	97.2	73.2	73.3	7.5	5.6	5.6
Charleston—North Charleston	142.2	146.3	145.6	11.4	9.1	9.2	8.0	6.2	6.3
Columbia	157.9	162.4	162.3	10.9	7.7	7.7	6.9	4.7	4.8
Greenville—Spartanburg	247.9	252.0	246.7	16.4	12.5	13.0	6.6	4.9	5.3
SOUTH DAKOTA	328.4	347.4	350.8	11.3	12.3	11.8	3.4	3.5	3.4
Sioux Falls	56.4	60.1	58.4	1.7	1.7	1.6	3.1	2.9	2.8
TENNESSEE	1,851.6	1,905.8	1,914.7	109.6	107.3	108.7	5.9	5.6	5.7
Chattanooga ¹	176.8	182.7	182.1	10.2	10.2	9.6	5.8	5.6	5.3
Knoxville	193.8	199.4	200.1	9.8	9.5	8.5	5.1	4.8	4.2
Memphis ¹	360.7	371.9	368.2	22.4	22.4	20.8	6.2	6.0	5.7
Nashville—Davidson	367.8	377.5	378.7	19.1	16.2	15.8	5.2	4.3	4.2
TEXAS	5,636.6	5,766.6	5,756.2	337.7	313.7	304.0	6.0	5.4	5.3
Amarillo	84.9	85.6	86.3	3.4	3.0	2.9	4.0	3.5	3.4
Austin	194.6	201.4	201.8	10.0	9.4	9.9	5.1	4.7	4.9
Beaumont—Port Arthur—Orange	165.6	164.1	164.5	12.8	12.4	12.2	7.8	7.5	7.4
Corpus Christi	130.2	132.0	130.8	8.5	9.6	9.1	6.6	7.2	6.9
Dallas—Fort Worth	1,267.8	1,304.0	1,298.4	61.7	51.0	48.7	4.9	3.9	3.7
El Paso	162.6	162.9	162.2	16.3	20.2	18.8	10.0	12.4	11.6
Galveston—Texas City	88.7	94.1	94.1	6.8	7.8	6.8	7.6	8.2	7.2
Houston	1,170.3	1,243.6	1,243.4	71.4	65.3	60.8	6.1	5.2	4.9
Lubbock	95.9	98.7	99.6	4.1	3.6	3.2	4.3	3.7	3.2
San Antonio	395.3	397.6	396.6	33.7	32.3	32.8	8.5	8.1	8.3
Waco	75.4	76.2	76.9	4.2	4.2	4.3	5.5	5.5	5.5
Wichita Falls	58.0	59.1	59.2	2.6	2.3	2.3	4.6	3.9	3.9
UTAH	523.9	541.9	538.5	28.1	28.2	25.4	5.4	5.2	4.7
Salt Lake City—Ogden	346.3	356.4	353.7	18.7	18.7	17.1	5.4	5.2	4.8
VERMONT	221.2	220.7	222.9	18.6	16.0	15.2	8.4	7.3	6.8

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		
	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P	JUL. 1976	JUN. 1977R	JUL. 1977P
VIRGINIA	2,356.9	2,412.6	2,414.7	138.2	134.0	130.0	5.9	5.6	5.4
Lynchburg	68.4	72.0	71.5	4.1	3.9	3.8	6.0	5.4	5.3
Newport News—Hampton	156.5	163.6	163.3	10.5	10.4	10.1	6.7	6.4	6.2
Norfolk—Virginia Beach—Portsmouth ¹	309.1	321.6	323.9	21.0	21.3	20.5	6.8	6.6	6.3
Richmond	307.8	319.5	320.6	14.6	14.7	13.5	4.7	4.6	4.2
Roanoke	110.5	113.0	112.3	6.9	6.1	5.8	6.2	5.4	5.2
WASHINGTON	1,627.2	1,677.3	1,666.0	141.3	119.4	118.8	8.7	7.1	7.1
Seattle—Everett	712.9	751.6	735.5	65.3	49.6	49.2	9.2	6.6	6.7
Spokane	130.6	129.3	133.1	9.7	8.8	7.8	7.4	6.8	5.9
Tacoma	159.1	160.3	161.7	16.4	12.4	11.9	10.3	7.7	7.4
WEST VIRGINIA	694.9	693.9	700.9	53.1	40.5	45.3	7.6	5.8	6.5
Charleston	111.2	109.7	111.2	6.3	4.6	5.3	5.7	4.2	4.7
Huntington—Ashland ¹	115.1	110.9	111.9	9.7	6.2	6.7	8.5	5.6	6.0
Parkersburg—Marietta ¹	64.5	63.1	63.0	5.7	3.5	3.5	8.9	5.5	5.6
Wheeling ¹	78.4	76.4	77.7	5.7	3.4	3.4	7.3	4.4	4.4
WISCONSIN	2,216.1	2,272.8	2,272.3	122.8	105.1	107.4	5.5	4.6	4.7
Appleton—Oshkosh	142.7	145.8	145.7	6.5	5.8	5.4	4.6	4.0	3.7
Green Bay	86.5	89.8	89.0	4.5	3.9	3.4	5.2	4.3	3.8
Kenosha	63.5	64.7	68.7	3.7	3.4	7.8	5.9	5.2	11.3
La Crosse	42.1	44.3	44.2	2.1	1.8	1.9	5.0	4.1	4.3
Madison	170.8	177.3	176.9	6.4	5.8	5.5	3.9	3.3	3.1
Milwaukee	690.0	695.9	688.2	45.6	36.4	36.0	6.6	5.2	5.2
Racine	89.4	93.6	92.1	5.4	3.9	3.9	6.1	4.2	4.2
WYOMING	192.0	205.8	204.5	6.5	7.1	6.0	3.4	3.5	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.

State and Area Annual Averages Converted to 1972 Standard Industrial Classification

*Susan Snow

This special supplement presents 5 years (1972-76) of annual average employment data by major industry division and 1 year (1976—manufacturing only) of hours, earnings, and labor turnover data in tables B-8, C-13, and D-4 of *Employment and Earnings*. Except where noted, the State and area series shown have been converted to the 1972 Standard Industrial Classification (1972 SIC).

The new classification system, given in the 1972 SIC Manual,¹ is the culmination of several years of work and serves as a guide for the first major industry reclassification since 1957. (A minor revision was introduced in 1967.) The Bureau of Labor Statistics participated in the initial development of the manual and continues to work with the Office of Management and Budget and other agencies in seeking to improve the SIC system. The SIC system is used to achieve uniformity and comparability in the presentation of industry data as well as to provide definitions of the structural changes that occur in a dynamic economy.

After several years of intensive effort, most State agencies participating in the Current Employment Statistics Program and Labor Turnover Statistics Program have completed Phase I of a three-phase approach to converting their data to the 1972 SIC. The new classification system represents a significant change from that mandated in the 1967 Standard Industrial Classification Manual upon which previously published data were based.

One of the most significant changes introduced by the 1972 SIC Manual is in the treatment of government. The 1972 coding structure no longer recognizes government as a separate industry division. However, in order to maintain continuity with previously published statistics for government, the Bureau and cooperating State agencies have introduced an ownership classification as a suffix to the industry code. The ownership classification provides a means to continue the separation of private and government data. Subtraction of the government-owned establishments from the industry totals permits tabulation of comparable data prior to 1972 for the government sector.

Within the following major divisions there are a number of substantive classification changes:

1. *Construction*-Building construction is segmented into residential and nonresidential categories and now includes

operative builders (transferred from finance, insurance, and real estate).

2. *Manufacturing-Ordinance* has been discontinued and its components have been spread among the other durable goods industries—particularly transportation equipment, fabricated metals, and electrical equipment.

3. *Trade-Wholesale* trade classifications now distinguish between durable and nondurable goods. Some former retail activities have been transferred to wholesale trade.

4. *Finance, Insurance, and Real Estate*—In addition to the removal of operative builders to the construction division, two small industries—credit card services and financial leasing of vehicles—have been transferred from services to finance.

The remaining divisions have had no major changes that cross over divisional lines. However, a thorough review of individual establishments' products and activities has revealed serious deficiencies in previous industrial classifications. Correction of these misclassifications is the major cause of change between the 1967 and 1972 SIC employment totals at the division level.

Due to the limited amount of historical data currently available on the 1972 SIC (during Phase I), the Bureau will not publish its annual State and area bulletin (*Employment and Earnings, States and Areas*) this year. Additional historical data (hours, earnings, and labor turnover, 1972-75) will be available in the spring of 1978 under Phase II of the conversion plan. Phase III establishes as a target date the spring of 1979 for the restructuring of the historical employment series at the division level for the 1939-71 period.

National data continue to be based on the 1967 SIC. Current plans call for publication of national data based on the 1972 SIC in the summer of 1978.

State and area data with a more detailed industrial breakdown, for the time periods shown in this section, may be obtained from the State agencies listed on the inside back cover of this publication.

* Susan Snow is an economist in the Division of Industry Employment Statistics.

¹ Prepared by the Executive Office of the President-Office of Management and Budget.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76

(In thousands)

STATE AND AREA	TOTAL					MINING					CONTRACT CONSTRUCTION				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
ALABAMA	1,072.3	1,135.5	1,165.8	1,155.4	1,205.9	9.0	9.3	10.5	12.5	13.5	58.7	68.8	73.3	68.3	69.2
Birmingham	280.8	299.0	310.8	310.2	315.9	5.9	6.1	6.7	7.9	8.1	17.7	20.3	20.6	18.9	20.0
Huntsville	95.9	99.3	101.1	99.7	104.1	(1)	(1)	(1)	(1)	(1)	3.3	3.7	4.5	4.6	3.7
Mobile	107.8	116.9	122.7	126.3	132.7	(1)	(1)	(1)	(1)	(1)	7.2	8.5	9.4	10.4	10.8
Montgomery	90.1	86.0	86.9	86.5	85.4	(1)	(1)	(1)	(1)	(1)	6.4	7.0	6.5	5.7	5.9
Tuscaloosa	43.2	46.9	46.8	46.2	47.0	(1)	(1)	(1)	.6	.7	2.7	3.2	3.3	2.8	3.0
ALASKA	103.3	110.0	127.9	161.8	171.7	2.1	2.0	2.6	3.8	4.0	7.1	7.7	13.2	25.9	30.2
ARIZONA	646.3	714.5	746.0	729.1	758.0	22.3	24.6	26.9	24.6	24.5	57.5	65.7	58.3	43.8	41.4
Phoenix	384.3	430.2	446.4	429.8	445.7	.3	.4	.4	.4	.5	33.0	38.1	33.3	24.3	23.6
Tucson	127.0	137.9	144.1	144.1	147.9	7.0	7.5	8.4	8.0	7.7	12.7	13.7	11.9	5.4	9.2
ARKANSAS	581.5	614.5	646.7	623.8	658.0	4.4	4.2	4.4	4.4	4.7	34.6	33.9	35.6	33.5	33.8
Fayetteville-Springdale	46.0	48.9	50.3	49.1	52.1	(1)	(1)	(1)	(1)	(1)	2.2	2.4	2.6	2.2	2.6
Fort Smith	51.0	54.6	57.3	55.4	59.3	.4	.4	.3	.4	.5	2.2	2.4	2.7	2.7	2.6
Little Rock-North Little Rock	138.3	149.6	152.1	152.1	156.9	(1)	(1)	(1)	(1)	(1)	10.4	10.9	10.2	8.7	8.4
Pine Bluff	25.2	26.2	27.2	26.0	26.5	(1)	(1)	(1)	(1)	(1)	1.0	1.1	1.2	1.2	1.1
CALIFORNIA	7,194.0	7,599.0	7,812.7	7,829.3	8,120.3	29.2	30.5	32.8	33.9	34.9	320.7	344.8	334.0	303.3	318.3
Anaheim-Santa Ana-Garden Grove	471.6	525.4	557.4	560.6	600.7	1.9	2.0	2.1	2.1	1.9	27.9	32.2	29.6	23.8	29.9
Bakersfield	91.9	97.1	101.7	104.3	107.4	6.3	6.9	7.7	8.3	8.6	3.9	4.5	4.4	4.0	4.3
Fresno	129.5	137.7	145.0	149.0	154.9	.6	.7	.8	.8	.8	6.6	7.2	7.4	7.0	7.6
Los Angeles-Long Beach	2,888.1	3,028.0	3,073.8	3,024.7	3,106.8	10.7	10.5	10.9	11.2	11.3	99.7	107.8	105.5	95.8	96.4
Modesto	60.3	64.6	67.6	70.5	74.3	.1	.1	.1	.1	.1	3.9	4.0	3.9	3.7	4.2
Oxnard-Simi Valley-Ventura	100.2	105.6	110.0	113.2	116.5	1.7	1.7	1.8	2.0	2.1	4.9	5.0	4.3	4.1	4.6
Riverside-San Bernardino-Ontario	312.6	328.5	333.0	331.4	343.6	1.8	2.2	2.5	2.3	2.3	16.4	17.8	14.9	12.8	13.2
Sacramento	283.9	294.9	306.2	317.6	331.4	.2	.3	.4	.3	.3	14.0	14.0	14.2	13.5	14.2
Salinas-Seaside-Monterey	66.1	70.0	72.8	74.2	75.3	.5	.6	.7	.7	.6	2.9	3.1	3.2	2.7	2.7
San Diego	423.6	452.4	461.1	475.1	493.6	.8	.8	.8	.8	.8	27.1	29.0	24.6	22.8	26.5
San Francisco-Oakland	1,250.1	1,299.1	1,322.0	1,331.8	1,362.3	1.6	1.6	1.8	2.1	2.2	60.8	63.7	66.1	62.4	58.4
San Jose	405.6	443.6	469.9	466.7	492.0	.1	.1	.1	.1	.1	19.3	20.5	20.5	17.0	17.4
Santa Barbara-Santa Maria-Lompoc	84.4	90.3	95.9	97.1	101.2	.8	.7	.8	.9	1.0	3.3	3.6	3.4	3.1	3.4
Santa Rosa	56.5	60.8	63.8	64.5	68.5	.2	.3	.3	.4	.4	3.6	3.9	4.0	3.4	3.6
Stockton	91.9	95.6	95.3	100.8	103.1	.1	.1	.1	.1	.1	3.9	3.8	4.1	3.8	3.7
Vallejo-Fairfield-Napa	71.2	74.0	78.3	82.4	85.1	.1	.1	.2	.2	.2	3.0	3.3	3.3	3.5	3.3
COLORADO ²	860.5	933.1	952.4	946.6	974.7	13.8	14.7	16.9	19.7	21.2	63.3	72.1	60.9	50.7	49.6
Denver-Boulder ³	561.3	600.7	606.9	558.1	612.5	6.1	6.2	7.4	9.1	9.9	42.5	46.2	36.7	29.9	28.5
CONNECTICUT	1,190.4	1,238.7	1,264.0	1,223.4	1,238.1	(3)	(3)	(3)	(3)	(3)	57.6	59.6	54.6	44.9	40.1
Bridgeport ^{4,5}	144.6	148.6	154.8	147.5	146.5	(3)	(3)	(3)	(3)	(3)	5.3	5.8	5.5	4.4	4.0
Hartford ^{4,5}	319.7	332.8	343.6	338.9	340.7	(3)	(3)	(3)	(3)	(3)	14.1	14.8	13.7	11.5	10.4
New Britain ^{4,5}	43.8	45.4	57.8	54.1	52.8	(3)	(3)	(3)	(3)	(3)	1.8	1.8	2.2	2.0	1.8
New Haven-West Haven ^{4,5}	159.0	163.5	180.1	171.4	171.6	(3)	(3)	(3)	(3)	(3)	7.9	8.0	7.8	6.1	5.3
Stamford ⁵	83.6	85.9	88.2	88.3	90.6	(3)	(3)	(3)	(3)	(3)	3.7	3.6	3.4	2.9	3.1
Waterbury ⁵	79.9	83.7	85.2	80.3	86.3	(3)	(3)	(3)	(3)	(3)	3.7	3.4	3.0	2.7	2.3
DELAWARE	232.4	239.4	233.1	229.9	236.8	(1)	(1)	(1)	(1)	(1)	16.8	17.1	17.0	14.5	14.4
Wilmington	201.4	209.8	207.8	201.6	206.8	(1)	(1)	(1)	(1)	(1)	15.9	16.0	15.9	12.2	12.4
DISTRICT OF COLUMBIA	572.0	573.7	580.1	576.5	576.2	(1)	(1)	(1)	(1)	(1)	19.3	20.7	22.1	15.6	17.0
Washington SMSA	1,258.6	1,310.1	1,332.9	1,336.8	1,363.7	(1)	(1)	(1)	(1)	(1)	83.5	92.0	89.1	73.1	71.1
FLORIDA	2,513.1	2,778.6	2,862.8	2,750.1	2,782.8	8.8	9.2	9.9	9.6	9.2	230.1	290.2	276.1	181.4	167.0
Fort Lauderdale-Hollywood	212.7	244.3	255.3	239.7	239.1	(1)	(1)	(1)	(1)	(1)	27.2	35.8	34.8	19.3	16.5
Jacksonville	233.9	251.4	261.7	256.4	257.4	(1)	(1)	(1)	(1)	(1)	17.2	21.0	20.7	15.9	14.5
Miami	563.8	602.4	605.9	578.8	585.6	(1)	(1)	(1)	(1)	(1)	38.3	45.7	43.1	26.4	23.6
Orlando	190.9	221.9	225.3	207.3	211.4	(1)	(1)	(1)	(1)	(1)	22.8	30.2	24.2	12.6	11.4
Pensacola	77.5	80.8	85.3	85.2	87.1	(1)	(1)	(1)	(1)	(1)	7.3	8.1	8.0	6.6	6.2
Tampa-St. Petersburg	379.1	425.6	433.8	417.8	420.4	(1)	(1)	(1)	(1)	(1)	35.6	45.1	42.3	30.0	27.8
West Palm Beach-Boca Raton	125.8	140.6	145.7	140.1	144.3	(1)	(1)	(1)	(1)	(1)	13.4	18.2	17.4	11.0	9.6
GEORGIA	1,695.2	1,802.5	1,827.5	1,755.7	1,844.4	7.2	7.4	7.8	6.5	6.9	104.0	112.9	109.0	87.5	84.2
Atlanta	712.9	763.4	776.3	741.3	767.3	(1)	(1)	(1)	(1)	(1)	46.7	50.1	48.1	36.0	31.9
Augusta	95.3	95.8	102.7	101.6	106.9	(1)	(1)	(1)	(1)	(1)	6.0	6.2	6.1	5.8	6.4
Columbus	71.7	73.3	74.1	72.8	74.7	(1)	(1)	(1)	(1)	(1)	5.0	5.3	5.1	4.4	4.3
Macon	83.6	86.8	96.7	91.6	92.6	(1)	(1)	(1)	(1)	(1)	5.0	5.0	5.3	5.2	5.3
Savannah	70.6	73.7	75.4	72.5	75.9	(1)	(1)	(1)	(1)	(1)	4.7	5.5	5.8	4.9	4.8
HAWAII ⁶	312.7	327.5	335.9	342.8	345.2	(1)	(1)	(1)	(1)	(1)	23.6	26.6	27.9	26.3	21.4
Honolulu ⁶	265.1	277.8	284.9	287.4	291.3	(1)	(1)	(1)	(1)	(1)	20.1	22.9	23.8	22.5	17.8

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	MANUFACTURING					TRANSPORTATION AND PUBLIC UTILITIES					WHOLESALE AND RETAIL TRADE				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
ALABAMA	333.4	350.9	353.7	321.9	340.0	57.2	60.7	61.4	59.9	62.4	207.8	221.7	226.8	229.3	243.9
Birmingham	71.3	72.5	73.7	67.4	65.8	20.6	22.4	23.0	22.4	23.8	63.6	69.7	71.1	73.0	77.2
Huntsville	24.5	25.6	26.6	25.7	29.0	2.1	2.2	2.1	2.1	2.2	16.3	17.6	18.1	18.3	19.7
Mobile	23.8	26.1	26.8	26.1	26.8	9.4	9.6	9.9	9.9	9.9	26.5	29.3	29.5	30.1	32.0
Montgomery	13.0	14.1	14.3	13.2	13.7	4.0	4.1	4.4	4.2	4.2	18.5	20.1	20.4	20.2	20.7
Tuscaloosa	11.5	12.2	11.8	11.1	10.3	1.7	1.8	1.8	1.8	1.8	7.1	7.9	8.0	8.0	8.6
ALASKA	8.1	9.5	9.5	9.6	10.5	10.0	10.5	11.5	16.5	15.9	17.4	19.7	21.2	26.2	28.0
ARIZONA	98.7	110.2	112.9	99.8	105.6	32.6	37.0	40.1	38.8	39.4	150.4	167.1	175.7	175.8	183.4
Phoenix	75.0	83.5	85.0	72.9	77.2	18.8	22.0	24.1	23.1	23.5	95.7	107.6	114.0	112.6	118.5
Tucson	10.5	12.1	12.5	12.1	12.5	6.9	7.6	8.2	7.7	7.6	28.2	30.3	31.0	32.1	33.3
ARKANSAS	185.2	200.4	203.9	179.2	194.9	35.1	36.9	38.2	36.8	37.9	116.4	124.1	131.9	133.1	141.3
Fayetteville—Springdale	15.7	17.0	17.1	14.9	15.6	2.7	2.5	3.1	3.0	3.0	8.8	9.7	10.4	11.0	12.1
Fort Smith	19.0	20.6	21.9	18.9	21.2	2.9	3.1	3.1	3.0	3.2	10.8	11.5	11.7	11.7	12.9
Little Rock—North Little Rock	28.4	31.3	31.6	27.4	28.5	10.4	11.0	11.4	11.0	11.1	30.2	33.4	35.3	35.2	36.8
Pine Bluff	5.8	6.3	6.6	5.7	5.8	3.6	3.5	3.6	3.3	3.4	5.0	5.2	5.3	5.3	5.4
CALIFORNIA	1,535.1	1,652.8	1,693.7	1,586.8	1,646.7	454.1	467.0	470.7	459.1	463.6	1,609.4	1,704.5	1,754.4	1,788.3	1,871.4
Anaheim—Santa Ana—Garden Grove	132.5	150.1	158.6	151.3	159.8	16.0	17.0	17.3	17.7	18.6	111.5	121.4	130.3	135.0	146.6
Bakersfield	8.2	9.0	9.3	8.4	8.6	6.3	6.5	6.5	6.6	6.7	22.4	23.9	25.4	27.0	27.1
Fresno	19.1	20.5	21.1	20.1	20.8	8.4	8.5	8.9	8.6	8.9	33.4	35.2	37.1	38.3	41.0
Los Angeles—Long Beach	773.7	820.2	823.8	766.2	792.3	171.4	177.7	177.2	170.9	173.3	649.7	681.7	693.0	690.7	714.3
Modesto	16.2	17.1	17.9	17.8	18.0	2.9	3.0	3.1	3.2	3.2	13.6	14.4	15.3	15.9	17.1
Oxnard—Simi Valley—Ventura	14.4	16.2	17.0	16.6	17.7	4.4	4.5	4.4	4.3	4.5	23.9	24.8	25.6	26.9	27.5
Riverside—San Bernardino—Ontario	54.7	58.0	57.4	51.1	53.4	17.6	18.5	19.4	19.0	18.9	71.5	76.1	77.7	77.9	82.3
Sacramento	22.5	23.5	22.6	22.0	23.2	17.5	17.7	17.8	16.7	17.2	62.0	65.3	67.5	70.8	75.4
Salinas—Seaside—Monterey	7.9	9.0	9.6	9.2	8.6	4.2	4.3	4.5	4.4	4.3	16.3	17.4	17.8	18.5	19.4
San Diego	66.7	71.6	76.9	72.0	72.1	21.6	22.3	22.6	22.5	22.9	92.2	100.5	103.9	108.1	114.5
San Francisco—Oakland	184.3	198.8	194.9	182.8	186.0	124.9	125.5	125.4	122.0	120.0	270.3	287.4	289.9	295.0	305.8
San Jose	126.7	147.1	162.8	153.6	162.5	17.8	18.2	18.5	17.9	18.1	78.4	83.6	87.5	91.3	97.1
Santa Barbara—Santa Maria—Lompoc	10.6	12.0	13.2	12.5	13.4	3.4	3.3	3.4	3.4	3.3	20.0	21.8	22.0	22.9	24.3
Santa Rosa	7.7	8.9	9.5	8.8	9.5	3.0	3.2	3.2	3.4	3.3	13.8	14.6	15.2	15.6	16.6
Stockton	17.8	18.9	19.8	19.1	19.0	6.7	7.2	7.5	7.2	7.3	20.1	21.1	22.0	23.0	23.9
Vallejo—Fairfield—Napa	6.9	7.6	7.8	8.4	8.8	3.8	3.7	3.8	3.9	4.0	13.5	14.3	14.5	15.3	15.8
COLORADO ²	131.0	140.0	144.0	135.9	141.1	55.2	58.8	60.8	55.8	60.3	206.5	226.0	232.1	230.4	236.7
Denver—Boulder	54.8	99.0	100.6	93.1	95.3	38.7	41.4	42.6	41.3	40.8	138.5	150.6	153.0	148.8	152.8
CONNECTICUT	400.1	420.2	430.9	389.8	395.6	54.5	56.0	56.1	53.1	53.0	235.0	244.5	250.4	251.0	255.9
Bridgeport	61.2	62.7	64.8	59.0	58.2	6.3	6.4	6.5	5.8	5.5	28.7	29.2	30.5	29.9	29.5
Hartford	83.4	87.3	91.0	85.8	84.0	12.5	12.6	13.0	12.3	12.5	65.5	68.1	70.3	70.9	72.3
New Britain	21.9	23.1	29.8	26.5	25.3	1.4	1.5	1.5	1.4	1.3	6.9	6.9	9.2	8.9	9.1
New Haven—West Haven	39.4	41.3	49.3	43.7	43.0	13.8	14.0	14.6	14.1	13.8	32.1	33.3	36.9	35.1	36.3
Stamford	27.6	28.3	28.7	27.7	27.9	3.3	3.4	3.1	3.1	3.1	18.1	18.4	19.3	19.3	20.5
Waterbury	35.4	37.3	37.6	33.1	32.3	3.3	3.3	3.2	3.0	2.9	13.5	13.6	13.7	14.0	14.6
DELAWARE	69.4	73.7	70.8	65.7	69.2	11.4	11.8	11.8	11.8	11.9	49.9	50.0	47.3	50.3	51.5
Wilmington	62.4	69.0	66.7	62.6	65.0	10.3	10.5	10.6	10.3	10.5	42.3	42.3	41.2	41.5	42.5
DISTRICT OF COLUMBIA	17.8	17.4	17.0	15.5	15.4	28.6	29.0	29.3	28.7	28.9	73.8	71.9	67.4	64.9	65.2
Washington SMSA	45.6	48.3	50.1	48.7	49.0	62.0	64.9	66.0	64.1	65.0	245.5	255.7	250.6	253.7	263.1
FLORIDA	351.3	380.6	375.9	336.5	343.1	173.5	186.7	189.8	182.7	180.6	643.5	703.2	727.6	716.4	727.1
Fort Lauderdale—Hollywood	23.9	28.0	28.0	25.3	25.6	12.2	13.9	13.9	14.2	13.5	60.0	67.8	70.2	69.7	69.0
Jacksonville	29.4	31.1	31.3	29.1	29.2	21.8	22.9	23.0	21.4	21.0	61.7	65.1	68.2	67.6	68.8
Miami	66.7	94.8	92.3	81.6	84.2	58.4	60.8	59.9	58.4	57.9	146.2	155.5	156.4	150.5	149.8
Orlando	25.9	28.8	28.3	24.5	25.2	10.6	12.1	12.5	11.8	11.6	46.4	54.7	59.1	57.3	59.2
Pensacola	14.4	14.3	14.6	13.7	13.7	4.0	4.3	4.3	4.1	4.2	17.1	17.9	19.0	19.1	20.1
Tampa—St. Petersburg	58.6	65.4	63.2	57.0	57.1	25.1	27.5	28.1	26.9	26.4	105.9	118.1	120.7	119.6	119.8
West Palm Beach—Boca Raton	19.1	20.1	19.9	18.1	18.0	6.0	6.3	6.8	6.8	6.7	32.6	36.2	37.0	37.2	38.7
GEORGIA	476.6	494.5	483.7	439.3	477.2	109.9	118.1	120.3	113.4	117.2	375.4	398.5	407.6	396.3	419.4
Atlanta	132.7	134.3	127.8	116.7	125.1	64.3	71.2	72.4	67.8	68.8	196.1	211.0	217.9	207.4	215.0
Augusta	30.8	32.3	32.3	31.2	34.4	4.0	4.1	4.0	3.9	4.1	17.2	17.9	18.3	17.8	18.4
Columbus	20.1	20.9	21.0	19.1	19.8	2.8	2.5	3.0	2.9	3.0	13.9	14.3	14.4	14.8	15.7
Macon	14.0	14.3	14.8	14.8	16.3	3.5	3.6	3.7	3.7	4.1	16.1	17.3	17.7	17.7	17.0
Savannah	15.3	16.0	15.8	14.3	15.7	7.3	8.0	7.9	7.9	8.3	16.3	16.9	17.3	16.8	17.6
HAWAII ⁶	24.9	23.8	22.7	23.7	23.3	24.8	25.6	26.2	26.4	27.2	75.2	80.5	82.2	83.7	88.0
Honolulu	18.5	17.7	17.1	17.2	17.0	21.1	21.4	22.2	22.1	22.6	64.0	68.7	69.5	70.6	74.3

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	FINANCE, INSURANCE, AND REAL ESTATE					SERVICES					GOVERNMENT				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
ALABAMA	44.4	46.6	49.1	50.4	52.4	140.9	151.8	159.5	165.6	174.6	220.9	225.7	235.1	247.5	249.9
Birmingham	17.7	18.6	19.4	19.8	20.5	42.5	46.8	50.3	52.9	55.8	41.5	43.5	46.0	47.9	48.7
Huntsville	2.5	2.7	2.7	2.7	2.8	13.9	14.9	14.7	14.3	15.1	33.3	32.6	32.4	32.0	31.6
Mobile	5.1	5.5	5.6	5.8	6.0	18.6	20.8	22.2	23.5	25.9	17.2	18.1	19.3	20.1	21.3
Montgomery	4.4	4.6	4.9	5.1	5.2	13.6	14.6	15.0	15.3	16.4	20.2	21.5	21.4	22.8	23.3
Tuscaloosa	1.4	1.4	1.4	1.4	1.5	4.6	4.9	4.5	4.7	5.0	14.2	15.5	15.6	15.8	16.1
ALASKA	3.5	4.0	4.9	6.0	7.2	14.6	16.1	20.1	26.1	28.7	40.5	41.5	43.8	47.7	47.1
ARIZONA	37.1	41.3	42.5	42.2	42.6	108.5	121.0	128.6	134.4	143.8	139.2	147.6	161.0	169.7	177.3
Phoenix	27.4	30.7	32.0	32.3	32.8	66.2	75.4	79.6	81.7	86.7	67.9	72.5	78.0	82.5	86.9
Tucson	5.8	6.4	6.5	6.2	5.9	22.5	24.9	26.9	28.0	29.9	33.4	35.0	38.7	40.6	41.8
ARKANSAS	23.7	26.8	27.1	27.0	28.0	73.6	78.1	84.0	88.5	94.2	108.5	110.1	115.6	120.9	123.2
Fayetteville-Springdale	1.8	1.8	1.8	1.8	1.9	6.2	6.3	6.4	6.8	7.0	6.6	6.8	6.5	6.4	6.4
Fort Smith	1.7	1.9	2.0	2.0	2.1	7.4	8.1	8.9	9.7	9.9	6.6	6.6	6.7	7.0	7.0
Little Rock-North Little Rock	10.0	10.5	10.9	10.9	11.4	21.9	23.7	24.8	26.7	27.8	27.0	28.8	30.9	32.2	32.9
Pine Bluff	1.0	1.1	1.1	1.1	1.1	3.4	3.5	3.8	3.9	4.0	5.4	5.5	5.6	5.5	5.7
CALIFORNIA	409.3	431.6	444.8	446.8	468.5	1,241.1	1,445.1	1,457.1	1,543.2	1,613.1	1,495.1	1,522.7	1,586.2	1,667.9	1,703.4
Anaheim-Santa Ana-Garden Grove	25.0	27.6	29.4	29.9	32.8	82.5	96.1	104.1	108.7	114.7	74.3	79.0	86.0	92.4	96.4
Bakersfield	3.8	3.8	3.9	3.7	3.5	13.5	14.5	15.6	16.4	17.4	27.5	28.0	28.5	29.9	30.8
Fresno	6.1	6.6	7.2	7.4	7.7	23.0	24.7	25.7	27.5	28.4	32.3	34.3	36.8	39.3	39.7
Los Angeles-Long Beach	177.9	184.1	186.6	184.3	188.2	568.8	606.1	618.9	627.2	647.4	436.2	440.3	457.8	477.8	483.6
Modesto	1.7	1.8	1.9	1.9	2.0	10.2	11.7	12.5	13.0	13.3	11.7	12.5	12.9	14.9	16.4
Oxnard-Simi Valley-Ventura	3.6	3.7	4.0	4.0	4.5	16.3	17.8	18.6	19.4	20.0	31.0	31.5	34.2	35.9	35.6
Riverside-San Bernardino-Ontario	11.7	12.4	12.4	12.6	13.4	58.6	62.7	64.7	66.9	70.5	80.3	80.8	84.0	88.8	89.6
Sacramento	12.0	12.6	13.3	13.8	14.9	43.0	45.8	48.7	52.5	56.4	112.7	115.7	123.8	128.0	129.8
Salinas-Seaside-Monterey	2.6	2.6	2.8	3.1	3.3	12.8	13.7	13.9	14.4	14.9	18.9	19.3	20.2	21.2	21.6
San Diego	22.7	24.3	25.0	24.6	26.2	82.5	90.1	95.0	97.5	101.5	110.0	113.8	118.3	126.8	129.1
San Francisco-Oakland	100.8	106.0	109.4	111.6	115.7	232.7	250.2	257.1	265.0	276.9	274.7	276.9	277.4	290.9	297.3
San Jose	15.9	17.3	18.2	18.7	19.9	82.4	89.5	92.8	95.9	101.7	65.0	67.3	69.5	72.2	75.2
Santa Barbara-Santa Maria-Lompoc	3.6	4.1	4.3	4.4	4.4	20.8	22.6	23.6	23.8	24.5	21.9	22.2	23.2	26.1	26.9
Santa Rosa	3.6	3.9	3.8	3.6	3.7	10.0	10.7	11.4	12.1	12.9	14.6	15.2	16.4	17.2	18.1
Stockton	3.2	3.5	3.7	3.9	4.1	15.0	15.7	16.5	17.5	19.1	25.1	25.3	25.2	25.8	25.9
Vallejo-Fairfield-Napa	2.1	2.1	2.3	2.5	2.6	11.6	12.8	13.8	14.2	14.7	30.2	30.1	32.6	34.4	35.7
COLORADO ²	47.6	55.0	56.3	56.3	59.0	153.1	169.2	180.0	183.6	193.0	189.9	197.2	201.5	210.2	214.2
Denver-Boulder	35.0	40.2	41.1	41.1	42.9	103.3	111.8	118.5	119.8	125.8	102.6	105.3	109.1	115.2	116.5
CONNECTICUT	78.2	82.6	85.2	86.0	87.4	199.7	208.1	215.9	219.9	229.1	165.2	167.7	171.0	178.7	177.0
Bridgeport	5.4	5.5	6.0	5.9	6.0	21.9	22.7	24.6	25.2	25.9	15.7	16.2	16.6	17.3	17.4
Hartford	45.5	48.2	49.6	50.0	50.1	52.0	53.7	56.0	57.4	60.6	46.7	48.2	50.1	51.1	50.8
New Britain	1.3	1.3	1.5	1.5	1.5	5.6	5.7	7.2	7.4	8.1	4.9	5.2	6.2	6.4	6.6
New Haven-West Haven	8.5	8.9	8.9	9.3	9.6	35.3	36.5	40.3	39.5	40.3	21.9	21.6	22.4	23.1	23.4
Stamford	4.8	5.0	5.5	6.0	6.0	17.5	18.4	19.3	19.9	20.1	8.7	8.9	9.0	9.5	9.9
Waterbury	2.4	2.8	3.1	2.6	2.7	11.8	13.3	14.1	14.4	14.6	9.9	10.0	10.5	10.5	10.8
DELAWARE	12.0	12.2	11.8	10.9	11.0	33.9	35.4	35.3	36.4	38.4	39.0	39.2	39.1	40.3	40.4
Wilmington	9.8	10.3	10.7	10.0	10.1	29.8	30.1	30.7	31.7	33.2	30.9	31.6	32.0	33.3	33.1
DISTRICT OF COLUMBIA	33.4	33.6	34.4	33.2	33.3	138.8	141.4	144.6	145.0	147.3	260.2	259.6	265.3	269.7	269.0
Washington SMSA	73.0	77.1	78.9	76.4	77.8	274.7	288.6	302.0	308.9	320.0	474.4	483.4	497.2	512.0	517.8
FLORIDA	162.4	182.6	192.5	187.9	188.0	505.6	556.2	581.5	588.2	615.8	437.9	469.9	510.5	547.4	552.0
Fort Lauderdale-Hollywood	15.1	17.3	18.5	18.4	19.0	45.8	50.3	54.5	55.9	57.6	28.5	31.2	35.0	36.9	37.9
Jacksonville	22.4	25.3	26.3	26.8	26.4	41.1	43.7	46.3	46.3	47.5	40.3	42.3	45.9	49.3	50.0
Miami	41.0	43.4	44.5	43.0	43.2	128.9	136.6	141.4	137.0	143.2	64.3	65.6	72.3	81.9	83.7
Orlando	12.2	13.8	14.9	14.4	14.0	44.9	51.4	52.1	51.5	54.6	28.1	30.9	34.2	35.2	35.4
Pensacola	3.2	3.5	3.6	3.6	3.6	12.0	12.8	13.6	14.4	15.3	15.5	19.9	22.2	23.8	24.0
Tampa-St. Petersburg	24.5	29.3	29.3	29.2	29.0	76.1	82.6	87.6	87.5	91.4	53.3	57.6	62.4	67.2	68.9
West Palm Beach-Boca Raton	8.5	9.5	10.3	10.7	10.8	28.0	31.2	33.3	32.7	35.4	18.2	19.1	21.0	23.6	25.1
GEORGIA	86.3	93.3	98.1	97.3	98.8	214.9	249.2	260.5	260.0	276.7	320.9	328.2	340.5	354.8	364.1
Atlanta	50.1	56.4	59.4	57.0	56.9	112.9	126.3	134.2	130.8	142.1	110.1	114.1	118.5	125.6	127.5
Augusta	3.2	3.3	3.5	3.6	3.7	11.1	11.9	12.5	13.1	13.3	23.0	24.1	25.6	26.2	26.7
Columbus	3.9	4.0	4.4	4.4	4.5	9.4	9.3	9.3	9.5	9.8	16.6	16.6	16.9	17.7	17.7
Macon	4.2	4.4	4.9	5.5	5.4	12.3	13.1	14.0	14.2	14.6	28.5	29.1	30.3	30.5	29.9
Savannah	3.5	3.5	3.5	3.6	3.7	10.3	10.9	12.2	11.9	12.4	13.2	12.9	12.9	13.1	13.4
HAWAII ⁶	20.2	22.6	24.0	24.3	24.8	64.6	70.4	74.0	76.4	79.7	75.4	78.0	78.8	82.0	84.8
Honolulu	18.3	20.5	21.7	21.5	22.0	53.8	58.6	61.5	62.7	65.0	69.3	68.0	68.7	70.8	72.6

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	TOTAL					MINING					CONTRACT CONSTRUCTION					
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	
IDAHO	236.5	251.7	266.8	273.0	290.2	3.1	3.2	3.6	3.7	3.4	13.1	14.7	16.0	16.1	17.4	
Boise City	50.3	55.0	58.5	61.0	64.9	(1)	(1)	(1)	(1)	(1)	3.4	4.0	4.5	5.0	5.1	
ILLINOIS ⁵	4,309.5	4,460.8	4,541.3	4,418.5	4,483.8	23.5	23.3	24.5	25.9	25.9	182.7	189.0	182.4	172.3	175.3	
Bloomington—Normal ⁵	41.3	44.1	45.3	45.6	45.9	(3)	(3)	(3)	(3)	(3)	1.7	1.7	1.6	1.4	1.2	
Urbana—Rantoul ⁵	62.1	64.5	64.9	66.0	65.7	(3)	(3)	(3)	(3)	(3)	3.2	3.5	3.0	2.5	3.0	
Chicago—Gary ⁷	3,168.3	3,239.3	3,321.9	3,205.6	3,235.3	4.4	4.2	4.4	4.4	4.4	130.2	135.8	126.4	116.0	119.2	
Chicago SMSA ^{5,8}	2,945.3	3,029.7	3,081.9	2,978.1	3,003.4	4.3	4.2	4.3	4.5	4.3	115.5	121.9	114.6	104.6	106.5	
Davenport—Rock Island—Moline ⁵	133.3	140.9	151.2	149.5	151.3	(3)	(3)	(3)	(3)	(3)	5.9	6.4	6.6	6.5	6.0	
Decatur ⁵	51.0	53.2	54.0	52.3	52.5	(3)	(3)	(3)	(3)	(3)	2.4	2.3	2.4	2.7	3.3	
Peoria ⁵	130.2	137.9	141.6	143.5	145.1	(3)	(3)	(3)	(3)	(3)	7.4	7.6	8.0	8.0	8.6	
Rockford ⁵	107.8	114.5	115.9	109.6	111.5	(3)	(3)	(3)	(3)	(3)	3.7	4.0	3.8	3.4	3.2	
Springfield ⁵	74.1	76.1	77.3	78.9	79.0	(3)	(3)	(3)	(3)	(3)	3.8	3.9	3.8	3.9	4.0	
INDIANA	1,921.9	2,028.1	2,031.4	1,941.7	2,010.0	6.9	6.9	7.1	7.7	8.0	84.0	90.5	90.1	79.7	79.4	
Anderson	(*)	(*)	(*)	48.3	45.9	(*)	(*)	(*)	(1)	(1)	(*)	(*)	(*)	(*)	1.0	1.1
Evansville	104.9	110.1	109.8	107.7	111.1	1.8	1.8	1.8	2.3	2.4	5.5	5.4	5.5	5.2	5.2	
Fort Wayne	149.8	157.7	160.0	149.8	155.7	(1)	(1)	(1)	(1)	(1)	6.5	6.8	6.9	6.2	6.1	
Gary—Hammond—East Chicago ⁸	222.9	236.2	239.9	232.3	235.9	(1)	(1)	(1)	(1)	(1)	10.9	11.5	11.9	12.3	12.7	
Indianapolis	435.1	455.2	465.6	454.5	463.7	(1)	(1)	(1)	(1)	(1)	21.0	21.9	22.0	17.5	17.1	
Lafayette—West Lafayette	(*)	(*)	(*)	49.6	50.7	(*)	(*)	(*)	(1)	(1)	(*)	(*)	(*)	(*)	1.6	1.5
Muncie	46.6	48.1	48.3	45.3	46.6	(1)	(1)	(1)	(1)	(1)	1.7	1.9	1.8	1.5	1.7	
South Bend	98.4	103.5	105.0	100.6	102.1	(1)	(1)	(1)	(1)	(1)	4.5	4.9	4.8	4.1	4.0	
Terre Haute	56.4	57.8	58.9	57.2	57.4	.9	.5	.9	1.0	1.1	2.0	2.0	2.2	2.0	2.0	
IOWA ²	532.3	975.1	1,000.4	993.1	1,013.7	3.0	2.9	3.0	2.8	2.7	42.1	45.0	48.1	46.5	46.8	
Cedar Rapids ²	66.6	70.6	74.1	73.6	(*)	(1)	(1)	(1)	(1)	(*)	4.0	4.0	3.5	2.9	(*)	
Des Moines ²	142.5	149.2	155.8	155.3	(*)	(1)	(1)	(1)	(1)	(*)	7.1	7.7	8.0	7.0	(*)	
Dubuque ²	36.8	39.1	41.0	39.8	(*)	(1)	(1)	(1)	(1)	(*)	1.3	1.5	1.6	1.4	(*)	
Sioux City ²	44.1	46.8	49.4	49.5	(*)	(1)	(1)	(1)	(1)	(*)	2.4	2.7	3.2	3.2	(*)	
Waterloo—Cedar Falls ²	52.6	56.6	58.2	57.1	(*)	(1)	(1)	(1)	(1)	(*)	2.1	2.0	2.2	2.3	(*)	
KANSAS	717.5	763.3	790.0	801.2	830.8	9.3	9.2	9.4	10.3	10.7	33.6	35.9	38.9	38.8	41.9	
Topeka	70.7	73.5	75.0	75.9	77.3	.2	.2	.2	.2	.2	3.1	3.4	3.0	2.6	3.2	
Wichita	143.9	156.4	166.1	170.1	172.4	1.5	1.5	1.5	1.6	1.7	7.2	7.9	8.9	9.1	9.3	
KENTUCKY	589.2	1,035.8	1,070.7	1,064.3	1,108.9	31.4	31.6	35.7	46.6	46.6	55.7	57.2	54.3	50.3	54.4	
Lexington—Fayette	108.7	117.9	121.1	120.8	126.3	(1)	(1)	(1)	(1)	(1)	6.6	7.0	7.1	6.3	6.6	
Louisville	345.8	362.5	368.1	350.5	356.5	(1)	(1)	(1)	(1)	(1)	18.2	18.7	18.0	15.8	15.3	
LOUISIANA	1,128.6	1,176.1	1,220.8	1,249.5	1,298.1	50.4	51.0	53.9	59.1	62.4	86.4	88.5	95.2	96.1	109.8	
Alexandria	40.9	42.6	43.6	42.9	44.5	(1)	(1)	(1)	(1)	(1)	2.7	2.8	2.9	2.6	2.8	
Baton Rouge	129.0	139.7	152.7	161.2	170.4	.8	.5	1.0	.5	1.0	15.6	15.7	18.8	15.8	22.4	
Lafayette	41.5	44.3	46.5	49.3	52.3	5.7	6.0	6.6	7.3	8.3	3.0	3.7	3.9	3.6	3.6	
Lake Charles	42.3	45.8	47.7	48.9	51.7	1.2	1.3	1.3	1.4	1.6	3.5	4.5	5.1	4.9	5.2	
Monroe	41.6	42.7	43.8	42.9	43.6	.5	.4	.3	.4	.4	4.1	4.1	4.0	3.8	3.4	
New Orleans	295.6	409.6	415.4	425.4	435.5	12.4	12.6	12.7	13.5	14.6	26.2	28.5	27.6	26.8	26.8	
Shreveport	110.9	117.5	121.2	124.4	127.5	3.8	3.9	3.9	4.5	4.6	7.4	8.1	8.2	8.2	7.9	
MAINE	343.7	354.8	361.5	356.9	373.8	(1)	(1)	(1)	(1)	(1)	18.6	19.4	19.3	18.6	21.8	
Lewiston—Auburn	29.3	29.6	29.9	29.5	31.4	(1)	(1)	(1)	(1)	(1)	1.3	1.4	1.3	1.2	1.2	
Portland	75.2	77.1	78.8	77.5	80.5	(1)	(1)	(1)	(1)	(1)	3.9	4.6	4.3	3.7	4.1	
MARYLAND	1,415.0	1,471.5	1,493.6	1,482.3	1,507.5	1.8	1.7	1.8	1.7	1.8	99.5	106.8	105.4	90.9	93.7	
Baltimore	819.5	842.7	854.5	841.2	853.9	(1)	(1)	(1)	(1)	(1)	45.8	49.1	50.0	42.9	44.6	
MASSACHUSETTS ⁹	2,260.9	2,345.7	2,362.6	2,272.4	2,305.1	(1)	(1)	(1)	(1)	(1)	107.2	107.9	96.8	75.8	71.6	
Boston ²	1,282.2	1,310.6	1,305.3	1,259.8	1,261.9	(1)	(1)	(1)	(1)	(1)	55.5	58.6	55.4	46.8	42.0	
Brockton ⁵	46.6	49.3	50.4	48.0	49.6	-	-	-	-	-	2.0	2.2	1.9	1.6	1.5	
Fall River ⁵	51.2	51.0	50.5	49.1	51.0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1.4	1.4	
Lawrence—Haverhill ⁵	93.6	98.5	95.8	96.1	94.3	(1)	(1)	(1)	(1)	(1)	3.2	3.3	2.9	2.6	2.4	
Lowell ⁵	58.3	61.1	61.1	59.4	61.5	(1)	(1)	(1)	(1)	(1)	3.3	3.2	2.7	2.1	2.2	
New Bedford ⁵	58.8	62.0	61.3	56.6	55.1	(1)	(1)	(1)	(1)	(1)	2.2	2.1	1.9	1.4	1.5	
Springfield—Chicopee—Holyoke ⁵	204.7	213.5	215.1	206.8	210.8	(1)	(1)	(1)	(1)	(1)	7.8	8.2	7.6	6.0	5.2	
Worcester ⁵	140.9	145.7	146.9	142.3	145.8	(1)	(1)	(1)	(1)	(1)	6.3	6.0	5.2	4.4	3.8	
MICHIGAN	3,114.9	3,282.3	3,278.2	3,136.1	3,264.3	12.1	12.9	13.4	13.8	12.7	128.6	132.7	125.8	106.3	105.3	
Ann Arbor	106.9	116.1	116.3	111.5	118.6	(1)	(1)	(1)	(1)	(1)	3.4	3.8	3.4	2.7	2.6	
Battle Creek	62.3	64.9	63.9	61.3	63.6	(1)	(1)	(1)	(1)	(1)	1.9	1.9	1.7	1.5	1.5	
Bay City	30.5	32.7	32.7	32.4	33.8	(1)	(1)	(1)	(1)	(1)	1.2	1.3	1.2	1.0	1.1	
Detroit	1,582.2	1,662.9	1,655.1	1,567.6	1,628.4	1.4	1.5	1.3	1.2	1.3	61.5	61.7	58.0	49.7	49.7	
Flint	173.5	183.1	170.1	166.9	180.3	(1)	(1)	(1)	(1)	(1)	5.9	5.9	4.8	4.1	4.6	
Grand Rapids	203.9	220.0	222.5	215.8	227.1	(1)	(1)	(1)	(1)	(1)	9.7	10.8	10.4	9.0	8.7	
Jackson	49.7	53.0	52.1	49.4	48.9	(1)	(1)	(1)	(1)	(1)	1.9	1.9	1.7	1.6	1.6	
Kalamazoo—Portage	89.3	94.4	97.4	96.6	100.1	(1)	(1)	(1)	(1)	(1)	3.7	4.1	4.3	4.0	3.9	

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	MANUFACTURING					TRANSPORTATION AND PUBLIC UTILITIES					WHOLESALE AND RETAIL TRADE				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
IDAHO	43.6	46.9	48.0	47.8	51.9	14.9	15.7	16.6	16.3	17.1	58.0	62.4	66.3	67.8	72.8
Boise City	5.4	5.8	5.9	6.0	6.4	3.3	3.5	3.8	3.8	3.9	12.9	14.0	15.0	16.0	17.7
ILLINOIS ⁵	1,279.8	1,347.3	1,338.2	1,199.8	1,198.5	281.2	284.7	288.8	272.6	274.5	942.9	972.5	1,009.6	999.0	1,033.2
Bloomington—Normal ⁵	6.2	7.4	7.4	6.9	6.8	3.0	3.0	3.0	2.9	3.0	9.3	9.8	10.2	10.4	10.6
Champaign—Urbana—Rantoul ⁵	4.8	5.7	6.1	6.3	6.3	2.5	2.5	2.6	2.4	2.5	12.9	13.8	14.2	13.9	14.3
Chicago—Gary ⁷	978.7	1,021.8	1,015.4	900.3	902.4	214.8	216.7	219.6	206.9	200.7	704.0	708.7	746.4	733.4	752.1
Chicago SMSA ⁸	877.3	916.8	908.5	807.0	804.5	200.7	202.6	204.8	190.7	186.7	665.5	679.0	704.2	686.0	709.9
Davenport—Rock Island—Moline ⁵	42.1	45.8	49.8	47.8	48.2	7.1	7.7	8.0	7.6	7.6	30.7	33.6	35.4	35.8	37.3
Decatur ⁵	19.6	21.2	21.4	19.4	19.0	4.3	4.4	4.2	3.9	4.1	9.6	10.2	10.4	9.9	9.8
Peoria ⁵	45.5	49.9	51.8	51.6	51.1	7.1	7.2	7.6	7.5	7.6	28.8	30.9	31.9	31.7	32.0
Rockford ⁵	52.0	56.1	55.5	49.2	50.2	3.8	4.3	4.6	4.4	4.5	21.0	22.2	22.6	22.2	22.5
Springfield ⁵	9.7	9.7	10.0	8.9	8.3	4.3	4.3	5.1	5.0	5.1	14.8	15.4	15.5	15.8	16.0
INDIANA	709.4	758.2	737.2	647.2	681.8	102.5	104.6	105.5	100.9	101.2	392.8	418.2	424.5	420.2	433.5
Anderson	(*)	(*)	(*)	24.2	25.2	(*)	(*)	(*)	1.4	1.4	(*)	(*)	(*)	9.0	9.0
Evansville	37.0	40.2	37.9	34.0	35.2	5.9	6.1	6.0	5.8	5.9	23.1	24.1	24.7	25.2	26.0
Fort Wayne	57.4	61.2	61.3	52.1	55.6	9.7	10.1	10.4	9.8	10.0	33.5	35.4	35.7	35.2	36.5
Gary—Hammond—East Chicago ⁸	101.4	107.5	106.9	96.3	97.5	14.1	14.3	14.8	14.3	14.0	38.5	41.0	42.2	42.7	43.0
Indianapolis	123.4	129.5	129.4	117.9	120.0	28.0	28.5	28.8	27.4	28.3	95.9	106.2	109.1	108.7	111.3
Lafayette—West Lafayette	(*)	(*)	(*)	10.6	10.6	(*)	(*)	(*)	1.5	1.5	(*)	(*)	(*)	9.6	10.1
Muncie	16.1	16.8	17.0	14.3	14.4	2.2	2.3	2.2	1.9	1.9	10.0	10.2	10.4	10.1	10.4
South Bend	31.8	33.4	33.4	30.1	31.5	4.8	5.4	5.3	4.9	4.9	21.9	23.3	23.9	23.3	23.7
Terre Haute	15.7	16.7	17.0	15.4	15.5	4.1	4.1	4.2	4.1	4.0	13.3	13.5	13.8	13.7	13.6
IOWA ²	223.4	240.2	248.7	229.6	231.3	53.2	54.8	55.8	54.7	54.8	225.1	238.0	242.2	245.0	252.4
Cedar Rapids ²	22.4	24.7	26.9	26.8	(*)	3.6	3.6	3.8	3.7	(*)	14.0	14.8	15.3	15.3	(*)
Des Moines ²	26.2	27.3	27.5	24.8	(*)	10.1	10.6	10.8	10.4	(*)	35.5	36.7	37.9	39.1	(*)
Dubuque ²	14.9	16.4	17.2	15.9	(*)	1.7	1.8	1.7	1.6	(*)	7.4	7.8	8.0	7.9	(*)
Sioux City ²	11.1	12.4	13.1	12.3	(*)	3.1	3.1	3.3	3.7	(*)	11.8	12.1	12.4	12.0	(*)
Waterloo—Cedar Falls ²	18.9	21.7	21.9	20.7	(*)	2.4	2.5	2.4	2.3	(*)	11.1	11.8	12.3	12.1	(*)
KANSAS	145.7	164.5	169.2	164.2	164.8	52.3	55.0	57.2	55.8	56.4	171.5	180.4	189.1	192.7	203.7
Topeka	10.2	10.8	10.9	10.6	9.7	7.3	7.4	7.5	7.1	7.1	15.5	16.2	16.4	16.5	17.1
Wichita	41.1	48.6	51.9	52.5	51.7	8.2	8.5	9.0	9.0	8.7	31.3	33.4	35.4	37.6	38.3
KENTUCKY	268.3	288.3	290.9	259.7	271.1	59.2	60.3	60.6	60.2	60.5	200.1	206.6	219.3	222.9	234.6
Lexington—Fayette	26.0	29.0	29.4	26.5	28.7	5.1	5.6	5.9	5.6	5.5	22.4	24.6	25.3	26.3	29.1
Louisville	112.6	119.4	120.6	105.0	103.8	23.4	23.8	22.8	21.8	22.2	74.1	77.6	80.0	77.4	79.3
LOUISIANA	183.2	190.5	192.5	186.2	191.6	94.4	96.0	100.2	95.0	100.5	253.6	264.9	273.3	286.1	298.9
Alexandria	5.8	5.8	6.1	5.4	5.7	2.1	2.4	2.4	2.3	2.4	5.8	10.4	10.4	10.3	10.5
Baton Rouge	20.6	21.6	22.6	22.6	23.5	7.0	7.3	7.5	7.8	8.4	26.8	29.2	30.8	32.7	33.9
Lafayette	2.7	2.8	2.8	2.7	3.0	4.0	4.1	3.9	4.0	4.1	10.3	11.1	11.7	12.5	13.8
Lake Charles	9.6	10.3	10.6	10.6	11.2	2.9	3.0	2.9	2.8	3.1	9.7	10.2	10.4	10.6	11.2
Monroe	6.8	7.3	7.3	6.8	7.3	2.3	2.4	2.4	2.4	2.3	11.1	11.4	11.2	11.0	11.5
New Orleans	55.7	55.9	53.3	51.3	52.4	42.9	43.1	46.0	44.8	44.7	95.6	100.3	101.3	106.5	111.0
Shreveport	22.9	24.9	24.8	24.5	25.4	9.5	9.9	10.6	10.1	9.6	27.9	29.4	29.6	30.8	32.1
MAINE	102.4	104.5	105.1	96.3	101.9	17.6	17.9	18.3	17.7	17.8	71.2	74.7	75.2	75.7	78.5
Leviston—Auburn	11.7	11.5	11.4	10.7	11.8	1.0	1.0	1.1	1.1	1.2	6.5	6.9	6.8	6.8	7.1
Portland	17.3	17.3	17.1	15.6	15.9	4.8	4.9	5.0	4.8	4.8	16.5	20.0	20.3	20.2	21.3
MARYLAND	248.8	257.0	254.5	230.7	231.6	78.6	80.2	80.9	78.3	78.1	331.3	345.3	349.3	355.3	362.3
Baltimore	178.2	181.7	179.1	161.8	161.6	54.1	55.0	55.7	54.1	54.4	185.0	189.9	192.1	192.4	194.8
MASSACHUSETTS ⁵	622.5	629.5	632.2	577.8	592.9	121.4	123.4	123.1	113.7	112.1	504.0	519.5	523.5	511.8	521.1
Boston ⁵	268.6	273.3	273.3	251.6	253.6	77.6	76.9	74.2	65.7	67.9	301.8	306.1	302.7	292.9	293.0
Brockton ⁵	12.5	12.8	13.0	11.1	11.5	3.7	3.9	3.8	3.5	3.6	12.7	13.2	14.0	13.7	13.9
Fall River ⁵	23.1	22.0	20.7	19.9	20.7	1.9	2.0	2.2	2.0	1.9	10.2	10.0	9.8	9.9	10.5
Lawrence—Haverhill ⁵	38.3	40.6	41.5	39.1	36.7	3.3	3.7	3.6	3.5	3.5	17.5	18.5	19.0	19.1	19.3
Lowell ⁵	20.7	22.8	22.2	19.9	20.7	2.4	2.3	2.4	2.9	3.0	12.2	12.6	12.8	13.0	13.5
New Bedford ⁵	24.9	26.6	25.8	22.5	23.5	3.3	3.2	2.9	2.6	2.6	11.5	12.0	11.9	11.2	11.8
Springfield—Chicopee—Holyoke ⁵	62.9	65.2	66.4	60.2	62.2	9.2	9.6	9.2	8.8	8.8	43.0	44.5	45.5	44.5	44.4
Worcester ⁵	45.0	47.8	47.5	42.3	43.6	7.6	7.5	7.5	6.7	7.0	29.4	29.7	30.9	30.8	31.7
MICHIGAN	1,054.4	1,177.2	1,114.0	983.7	1,056.7	146.7	152.4	151.9	143.5	144.6	624.9	653.6	664.4	656.4	674.7
Ann Arbor	36.5	39.3	35.6	31.8	34.4	2.1	2.6	2.8	2.4	2.1	13.4	14.8	15.9	15.7	16.5
Battle Creek	25.4	26.5	26.0	23.0	23.3	2.3	2.3	2.2	2.1	2.1	9.3	9.7	9.8	9.8	10.6
Bay City	9.6	10.2	9.9	9.3	10.3	2.0	2.1	2.1	2.0	1.9	7.9	8.4	8.3	8.4	8.5
Detroit	562.0	610.0	581.6	505.5	544.4	85.3	86.7	85.8	80.3	81.0	311.8	323.4	328.4	320.0	327.9
Flint	78.1	84.6	72.6	68.2	77.0	6.4	6.6	5.7	5.5	5.8	34.1	34.2	34.4	33.8	35.8
Grand Rapids	76.4	83.1	79.8	70.3	74.6	9.0	9.6	9.7	9.3	9.3	44.2	47.3	49.2	51.3	53.3
Jackson	17.7	19.3	18.3	16.1	14.9	4.4	4.6	4.5	4.3	4.3	9.1	9.4	9.6	9.5	9.7
Kalamazoo—Portage	33.6	35.7	35.2	31.8	33.6	3.0	3.1	3.2	3.1	3.2	16.1	17.2	17.6	18.4	18.6

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	FINANCE, INSURANCE, AND REAL ESTATE					SERVICES					GOVERNMENT				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
IDAHO	12.4	13.2	14.0	14.4	15.3	36.9	39.4	42.6	44.6	48.4	54.5	56.2	59.7	62.3	64.1
Boise City	4.1	4.5	4.7	4.8	5.1	8.8	9.4	9.8	9.8	11.1	12.4	13.8	14.8	15.6	15.7
ILLINOIS ⁵	242.0	247.5	254.1	254.7	257.3	702.2	729.6	762.6	780.0	804.2	654.3	666.5	680.5	714.5	715.0
Bloomington—Normal ⁵	5.3	5.8	6.3	6.4	6.5	6.8	7.0	7.1	7.4	7.1	5.0	9.5	9.7	10.2	10.6
Champaign—Urbana—Rantoul ⁵	1.6	1.7	1.8	1.9	2.0	8.4	8.8	9.3	9.0	9.3	26.7	28.6	29.1	29.9	28.3
Chicago—Gary ⁷	195.2	196.6	203.3	203.0	202.4	537.9	549.1	580.4	593.5	609.3	403.1	406.3	426.0	448.4	448.8
Chicago SMSA ⁵	188.9	186.0	196.1	194.8	194.6	512.9	533.3	551.6	572.0	578.8	376.2	385.8	397.6	418.7	418.4
Davenport—Rock Island—Moline ⁵	5.6	5.9	6.0	6.1	6.3	19.7	19.1	21.4	20.3	20.1	22.2	22.5	24.0	25.5	25.8
Decatur ⁵	2.0	2.1	2.1	2.1	2.2	7.9	8.0	8.8	9.1	9.1	5.2	4.5	4.8	5.0	5.1
Peoria ⁵	5.5	6.0	6.3	6.3	6.6	20.0	20.5	20.4	22.2	23.8	16.0	15.7	15.6	16.1	15.4
Rockford ⁵	3.1	3.3	3.4	3.4	3.3	14.2	14.7	15.2	15.5	15.9	10.0	10.0	10.6	11.6	11.8
Springfield ⁵	5.7	5.9	6.2	6.6	6.6	13.2	13.6	12.6	13.4	13.5	22.6	23.3	24.2	25.3	25.6
INDIANA	80.3	84.5	88.5	89.1	90.6	244.7	261.3	270.1	273.6	283.2	301.4	303.8	308.0	323.3	332.3
Anderson	(*)	(*)	(*)	1.5	1.5	(*)	(*)	(*)	5.5	6.1	(*)	(*)	(*)	5.3	5.7
Evansville	3.5	3.6	3.7	3.8	3.8	17.4	18.0	18.6	19.6	20.6	10.7	10.9	11.4	11.8	12.0
Fort Wayne	7.1	7.8	8.5	8.6	8.8	20.1	21.2	22.1	22.5	23.3	15.4	15.2	15.1	15.4	15.4
Gary—Hammond—East Chicago ⁸	6.2	6.5	7.1	7.5	7.8	24.9	26.8	28.6	25.5	30.5	26.9	28.6	28.4	29.7	30.4
Indianapolis	29.3	30.5	32.2	32.5	32.7	60.3	64.5	68.0	69.5	71.6	73.3	74.1	76.1	81.4	82.7
Lafayette—West Lafayette	(*)	(*)	(*)	2.4	2.5	(*)	(*)	(*)	6.9	7.3	(*)	(*)	(*)	17.0	17.2
Muncie	1.5	1.5	1.5	1.5	1.4	5.8	6.0	6.2	6.3	6.6	5.3	9.4	9.2	9.7	10.2
South Bend	5.1	5.5	5.8	5.6	5.3	18.9	19.9	20.4	21.0	20.9	11.4	11.4	11.4	11.6	11.8
Terre Haute	1.8	1.9	1.8	1.8	1.8	7.6	7.9	8.2	8.1	8.2	10.9	10.8	10.7	11.1	11.2
IOWA ²	44.0	45.5	46.8	47.2	47.5	161.2	165.2	170.7	176.5	182.9	180.2	183.6	185.1	190.8	195.3
Cedar Rapids ²	3.1	3.3	3.3	3.4	(*)	11.0	11.5	12.2	12.4	(*)	8.6	8.8	9.1	9.1	(*)
Des Moines ²	15.8	16.5	17.3	17.4	(*)	25.5	27.6	25.6	29.9	(*)	21.9	22.8	24.7	26.7	(*)
Dubuque ²	1.0	1.0	1.1	1.1	(*)	7.5	7.5	7.7	8.4	(*)	3.0	3.2	3.7	3.5	(*)
Sioux City ²	2.2	2.2	2.4	2.4	(*)	8.2	8.7	8.2	8.8	(*)	5.4	5.5	5.8	6.0	(*)
Waterloo—Cedar Falls ²	1.5	1.5	1.6	1.6	(*)	7.7	8.1	8.4	8.5	(*)	6.8	6.9	9.4	9.6	(*)
KANSAS	32.7	34.7	36.9	38.4	40.2	109.6	117.1	125.3	132.3	141.5	162.8	166.5	164.0	168.7	171.6
Topeka	4.6	4.7	5.0	5.3	5.6	11.6	12.2	12.5	13.5	14.0	18.4	18.8	19.2	20.2	20.6
Wichita	6.9	7.4	8.3	8.3	8.8	25.9	27.3	29.2	30.5	31.9	22.0	22.0	22.0	21.7	22.2
KENTUCKY	36.7	38.2	40.3	41.4	43.1	148.4	156.4	162.2	168.2	177.0	185.4	197.2	203.3	215.0	221.6
Lexington—Fayette	4.5	4.8	5.2	5.3	5.7	17.8	19.3	19.8	21.4	22.5	26.3	27.6	28.4	29.4	30.2
Louisville	17.7	18.6	18.9	19.1	19.4	52.8	56.3	59.2	61.2	64.6	46.9	48.1	48.6	50.2	51.9
LOUISIANA	50.6	56.0	59.3	60.4	61.2	182.1	196.0	204.8	213.9	221.0	227.9	233.2	241.6	248.7	252.7
Alexandria	2.4	2.6	2.6	2.5	2.5	6.8	7.3	7.5	7.8	8.3	11.3	11.3	11.7	12.0	12.3
Baton Rouge	7.3	7.9	8.3	9.0	9.3	17.7	19.6	21.2	22.7	24.7	33.2	37.5	42.1	45.7	46.8
Lafayette	1.5	1.5	1.5	1.7	1.8	6.6	7.4	8.2	9.2	9.4	7.7	7.7	7.9	8.3	8.3
Lake Charles	1.6	1.7	2.0	2.0	2.2	6.4	7.1	7.3	7.7	8.4	7.4	7.7	8.1	8.9	8.8
Monroe	2.8	2.9	2.9	2.9	3.0	6.0	6.2	6.3	6.3	6.7	8.0	8.0	9.4	9.3	9.0
New Orleans	24.3	25.4	26.2	26.3	26.7	76.4	81.2	83.5	87.5	90.9	62.1	62.6	64.8	68.7	68.4
Shreveport	5.2	5.4	5.4	5.8	5.8	18.0	19.3	20.2	20.7	21.5	16.2	16.6	18.4	19.8	20.6
MAINE	12.9	13.8	14.2	14.2	14.5	51.6	53.8	56.5	59.6	64.2	65.4	70.7	72.9	74.8	75.1
Lewiston—Auburn	1.0	1.2	1.3	1.3	1.3	5.2	5.1	5.3	5.6	5.9	2.6	2.5	2.7	2.8	2.9
Portland	5.8	6.0	6.1	6.1	6.4	12.5	13.0	14.0	14.7	15.7	11.4	11.3	12.0	12.4	12.3
MARYLAND	74.4	77.7	80.0	75.8	80.1	253.6	264.7	272.6	279.6	298.0	327.0	338.1	349.1	366.0	371.9
Baltimore	45.1	46.5	47.9	48.5	48.8	144.3	149.1	152.6	154.8	159.1	167.0	171.4	176.9	186.7	190.6
MASSACHUSETTS ⁵	131.6	136.6	138.7	135.1	135.2	451.1	477.4	494.0	489.1	509.7	343.1	351.6	354.3	365.1	366.5
Boston ⁵	95.2	97.1	96.4	92.8	92.9	289.4	308.6	317.6	312.6	319.6	190.1	190.0	189.7	193.4	192.9
Brockton ⁵	1.5	1.6	1.7	1.6	1.7	6.9	7.3	7.4	7.5	7.9	7.3	8.3	8.6	9.0	9.5
Fall River ⁵	(1)	(1)	(1)	2.2	2.3	10.9	11.4	11.9	8.1	8.5	5.1	5.6	5.9	5.6	5.7
Lawrence—Haverhill ⁵	2.9	3.1	3.3	3.3	3.5	14.1	14.8	15.0	13.8	13.7	14.3	14.5	14.5	14.7	15.2
Lowell ⁵	1.6	1.9	1.9	1.9	1.9	9.3	9.2	9.4	9.5	9.7	8.8	9.1	9.7	10.1	10.5
New Bedford ⁵	(1)	(1)	(1)	1.7	1.7	10.3	11.0	11.3	9.6	9.8	6.6	7.1	7.5	7.6	7.8
Springfield—Chicopee—Holyoke ⁵	10.0	10.4	11.0	10.7	10.6	33.3	35.1	36.2	35.4	37.2	38.5	40.1	39.2	41.2	42.4
Worcester ⁵	8.2	8.3	8.2	8.0	8.0	22.9	24.4	25.4	26.0	27.4	21.5	22.0	22.2	24.1	24.3
MICHIGAN	127.4	130.2	134.2	134.0	136.5	455.5	489.0	510.1	515.3	539.3	526.6	534.3	562.5	583.1	594.0
Ann Arbor	2.5	2.8	3.2	3.2	3.3	11.5	14.3	15.8	15.4	17.1	37.5	38.5	39.6	40.3	40.6
Battle Creek	3.5	3.6	3.6	3.5	3.5	9.0	9.5	9.6	10.0	10.7	10.9	11.4	11.0	11.4	11.9
Bay City .....	.7	.8	.9	.9	1.0	4.6	5.2	5.6	5.8	5.9	4.5	4.7	4.7	5.0	5.1
Detroit	73.8	75.4	77.8	77.5	79.3	254.1	273.3	282.8	282.4	293.6	229.8	230.3	243.5	250.8	251.1
Flint	4.8	5.2	5.1	5.0	5.2	20.3	22.1	22.6	23.4	23.9	23.9	24.5	24.7	26.9	28.0
Grand Rapids	7.8	7.9	8.0	8.4	8.3	35.1	37.3	38.8	39.1	41.8	21.7	24.0	26.5	28.3	29.0
Jackson	1.5	1.5	1.5	1.5	1.5	7.2	8.0	8.4	8.3	8.4	7.9	8.3	8.1	8.1	8.5
Kalamazoo—Portage	2.8	3.1	3.1	3.2	3.4	12.6	13.5	14.5	16.2	17.0	17.5	17.7	19.0	19.7	20.2

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	TOTAL					MINING					CONTRACT CONSTRUCTION				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
MICHIGAN—Continued															
Lansing—East Lansing	158.9	165.8	164.6	163.5	170.1	(1)	(1)	(1)	(1)	(1)	5.7	6.2	5.7	4.9	4.9
Muskegon-Norton Shores-Musk. Hgts.	54.2	55.8	57.8	55.5	57.9	(1)	(1)	(1)	(1)	(1)	2.1	2.2	2.2	2.0	2.2
Saginaw	78.4	81.5	80.5	77.0	81.4	(1)	(1)	(1)	(1)	(1)	3.1	2.7	2.6	2.3	2.3
MINNESOTA ⁴	1,358.6	1,437.6	1,482.8	1,474.2	1,514.3	13.2	14.0	14.2	14.4	14.8	62.1	66.7	65.8	62.6	65.1
Duluth—Superior ⁵	55.3	56.2	56.6	56.9	56.4	(1)	(1)	(1)	(1)	(1)	2.6	2.5	2.1	2.0	2.2
Minneapolis—St. Paul ⁶	625.0	675.4	693.6	692.7	707.1	(1)	(1)	(1)	(1)	(1)	36.9	39.3	37.6	33.8	33.4
MISSISSIPPI	649.3	693.2	710.8	692.3	727.4	5.8	5.7	6.0	6.5	7.0	35.6	41.8	43.8	37.5	39.7
Jackson	104.7	113.4	117.7	117.9	122.1	.7	.8	.8	.5	1.0	6.8	8.3	8.1	6.6	6.8
MISSOURI ⁷	1,699.3	1,770.5	1,790.5	1,718.5	1,747.4	8.3	8.1	8.6	8.5	8.2	72.0	75.8	72.8	67.4	68.1
Kansas City ²	526.3	549.6	554.3	540.0	545.9	.6	.6	.7	.6	.6	27.5	26.9	25.2	24.3	23.9
St. Joseph ⁸	34.2	34.5	34.6	34.5	35.8	(3)	(3)	(3)	(3)	(3)	1.9	1.9	1.8	1.6	2.0
St. Louis ⁹	903.4	925.6	925.1	858.6	905.8	2.9	2.7	2.7	2.6	2.6	36.7	39.0	34.9	36.9	38.8
Springfield ³	65.8	70.5	72.0	69.5	72.1	.2	.2	.2	.2	.2	3.4	3.5	3.3	2.7	2.7
MONTANA	215.3	224.5	234.0	238.1	245.2	6.3	6.5	7.1	6.4	5.9	11.4	13.0	13.5	12.1	13.5
Billings	32.1	34.1	36.3	38.7	39.2	(1)	(1)	(1)	(1)	(1)	2.0	1.9	2.2	2.3	2.3
Great Falls	25.9	26.3	26.7	26.6	26.3	(1)	(1)	(1)	(1)	(1)	1.6	1.7	1.5	1.6	1.7
NEBRASKA	517.0	541.3	562.1	557.8	573.9	1.6	1.6	1.7	1.6	1.7	26.9	29.2	29.8	28.1	29.1
Lincoln	79.2	83.2	86.6	87.8	89.0	-	-	-	-	-	3.8	4.5	4.8	4.5	4.3
Omaha	221.8	231.1	236.0	233.0	238.5	(3)	(3)	(3)	(3)	(3)	11.9	12.9	12.1	10.8	11.2
NEVADA	223.4	244.6	256.1	263.1	275.8	3.5	3.7	4.3	4.4	3.5	14.6	18.7	15.7	12.6	14.8
Las Vegas	120.1	132.3	135.3	143.5	153.6	.1	.1	.2	.3	.2	7.9	10.8	9.0	7.0	8.1
Reno	64.1	69.4	71.4	74.0	80.0	.2	.3	.3	.4	.4	4.7	5.4	4.3	3.8	4.6
NEW HAMPSHIRE ⁹	279.7	299.2	300.3	292.6	312.0	.4	.4	.4	.4	.4	15.4	17.5	15.6	12.9	14.0
Manchester ^{9,10}	51.4	59.3	58.7	56.3	60.3	(3)	(3)	(3)	(3)	(3)	2.5	3.2	2.8	2.4	2.7
Nashua	(*)	41.8	42.9	42.9	45.8	(*)	(3)	(3)	(3)	(3)	(*)	1.7	1.5	1.2	1.5
NEW JERSEY	2,672.5	2,759.7	2,783.0	2,700.2	2,743.4	3.2	3.3	3.2	2.8	2.7	121.6	126.8	118.7	95.2	94.6
Atlantic City	64.0	65.7	66.0	64.2	65.6	-	-	-	-	-	3.6	3.8	3.4	2.8	3.0
Camden ¹¹	276.2	286.8	292.6	284.6	292.5	.1	.2	.2	.1	.1	16.0	17.2	17.2	12.9	12.6
Hackensack ¹²	335.0	347.9	352.7	345.0	354.8	(1)	(1)	(1)	(1)	(1)	15.2	15.6	15.3	13.0	12.3
Jersey City ¹³	247.8	245.6	244.0	233.4	231.5	-	-	-	-	-	5.4	5.4	4.7	3.9	4.3
Long Branch—Asbury Park	128.3	133.3	136.2	136.0	135.5	(1)	(1)	(1)	(1)	(1)	7.5	7.8	7.0	5.4	5.7
New Brunswick—Perth Amboy-Sayreville ¹⁴ ..	228.5	242.4	245.6	241.9	242.5	(1)	(1)	(1)	(1)	(1)	5.8	9.7	10.1	9.3	8.5
Newark ¹⁵	857.5	873.9	865.7	845.5	857.0	1.2	1.1	1.0	.9	.9	36.0	37.1	34.3	30.3	29.0
Paterson—Clifton—Passaic ¹⁶	185.9	187.4	184.1	175.8	178.0	(1)	(1)	(1)	(1)	(1)	7.4	7.8	6.9	5.2	5.2
Trenton	142.9	148.0	148.7	145.7	145.5	(1)	(1)	(1)	(1)	(1)	3.5	3.7	3.3	2.7	2.8
Vineland—Millville—Bridgeton	51.3	53.0	52.1	50.1	51.8	(1)	(1)	(1)	(1)	(1)	2.0	2.2	1.9	1.5	1.4
NEW MEXICO	327.5	346.0	360.2	370.2	389.1	16.2	16.5	18.7	20.3	21.3	25.0	25.9	25.9	25.2	25.0
Albuquerque	131.6	139.9	144.0	146.7	155.5	(1)	(1)	(1)	(1)	(1)	12.6	12.8	11.0	10.1	9.8
NEW YORK	7,039.2	7,135.1	7,081.0	6,834.1	6,770.7	7.0	7.2	7.4	7.4	7.1	272.3	283.0	261.2	211.7	187.6
Albany-Schenectady-Troy	305.1	313.2	316.0	309.7	311.3	(1)	(1)	(1)	(1)	(1)	17.0	17.1	14.2	11.6	10.5
Binghamton	103.3	106.2	108.0	105.8	107.1	(1)	(1)	(1)	(1)	(1)	5.1	5.3	4.4	4.3	4.0
Buffalo	485.3	501.9	503.1	485.2	489.5	(1)	(1)	(1)	(1)	(1)	18.3	20.0	18.8	17.0	17.5
Elmira	38.0	39.3	39.2	37.4	37.4	(1)	(1)	(1)	(1)	(1)	2.2	2.4	2.1	1.6	1.6
Monroe County ¹⁷	306.5	317.4	326.2	315.5	316.7	(1)	(1)	(1)	(1)	(1)	13.9	14.0	13.0	10.6	9.0
Nassau—Suffolk ¹⁸	759.0	793.6	803.3	751.6	797.9	(1)	(1)	(1)	(1)	(1)	43.3	47.3	42.5	34.6	29.9
New York—Northwestern New Jersey	6,563.9	6,628.3	6,547.2	6,311.0	6,252.9	3.8	3.6	3.1	3.3	3.4	246.0	255.1	237.5	193.9	170.5
New York and Nassau—Suffolk ¹⁹	4,709.3	4,730.9	4,647.0	4,469.0	4,389.1	2.2	2.0	2.0	2.0	2.0	172.2	179.5	166.2	132.2	111.1
New York SMSA ¹⁴	3,950.3	3,937.4	3,842.7	3,677.4	3,591.2	2.1	1.9	1.9	1.9	1.9	128.9	132.2	123.6	97.6	81.3
New York City ¹⁸	3,566.6	3,542.6	3,448.5	3,287.8	3,203.0	1.5	1.4	1.4	1.6	1.7	105.0	107.6	101.9	80.0	66.5
Poughkeepsie	79.7	84.5	87.8	87.3	85.9	(1)	(1)	(1)	(1)	(1)	3.1	3.4	3.4	3.0	2.6
Rochester	371.2	385.2	396.3	385.0	387.0	(1)	(1)	(1)	(1)	(1)	16.0	16.4	15.7	12.8	10.9
Rockland County ¹⁶	68.9	71.5	72.5	72.7	72.3	(1)	(1)	(1)	(1)	(1)	4.8	4.5	3.1	2.1	1.8
Syracuse	232.6	239.6	245.1	234.7	237.4	(1)	(1)	(1)	(1)	(1)	11.9	12.5	12.4	9.9	9.3
Utica—Rome	110.3	112.5	113.4	110.6	110.5	(1)	(1)	(1)	(1)	(1)	3.6	3.7	3.5	3.0	3.1
Westchester County ¹⁸	305.3	313.4	312.3	306.4	305.0	(1)	(1)	(1)	(1)	(1)	18.2	19.1	17.6	14.7	12.3
NORTH CAROLINA	1,911.9	2,018.1	2,044.4	1,966.1	2,046.8	4.1	4.3	4.6	4.2	4.6	120.0	127.8	122.7	105.9	104.0
Asheville	-	63.9	64.2	59.4	61.6	-	(1)	(1)	(1)	(1)	-	3.7	3.6	3.0	3.2
Charlotte—Gastonia	265.4	281.2	283.4	269.4	277.9	(1)	(1)	(1)	(1)	(1)	17.1	18.9	18.8	15.8	14.4
Greensboro—Winston-Salem—High Pt	322.4	336.9	341.5	327.3	340.3	(1)	(1)	(1)	(1)	(1)	16.9	18.4	17.7	14.7	14.9
Raleigh—Durham	188.3	203.1	212.3	211.0	217.0	(1)	(1)	(1)	(1)	(1)	13.9	14.1	13.8	11.4	10.8
NORTH DAKOTA ¹⁶	176.4	183.7	193.8	203.6	214.6	1.6	1.6	1.8	2.1	2.5	11.9	11.5	12.7	13.9	15.8
Fargo—Moorhead ²	44.9	47.9	50.2	52.6	55.8	.1	.1	(3)	(3)	(3)	3.0	3.2	3.2	3.4	3.8

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	MANUFACTURING					TRANSPORTATION AND PUBLIC UTILITIES					WHOLESALE AND RETAIL TRADE				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
MICHIGAN—Continued															
Lansing—East Lansing	39.7	43.1	37.7	34.2	37.7	3.8	3.9	4.0	4.0	4.1	27.8	29.0	29.2	30.2	31.6
Muskegon-Norton Shores-Musk. Hgts.	22.8	23.3	23.9	21.2	21.8	2.7	2.8	2.9	2.9	2.9	9.5	9.7	9.9	9.8	10.6
Saginaw	33.1	35.0	32.6	29.0	32.2	3.7	3.8	4.0	3.9	4.0	15.5	16.2	16.2	15.6	16.3
MINNESOTA⁵	310.8	331.8	341.3	312.9	317.5	86.8	90.8	91.5	85.1	90.1	332.1	351.7	364.2	369.8	383.5
Duluth—Superior ⁷	8.4	8.1	7.7	7.7	7.7	6.9	6.7	6.8	6.6	6.2	13.8	14.4	14.7	15.2	14.9
Minneapolis—St. Paul ⁸	203.2	216.2	223.1	202.6	205.7	56.2	59.3	60.0	57.9	57.6	203.5	215.5	221.8	223.1	229.2
MISSISSIPPI	207.7	221.0	220.0	201.8	218.5	32.4	34.9	35.9	34.3	34.6	122.0	131.6	134.8	134.3	141.4
Jackson	15.9	17.7	18.4	17.1	18.2	7.1	7.6	7.5	7.4	7.5	24.1	25.8	27.2	27.4	28.0
MISSOURI¹	438.3	457.0	450.0	395.8	416.4	123.7	125.4	127.3	121.7	123.2	391.9	407.8	418.5	406.4	409.2
Kansas City ²	118.5	122.1	117.0	106.2	110.4	50.3	51.2	52.1	49.7	50.2	131.7	138.5	141.5	138.9	141.6
St. Joseph ³	9.4	9.1	9.3	9.0	9.6	2.1	2.2	2.3	2.3	2.4	8.6	8.7	8.6	8.4	8.7
St. Louis ⁴	260.3	266.7	259.3	234.4	242.6	64.8	64.2	65.5	62.1	63.5	197.6	202.7	210.3	205.6	204.4
Springfield ²	18.2	20.2	19.2	17.1	17.6	4.8	4.9	5.3	5.0	5.1	16.8	18.2	19.0	18.6	19.3
MONTANA	24.5	24.8	24.5	22.1	23.6	17.9	18.7	19.5	15.0	19.2	53.5	56.3	58.8	59.1	63.0
Billings	3.4	3.7	3.8	3.2	3.5	3.2	3.6	3.5	3.5	3.0	9.7	10.1	11.7	13.0	13.4
Great Falls	2.3	1.7	1.7	1.8	1.7	2.1	2.3	2.1	1.9	1.8	7.3	7.6	8.0	8.4	8.1
NEBRASKA	25.0	30.5	33.4	35.4	37.9	36.9	38.5	39.8	36.7	41.0	133.6	138.8	143.9	144.7	152.1
Lincoln	11.9	12.6	13.4	12.8	12.0	5.3	5.5	5.6	5.5	5.9	16.8	17.6	18.3	18.6	19.3
Omaha	38.6	39.5	38.5	32.7	33.5	20.0	20.5	21.9	21.2	21.6	56.0	59.2	60.6	60.4	61.0
NEVADA	9.8	11.8	12.3	12.2	12.9	14.6	16.0	16.7	17.0	17.7	43.5	47.7	50.0	51.5	56.5
Las Vegas	4.4	5.0	5.1	5.0	5.2	7.5	8.3	8.7	9.1	9.8	22.8	25.3	26.6	27.8	30.9
Reno	3.7	4.6	4.8	4.9	5.5	5.1	5.6	5.7	5.6	5.8	14.3	15.5	16.3	16.4	17.9
NEW HAMPSHIRE⁹	51.1	56.0	54.2	55.1	54.3	12.4	12.5	12.6	12.0	12.1	56.5	62.6	64.3	64.2	67.7
Manchester ^{9,10}	17.2	19.5	18.7	15.9	17.6	3.6	3.8	3.8	3.7	3.8	11.4	13.3	13.4	13.2	14.2
Nashua	(*)	19.4	19.8	19.5	21.1	(*)	1.8	1.8	1.8	1.8	(*)	8.2	8.6	8.6	9.2
NEW JERSEY	823.3	842.6	825.9	747.4	753.3	181.2	186.4	185.8	174.3	175.9	577.3	596.9	603.5	599.3	618.3
Atlantic City	9.6	10.1	10.0	8.5	8.4	3.5	3.7	3.5	3.3	3.3	17.9	17.8	17.8	17.4	17.7
Camden ¹¹	70.2	70.6	70.2	64.2	64.6	15.1	15.7	15.6	14.9	15.0	70.1	72.6	74.4	74.5	78.2
Hackensack ¹²	108.8	112.3	110.9	102.7	105.1	18.9	19.2	18.2	18.1	18.2	91.0	95.0	97.6	100.4	104.1
Jersey City ¹³	56.8	93.9	87.1	76.7	74.0	33.5	32.6	33.1	29.2	29.4	43.2	43.5	43.9	43.2	42.6
Long Branch—Asbury Park	22.4	23.5	23.3	20.7	21.5	5.9	5.4	5.7	5.7	5.6	30.4	32.7	33.6	33.6	35.2
New Bruns.—Parth Amboy—Sayreville ¹²	66.6	92.5	92.8	83.0	81.3	15.1	16.8	17.5	16.5	15.7	47.8	50.7	52.7	52.7	53.5
Newark ¹²	255.0	259.6	256.6	234.7	237.7	65.2	67.1	65.2	61.8	64.1	169.9	170.8	167.7	164.5	166.3
Paterson—Clifton—Passaic ¹²	75.7	74.8	69.9	63.6	64.5	8.1	8.0	7.5	6.9	6.9	40.2	40.7	41.8	40.4	40.1
Trenton	39.3	40.9	39.4	35.8	37.0	6.0	5.8	5.5	5.3	5.2	21.8	22.5	22.6	21.9	22.9
Vineland—Millville—Bridgeton	21.2	21.7	20.0	18.0	19.0	3.3	3.3	3.5	3.1	3.1	8.2	8.4	8.1	7.9	8.0
NEW MEXICO	26.1	28.9	29.6	28.6	30.1	21.2	22.5	23.2	23.0	23.3	70.6	76.8	80.2	83.6	91.0
Albuquerque	13.3	14.8	15.5	15.3	16.2	7.6	8.1	8.6	8.3	8.5	30.7	33.7	35.0	36.5	40.4
NEW YORK	1,602.2	1,619.1	1,574.6	1,421.9	1,440.1	472.8	470.2	456.8	434.0	427.2	1,445.0	1,459.7	1,441.7	1,403.8	1,404.2
Albany-Schenectady-Troy	67.1	66.8	67.1	60.7	62.1	16.7	16.6	16.1	15.0	14.8	60.8	62.7	61.8	60.3	61.2
Binghamton	38.5	39.7	41.0	38.2	38.7	4.6	4.7	4.7	4.3	4.2	18.6	19.1	19.3	19.2	19.4
Buffalo	151.5	159.3	156.3	139.9	142.3	29.6	30.7	29.6	27.2	26.8	104.3	107.4	108.9	106.0	107.7
Elmira	13.8	14.1	13.5	12.4	12.4	1.5	1.5	1.6	1.4	1.3	7.8	8.2	8.3	7.8	8.2
Monroe County ¹³	123.8	130.8	134.8	125.7	126.9	11.0	11.0	10.8	9.9	10.0	55.6	56.3	57.9	58.0	58.9
Nassau-Suffolk ¹⁴	144.9	152.7	152.1	141.9	144.1	34.9	35.2	35.0	34.8	34.6	204.3	210.8	210.8	207.9	210.8
New York—Northeastern New Jersey	1,527.4	1,523.1	1,454.1	1,316.5	1,329.7	496.3	495.5	482.1	458.8	453.8	1,378.3	1,386.3	1,368.7	1,334.1	1,334.4
New York and Nassau-Suffolk ¹²	904.5	890.0	836.8	755.9	767.2	355.6	351.8	340.4	326.2	319.6	986.2	985.6	965.0	933.1	927.9
New York SMSA ¹⁴	759.6	737.2	684.7	614.0	623.0	320.7	316.7	305.6	291.4	285.1	781.9	774.8	754.1	725.2	717.2
New York City ¹⁵	675.8	652.8	602.1	536.9	544.2	297.8	293.6	282.5	265.5	263.8	694.9	685.5	664.8	635.4	626.8
Poughkeepsie	27.3	28.6	30.2	28.6	28.0	2.8	2.8	2.8	2.9	2.9	13.3	13.9	14.5	14.8	14.6
Rochester	142.9	150.6	154.7	143.8	145.5	13.8	14.0	13.7	12.6	12.7	68.9	70.6	72.8	73.5	74.6
Rockland County ¹⁵	14.4	14.5	14.4	13.6	14.2	3.6	3.8	3.8	3.7	3.4	14.2	14.5	14.9	15.6	15.6
Syracuse	59.2	62.1	62.5	53.5	55.0	13.8	14.1	14.3	13.6	13.6	50.9	52.3	53.1	52.6	53.5
Utica—Rome	34.1	35.0	35.2	31.2	30.2	4.8	4.7	4.5	4.0	3.9	19.7	20.3	20.3	20.2	20.6
Westchester County ¹⁵	68.4	68.9	67.1	62.4	63.5	18.7	18.7	18.2	17.7	17.2	70.6	72.6	72.0	71.5	72.0
NORTH CAROLINA	756.8	796.9	789.4	714.2	757.6	99.1	105.4	105.2	98.3	96.5	347.6	374.0	379.7	377.8	396.2
Asheville	22.4	24.5	24.1	19.3	19.9	-	3.3	3.3	3.2	3.3	-	12.2	12.2	12.1	12.6
Charlotte—Gastonia	65.5	88.7	85.8	76.5	79.5	26.2	27.3	27.2	25.1	25.6	61.2	65.8	66.1	64.0	67.0
Greensboro—Winston-Salem—High Pt.	139.1	143.3	142.5	131.1	136.7	19.8	21.0	20.6	15.1	19.4	59.0	63.0	64.0	63.6	67.6
Raleigh—Durham	33.0	35.9	36.9	34.4	35.6	9.7	10.3	10.6	10.1	9.8	36.4	39.8	41.0	41.4	42.8
NORTH DAKOTA¹⁶	10.9	12.6	14.8	16.2	16.1	12.3	12.6	12.9	12.7	13.1	47.8	50.3	52.6	56.6	60.7
Fargo—Moorhead ²	3.3	3.7	4.3	4.7	5.1	3.1	3.4	3.5	3.5	3.5	13.4	14.3	15.2	16.1	17.1

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued
(In thousands)

STATE AND AREA	FINANCE, INSURANCE, AND REAL ESTATE					SERVICES					GOVERNMENT				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
MICHIGAN—Continued															
Lansing—East Lansing	7.0	7.5	7.9	7.8	7.9	22.4	22.2	22.7	22.9	23.4	52.5	53.9	57.4	56.5	60.5
Muskegon-Norton Shores-Musk. Hgts.	1.4	1.5	1.6	1.5	1.6	7.5	7.9	8.2	8.4	8.6	8.2	8.4	9.1	10.1	10.2
Saginaw	3.1	3.2	3.4	3.5	3.6	10.6	11.1	11.5	11.7	11.7	9.3	9.5	10.2	11.0	11.3
MINNESOTA⁵															
Duluth—Superior ⁵	1.9	2.0	2.0	2.0	2.0	10.9	11.2	11.5	11.5	11.6	10.9	11.3	11.7	11.8	11.7
Minneapolis—St. Paul ⁵	51.2	54.1	54.9	55.9	57.3	152.7	162.6	170.5	176.1	182.5	121.3	128.4	135.7	142.3	141.4
MISSISSIPPI															
Jackson	23.6	25.8	27.3	28.0	28.7	82.7	87.6	92.6	96.5	101.7	135.4	145.0	150.4	153.5	155.8
	8.0	8.9	9.2	9.4	9.4	18.9	20.3	21.3	22.4	23.7	23.2	24.2	25.2	26.8	27.5
MISSOURI²															
Kansas City ²	93.0	96.1	95.7	93.2	93.5	274.9	293.8	304.5	305.7	313.2	297.2	306.5	312.7	315.8	315.6
St. Joseph ²	34.1	36.0	36.7	36.3	36.5	86.9	95.4	99.9	101.3	104.8	76.7	78.5	81.2	82.7	81.9
St. Louis ²	1.4	1.6	1.6	1.7	1.6	5.4	5.5	5.6	6.0	6.0	5.4	5.5	5.4	5.5	5.5
Springfield ²	47.2	48.1	48.9	48.4	48.7	162.0	169.9	175.2	176.2	174.8	131.9	132.1	132.3	132.4	130.4
	2.6	2.6	2.6	2.6	2.8	10.8	11.7	12.7	13.2	13.9	9.0	9.2	9.7	10.1	10.5
MONTANA															
Billings	9.0	9.4	10.0	10.2	10.6	37.3	40.4	42.4	44.3	47.7	55.4	55.4	58.2	64.9	65.7
Great Falls	1.6	1.7	1.6	1.8	1.8	6.5	7.3	6.9	7.6	7.6	5.7	5.8	6.6	7.3	7.6
	1.7	1.7	1.8	1.7	1.6	5.2	5.6	5.8	5.3	5.4	5.7	5.7	5.8	5.9	6.0
NEBRASKA															
Lincoln	30.6	32.3	33.5	34.4	35.7	88.0	93.4	98.5	100.2	105.0	114.3	116.9	121.4	124.7	121.5
Omaha	5.4	5.6	5.8	5.9	6.1	12.8	13.8	14.6	15.0	15.4	23.2	23.7	24.0	25.5	26.0
	17.2	17.9	18.7	19.2	19.6	42.4	44.4	47.4	49.5	50.8	35.6	36.3	36.8	39.8	40.8
NEVADA															
Las Vegas	10.5	10.7	10.8	10.6	11.3	87.2	94.6	103.3	109.2	116.2	39.7	41.4	43.0	45.6	46.9
Reno	5.8	5.7	5.7	5.6	6.0	54.3	59.2	65.5	68.9	72.9	17.3	17.9	18.5	19.8	20.5
	3.7	3.9	4.0	3.9	4.3	21.4	22.6	23.7	25.8	27.7	11.0	11.5	12.3	13.2	13.8
NEW HAMPSHIRE⁹															
Manchester ^{9,10}	12.4	13.4	14.1	14.1	15.0	50.3	52.0	53.5	56.1	58.6	41.2	43.4	45.6	47.8	49.9
Nashua	3.3	3.7	3.8	3.9	4.2	8.9	9.8	10.1	10.4	11.0	4.5	6.0	6.1	6.8	6.8
	(*)	1.3	1.4	1.4	1.5	(*)	5.3	5.6	6.0	6.3	(*)	4.1	4.2	4.4	4.4
NEW JERSEY															
Atlantic City	124.6	131.0	136.5	135.2	138.2	436.0	455.7	465.5	472.1	490.1	405.3	417.1	439.5	470.0	470.4
Camden ¹¹	3.3	3.6	4.0	4.1	4.4	14.7	15.2	15.0	14.5	15.1	11.6	11.6	12.3	13.3	13.7
Hackensack ¹²	11.2	12.9	13.7	13.3	13.8	45.1	48.5	50.3	51.1	53.3	48.5	49.2	51.0	53.6	54.9
Jersey City ¹²	12.9	13.7	14.0	13.5	13.9	52.8	56.1	55.6	59.3	62.4	35.5	36.0	36.9	38.2	38.7
Long Branch—Asbury Park	8.1	8.2	8.4	8.5	8.6	29.2	28.7	28.7	29.1	29.1	31.5	33.4	38.2	43.0	45.6
New Bruns.—Perth Amboy-Sayreville ¹²	4.9	5.3	5.4	5.4	5.5	28.1	29.3	30.0	32.5	33.9	29.2	29.1	31.1	32.7	32.2
Newark ¹²	5.0	5.8	6.8	6.9	8.4	26.3	28.3	28.8	30.4	32.2	37.9	38.7	40.9	43.2	43.0
Paterson—Clifton—Passaic ¹²	57.7	58.9	59.7	59.1	59.1	149.8	154.5	156.5	156.2	161.6	122.8	124.7	128.7	138.4	138.5
Trenton	7.9	8.2	8.6	8.4	8.7	26.6	27.1	27.5	27.3	28.0	19.9	20.7	21.5	24.1	24.7
Vineland—Millville—Bridgeton	5.4	5.8	6.1	6.2	5.8	31.6	33.2	34.3	35.0	36.4	35.3	36.2	37.5	38.9	39.5
	2.2	2.4	2.5	2.5	2.4	6.3	6.6	7.0	7.0	7.5	8.0	8.4	9.1	10.2	10.5
NEW MEXICO															
Albuquerque	13.9	15.0	15.9	16.3	17.0	58.6	61.0	64.0	68.3	73.8	96.0	99.5	102.5	104.8	107.7
	7.2	7.9	8.3	8.4	8.5	29.3	30.4	31.7	33.0	35.6	31.0	32.3	34.1	35.2	36.4
NEW YORK															
Albany-Schenectady-Troy	591.3	586.3	581.7	577.3	575.1	1,404.8	1,441.0	1,455.5	1,450.7	1,465.4	1,243.9	1,268.6	1,301.9	1,327.2	1,264.0
Binghamton	12.8	13.3	13.6	13.6	13.8	53.0	55.4	56.7	58.3	60.2	77.6	81.2	86.5	90.1	88.7
Buffalo	3.2	3.2	3.4	3.5	3.5	13.5	13.7	12.5	14.0	15.0	19.9	20.4	21.3	22.4	22.3
Elmira	15.6	19.9	20.1	20.0	20.5	81.7	84.2	85.5	87.2	88.6	80.3	80.4	83.5	87.9	86.1
Monroe County ¹³	1.0	1.0	1.0	1.0	1.0	5.8	6.2	6.5	6.4	6.3	5.9	5.9	6.1	6.7	6.6
Nassau-Suffolk ¹⁴	11.9	12.4	13.0	13.5	13.9	54.7	56.6	55.4	58.6	59.6	35.7	36.3	37.4	39.2	38.4
New York—Northwestern New Jersey	38.7	40.7	42.9	42.5	43.8	144.2	152.6	158.9	163.8	169.4	148.7	154.3	161.0	166.1	165.3
New York—Northeastern New Jersey	593.5	588.2	584.4	577.8	577.1	1,289.6	1,323.2	1,334.6	1,326.9	1,340.7	1,029.0	1,053.3	1,082.7	1,099.8	1,043.3
New York and Nassau—Suffolk ¹²	501.9	493.5	486.9	481.5	478.5	1,005.4	1,028.8	1,033.0	1,025.2	1,027.8	781.4	759.8	816.6	813.0	754.9
New York SMSA ¹⁴	463.2	452.7	444.1	438.9	434.7	861.3	876.3	874.2	861.5	858.5	632.7	645.5	655.6	646.9	589.6
New York City ¹⁵	445.6	434.6	425.2	420.1	416.1	780.2	791.2	786.6	771.5	766.9	565.7	575.9	583.7	572.4	517.0
Poughkeepsie	2.3	2.4	2.5	2.4	2.5	13.0	14.0	14.4	14.9	15.2	17.9	19.3	19.9	20.7	20.2
Rochester	13.2	13.9	14.6	15.0	15.4	63.6	65.8	69.0	68.6	69.9	52.9	54.0	55.5	58.7	58.0
Rockland County ¹⁵	2.1	2.2	2.3	2.3	2.2	12.6	14.0	15.1	15.5	15.7	17.2	18.0	18.7	19.8	19.4
Syracuse	12.9	13.6	14.2	14.1	14.4	41.6	42.6	44.4	44.0	45.4	42.2	42.4	44.2	46.5	46.3
Utica—Rome	4.9	5.1	5.1	5.0	5.1	16.1	16.8	17.4	17.8	18.6	27.1	27.0	27.5	29.3	29.1
Westchester County ¹⁵	15.2	15.6	16.2	16.2	16.0	66.8	69.5	70.7	72.0	73.7	47.4	49.0	50.6	51.9	50.2
NORTH CAROLINA															
Asheville	75.6	80.8	83.7	82.3	82.1	233.4	247.1	259.5	267.6	280.8	275.3	281.8	299.6	315.8	325.0
Charlotte—Gastonia	-	2.3	2.4	2.2	2.4	-	9.8	10.1	10.2	10.5	-	8.1	8.5	9.4	9.7
Greensboro—Winston-Salem—High Pt.	16.1	17.2	17.7	17.2	17.3	32.7	35.7	37.8	38.6	40.6	26.6	27.6	30.0	32.2	33.5
Raleigh—Durham	14.4	14.7	15.4	14.6	14.7	38.7	41.0	43.0	44.0	45.7	34.5	35.5	38.3	40.2	41.3
	11.5	13.1	13.7	13.3	13.2	35.2	37.5	40.0	41.5	44.4	48.6	52.4	56.3	58.9	60.4
NORTH DAKOTA¹⁶															
Fargo—Moorhead ¹⁶	7.4	7.8	8.3	8.5	9.1	33.2	35.1	37.4	39.1	41.1	51.3	52.2	53.4	54.5	56.2
	2.5	2.8	2.8	3.0	3.2	9.3	9.8	10.4	10.8	11.5	10.2	10.7	10.8	11.1	11.6

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	TOTAL					MINING					CONTRACT CONSTRUCTION				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
OHIO	3,938.3	4,112.9	4,165.4	4,016.2	4,095.8	22.7	22.5	24.2	26.8	28.3	165.1	175.5	172.3	154.9	155.8
Akron	248.1	255.1	255.0	248.4	247.1	.3	.3	.3	.3	.3	8.1	8.2	8.2	7.5	7.0
Canton	139.8	147.9	152.1	145.0	146.4	.5	.6	.7	.7	.8	5.2	5.4	5.7	5.5	5.7
Cincinnati	512.0	534.5	542.2	531.2	540.7	.4	.4	.4	.4	.4	24.2	25.3	24.3	22.2	22.5
Cleveland	838.0	865.2	875.2	850.6	862.9	1.5	1.4	1.4	1.4	1.5	30.0	31.3	32.2	30.5	29.7
Columbus	431.6	451.0	457.6	445.4	455.4	.9	.9	.9	.7	.7	23.4	23.4	21.6	18.0	17.8
Dayton	325.5	335.6	334.9	321.4	331.3	.5	.5	.4	.4	.4	13.5	13.6	13.3	11.2	11.5
Toledo	272.4	285.8	285.6	275.5	283.4	.5	.6	.6	.6	.6	11.6	13.1	13.4	11.5	11.7
Youngstown—Warren	201.1	211.6	213.5	200.7	203.2	.2	.2	.3	.3	.3	7.2	7.8	7.4	6.5	6.5
OKLAHOMA	812.8	852.7	887.5	899.7	930.7	36.1	36.5	39.9	43.6	45.2	44.1	47.4	49.5	45.9	44.6
Oklahoma City	288.5	300.7	305.4	308.0	315.6	7.3	7.7	8.5	9.2	9.9	17.3	17.9	18.3	15.9	15.2
Tulsa	198.3	211.5	225.9	232.3	244.2	13.4	13.4	14.6	15.8	16.2	11.2	13.9	15.3	13.6	14.9
OREGON	774.3	816.2	837.9	837.4	872.3	1.7	1.9	1.8	1.7	1.5	36.8	39.0	39.0	35.3	36.2
Eugene—Springfield	77.4	82.1	82.5	83.1	88.1	(1)	(1)	(1)	(1)	(1)	3.6	3.9	3.9	3.5	3.6
Jackson County	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Portland	409.6	431.4	446.3	441.5	455.9	(1)	(1)	(1)	(1)	(1)	21.1	21.4	21.3	18.3	19.7
Salem	61.2	64.6	66.9	69.3	73.2	(1)	(1)	(1)	(1)	(1)	3.2	3.4	3.5	3.4	3.6
PENNSYLVANIA	4,399.9	4,505.9	4,513.8	4,435.7	4,491.7	40.2	39.7	42.1	46.1	48.0	203.1	205.9	200.6	184.5	180.6
Allentown—Bethlehem—Easton	241.9	249.9	255.4	252.3	256.7	(1)	(1)	(1)	(1)	(1)	10.9	11.5	11.9	10.5	9.6
Altoona	48.4	50.3	50.2	49.0	50.6	(1)	(1)	(1)	(1)	(1)	2.3	2.4	2.3	2.0	2.0
Delaware Valley ¹⁷	1,523.6	1,540.9	1,535.2	1,496.1	1,505.6	(1)	(1)	(1)	(1)	(1)	67.1	69.0	66.4	57.1	52.2
Erie	103.9	108.9	112.6	109.9	108.6	(1)	(1)	(1)	(1)	(1)	3.8	3.8	3.9	3.5	3.3
Harrisburg	192.8	201.0	204.8	200.3	202.4	(1)	(1)	(1)	(1)	(1)	12.7	11.8	11.0	9.2	9.0
Johnstown	80.8	82.3	83.3	85.9	87.8	6.7	6.7	7.2	8.4	9.2	2.7	2.6	2.6	2.7	2.9
Lancaster	129.1	134.0	134.9	131.1	133.9	(1)	(1)	(1)	(1)	(1)	7.4	7.8	7.7	6.7	6.7
Northeast Pennsylvania	230.0	236.5	235.1	225.9	225.7	1.8	1.8	1.3	1.2	1.3	10.5	12.2	12.3	10.8	12.0
Philadelphia SMSA ⁵	1,802.3	1,830.4	1,840.6	1,780.5	1,798.1	1.4	1.3	1.4	(1)	(1)	86.0	88.8	86.2	70.0	64.8
Philadelphia City ¹⁸	881.1	866.5	845.5	810.8	807.4	(1)	(1)	(1)	(1)	(1)	26.1	25.5	24.7	21.1	17.6
Pittsburgh	858.1	876.2	891.4	852.6	856.4	8.5	8.5	7.7	10.5	11.5	39.0	39.1	42.1	41.5	42.2
Reading	127.2	130.2	131.9	125.7	129.5	(1)	(1)	(1)	(1)	(1)	5.3	5.4	5.4	4.4	4.4
Scranton ¹⁹	86.1	86.0	84.0	80.1	81.3	(1)	(1)	(1)	(1)	(1)	2.8	3.3	3.0	2.3	2.6
Wilkes-Barre—Hazleton ²⁰	121.1	126.6	126.3	120.6	122.7	1.4	1.5	1.1	1.0	1.1	6.5	7.4	7.8	7.2	8.2
Williamsport	44.4	46.2	46.0	44.3	44.3	(1)	(1)	(1)	(1)	(1)	1.8	2.0	1.9	1.4	1.3
York	137.4	140.0	139.7	133.5	138.0	(1)	(1)	(1)	(1)	(1)	10.1	9.0	7.6	6.1	6.1
RHODE ISLAND	358.1	365.9	367.0	349.2	366.3	(1)	(1)	(1)	(1)	(1)	15.2	15.0	13.3	11.5	12.0
Providence—Warwick—Pawtucket	368.5	378.7	382.4	361.5	376.7	(1)	(1)	(1)	(1)	(1)	15.0	15.3	14.1	11.7	12.3
SOUTH CAROLINA	520.3	984.0	1,015.8	982.6	1,039.3	1.8	1.8	2.1	1.9	1.8	61.8	71.2	76.0	61.8	61.4
Charleston—North Charleston	101.4	109.3	112.9	115.3	121.4	(1)	(1)	(1)	(1)	(1)	7.5	8.5	8.6	8.8	9.5
Columbia	129.4	137.8	144.3	143.2	148.5	(1)	(1)	(1)	(1)	(1)	5.6	10.7	10.3	7.6	6.9
Greenville—Spartanburg	212.2	228.0	235.5	221.2	231.6	(1)	(1)	(1)	(1)	(1)	15.6	17.6	18.2	14.4	13.1
SOUTH DAKOTA	189.9	199.1	206.6	209.3	215.2	2.1	2.4	2.5	2.6	2.6	5.7	10.7	11.2	10.2	11.2
Rapid City	21.4	22.7	22.6	23.6	25.4	(3)	(3)	(3)	(3)	(3)	1.7	2.2	2.1	1.9	2.1
Sioux Falls	38.0	40.2	43.2	44.1	46.8	(3)	(3)	(3)	(3)	(3)	1.9	2.0	2.2	2.2	2.5
TENNESSEE	1,450.1	1,513.1	1,558.2	1,505.7	1,577.4	7.1	7.0	8.3	9.5	9.4	78.6	86.1	87.8	76.0	75.2
Chattanooga	152.5	159.1	160.8	153.5	160.1	.6	.7	.8	1.0	1.1	6.5	7.3	7.1	6.0	6.1
Knoxville	159.9	166.2	171.4	171.7	178.2	1.2	1.4	1.9	1.9	1.7	8.7	10.1	10.9	9.9	9.7
Memphis	309.2	327.7	333.5	320.2	327.1	.2	.2	.2	.2	.2	18.9	20.5	19.9	16.1	15.0
Nashville—Davidson	277.7	298.7	307.5	301.4	315.8	(1)	(1)	(1)	(1)	(1)	18.5	19.7	21.1	17.6	17.0
TEXAS	3,884.4	4,141.7	4,360.2	4,462.9	4,686.9	103.5	108.8	122.2	133.2	138.6	255.3	283.2	301.4	290.0	319.4
Amarillo	52.8	54.8	58.8	62.4	65.7	(1)	(1)	(1)	(1)	(1)	2.4	3.0	4.1	4.9	4.2
Austin	139.6	153.6	163.4	168.8	174.7	(1)	(1)	(1)	(1)	(1)	11.1	12.2	11.3	9.6	8.8
Beaumont—Port Arthur—Orange	115.1	120.0	126.8	126.6	136.6	(1)	(1)	(1)	(1)	(1)	8.0	8.1	11.0	9.1	15.0
Corpus Christi	91.1	95.7	91.0	98.5	102.5	3.5	3.3	3.5	3.6	3.8	8.2	9.4	8.7	10.0	11.1
Dallas—Fort Worth	574.1	1,048.0	1,087.0	1,078.8	1,118.4	9.0	9.6	11.2	12.0	12.5	56.6	59.8	59.3	49.2	49.3
El Paso	117.4	126.9	136.9	134.1	137.8	(1)	(1)	(1)	(1)	(1)	8.7	10.0	9.0	7.7	6.5
Houston	54.7	57.0	58.7	62.9	66.3	(1)	(1)	(1)	(1)	(1)	2.8	3.3	3.8	6.1	7.1
Lubbock	635.8	901.9	973.4	1,032.5	1,094.4	32.1	35.0	40.3	43.6	45.7	71.7	78.9	94.0	102.6	115.1
Lubbock	62.1	68.0	72.6	72.4	77.1	(1)	(1)	(1)	(1)	(1)	3.3	4.0	4.2	4.3	4.6
San Antonio	291.6	307.4	317.0	317.0	326.8	1.7	1.6	1.6	1.6	1.7	15.8	22.9	22.7	19.0	18.6
Waco	53.1	55.5	56.8	56.7	60.5	(1)	(1)	(1)	(1)	(1)	2.8	2.9	3.0	2.6	2.8
Wichita Falls	38.6	40.6	42.7	43.7	45.3	1.7	1.7	2.1	2.1	2.2	1.7	2.0	2.6	1.9	2.7
UTAH	393.0	414.8	434.1	440.3	462.9	12.2	12.5	13.6	13.3	13.9	21.0	23.8	24.3	24.3	27.7
Salt Lake City—Ogden	286.1	300.0	314.5	318.0	332.0	6.5	6.5	6.7	6.1	6.4	14.6	16.5	17.4	17.2	19.1
VERMONT	153.6	161.3	162.8	162.1	168.2	.9	.8	.8	.8	.7	5.9	10.4	8.6	7.4	7.7
Burlington ²¹	38.9	40.0	40.7	41.3	43.6	—	—	—	—	—	—	—	—	—	—

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	MANUFACTURING					TRANSPORTATION AND PUBLIC UTILITIES					WHOLESALE AND RETAIL TRADE				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
OHIO	1,346.8	1,426.3	1,416.6	1,267.5	1,293.5	222.9	224.9	227.8	213.2	212.3	816.3	852.6	873.8	868.0	892.2
Akron	91.3	94.0	94.2	84.5	80.1	15.6	16.0	15.8	14.1	13.9	50.8	52.1	53.2	53.1	55.0
Canton	57.4	61.7	62.2	55.3	54.8	7.0	7.2	7.3	6.6	6.8	28.4	29.6	31.1	30.9	31.2
Cincinnati	155.9	165.5	166.6	153.9	155.5	34.3	34.0	33.4	31.5	30.7	113.4	117.9	119.5	119.3	124.4
Cleveland	273.9	288.1	287.1	260.3	265.4	49.0	48.4	49.9	48.0	46.0	184.3	190.4	195.8	193.0	196.8
Columbus	100.8	106.0	104.3	93.1	93.9	22.9	23.4	23.0	21.9	22.3	53.9	100.5	103.7	104.7	109.4
Dayton	114.3	117.7	113.1	100.1	103.7	12.5	12.6	12.3	11.6	12.0	63.0	65.8	67.1	66.8	69.2
Toledo	88.8	93.4	89.8	80.7	84.9	19.0	19.5	19.3	17.9	18.6	60.4	61.1	63.8	63.0	64.7
Youngstown—Warren	67.9	93.0	92.0	80.8	80.4	9.9	10.3	10.8	5.5	9.5	35.9	41.6	42.3	41.8	43.2
OKLAHOMA	142.0	152.7	157.3	150.7	156.1	53.3	55.2	57.6	56.5	57.2	186.6	196.6	204.5	208.5	222.2
Oklahoma City	41.6	43.9	43.7	39.9	41.1	18.9	19.3	20.2	19.5	19.5	68.3	73.0	76.3	75.9	79.0
Tulsa	43.0	46.7	51.0	51.9	52.5	16.5	17.0	18.3	18.5	18.7	46.4	49.7	52.4	54.2	58.9
OREGON	184.0	196.9	196.8	182.1	192.9	50.3	52.3	52.5	50.2	51.1	177.6	187.9	194.2	199.4	209.3
Eugene—Springfield	20.5	21.9	20.9	18.3	19.5	4.6	4.6	4.8	4.3	4.6	16.8	18.2	18.8	20.0	21.6
Jackson County	7.4	7.8	7.2	6.5	7.1	-	-	-	-	-	-	-	-	-	-
Portland	87.9	95.7	98.6	90.2	94.2	30.6	31.7	31.6	30.5	30.8	99.5	105.4	109.2	111.5	117.0
Salem	11.9	12.7	12.5	11.9	12.8	2.3	2.3	2.4	2.4	2.5	12.5	13.2	13.3	13.7	14.8
PENNSYLVANIA	1,444.5	1,480.1	1,464.2	1,334.8	1,332.3	266.0	267.1	265.5	256.5	255.0	855.3	886.6	879.0	886.8	914.9
Pittsburgh—Bethlehem—Easton	110.8	114.2	114.9	108.3	107.7	13.6	14.0	13.6	13.0	13.0	41.5	42.7	43.4	43.2	44.8
Altoona	15.0	15.0	14.5	12.7	13.1	7.0	7.2	7.7	7.4	7.8	9.6	10.2	10.1	10.4	11.0
Delaware Valley ¹⁷	435.5	441.4	431.7	386.1	380.9	89.4	87.6	85.8	82.2	81.4	307.0	311.2	309.1	308.1	312.3
Erie	44.2	46.7	48.6	44.1	42.0	5.7	5.6	5.5	5.2	5.2	19.0	20.1	20.6	20.8	21.1
Harrisburg	40.0	42.1	41.5	37.4	39.1	14.4	14.5	14.8	14.5	14.6	37.8	40.0	41.5	41.0	41.0
Johnstown	24.2	24.9	24.6	23.1	22.1	5.4	5.6	5.6	5.6	5.6	14.0	14.5	14.8	15.8	16.3
Lancaster	54.8	57.5	56.9	52.6	53.9	5.8	6.0	5.9	5.9	5.8	26.6	27.3	27.6	28.0	28.8
Northeast Pennsylvania	85.7	84.7	80.8	71.6	71.2	12.2	13.0	13.1	11.9	11.8	44.5	46.1	46.7	46.8	47.9
Philadelphia SMSA ⁵	501.5	510.6	500.5	450.2	445.6	104.5	103.1	101.5	97.2	96.4	384.4	390.5	393.7	382.6	390.5
Philadelphia City ¹⁸	207.4	203.8	188.9	163.0	160.2	63.5	61.6	59.5	56.9	55.6	170.4	166.8	160.6	154.1	153.1
Pittsburgh	229.1	264.1	266.1	251.6	248.1	59.2	59.5	59.3	56.9	57.1	180.1	186.6	186.1	189.6	195.6
Reading	54.6	55.4	53.7	47.9	49.8	6.2	6.4	6.8	6.4	6.5	22.9	23.4	24.0	23.9	24.1
Scranton ¹⁹	32.8	31.7	29.3	25.6	26.1	5.1	5.3	5.2	4.8	4.4	17.9	18.3	18.3	18.4	18.2
Wilkes-Barre—Hazleton ²⁰	47.9	48.0	46.4	40.7	40.6	6.5	6.9	6.6	5.9	5.9	22.9	24.0	24.2	24.2	25.1
Williamsport	18.9	19.4	19.2	17.6	17.3	2.1	2.2	2.2	2.0	2.0	8.4	8.8	8.6	8.4	8.6
York	59.5	60.2	61.0	56.1	57.9	6.1	6.4	6.5	6.2	6.3	27.4	28.2	27.4	27.2	28.4
RHODE ISLAND	121.0	125.6	126.0	112.7	122.4	15.3	15.3	15.0	13.3	13.5	74.1	75.0	73.3	71.4	74.5
Providence—Warwick—Pawtucket	135.9	141.4	143.8	126.1	137.2	15.0	15.0	14.7	13.2	13.4	74.9	76.6	75.2	73.2	76.5
SOUTH CAROLINA	354.3	374.9	375.9	339.9	370.5	40.4	42.4	42.6	40.5	42.8	160.1	172.1	177.6	175.6	188.3
Charleston—North Charleston	15.2	15.7	15.7	14.5	17.0	6.3	6.6	6.8	6.8	7.1	21.3	23.8	24.3	24.5	25.8
Columbia	22.2	23.8	24.6	21.7	22.8	7.8	8.2	8.2	8.0	8.2	26.6	28.2	29.7	29.0	30.7
Greenville—Spartanburg	95.3	101.5	102.7	92.7	100.8	9.5	10.3	10.2	8.9	9.2	36.4	39.1	40.7	40.1	41.8
SOUTH DAKOTA	18.4	19.8	20.9	19.8	22.2	11.3	11.5	12.3	12.1	12.1	50.2	52.8	55.1	56.5	60.8
Rapid City	2.4	2.2	2.2	2.0	2.2	1.6	1.6	1.6	1.6	1.6	5.9	6.2	6.4	6.6	7.3
Sioux Falls	6.3	6.7	7.0	6.3	6.6	3.4	4.0	4.2	4.2	4.1	11.1	11.8	12.5	13.3	14.9
TENNESSEE	489.2	519.4	513.3	459.0	487.2	69.3	72.4	74.3	70.8	73.3	294.3	312.0	321.0	320.8	339.8
Chattanooga	59.3	61.7	60.9	53.8	56.1	6.4	6.4	6.4	6.0	6.2	27.0	29.0	29.5	28.7	29.9
Knoxville	48.1	50.0	49.6	46.4	49.2	7.3	7.4	7.6	7.2	7.3	33.1	34.0	35.5	36.6	37.9
Memphis	62.1	65.8	64.3	56.6	57.6	20.9	22.4	22.3	21.1	21.6	81.3	84.9	86.9	84.1	87.7
Nashville—Davidson	75.5	80.7	78.9	70.8	76.7	15.9	16.3	16.1	15.7	16.2	60.3	66.2	68.6	67.2	70.7
TEXAS	738.7	790.2	831.3	815.9	858.5	264.5	280.9	295.1	292.1	291.9	945.1	1,011.3	1,054.4	1,100.4	1,165.5
Amarillo	6.8	6.4	6.5	7.1	8.8	5.0	5.2	5.6	5.8	6.3	15.7	16.8	18.3	18.7	19.9
Austin	13.2	14.2	15.0	15.3	17.2	4.4	5.1	5.4	5.6	5.5	28.2	31.7	33.7	35.1	35.9
Beaumont—Port Arthur—Orange	38.5	39.7	41.3	40.3	41.6	9.1	9.7	9.7	9.4	9.7	22.4	23.9	24.8	26.3	27.6
Corpus Christi	10.8	11.7	11.9	11.8	12.4	6.1	6.3	6.0	5.8	5.6	23.9	24.4	24.5	24.2	25.8
Dallas—Fort Worth	228.4	245.2	247.3	235.1	245.3	70.1	75.4	76.8	74.9	75.0	251.1	272.5	286.1	290.5	305.2
El Paso	26.1	28.3	29.8	29.8	31.0	8.8	9.6	10.0	9.7	9.7	28.1	30.2	31.5	33.4	34.3
Galveston—Texas City	10.8	10.9	11.1	11.6	11.9	5.3	5.9	6.0	5.7	5.4	9.8	10.3	10.3	10.5	11.6
Houston	154.8	164.6	175.2	182.1	187.1	67.1	73.6	80.5	81.5	78.3	202.1	218.5	231.1	248.6	268.4
Lubbock	7.8	9.1	11.1	9.6	10.9	4.4	4.6	4.5	4.3	4.5	18.9	20.4	21.4	21.9	23.7
San Antonio	36.6	39.3	39.7	37.1	40.7	12.2	13.1	13.9	13.9	14.2	71.8	76.0	77.8	79.0	82.1
Waco	12.8	13.3	13.5	12.6	14.1	2.7	2.8	2.9	2.8	3.0	12.4	12.9	12.8	13.2	13.8
Wichita Falls	5.3	6.1	6.9	7.1	7.4	2.2	2.3	2.4	2.2	2.2	9.7	10.1	10.7	11.3	11.4
UTAH	60.5	65.1	70.4	67.5	70.7	24.2	25.4	26.7	27.0	28.1	90.1	97.1	101.4	104.4	112.0
Salt Lake City—Ogden	40.7	43.4	47.7	46.0	47.4	19.7	20.5	21.6	21.6	22.4	68.0	72.8	76.0	78.0	83.3
VERMONT	38.5	41.6	42.8	39.5	41.1	8.2	8.4	8.4	8.2	8.3	31.4	32.8	33.1	33.7	34.8
Burlington ²¹	8.8	9.0	9.2	9.2	9.8	2.0	2.2	2.1	2.1	2.1	8.4	8.5	8.8	8.8	9.5

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	FINANCE, INSURANCE, AND REAL ESTATE					SERVICES					GOVERNMENT				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
OHIO	163.8	169.0	171.9	173.1	176.6	611.7	643.9	665.7	666.3	709.3	585.1	597.8	613.1	626.4	631.9
Akron	8.4	8.6	8.5	8.2	8.4	36.7	38.9	40.4	41.4	42.7	36.8	36.9	38.3	39.3	39.6
Canton	4.7	5.1	5.4	5.1	5.3	21.7	22.8	23.7	24.2	25.1	14.8	15.5	16.0	16.6	16.8
Cincinnati	26.6	26.9	27.4	28.2	28.7	84.9	91.6	95.3	97.4	100.2	72.4	72.9	75.3	78.2	78.4
Cleveland	42.3	43.3	43.3	43.2	44.1	142.8	149.3	155.6	158.0	161.8	114.3	113.1	113.9	116.2	117.7
Columbus	27.8	29.2	30.0	30.0	30.7	73.1	77.6	81.0	82.2	85.5	88.7	89.9	93.1	94.7	95.2
Dayton	5.8	10.2	10.5	10.9	11.1	51.8	54.1	55.8	57.6	60.7	60.2	61.1	62.4	62.8	62.8
Toledo	8.6	9.0	9.2	9.0	9.1	43.5	46.4	48.1	50.1	51.9	39.8	40.8	41.5	42.6	42.0
Youngstown—Warren	5.8	5.9	6.2	6.3	6.5	28.5	30.2	31.3	32.2	32.9	21.7	22.5	23.3	23.4	23.9
OKLAHOMA	40.1	42.3	44.2	44.8	46.4	125.7	129.8	135.5	143.4	152.9	184.9	192.2	199.0	206.3	206.1
Oklahoma City	17.9	19.5	19.9	19.9	20.3	43.4	45.5	47.6	49.5	52.6	73.8	73.9	74.9	77.8	78.0
Tulsa	10.3	11.2	12.1	12.3	12.9	35.4	37.5	39.6	41.9	45.4	22.0	22.1	22.6	24.1	24.7
OREGON	43.2	47.2	48.0	48.9	51.5	123.2	130.8	137.1	142.7	149.5	157.5	160.3	168.5	177.1	180.3
Eugene—Springfield	3.3	3.5	3.5	3.7	4.1	11.5	12.7	13.6	13.9	14.7	17.1	17.3	18.0	19.4	20.0
Jackson County	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Portland	25.1	31.1	31.7	32.1	33.4	75.5	79.4	82.2	86.2	90.3	65.9	67.1	70.5	72.7	74.5
Salem	3.4	3.6	3.7	3.8	4.1	8.0	8.8	9.4	10.7	11.3	19.9	20.6	22.1	23.4	24.1
PENNSYLVANIA	200.5	206.5	207.3	207.3	210.5	739.0	762.0	773.6	788.5	831.7	651.4	658.2	681.5	721.4	718.8
Allentown—Bethlehem—Easton	6.9	7.1	7.3	7.4	7.7	33.2	34.1	35.5	36.6	37.7	25.2	26.4	28.8	33.3	36.1
Altoona	1.3	1.4	1.4	1.3	1.4	6.4	6.9	7.2	7.4	7.8	6.7	7.0	7.1	7.7	7.5
Delaware Valley ¹	55.8	56.3	55.5	54.3	56.7	203.4	310.7	310.4	321.6	336.9	225.4	224.8	236.2	246.7	245.2
Erie	3.8	4.1	4.2	4.3	4.3	15.3	15.9	16.8	17.9	18.4	12.1	12.7	13.0	14.2	14.4
Harrisburg	9.5	9.9	10.2	10.8	10.5	30.0	30.9	32.0	32.4	33.5	49.0	51.8	53.8	55.1	54.4
Johnstown	2.4	2.6	2.6	2.8	3.4	12.7	12.5	12.6	13.3	14.3	13.0	13.0	13.2	14.3	14.1
Lancaster	3.5	3.8	4.0	4.1	4.2	19.3	19.6	20.7	20.9	21.0	11.6	12.0	12.0	13.0	13.5
Northeast Pennsylvania	8.4	8.5	8.7	8.7	8.7	33.6	35.5	36.6	37.5	39.6	33.3	34.7	35.6	37.4	37.4
Philadelphia SMSA ⁵	107.7	105.7	110.5	107.7	110.6	343.0	352.5	363.1	372.6	390.2	273.9	274.0	283.7	300.3	300.1
Philadelphia City ¹⁸	69.2	67.8	66.5	64.7	65.2	191.4	190.7	185.7	191.5	197.6	154.0	150.3	155.7	155.5	158.0
Pittsburgh	38.5	40.3	40.9	41.4	40.9	159.3	160.3	167.2	174.8	178.4	114.5	117.6	120.0	126.5	124.6
Reading	5.3	5.3	5.2	5.0	5.1	17.6	18.3	19.6	19.8	20.9	15.4	16.1	17.0	18.2	18.7
Scranton ¹⁹	3.1	3.0	3.2	3.1	3.0	14.0	14.1	14.6	15.0	15.8	10.4	10.3	10.4	11.0	11.2
Wilkes-Barre—Hazleton ²⁰	4.3	4.5	4.7	4.7	4.9	14.2	15.9	16.4	16.7	17.2	17.2	18.5	19.1	20.2	19.8
Williamsport	1.8	1.9	1.9	1.8	1.8	6.2	6.6	7.0	7.3	7.6	5.2	5.4	5.3	5.9	5.7
York	3.1	3.1	3.1	3.1	3.2	16.3	17.4	18.0	18.0	19.1	14.8	15.7	16.1	16.8	17.0
RHODE ISLAND	16.9	17.5	18.2	17.9	18.1	58.8	62.0	66.1	65.8	68.8	56.8	55.5	55.1	56.6	57.0
Providence—Warwick—Pawtucket	16.9	17.6	18.3	18.1	18.2	57.7	61.3	65.1	65.5	67.4	53.1	51.5	51.2	53.3	53.7
SOUTH CAROLINA	33.6	36.5	38.8	39.1	39.6	102.6	114.4	120.7	123.9	133.2	165.6	170.7	182.2	199.8	201.7
Charleston—North Charleston	4.0	4.5	4.8	4.8	4.9	12.2	14.6	16.0	17.0	18.4	34.8	35.7	37.6	38.9	38.7
Columbia	8.0	9.0	10.1	10.7	11.2	18.4	19.7	20.2	20.8	22.2	36.9	38.1	41.2	45.2	46.5
Greenville—Spartanburg	7.2	7.8	8.6	8.1	8.0	26.4	29.6	30.8	30.3	31.5	21.8	22.3	24.3	26.8	27.2
SOUTH DAKOTA	7.6	8.0	8.6	9.0	9.5	37.4	39.7	41.1	43.4	45.0	53.7	53.8	54.9	55.7	55.8
Rapid City .....	.7	.8	1.1	1.1	1.2	4.1	4.5	4.8	5.0	5.5	5.0	5.2	5.4	5.4	5.5
Sioux Falls	1.9	2.0	2.2	2.3	2.4	8.0	8.2	8.6	9.6	10.1	5.4	5.5	6.1	6.2	6.2
TENNESSEE	61.2	66.1	69.5	68.9	69.8	209.8	221.9	227.6	229.4	240.0	240.6	246.2	256.4	271.3	282.7
Chattanooga	7.8	8.2	8.7	8.5	8.4	20.0	21.3	22.2	23.3	24.4	23.9	24.0	25.2	26.2	27.9
Knoxville	5.7	6.0	6.4	6.5	6.7	22.3	22.7	23.7	25.1	26.3	33.5	34.6	35.8	38.1	39.4
Memphis	16.6	18.6	19.4	18.6	18.2	53.0	55.8	58.0	60.0	62.9	56.2	59.5	62.5	63.5	63.9
Nashville—Davidson	16.7	18.1	19.2	19.6	19.8	45.2	50.0	52.7	56.5	60.4	44.6	45.5	50.9	54.0	55.0
TEXAS	214.1	230.9	242.1	247.1	256.1	644.4	690.7	737.6	767.4	810.3	714.8	745.7	776.0	815.8	846.6
Amarillo	2.8	2.9	3.0	3.1	3.1	10.5	10.9	11.4	12.1	12.4	9.6	9.6	9.9	10.7	11.0
Austin	7.7	8.8	9.5	9.5	9.7	20.6	23.2	25.4	26.7	28.6	54.4	58.4	63.1	67.0	69.0
Beaumont—Port Arthur—Orange	4.0	4.2	4.4	4.6	4.8	17.2	18.2	19.0	19.5	20.1	15.9	16.2	16.6	17.4	17.8
Corpus Christi	4.2	4.5	4.6	4.7	4.8	14.1	15.1	15.6	15.8	16.4	20.3	21.0	22.2	22.6	22.6
Dallas-Fort Worth	72.5	77.6	81.2	81.4	82.1	161.6	174.8	185.8	188.7	197.4	124.8	132.9	139.3	147.0	151.6
El Paso	5.4	6.0	6.4	6.3	6.3	16.8	18.4	19.3	21.0	22.0	23.5	24.4	24.9	26.2	28.0
Galveston—Texas City	3.3	3.5	3.7	4.0	4.3	7.8	8.1	8.5	9.2	10.0	14.9	15.0	15.3	15.8	16.0
Houston	50.0	55.3	57.0	59.2	62.1	155.3	170.8	184.7	195.1	211.4	102.7	105.3	110.6	119.8	126.3
Lubbock	3.3	3.3	3.5	3.6	3.7	10.6	12.0	12.7	13.2	13.8	13.8	14.6	15.2	15.5	15.9
San Antonio	18.2	19.3	20.2	20.8	21.2	50.0	53.6	56.8	59.2	61.3	81.3	81.6	84.6	86.4	89.0
Waco	2.9	3.1	3.3	3.4	3.5	10.6	11.0	11.6	11.9	12.5	8.9	9.5	9.7	10.2	10.8
Wichita Falls	1.7	1.7	1.9	1.9	2.0	6.0	6.3	6.5	6.7	6.8	10.3	10.4	10.6	10.5	10.6
UTAH	17.0	18.3	19.4	19.7	20.6	62.6	66.9	70.1	73.7	77.5	105.5	105.7	108.2	110.3	112.3
Salt Lake City—Ogden	14.3	15.3	16.1	16.4	17.1	42.6	45.6	47.5	50.6	53.1	79.6	79.4	81.1	82.1	83.2
VERMONT	6.2	6.4	6.5	6.6	6.7	30.5	32.3	33.3	35.5	38.3	28.2	28.7	29.3	30.5	30.8
Burlington ²¹	—	—	—	—	—	7.5	7.9	8.3	8.6	9.3	—	—	—	—	—

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	TOTAL					MINING					CONTRACT CONSTRUCTION				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
VERMONT—Continued															
Springfield ²¹	12.4	13.5	13.8	13.0	12.5	-	-	-	-	-	-	-	-	-	-
VIRGINIA	1,655.2	1,753.4	1,804.7	1,778.7	1,842.7	16.1	16.2	18.1	20.5	21.8	116.9	131.1	133.2	112.0	112.4
Bristol	20.5	21.7	23.1	23.2	24.7	(1)	(1)	(1)	(1)	(1)	1.0	1.0	1.1	.9	1.0
Lynchburg	55.8	59.4	61.0	58.9	61.1	(1)	(1)	(1)	(1)	(1)	3.2	3.6	3.6	3.0	2.8
Newport News—Hampton	122.2	128.3	128.8	128.7	133.1	(1)	(1)	(1)	(1)	(1)	6.5	7.6	7.8	6.8	6.8
Norfolk—Virginia Beach—Portsmouth	229.0	242.1	245.1	244.7	250.8	(1)	(1)	(1)	(1)	(1)	17.2	19.7	20.0	15.7	15.4
Northern Virginia ²²	308.2	334.7	344.1	345.2	361.2	.4	.4	.4	.3	.3	25.1	32.6	29.7	23.4	23.7
Petersburg-Colonial Heights-Hopewell	40.6	43.0	42.8	42.6	43.8	(1)	(1)	(1)	(1)	(1)	1.8	2.1	2.1	2.0	2.2
Richmond	260.5	276.5	284.5	280.0	286.6	.3	.3	.4	.3	.3	16.7	18.7	19.6	17.5	16.0
Roanoke	91.2	96.0	97.2	95.3	97.3	.2	.2	.2	.2	.2	6.2	6.6	6.6	5.9	5.4
WASHINGTON	1,100.1	1,152.3	1,196.8	1,218.3	1,267.8	1.9	1.9	2.0	2.0	2.1	54.6	58.1	57.1	59.5	67.2
Seattle—Everett	506.4	537.5	558.5	568.9	587.9	(1)	(1)	(1)	(1)	(1)	21.8	22.8	22.7	23.7	25.7
Spokane	94.7	98.3	104.8	101.9	107.6	(1)	(1)	(1)	(1)	(1)	5.5	5.8	5.4	5.2	5.5
Tacoma	107.2	111.1	112.2	116.1	120.1	(1)	(1)	(1)	(1)	(1)	5.0	6.0	5.7	5.6	5.8
WEST VIRGINIA	540.5	561.6	572.4	574.7	594.1	53.7	52.4	55.8	63.5	68.5	34.2	34.4	31.7	30.5	33.6
Charleston	93.4	97.2	95.8	102.7	103.5	4.4	4.3	4.7	6.0	6.0	7.6	7.9	7.0	6.9	6.5
Huntington—Ashland	86.8	90.3	93.3	95.3	97.1	.7	.6	.7	.7	.8	3.9	4.7	4.5	5.1	5.9
Parkersburg—Marietta	(*)	(*)	52.9	50.8	51.8	(*)	(*)	.4	.4	.4	(*)	(*)	3.3	2.8	2.5
Wheeling	60.9	62.0	63.0	63.8	64.0	6.5	6.4	7.2	8.2	8.4	2.5	2.4	2.6	2.5	2.8
WISCONSIN	1,580.8	1,660.5	1,703.4	1,676.8	1,724.4	2.5	2.6	2.8	2.7	2.5	62.9	66.9	65.6	60.6	65.6
Appleton—Oshkosh	100.9	105.8	105.0	106.2	108.0	(1)	(1)	(1)	(1)	(1)	4.0	4.2	4.4	4.5	5.1
Green Bay	58.8	62.1	64.8	65.7	67.5	(1)	(1)	(1)	(1)	(1)	3.0	3.2	3.1	2.9	3.2
Kenosha	36.8	40.8	43.2	42.2	40.4	(1)	(1)	(1)	(1)	(1)	1.3	1.3	1.2	1.1	1.0
La Crosse	31.3	32.4	34.2	34.5	35.8	(1)	(1)	(1)	(1)	(1)	1.2	1.3	1.2	1.2	1.2
Madison	126.7	132.1	136.0	138.9	143.9	(1)	(1)	(1)	(1)	(1)	6.3	6.6	6.5	5.9	5.8
Milwaukee	579.0	606.1	616.1	598.2	607.2	(1)	(1)	(1)	(1)	(1)	21.3	22.4	21.7	16.5	19.8
Racine	56.8	61.2	62.8	62.6	63.2	(1)	(1)	(1)	(1)	(1)	1.6	1.9	1.8	1.8	1.6
WYOMING	117.3	126.1	136.5	145.9	155.4	12.1	13.4	16.3	18.9	20.5	9.2	11.6	14.0	14.3	14.7
Casper	20.5	21.7	23.2	25.7	27.5	3.0	3.2	4.0	4.9	4.9	1.4	1.8	1.7	2.0	2.3
Cheyenne	20.2	22.3	23.2	23.2	23.8	(1)	(1)	(1)	(1)	(1)	1.3	2.0	2.0	1.6	1.5

- 1 COMBINED WITH SERVICES.
 - 2 BASED ON THE 1967 STANDARD INDUSTRIAL CLASSIFICATION MANUAL.
 - 3 COMBINED WITH CONSTRUCTION.
 - 4 CHANGE IN AREA DEFINITION BEGINNING IN 1974; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 5 BASED ON THE 1972 STANDARD INDUSTRIAL CLASSIFICATION MANUAL BEGINNING IN 1975; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 6 BASED ON THE 1972 STANDARD INDUSTRIAL CLASSIFICATION MANUAL AND MAY NOT BE STRICTLY COMPARABLE WITH DATA PUBLISHED IN TABLE B-8.
 - 7 BASED ON THE 1972 STANDARD INDUSTRIAL CLASSIFICATION MANUAL BEGINNING IN 1976; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 8 AREA INCLUDED IN CHICAGO-GARY STANDARD CONSOLIDATED STATISTICAL AREA.
 - 9 BASED ON THE 1972 STANDARD INDUSTRIAL CLASSIFICATION MANUAL BEGINNING IN 1973; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 10 CHANGE IN AREA DEFINITION BEGINNING IN 1973; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 11 SUBAREA OF PHILADELPHIA, PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: BURLINGTON, CAMDEN, AND GLOUCESTER COUNTIES, NEW JERSEY.
 - 12 SUBAREA OF NEW YORK-NORTHEASTERN NEW JERSEY.
 - 13 SUBAREA OF ROCHESTER STANDARD METROPOLITAN STATISTICAL AREA.
 - 14 AREA INCLUDED IN NEW YORK AND NASSAU-SUFFOLK COMBINED SMSA'S.
 - 15 SUBAREA OF NEW YORK STANDARD METROPOLITAN STATISTICAL AREA.
 - 16 BASED ON THE 1972 STANDARD INDUSTRIAL CLASSIFICATION MANUAL BEGINNING IN 1974; NOT STRICTLY COMPARABLE WITH PREVIOUS YEARS.
 - 17 SUBAREA OF PHILADELPHIA, PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: BUCKS, CHESTER, DELAWARE, MONTGOMERY, AND PHILADELPHIA COUNTIES, PENNSYLVANIA.
 - 18 SUBAREA OF PHILADELPHIA, PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: PHILADELPHIA COUNTY.
 - 19 SUBAREA OF NORTHEAST PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: LACKAWANNA COUNTY.
 - 20 SUBAREA OF NORTHEAST PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: LUZERNE COUNTY.
 - 21 TOTAL INCLUDES DATA FOR INDUSTRY DIVISIONS NOT SHOWN SEPARATELY. SERVICES EXCLUDES AGRICULTURE, FORESTRY, AND FISHERIES.
 - 22 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.
- * NOT AVAILABLE

SOURCE—COOPERATING STATE AGENCIES LISTED ON INSIDE BACK COVER.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76—Continued

(In thousands)

STATE AND AREA	MANUFACTURING					TRANSPORTATION AND PUBLIC UTILITIES					WHOLESALE AND RETAIL TRADE				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
VERMONT—Continued															
Springfield ²¹	5.3	6.2	6.4	5.8	5.2	.8	.8	.8	.8	.8	1.9	1.9	2.0	2.0	2.0
VIRGINIA	367.8	401.8	401.9	371.5	387.1	100.9	105.1	107.4	103.8	106.2	336.2	361.8	368.6	368.0	383.8
Bristol	7.1	7.9	8.7	8.2	8.6	.9	.5	.5	.9	.9	4.3	4.5	4.7	5.3	6.0
Lynchburg	24.6	26.3	26.8	25.1	26.8	2.5	2.5	2.6	2.5	2.6	5.3	9.5	9.5	9.6	10.0
Newport News—Hampton	34.5	35.5	32.9	30.8	32.3	4.1	4.4	4.6	4.4	4.4	20.9	22.4	23.2	23.4	24.3
Norfolk—Virginia Beach—Portsmouth	28.2	29.1	29.1	25.9	26.0	16.3	16.9	17.4	17.1	17.7	54.7	59.2	59.1	58.4	60.1
Northern Virginia ²²	10.6	11.8	12.1	13.3	13.6	23.3	25.9	26.4	25.2	25.6	71.1	78.6	79.5	81.6	85.9
Petersburg-Colonial Heights-Hopewell	13.6	14.4	13.8	12.6	12.8	1.4	1.4	1.4	1.4	1.4	7.6	7.9	7.7	7.7	7.9
Richmond	51.8	53.6	53.8	49.9	51.6	17.8	18.0	18.2	17.4	17.8	56.5	63.4	64.6	63.0	66.2
Roanoke	21.5	22.3	22.4	21.2	21.4	10.9	10.9	10.9	10.3	10.0	20.5	27.5	22.7	22.1	23.3
WASHINGTON	224.1	244.2	253.6	244.0	246.1	70.8	72.8	73.7	72.5	75.1	245.7	262.7	273.9	285.6	306.0
Seattle—Everett	107.7	121.0	128.7	123.7	119.6	38.4	39.6	39.8	39.8	42.5	116.5	123.0	127.6	134.2	144.4
Spokane	12.8	14.1	14.4	13.3	14.6	7.4	7.5	7.7	7.2	7.4	25.1	26.2	28.6	28.0	30.1
Tacoma	20.0	20.4	20.4	20.4	20.7	5.7	5.9	6.0	5.3	5.8	23.8	24.8	25.8	27.2	28.4
WEST VIRGINIA	123.3	129.0	132.1	121.1	124.0	40.4	40.7	40.7	35.6	39.2	102.0	108.8	110.5	113.5	117.1
Charleston	17.5	17.8	18.8	18.5	19.0	8.9	9.2	9.2	8.9	8.7	20.9	22.3	22.5	23.2	23.3
Huntington—Ashland	26.4	27.2	28.8	27.7	28.4	8.8	8.8	9.1	9.4	9.1	18.4	19.0	19.3	19.7	19.8
Parkersburg—Marietta	(*)	(*)	18.8	16.1	16.5	(*)	(*)	2.4	2.4	2.3	(*)	(*)	11.2	11.0	11.3
Wheeling	14.7	15.3	14.8	13.9	13.5	3.8	3.7	3.9	3.7	3.6	13.4	13.6	13.5	13.7	13.5
WISCONSIN	455.4	531.7	546.1	507.0	512.3	81.9	84.1	85.1	81.7	82.2	346.9	364.4	374.3	374.7	389.5
Appleton—Oshkosh	39.2	42.5	44.3	40.5	40.6	4.2	4.2	4.2	4.1	4.0	20.7	21.1	21.6	21.7	22.3
Green Bay	17.4	18.6	19.5	19.6	20.0	4.8	4.8	4.9	4.6	4.6	14.5	15.3	15.9	15.9	15.9
Kenosha	15.6	18.5	20.3	18.9	16.8	1.3	1.3	1.3	1.4	1.4	6.7	7.3	7.4	7.6	7.9
La Crosse	8.4	8.3	9.1	8.8	9.0	2.2	2.1	2.1	1.9	2.1	7.5	8.3	8.5	9.0	9.4
Madison	15.9	16.5	16.9	16.1	17.2	5.2	5.4	5.3	5.3	5.3	27.1	28.4	28.5	29.4	30.7
Milwaukee	156.8	209.5	213.6	197.7	197.5	31.0	31.9	31.7	30.5	30.6	125.1	130.3	132.3	130.4	133.6
Racine	25.1	27.9	29.1	27.1	26.8	2.0	2.1	2.1	2.1	2.2	10.3	11.0	11.3	11.8	12.3
WYOMING	7.9	8.4	8.4	8.3	8.4	10.5	11.3	11.5	12.5	12.8	26.6	28.0	29.5	31.8	34.7
Casper	1.9	1.9	1.7	1.7	1.6	1.6	1.7	1.8	1.9	2.0	4.9	5.2	5.8	6.3	7.0
Cheyenne	1.3	1.5	1.5	1.5	1.4	2.6	3.0	3.3	3.3	3.3	4.4	4.8	5.0	5.1	5.4

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas, by industry division, 1972-76--Continued

(In thousands)

STATE AND AREA	FINANCE, INSURANCE, AND REAL ESTATE					SERVICES					GOVERNMENT				
	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976	1972	1973	1974	1975	1976
VERMONT--Continued															
Springfield ²¹	-	-	-	-	-	2.0	2.1	2.1	2.2	2.3	-	-	-	-	-
VIRGINIA	74.4	80.8	84.4	84.0	86.0	242.9	266.4	286.4	296.9	312.5	380.0	390.2	404.7	421.6	432.9
Bristol	.8	.8	.9	.8	.9	2.8	2.8	2.5	3.1	3.3	3.6	3.8	3.9	4.0	4.0
Lynchburg	2.4	2.6	2.7	2.6	2.7	7.0	7.5	7.5	8.1	8.0	6.8	7.0	7.5	8.0	8.2
Newport News--Hampton	3.4	3.9	4.3	4.3	4.2	18.5	19.9	20.7	23.0	24.7	34.3	34.6	35.3	36.0	36.4
Norfolk--Virginia Beach--Portsmouth	11.0	11.8	12.6	12.5	12.8	36.8	39.8	42.3	42.6	44.0	64.8	65.6	68.6	72.5	74.8
Northern Virginia ²²	17.3	19.8	20.3	19.7	21.0	59.1	67.0	72.8	76.5	82.7	97.3	98.6	102.5	105.2	108.4
Petersburg-Colonial Heights-Hopewell	1.0	1.0	1.0	1.1	1.1	4.4	4.8	5.0	5.1	5.3	10.8	11.4	11.8	12.7	13.1
Richmond	20.9	21.9	22.1	22.0	22.2	38.6	42.0	45.5	46.6	49.5	55.9	58.6	60.7	63.3	63.0
Roanoke	4.4	4.7	5.0	5.2	5.4	15.3	16.3	16.6	17.2	17.8	12.2	12.4	12.8	13.2	13.8
WASHINGTON	58.8	61.4	63.3	65.0	68.0	181.5	192.2	206.0	216.6	230.4	258.7	259.0	267.2	273.6	272.9
Seattle--Everett	35.4	37.1	38.3	39.2	40.6	85.9	92.2	98.0	102.9	109.0	100.7	101.8	103.8	105.4	106.3
Spokane	5.6	5.9	6.0	6.2	6.8	20.1	20.7	23.5	22.5	24.0	18.2	18.1	18.8	19.1	19.2
Tacoma	5.6	5.6	5.6	5.6	5.6	19.3	20.2	21.3	22.6	24.4	27.8	28.2	28.5	29.4	29.4
WEST VIRGINIA	17.1	17.7	18.0	18.4	18.5	70.4	74.4	77.3	79.6	84.1	99.4	104.2	106.4	108.1	109.2
Charleston	4.1	4.4	4.2	4.3	4.5	14.2	14.8	15.5	16.6	17.0	15.7	16.5	17.2	18.3	18.6
Huntington--Ashland	3.1	3.3	3.4	3.4	3.3	11.6	12.2	12.6	13.0	13.3	14.0	14.5	15.0	16.2	16.6
Parkersburg--Martinsburg	(4)	(*)	1.7	1.7	1.7	(*)	(*)	7.4	7.5	7.9	(*)	(*)	7.7	8.6	9.2
Wheeling	2.4	2.5	2.5	2.4	2.4	10.6	10.9	11.4	11.8	12.0	7.0	7.0	6.5	7.6	7.7
WISCONSIN	64.2	68.2	71.8	74.5	77.2	251.2	266.3	280.7	290.2	306.4	275.8	276.3	276.5	285.4	288.6
Appleton--Oshkosh	3.7	3.9	4.1	4.1	4.2	14.7	15.2	15.5	16.4	17.1	14.3	14.6	14.6	14.9	14.8
Green Bay	1.6	1.7	1.9	2.0	2.0	9.6	10.2	10.5	11.4	12.1	8.0	8.2	8.6	9.3	9.6
Kenosha	.7	.8	.8	.8	.8	6.0	6.3	6.6	6.7	6.8	5.2	5.3	5.5	5.7	5.8
La Crosse	.7	.8	.9	.9	.9	6.2	6.7	6.6	7.2	7.6	4.9	4.9	5.1	5.4	5.6
Madison	7.0	7.6	8.4	8.8	9.3	19.6	21.2	22.6	23.4	25.2	45.6	46.4	47.5	49.9	50.4
Milwaukee	29.3	30.9	32.0	32.5	33.1	98.8	104.9	110.0	112.4	117.1	76.5	76.1	74.7	76.2	75.6
Racine	1.5	1.5	1.7	1.7	1.7	8.5	9.0	9.2	9.8	10.2	7.8	7.9	7.7	8.3	8.4
WYOMING	3.7	3.9	4.2	4.5	5.1	16.8	18.2	19.4	21.1	23.0	30.5	31.3	32.4	34.5	36.2
Casper	.8	.8	.9	1.0	1.2	3.0	3.2	3.5	3.7	4.0	3.9	3.9	3.9	4.2	4.5
Cheyenne	1.0	1.0	1.1	1.2	1.3	3.4	3.6	3.7	3.8	4.1	6.2	6.4	6.6	6.8	6.8

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

2. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas, 1976

STATE AND AREA	AVERAGE			STATE AND AREA	AVERAGE		
	WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS		WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS
ALABAMA	\$181.08	40.6	\$4.46	ILLINOIS ²	\$233.99	40.2	\$5.82
Birmingham	220.04	40.3	5.46	Bloomington—Normal	(*)	(*)	(*)
Mobile	214.93	40.4	5.32	Champaign—Urbana—Rantoul	(*)	(*)	(*)
ALASKA	316.71	40.5	7.82	Chicago SMSA	(*)	(*)	(*)
ARIZONA	205.00	39.5	5.19	Davenport—Rock Island—Moline	(*)	(*)	(*)
Phoenix	203.42	39.5	5.15	Decatur	(*)	(*)	(*)
Tucson	203.94	39.2	5.33	Peoria	(*)	(*)	(*)
ARKANSAS	154.84	39.6	3.91	Rockford	(*)	(*)	(*)
Fayetteville—Springdale	143.24	39.9	3.59	Springfield	(*)	(*)	(*)
Fort Smith	155.99	38.9	4.01	INDIANA	243.60	40.6	6.00
Little Rock—North Little Rock	170.12	39.4	4.47	Gary—Hammond—East Chicago	310.49	40.8	7.61
Pine Bluff	193.23	41.2	4.69	Indianapolis	244.39	40.8	5.99
CALIFORNIA	221.92	39.7	5.59	IOWA ³	235.17	40.2	5.85
Anaheim—Santa Ana—Garden Grove	207.72	40.1	5.18	Cedar Rapids	239.79	40.9	5.87
Bakersfield	235.42	39.7	5.93	Des Moines	240.40	38.9	6.18
Fresno	201.76	39.1	5.16	Dubuque	277.70	39.4	7.05
Los Angeles—Long Beach	206.56	39.8	5.20	Sioux City	210.48	39.1	5.39
Modesto	210.06	39.0	5.54	Waterloo—Cedar Falls	287.34	40.0	7.18
Oxnard—Simi Valley—Ventura	195.00	39.0	5.00	KANSAS	202.93	41.0	4.95
Riverside—San Bernardino—Ontario	233.62	39.9	5.78	Topeka	207.56	41.6	4.98
Sacramento	239.95	39.4	6.09	Wichita	222.89	41.4	5.39
Salinas—Seaside—Monterey	206.72	38.0	5.44	KENTUCKY	203.03	39.5	5.14
San Diego	215.81	38.4	5.62	Louisville	235.60	40.0	5.89
San Francisco—Oakland	264.39	39.5	6.82	LOUISIANA	220.13	41.3	5.33
San Jose	241.79	39.9	6.06	Baton Rouge	277.10	42.5	6.52
Santa Barbara—Santa Maria—Lompoc	197.61	38.9	5.08	New Orleans	215.47	40.2	5.36
Santa Rosa	208.30	37.6	5.54	Shreveport	191.70	40.7	4.71
Stockton	244.33	39.6	6.17	MAINE	165.98	39.9	4.16
Vallejo—Fairfield—Napa	230.89	38.1	6.06	Lewiston—Auburn	138.48	38.9	3.56
COLORADO	(*)	(*)	(*)	Portland	172.30	39.7	4.34
Denver—Boulder	(*)	(*)	(*)	MARYLAND	218.59	39.6	5.52
CONNECTICUT	208.90	40.8	5.12	Baltimore	232.00	40.0	5.80
Bridgeport	220.39	41.9	5.26	MASSACHUSETTS	190.16	39.7	4.79
Hartford	232.96	41.6	5.60	Boston	201.45	42.5	4.74
New Britain	212.79	41.0	5.19	Brockton	152.78	38.1	4.01
New Haven—West Haven	207.43	40.2	5.16	Fall River	134.85	35.3	3.82
Stamford	216.42	41.7	5.19	Lawrence—Haverhill	182.75	39.3	4.65
Waterbury	180.78	40.9	4.42	Lowell	167.96	38.7	4.34
DELAWARE	217.46	39.9	5.45	New Bedford	157.59	37.7	4.18
Wilmington	247.20	40.0	6.18	Springfield—Chicopee—Holyoke	194.95	40.7	4.79
DISTRICT OF COLUMBIA:				Worcester	189.82	39.3	4.83
Washington SMSA	209.98	38.6	5.44	MICHIGAN	290.97	42.7	6.81
FLORIDA	176.14	40.4	4.36	Ann Arbor	318.60	43.6	7.29
Fort Lauderdale—Hollywood	174.12	40.4	4.31	Battle Creek	283.57	41.7	6.81
Jacksonville	218.06	41.3	5.28	Bay City	310.01	47.6	6.51
Miami	153.26	39.5	3.88	Detroit	310.44	42.9	7.23
Orlando	183.37	41.3	4.44	Flint	344.05	45.7	7.52
Pensacola	216.08	42.1	5.18	Grand Rapids	229.55	40.7	5.64
Tampa—St. Petersburg	183.62	40.4	4.55	Jackson	244.93	40.9	5.99
West Palm Beach—Boca Raton	217.58	43.0	5.06	Kalamazoo—Portage	254.64	41.4	6.15
GEORGIA	104.41	40.1	4.10	Lansing—East Lansing	314.37	43.9	7.16
Atlanta	201.16	39.6	5.08	Muskegon—Norton Shores—Muskegon Heights	244.89	41.3	5.93
Savannah	222.13	42.8	5.19	Saginaw	344.13	44.4	7.75
HAWAII ¹	200.46	39.0	5.14	MINNESOTA	220.09	39.8	5.53
Honolulu	193.29	38.2	5.06	Duluth—Superior	199.02	39.1	5.09
IDAHO	204.72	38.7	5.29	Minneapolis—St. Paul	235.57	40.2	5.86
				MISSISSIPPI	153.20	40.0	3.83
				Jackson	158.39	40.2	3.94

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS**

**2. Gross hours and earnings of production workers on manufacturing payrolls,
by State and selected areas, 1976—Continued**

STATE AND AREA	AVERAGE			STATE AND AREA	AVERAGE		
	WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS		WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS
MISSOURI ³	\$205.77	39.8	\$5.17	OKLAHOMA	\$194.27	40.3	\$4.82
Kansas City ³	235.71	40.5	5.82	Oklahoma City	194.80	40.5	4.81
St. Joseph ³	192.40	40.0	4.81	Tulsa	211.05	40.2	5.25
St. Louis ³	234.19	40.2	5.95	OREGON	236.12	38.9	6.07
Springfield ³	173.26	39.2	4.42	Eugene—Springfield	256.77	40.5	6.34
MONTANA	236.01	39.8	5.93	Jackson County	237.29	38.9	6.10
NEBRASKA	202.57	41.1	4.93	Portland	231.81	38.7	5.99
Lincoln	191.20	39.1	4.89	PENNSYLVANIA	210.11	39.2	5.36
Omaha	224.03	42.0	5.33	Allentown—Bethlehem—Easton	206.50	38.1	5.42
NEVADA	218.23	38.9	5.61	Alltoona	172.97	38.1	4.54
Las Vegas	269.84	40.7	6.63	Delaware Valley ⁴	222.74	39.5	5.64
NEW HAMPSHIRE	168.30	39.6	4.25	Erie	217.08	40.2	5.40
Manchester	151.71	38.8	3.91	Harrisburg	187.29	39.1	4.79
Nashua	189.74	40.2	4.72	Johnstown	235.46	38.6	6.10
NEW JERSEY	215.67	40.2	5.37	Lancaster	199.97	39.7	4.70
Atlantic City	168.70	37.6	4.49	Northeast Pennsylvania	153.43	36.1	4.25
Camden ⁴	200.21	39.4	5.09	Philadelphia SMSA ⁵	219.14	39.7	5.52
Hackensack ⁵	209.05	40.9	5.11	Pittsburgh	257.20	40.0	6.43
Jersey City ⁵	207.43	38.8	5.34	Reading	191.30	39.2	4.88
New Brunswick—Perth Amboy—Sayreville ⁵	236.69	41.3	5.73	Scranton ⁶	158.15	37.3	4.24
Newark ⁵	221.76	40.7	5.44	Wilkes-Barre—Hazleton ¹¹	149.32	35.3	4.23
Paterson—Clifton—Passaic ⁵	209.31	41.2	5.08	Williamsport	161.52	38.8	4.73
Trenton	221.94	40.9	5.42	York	192.17	40.8	4.71
NEW MEXICO	160.37	39.5	4.06	RHODE ISLAND	163.93	39.5	4.15
Albuquerque	163.18	39.8	4.10	Providence—Warwick—Pawtucket	165.17	39.8	4.15
NEW YORK	207.64	39.4	5.27	SOUTH CAROLINA	157.96	40.4	3.91
Albany—Schenectady—Troy	226.18	40.9	5.53	Charleston—North Charleston	179.45	40.0	4.42
Binghamton	195.91	40.9	4.79	Columbia	154.45	39.2	3.94
Buffalo	269.86	41.2	6.55	Greenville—Spartanburg	157.17	40.3	3.90
Elmira	203.89	39.9	5.11	SOUTH DAKOTA	179.95	39.9	4.51
Monroe County ⁶	269.22	42.0	6.41	Sioux Falls	234.21	42.2	5.55
Nassau—Suffolk ⁷	193.15	39.1	4.94	TENNESSEE	170.87	40.3	4.24
New York—Northwestern New Jersey	199.68	39.0	5.12	Chattanooga	179.34	40.3	4.45
New York and Nassau—Suffolk ⁸	185.86	37.7	4.93	Knoxville	199.70	40.1	4.98
New York SMSA ⁹	184.38	37.4	4.93	Memphis	203.50	40.1	5.00
New York City ⁸	182.65	37.2	4.91	Nashville—Davidson	181.54	39.9	4.55
Poughkeepsie	218.92	41.7	5.25	TEXAS	204.18	41.0	4.98
Rochester	254.18	41.6	6.11	Amarillo	192.64	40.9	4.71
Rockland County ⁸	206.57	41.9	4.93	Austin	173.43	41.0	4.23
Syracuse	227.28	41.1	5.53	Beaumont—Port Arthur—Orange	283.59	41.1	6.90
Ulster—Rome	198.09	40.1	4.94	Corpus Christi	237.97	42.8	5.56
Westchester County ⁸	200.94	39.4	5.10	Dallas—Fort Worth	189.60	40.6	4.67
NORTH CAROLINA	149.33	39.4	3.79	El Paso	141.64	38.7	3.66
Asheville	146.59	39.3	3.73	Galveston—Texas City	325.87	43.8	7.44
Charlotte—Gastonia	153.90	40.5	3.80	Houston	251.50	42.7	5.89
Greensboro—Winston-Salem—High Point	162.72	39.4	4.13	Lubbock	150.84	41.1	3.67
Raleigh—Durham	166.99	39.2	4.26	San Antonio	156.67	40.8	3.84
NORTH DAKOTA	189.03	39.3	4.81	Waco	170.87	40.3	4.24
Fargo—Moorhead	203.38	39.8	5.11	Wichita Falls	176.73	39.1	4.52
OHIO	252.54	41.4	6.10	UTAH	191.69	39.2	4.89
Akron	253.44	42.1	6.02	Salt Lake City—Ogden	185.57	39.4	4.71
Canton	244.73	39.6	6.18	VERMONT	180.40	41.0	4.40
Cincinnati	232.22	41.1	5.65	Burlington	216.72	43.0	5.04
Cleveland	260.62	41.9	6.22	Springfield	190.95	40.2	4.75
Columbus	226.16	40.1	5.64	VIRGINIA	171.57	39.9	4.30
Dayton	271.30	43.2	6.28	Bristol	149.72	38.0	3.94
Toledo	262.28	41.5	6.32	Lynchburg	173.29	40.3	4.30
Youngstown—Warren	277.29	39.5	7.02	Norfolk—Virginia Beach—Portsmouth	182.61	40.4	4.52
				Northern Virginia ¹²	198.60	39.8	4.99

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS**

**2. Gross hours and earnings of production workers on manufacturing payrolls,
by State and selected areas, 1976—Continued**

STATE AND AREA	AVERAGE			STATE AND AREA	AVERAGE		
	WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS		WEEKLY EARNINGS	WEEKLY HOURS	HOURLY EARNINGS
VIRGINIA—Continued				WEST VIRGINIA—Continued			
Petersburg-Colonial Heights-Hopewell	\$200.46	39.0	\$5.14	Wheeling	\$220.89	39.8	\$5.55
Richmond	207.25	40.4	5.13	WISCONSIN	230.91	40.6	5.69
Roanoke	154.43	39.7	3.89	Appleton-Oshkosh	220.99	41.1	5.38
WASHINGTON	248.68	39.1	6.36	Green Bay	235.62	42.2	5.58
Seattle—Everett	255.84	39.3	6.51	Kenosha	261.19	39.2	6.66
Spokane	220.56	38.9	5.67	La Crosse	195.21	40.6	4.81
Tacoma	247.17	38.5	6.42	Madison	250.47	40.1	6.24
WEST VIRGINIA	212.46	39.2	5.42	Milwaukee	252.05	40.3	6.26
Charleston	250.30	41.1	6.09	Winona	243.66	40.0	6.10
Huntington—Ashland	239.00	39.9	5.99	WYOMING	217.95	40.1	5.44
Parkersburg—Martietta	235.89	40.6	5.81	Casper	265.59	41.4	6.41
				Cheyenne	248.44	40.7	6.10

1 BASED ON THE 1970 STANDARD INDUSTRIAL CLASSIFICATION MANUAL AND MAY NOT BE STRICTLY COMPARABLE WITH DATA PUBLISHED IN TABLE C-13.
2 BASED ON THE 1967 STANDARD INDUSTRIAL CLASSIFICATION MANUAL AND MAY NOT BE STRICTLY COMPARABLE WITH DATA PUBLISHED IN TABLE C-13.
3 BASED ON THE 1967 STANDARD INDUSTRIAL CLASSIFICATION MANUAL.
4 SUBAREA OF PHILADELPHIA, PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: BURLINGTON, CAMDEN, AND GLOUCESTER COUNTIES, NEW JERSEY.
5 SUBAREA OF NEW YORK-NORTHEASTERN NEW JERSEY.
6 SUBAREA OF ROCHESTER STANDARD METROPOLITAN STATISTICAL AREA.
7 AREA INCLUDED IN NEW YORK AND NASSAU-SUFFOLK COMBINED SMSA'S.
8 SUBAREA OF NEW YORK STANDARD METROPOLITAN STATISTICAL AREA.
9 SUBAREA OF PHILADELPHIA, PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: BUCKS, CHESTER, DELAWARE, MONTGOMERY, AND PHILADELPHIA COUNTIES, PENNSYLVANIA.
10 SUBAREA OF NORTHEAST PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: LACKAWANNA COUNTY.
11 SUBAREA OF NORTHEAST PENNSYLVANIA STANDARD METROPOLITAN STATISTICAL AREA: LUZERNE COUNTY.
12 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.
* NOT AVAILABLE

SOURCE—COOPERATING STATE AGENCIES LISTED ON INSIDE BACK COVER.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

3. Labor turnover rates in manufacturing for selected States and areas, 1976

(Per 100 employees)

State and area	Accession rates		Separation rates			State and area	Accession rates		Separation rates		
	Total	New hires	Total	Quits	Layoffs		Total	New hires	Total	Quits	Layoffs
ALABAMA:						MINNESOTA ⁴	3.7	2.7	3.4	1.7	1.1
Birmingham	2.9	1.5	3.0	1.0	1.2	Minneapolis-St. Paul	2.9	2.1	2.7	1.4	.7
Mobile ¹	6.7	3.0	7.8	2.3	4.7	MISSISSIPPI:					
ALASKA	19.7	14.6	17.3	8.3	7.5	Jackson	3.7	2.8	3.4	1.9	.8
ARIZONA	4.1	3.0	3.7	1.8	1.0	MISSOURI ⁸	3.5	2.4	3.4	1.7	1.0
Phoenix	4.0	3.0	3.5	1.7	.9	Kansas City	3.3	2.5	3.5	1.7	1.0
ARKANSAS	6.8	5.3	6.3	4.1	1.1	St. Louis	2.8	1.7	2.7	1.0	1.1
Fort Smith	7.4	5.4	6.9	4.1	1.2	MONTANA	3.5	2.9	3.0	2.4	.8
Little Rock-North Little Rock	5.8	4.7	5.4	3.3	1.0	NEBRASKA	4.5	3.6	4.3	2.6	.9
Pine Bluff	5.9	4.6	5.6	3.4	1.8	NEVADA ⁵	6.4	5.5	6.1	3.4	1.1
COLORADO	(*)	(*)	(*)	(*)	(*)	NEW HAMPSHIRE	3.9	3.1	3.6	2.3	.6
Denver-Boulder	(*)	(*)	(*)	(*)	(*)	NEW JERSEY:					
CONNECTICUT	2.4	1.5	2.4	1.0	.8	Camden	3.0	1.9	3.2	.9	1.5
Hartford	1.6	1.1	1.9	.8	.6	Hackensack	3.7	2.6	3.9	1.5	1.5
DELAWARE ¹	3.0	1.3	2.9	.8	1.3	Jersey City	3.7	2.0	4.6	1.0	2.7
Wilmington ¹	2.8	1.1	2.7	.7	1.3	Newark	3.2	2.0	3.1	1.1	1.3
DISTRICT OF COLUMBIA:						New Brunswick-Parth Amboy-Sayreville	3.7	2.2	4.0	1.1	1.8
Washington SMSA	1.8	1.5	1.7	1.0	.3	Paterson-Clifton-Passaic	4.0	2.4	4.0	1.3	1.9
FLORIDA	5.0	3.8	4.8	2.4	1.4	Trenton	2.6	1.9	2.5	.9	.8
Fort Lauderdale-Hollywood	5.2	4.6	4.5	2.6	.7	NEW YORK ⁶	3.8	2.1	3.8	1.1	1.9
Jacksonville	4.6	3.3	4.7	2.0	1.7	Albany-Schenectady-Troy	2.8	1.6	2.5	.8	.9
Miami	4.3	3.7	4.0	2.1	1.1	Binghamton	2.5	1.5	2.5	.9	1.0
Orlando	4.5	3.3	4.1	2.1	1.2	Buffalo	3.0	1.2	2.8	.5	1.6
Pensacola	2.0	1.4	2.2	1.2	.5	Elmira	3.0	1.6	4.0	.7	2.3
Tampa-St. Petersburg	4.9	3.7	5.0	2.6	1.5	Monroe County	2.0	1.6	1.7	.8	.5
West Palm Beach-Boca Raton	3.1	2.4	3.1	1.5	1.0	Nassau-Suffolk	4.1	3.0	4.3	1.7	1.7
GEORGIA	4.1	3.3	4.0	2.5	.6	New York and Nassau-Suffolk	4.5	2.7	4.6	1.3	2.5
Atlanta ²	3.4	2.6	3.1	1.7	.6	New York SMSA	4.6	2.6	4.8	1.2	2.7
HAWAII ^{3 4}	2.4	1.3	2.5	.8	1.0	New York City	4.8	2.7	5.0	1.2	3.0
IDAHO ⁵	6.0	4.7	6.4	3.3	2.1	Rochester	2.6	1.8	2.3	.9	.9
ILLINOIS:						Syracuse	2.6	1.4	2.4	.8	1.0
Chicago SMSA	3.1	2.3	2.4	1.5	.7	Utica-Rome	2.8	1.4	2.8	.7	1.6
INDIANA	3.2	1.9	3.0	1.2	1.0	Westchester County	2.9	1.8	2.8	1.0	1.0
Indianapolis ⁷	2.3	1.2	2.4	.9	.6	NORTH CAROLINA	4.3	3.5	4.3	2.8	.6
IOWA ⁸	3.6	2.6	3.3	1.8	.8	Charlotte-Gastonia	4.2	3.6	4.3	3.0	.5
Cedar Rapids	3.3	2.0	2.9	1.0	1.3	Greensboro-Winston-Salem-High Point	4.1	3.5	4.0	2.7	.4
Des Moines	3.4	2.3	3.3	2.0	.4	NORTH DAKOTA	4.9	3.5	5.3	3.1	1.5
KANSAS	4.6	3.9	4.8	2.9	1.0	Fargo-Moorhead	6.1	4.2	6.3	2.8	2.5
Topeka	3.7	2.7	3.8	1.7	1.2	OHIO	2.8	1.5	2.7	.9	1.1
Wichita	4.4	3.9	4.4	2.6	.8	Akron	1.7	.8	1.8	.5	.8
KENTUCKY	3.8	2.2	3.7	1.5	1.3	Canton	3.0	1.0	3.1	.8	1.9
Louisville	2.5	1.2	2.5	.7	.8	Cincinnati	2.6	1.6	2.4	.9	.8
LOUISIANA:						Cleveland	2.6	1.6	2.4	1.0	.7
New Orleans	3.7	2.9	4.0	2.1	.9	Columbus	2.4	1.5	2.2	.9	.7
MAINE	6.2	4.4	5.9	3.2	1.9	Columbus	2.4	1.4	2.1	.7	.6
Portland	3.3	2.7	3.8	2.1	.9	Dayton	2.4	1.4	2.1	.7	.6
MARYLAND	3.1	1.8	3.1	1.1	1.4	Toledo	2.6	1.3	2.6	.8	1.0
Baltimore	2.8	1.5	3.0	.9	1.4	Youngstown-Warren	3.0	.6	3.6	.4	2.2
MASSACHUSETTS	3.5	2.4	3.4	1.4	1.2	OKLAHOMA	5.4	4.6	5.1	3.5	.7
Boston	2.9	2.0	3.0	1.2	1.1	Oklahoma City	5.1	4.2	4.7	3.1	.8
MICHIGAN	3.1	1.7	2.7	.8	1.1	Tulsa ¹³	4.9	4.3	5.1	3.2	.8
Detroit	3.1	1.8	2.8	.9	1.1	OREGON ¹	4.9	3.7	4.5	2.3	1.3
Flint	2.4	1.6	1.7	.5	.4	Portland ¹	4.7	3.4	4.2	2.0	1.4
Grand Rapids	4.2	2.1	4.0	1.2	1.8	PENNSYLVANIA	3.3	1.5	3.5	.9	1.9
Lansing-East Lansing	3.6	2.3	2.8	.9	.6	Allentown-Bethlehem-Easton	3.2	1.3	3.5	.9	2.0
						Altoona	3.9	2.3	4.1	1.7	1.8
						Erie	2.8	1.1	3.3	.8	1.7
						Harrisburg	3.1	1.8	3.0	1.3	1.2
						Johnstown	3.6	1.0	4.2	.8	2.4
						Lancaster	2.8	1.9	2.4	1.3	.6

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

3. Labor turnover rates in manufacturing for selected States and areas, 1976—Continued

[Per 100 employees]

State and area	Accession rates		Separation rates			State and area	Accession rates		Separation rates		
	Total	New hires	Total	Quits	Layoffs		Total	New hires	Total	Quits	Layoffs
PENNSYLVANIA—Continued						TEXAS:					
Northeast Pennsylvania	4.5	1.6	5.0	1.1	3.3	Dallas—Fort Worth	4.6	4.1	4.2	2.7	0.5
Philadelphia SMSA	2.9	1.7	2.7	.9	1.3	Houston	4.0	3.6	3.8	2.5	.4
Pittsburgh	3.1	.9	3.4	.5	2.2	San Antonio	4.5	4.0	4.2	2.8	.5
Reading	3.6	1.9	3.3	1.2	1.5	UTAH⁵					
Scranton ¹⁴	4.6	1.9	5.2	1.2	3.5	Salt Lake City—Ogden ⁵	5.2	4.2	4.5	3.0	.7
Wilkes-Barre—Hazleton ¹⁴	4.5	1.5	5.1	1.1	3.2	VERMONT					
Williamsport	2.8	1.4	2.8	.8	1.4	Burlington	3.7	1.9	3.5	1.3	1.6
York	3.8	2.3	3.9	1.5	1.7	Springfield	2.1	1.2	1.4	.5	.5
RHODE ISLAND						VIRGINIA					
Providence—Warwick—Pawtucket	5.4	4.0	5.1	2.6	1.5	Richmond	2.3	1.7	2.1	1.0	.3
SOUTH CAROLINA						WASHINGTON:					
Charleston—North Charleston	4.2	3.5	4.0	2.8	.3	Seattle—Everett ^{4 15}	3.9	2.4	3.6	1.3	1.6
Columbia	4.9	3.9	4.7	2.5	.9	WISCONSIN					
Columbia	3.9	3.2	3.6	2.3	.5	Milwaukee	3.1	1.9	3.0	1.1	1.2
Greenville—Spartanburg	4.9	4.3	4.6	3.2	.3	WYOMING					
SOUTH DAKOTA						.....				
Sioux Falls	5.1	4.1	4.4	2.8	.9	6.3 4.9 6.1 3.8 1.0					
TENNESSEE:											
Memphis	4.0	2.9	3.5	1.8	1.1						
TENNESSEE:											
Memphis	3.8	2.6	3.9	1.6	1.2						

- 1 Excludes canning and preserving.
- 2 Excludes agricultural chemicals, and miscellaneous manufacturing.
- 3 Excludes canned fruits, vegetables, preserves, jams, and jellies.
- 4 Based on the 1972 Standard Industrial Classification Manual and may not be strictly comparable with data published in table D-4.
- 5 Excludes canning and preserving and sugar.
- 6 Based on the 1967 Standard Industrial Classification Manual and may not be strictly comparable with data published in table D-4.
- 7 Excludes canning and preserving and newspapers.
- 8 Based on the 1967 Standard Industrial Classification Manual.
- 9 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
- 10 Subarea of Rochester Standard Metropolitan Statistical Area.
- 11 Area included in New York and Nassau-Suffolk combined SMSA's.
- 12 Subarea of New York Standard Metropolitan Statistical Area.
- 13 Excludes new-hire rate for transportation equipment.
- 14 Subarea of Northeast Pennsylvania.
- 15 Excludes canning and preserving, printing and publishing.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

Area Definitions

ALABAMA		DELAWARE	
Birmingham	Jefferson, St. Clair, Shelby, and Walker Counties	Wilmington.....	New Castle County, Del.; Cecil County, Md.; Salem County, N.J.
Huntsville	Limestone, Madison, and Marshall Counties		
Mobile	Baldwin and Mobile Counties	DISTRICT OF COLUMBIA	
Montgomery.....	Autauga, Elmore, and Montgomery Counties	Washington SMSA	District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md.; Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.
Tuscaloosa	Tuscaloosa County		
ARIZONA		FLORIDA	
Phoenix.....	Maricopa County	Fort Lauderdale-	
Tucson	Pima County	Hollywood.....	Broward County
ARKANSAS		Jacksonville.....	Baker, Clay, Duval, Nassau, and St. Johns Counties
Fayetteville-		Miami	Dade County
Springdale	Benton and Washington Counties	Orlando.....	Orange, Osceola, and Seminole Counties
Fort Smith	Crawford and Sebastian Counties, Ark.; Le Flore and Sequoyah Counties, Okla.	Pensacola.....	Escambia and Santa Rosa Counties
Little Rock-		Tampa-	
N. Little Rock.....	Pulaski and Saline Counties	St. Petersburg	Hillsborough, Pasco, and Pinellas Counties
Pine Bluff.....	Jefferson County	West Palm Beach-	
CALIFORNIA		Boca Raton	Palm Beach County
Anaheim-Santa Ana-		GEORGIA	
Garden Grove	Orange County	Atlanta.....	Butts, Cherokee, Clayton, Cobb, De Kalb Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties
Bakersfield	Kern County	Augusta.....	Columbia and Richmond Counties, Ga.; Aiken County, S. C.
Fresno.....	Fresno County	Columbus	Columbus (consolidated government), and Chattahooche County, Ga.; Russell County, Ala.
Los Angeles-		Macon	Bibb, Houston, Jones, and Twiggs Counties
Long Beach.....	Los Angeles County	Savannah.....	Bryan, Chatham, and Effingham Counties
Modesto.....	Stanislaus County	HAWAII	
Oxnard-Simi		Honolulu	Honolulu County
Valley-Ventura.....	Ventura County	IDAHO	
Riverside-San		Boise City.....	Ada County
Bernardino-Ontario..	San Bernardino and Riverside Counties	ILLINOIS	
Sacramento.....	Placer, Sacramento, and Yolo Counties	Bloomington-Normal..	McLean County
Salinas-Seaside-		Champaign-Urbana-	
Monterey	Monterey County	Rantoul.....	Champaign County
San Diego.....	San Diego County	Chicago-Gary	A Standard Consolidated Statistical Area comprised of Chicago, Ill. SMSA and Gary-Hammond-East Chicago, Ind. SMSA
San Francisco-		Chicago SMSA	Cook, Du Page, Kane, Lake, McHenry, and Will Counties
Oakland	Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties	Davenport-Rock	
San Jose	Santa Clara County	Island-Moline	Henry and Rock Island Counties, Ill.; Scott County, Iowa
Santa Barbara-Santa		Decatur	Macon County
Maria-Lompoc	Santa Barbara County	Peoria.....	Peoria, Tazewell, and Woodford Counties
Santa Rosa	Sonoma County	Rockford.....	Boone and Winnebago Counties
Stockton.....	San Joaquin County	Springfield	Menard and Sangamon Counties
Vallejo-Fairfield-		INDIANA	
Napa	Napa and Solano Counties	Anderson	Madison County
COLORADO		Evansville.....	Gibson, Posey, Vanderburgh, and Warrick Counties, Ind.; Henderson County, Ky.
Denver-Boulder.....	Adams, Arapahoe, Boulder, Clear Creek, Denver, Douglas, Gilpin, and Jefferson Counties	Fort Wayne.....	Adams, Allen, DeKalb, and Wells Counties
CONNECTICUT		Gary-Hammond-	
Bridgeport	Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; Derby and Milford cities in New Haven County (formerly excluded Derby city)	East Chicago.....	Lake and Porter Counties
Hartford	Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Colchester town in New London County; Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Somers, Stafford, Tolland, Vernon, and Willington towns in Tolland County (formerly excluded Andover, Colchester, Columbia, Coventry, Hebron, Marlborough, and Willington towns)	Indianapolis	Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties
New Britain	New Britain city, and Berlin, Plainville, and Southington towns in Hartford County (formerly excluded Southington town)	Lafayette-	
New Haven-		West Lafayette	Tippecanoe County
West Haven	New Haven and West Haven cities, and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County; Clinton town in Middlesex County (formerly excluded Clinton and Wallingford towns)	Muncie.....	Delaware County
Stamford.....	Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County	South Bend	Marshall and St. Joseph Counties
Waterbury.....	Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County; Bethlehem, Thomaston, Watertown, and Woodbury towns in Litchfield County	Terre Haute.....	Clay, Sullivan, Vermillion, and Vigo Counties
		IOWA	
		Cedar Rapids	Linn County
		Des Moines.....	Polk and Warren Counties
		Dubuque.....	Dubuque County
		Sioux City.....	Woodbury County, Iowa; Dakota County, Neb.
		Waterloo-Cedar Falls..	Black Hawk County
		KANSAS	
		Topeka.....	Jefferson, Osage, and Shawnee Counties
		Wichita	Butler and Sedgwick Counties
		KENTUCKY	
		Lexington-Fayette....	Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties
		Louisville.....	Bullitt, Jefferson, and Oldham Counties, Ky.; Clark and Floyd Counties, Ind.

Area Definitions--Continued

LOUISIANA

AlexandriaAvoyelles, Grant, and Rapides Parishes
 Baton Rouge.....Ascension, East Baton Rouge, Livingston,
 and West Baton Rouge Parishes
 Lake Charles.....Calcasieu Parish
 LafayetteLafayette Parish
 MonroeOuachita Parish
 New Orleans.....Jefferson, Orleans, St. Bernard, and
 St. Tammany Parishes
 ShreveportBossier, Caddo, and Webster Parishes

MAINE

Lewiston-Auburn.....Auburn and Lewiston cities, and Lisbon
 town in Androscoggin County
 PortlandPortland, South Portland, and Westbrook
 cities, and Cape Elizabeth, Cumberland,
 Falmouth, Freeport, Gorham, Scarbo-
 rough, Windham, and Yarmouth towns in
 Cumberland County; Saco city, and Old
 Orchard Beach town in York County

MARYLAND

Baltimore.....Baltimore city, and Anne Arundel,
 Baltimore, Carroll, Harford, and
 Howard Counties

MASSACHUSETTS

Boston.....Suffolk County; Cambridge, Everett,
 Malden, Medford, Melrose, Newton,
 Somerville, Waltham, and Woburn cities,
 and Acton, Arlington, Ashland, Bedford
 Belmont, Boxborough, Burlington,
 Carlisle, Concord, Framingham,
 Holliston, Lexington, Lincoln, Natick,
 North Reading, Reading, Sherborn,
 Stoneham, Sudbury, Wakefield, Water-
 town, Wayland, Weston, Wilmington, and
 Winchester towns in Middlesex County;
 Beverly, Lynn, Peabody, and Salem cities,
 and Boxford, Danvers, Hamilton, Lynnfield,
 Manchester, Marblehead, Middleton,
 Nahant, Saugus, Swampscott, Topsfield,
 and Wenham towns in Essex County;
 Quincy city, and Bellingham, Braintree,
 Brookline, Canton, Cohasset, Dedham,
 Dover, Foxborough, Franklin, Holbrook,
 Medfield, Medway, Millis, Milton, Need-
 ham, Norfolk, Norwood, Randolph, Sharon,
 Stoughton, Walpole, Wellesley, Westwood,
 Weymouth, and Wrentham towns in Norfolk
 County; Abington, Duxbury, Hanover,
 Hanson, Hingham, Hull, Kingston, Marsh-
 field, Norwell, Prembroke, Rockland, and
 Scituate towns in Plymouth County
 Brockton.....Brockton city, and Bridgewater, East Bridge-
 water, Halifax, West Bridgewater, and
 Whitman towns in Plymouth County;
 Easton town in Bristol County; Avon town
 in Norfolk County
 Fall River.....Fall River city, and Dighton, Somerset,
 Swansea, and Westport towns in Bristol
 County, Mass.; Little Compton and
 Tiverton towns in Newport County, R. I.
 Lawrence-Haverhill...Lawrence and Haverhill cities, and
 Amesbury, Andover, Georgetown, Grove-
 land, Merrimac, Methuen, North Andover,
 Salisbury, and West Newbury towns in
 Essex County, Mass.; Atkinson, Hampstead,
 Kingston, Newton, Plaistow, Salem, and
 Windham towns in Rockingham County,
 N. H.
 Lowell.....Lowell city, and Billerica, Chelmsford,
 Dracut, Dunstable, Trewksbury, Tyngsbo-
 rough, and Westford towns in Middlesex
 County
 New Bedford.....New Bedford city, and Acushnet, Dartmouth,
 Fairhaven, and Freetown towns in Bristol
 County; Lakeville, Marion, Mattapoisett,
 and Rochester towns in Plymouth County
 Springfield-Chicopee-
 Holyoke.....Chicopee, Holyoke, Springfield, and West-
 field cities, and Agawam, Brimfield, East
 Longmeadow, Granville, Hampden, Long-
 meadow, Ludlow, Monson, Montgomery,
 Palmer, Russell, Southwick, Wales, West
 Springfield, and Wilbraham towns in Hampden
 County; Northampton city, and Amherst,
 Belchertown, Chesterfield, Easthampton,
 Granby, Hadley, Hatfield, Pelham, South
 Hadley, Southampton, Westhampton, and
 Williamsburg towns in Hampshire County;
 Warren town in Worcester County

MASSACHUSETTS--Continued

Worcester.....Worcester city, and Auburn, Berlin, Boylston,
 Brookfield, Charlton, Douglas, East Brook-
 field, Grafton, Holden, Leicester, Millbury,
 Northborough, Northbridge, North Brookfield,
 Oxford, Paxton, Rutland, Shrewsbury, Spencer,
 Sterling, Sutton, Upton, Uxbridge, Webster,
 Westborough, and West Bostlston towns in
 Worcester County

MICHIGAN

Ann Arbor.....Washtenaw County
 Battle Creek.....Barry and Calhoun Counties
 Bay CityBay County
 DetroitLapeer, Livingston, Macomb, Oakland,
 St. Clair, and Wayne Counties
 FlintGenesee and Shiawassee Counties
 Grand Rapids.....Kent and Ottawa Counties
 Jackson.....Jackson County
 Kalamazoo-Portage...Kalamazoo and Van Buren Counties
 Lansing-East Lansing..Clinton, Eaton, Ingham, and Ionia
 Counties
 Muskegon-Norton
 Shores-Muskegon
 Heights.....Muskegon and Oceana Counties
 Saginaw.....Saginaw County

MINNESOTA

Duluth-Superior.....Duluth city, Minn.; Douglas County, Wisc.
 Minneapolis-St. Paul..Anoka, Carver, Chisago, Dakota,
 Hennepin, Ramsey, Scott, Washington,
 and Wright Counties

MISSISSIPPI

Jackson.....Hinds and Rankin Counties

MISSOURI

Kansas City.....Cass, Clay, Jackson, Platte, and Ray
 Counties, Mo.; Johnson and Wyandotte
 Counties, Kans.
 St. Joseph.....Andrew and Buchanan Counties
 St. Louis.....St. Louis city, and Franklin, Jefferson, St.
 Charles, and St. Louis Counties, Mo.;
 Clinton, Madison, Monroe, and St. Clair
 Counties, Ill.
 SpringfieldChristian and Greene Counties

MONTANA

Billings.....Yellowstone County
 Great Falls.....Cascade County

NEBRASKA

LincolnLancaster County
 Omaha.....Douglas and Sarpy Counties, Nebr.;
 Pottawattamie County, Iowa

NEVADA

Las Vegas.....Clark County; Beatty Township in Nye
 County
 Reno.....Washoe County

NEW HAMPSHIRE

Manchester.....Manchester city, and Bedford and Goffstown
 towns in Hillsborough County; Allenstown,
 Hooksett, and Pembroke towns in Merrimack
 County; Derry and Londerry towns in Rocking-
 ham County (formerly excluded Allenstown,
 Derry, Pembroke, and Londerry towns)
 Nashua.....Nashua city, and Amherst, Hudson,
 Merrimack, Milford, and Pelham towns
 in Hillsboro County

NEW JERSEY

Atlantic City.....Atlantic County
 Camden.....Burlington, Camden, and Gloucester
 Counties
 Hackensack.....Bergen County
 Jersey City.....Hudson County
 Long Branch-
 Asbury Park.....Monmouth County
 New Brunswick-Perth
 Amboy-Sayreville....Middlesex County
 NewarkEssex, Morris, Somerset, and Union
 Counties

Area Definitions--Continued

NEW JERSEY--Continued

Paterson-Clifton-
Passaic..... Passaic County
Trenton..... Mercer County
Vineland-Millville-
Bridgeton..... Cumberland County

NEW MEXICO

Albuquerque..... Bernalillo and Sandoval Counties

NEW YORK

Albany-Schenectady-
Troy..... Albany, Montgomery, Rensselaer,
Saratoga, and Schenectady Counties
Binghamton..... Broome and Tioga Counties, N. Y.;
Susquehanna County, Pa.
Buffalo..... Erie and Niagara Counties
Elmira..... Chemung County
Monroe County..... Monroe County
Nassau-Suffolk..... Nassau and Suffolk Counties
New York-
Northeastern
New Jersey..... A consolidated area comprised of New
York, N. Y. SMSA; Nassau-Suffolk, N. Y.
SMSA; Newark, N. J. SMSA; New Brun-
swick-Perth Amboy-Sayreville, N. J.
SMSA; Jersey City, N. J. SMSA;
Paterson-Clifton-Passaic, N. J. SMSA;
and the Hackensack, N. J. area
New York and Nassau-
Suffolk..... New York City, and Nassau, Putnam,
Rockland, Suffolk, and Westchester
Counties
New York SMSA..... New York City, and Putnam, Rockland
and Westchester Counties
New York City..... Bronx, Kings, New York, Queens, and
Richmond Counties
Poughkeepsie..... Dutchess County
Rochester..... Livingston, Monroe, Ontario, Orleans,
and Wayne Counties
Rockland County..... Rockland County
Syracuse..... Madison, Onondaga, and Oswego Counties
Utica-Rome..... Herkimer and Oneida Counties
Westchester County... Westchester County

NORTH CAROLINA

Asheville..... Buncombe and Madison Counties
Charlotte-Gastonia... Gaston, Mecklenburg, and Union Counties
Greensboro-Winston-
Salem-High Point... Davidson, Forsyth, Guilford, Randolph,
Stokes, and Yadkin Counties
Raleigh-Durham..... Durham, Orange, and Wake Counties

NORTH DAKOTA

Fargo-Moorhead..... Cass County, N. D.; Clay County, Minn.

OHIO

Akron..... Portage and Summit Counties
Canton..... Carroll and Stark Counties
Cincinnati..... Clermont, Hamilton, and Warren Counties,
Ohio; Boone, Campbell, and Kenton
Counties, Ky.; Dearborn County, Ind.
Cleveland..... Cuyahoga, Geauga, Lake, and Medina
Counties
Columbus..... Delaware, Fairfield, Franklin, Madison,
and Pickaway Counties
Dayton..... Greene, Miami, Montgomery, and Preble
Counties
Toledo..... Fulton, Lucas, Ottawa, and Wood Counties,
Ohio; Monroe County, Mich.
Youngstown-Warren... Mahoning and Trumhull Counties

OKLAHOMA

Oklahoma City..... Canadian, Cleveland, McClain, Oklahoma,
and Pottawatomie Counties
Tulsa..... Creek, Mayes, Osage, Rogers, Tulsa,
and Wagoner Counties

OREGON

Eugene-Springfield... Lane County
Jackson County..... Jackson County
Portland..... Clackamas, Multnomah, and Washington
Counties, Oreg.; Clark County, Wash.
Salem..... Marion and Polk Counties

PENNSYLVANIA

Allentown-Bethlehem-
Easton..... Carbon, Lehigh, and Northampton
Counties, Pa.; Warren County, N. J.
Altoona..... Blair County
Delaware Valley..... Bucks, Chester, Delaware, Montgomery,
and Philadelphia Counties
Erie..... Erie County

PENNSYLVANIA--Continued

Harrisburg..... Cumberland, Dauphin, and Perry
Counties
Johnstown..... Cambria and Somerset Counties
Lancaster..... Lancaster County
Northeast-
Pennsylvania..... Lackawanna, Luzerne, and Monroe
Counties
Philadelphia SMSA.... Bucks, Chester, Delaware, Montgomery,
and Philadelphia Counties, Pa.; Burling-
ton, Camden, and Gloucester Counties,
N. J.
Philadelphia City..... Philadelphia County
Pittsburgh..... Allegheny, Beaver, Washington, and
Westmoreland Counties
Reading..... Berks County
Scranton..... Lackawanna County
Wilkes-Barre-
Hazleton..... Luzerne County
Williamsport..... Lycoming County
York..... Adams and York Counties

RHODE ISLAND

Providence-Warwick-
Pawtucket..... Central Falls, Cranston, East Providence,
Pawtucket, Providence, and Woonsocket
cities, and Burrillville, Cumberland,
Foster, Glocester, Johnston, Lincoln,
North Providence, North Smithfield,
Scituate, and Smithfield towns in
Providence County, R. I.; Exeter,
Narragansett, North Kingstown, Richmond,
and South Kingstown towns in Washington
County, R. I.; Warwick city, and Coventry,
East Greenwich, West Greenwich, and
West Warwick towns in Kent County, R. I.;
Jamestown and New Shoreham towns in
Newport County, R. I.; Bristol County,
R. I.; Attleboro city, and North Attleboro,
Norton, Rehoboth, and Seekonk towns in
Bristol County, Mass.; Plainville town in
Norfolk County, Mass.; Blackstone and
Millville towns in Worcester County, Mass.

SOUTH CAROLINA

Charleston-North
Charleston..... Berkeley, Charleston, and Dorchester
Counties
Columbia..... Lexington and Richland Counties
Greenville-
Spartanburg..... Greenville, Pickens, and Spartanburg
Counties

SOUTH DAKOTA

Rapid City..... Pennington County
Sioux Falls..... Minnehaha County

TENNESSEE

Chattanooga..... Hamilton, Marion, and Sequatchie
Counties, Tenn.; Catoosa, Dade, and
Walker Counties, Ga.
Knoxville..... Anderson, Blount, Knox, and Union
Counties; portion of Oak Ridge in Roane
County
Memphis..... Shelby and Tipton Counties, Tenn.;
Crittenden County, Ark.
Nashville-Davidson... Cheatham, Davidson, Dickson, Robertson,
Rutherford, Sumner, Williamson, and
Wilson Counties

TEXAS

Amarillo..... Potter and Randall Counties
Austin..... Hays and Travis Counties
Beaumont-Port
Arthur-Orange..... Hardin, Jefferson, and Orange Counties
Corpus Christi..... Nueces and San Patricio Counties
Dallas-Fort Worth... Collin, Dallas, Denton, Ellis, Hood,
Johnson, Kaufman, Parker, Rockwall,
Tarrant, and Wise Counties
El Paso..... El Paso County
Galveston-
Texas City..... Galveston County
Houston..... Brazoria, Fort Bend, Harris, Liberty,
Montgomery, and Waller Counties
Lubbock..... Lubbock County
San Antonio..... Bexar, Comal, and Guadalupe Counties
Waco..... McLennan County
Wichita Falls..... Clay and Wichita Counties

UTAH

Salt Lake City-
Ogden..... Davis, Morgan, Salt Lake, Tooele, and
Weber Counties

VERMONT

Burlington..... Chittenden County; Grand Isle and South
Hero towns in Grand Isle County

Area Definitions--Continued

VERMONT--Continued

Springfield Athens, Grafton, Londonderry, Rockingham (includes Bellows Falls), Westminster, and Windham towns in Windham County; Andover, Baltimore, Cavendish, Chester, Ludlow, Reading, Springfield, Weathersfield, Weston, West Windsor, and Windsor towns in Windsor County

VIRGINIA

Bristol Bristol city, and Scott and Washington Counties
 Lynchburg Lynchburg city, and Amherst, Appomattox, and Campbell Counties
 Newport News-Hampton Hampton, Newport News, and Williamsburg cities, and James City and York Counties
 Norfolk-Virginia Beach-Portsmouth Chesapeake, Norfolk, Portsmouth, Suffolk, and Virginia Beach cities, Va.; Currituck County, N. C.
 Northern Virginia Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties
 Petersburg-Colonial Heights-Hopewell Colonial Heights, Hopewell, and Petersburg cities, and Dinwiddie and Prince Georges Counties
 Richmond Richmond city, and Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, and Powhatan Counties
 Roanoke Roanoke and Salem cities, and Botetourt, Craig, and Roanoke Counties

WASHINGTON

Seattle-Everett King and Snohomish Counties
 Spokane Spokane County
 Tacoma Pierce County

WEST VIRGINIA

Charleston Kanawha and Putnam Counties
 Huntington-Ashland Cabell and Wayne Counties, W. Va.; Boyd and Greenup Counties, Ky.; Lawrence County, Ohio
 Parkersburg-Marietta Wirt and Wood Counties, W. Va.; Washington County, Ohio
 Wheeling Marshall and Ohio Counties, W. Va.; Belmont County, Ohio

WISCONSIN

Appleton-Oshkosh Calumet, Outagamie, and Winnebago Counties
 Green Bay Brown County
 Kenosha Kenosha County
 La Crosse La Crosse County
 Madison Dane County
 Milwaukee Milwaukee, Ozaukee, Washington, and Waukesha Counties
 Racine Racine County

WYOMING

Casper Natrona County
 Cheyenne Laramie County

Explanatory Notes

Introduction

Household Data (A tables)

Establishment Data (B, C, and D tables)

State and Area Unemployment Data (E table)

Seasonal Adjustment

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 de-

ived 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. Sampling 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 housework," "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

(In thousands)

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

(In thousands)

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	111	139

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 rehired 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 previous month, for 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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