

Employment and Earnings

January 1979



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1978 annual averages





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CALENDAR OF SPECIAL FEATURES								
Features	Jan.	Feb.	Mar.	Apr.	May	Jul.	Oct.	Dec.
Household data								
Annual averages	x							
Revised seasonally adjusted series		x						
Quarterly averages:								
Seasonally adjusted data								
Persons not in labor force								
Persons of Hispanic origin	x			x		x	x	
Vietnam-Era veterans and nonveterans								
Poverty-nonpoverty area data								
Family relationship data								
Establishment data								
National annual averages:								
Industry divisions (preliminary)	x							
Industry detail (final)			x					
National data adjusted to new benchmarks							(1)	
Revised seasonally adjusted series							(2)	
State and area annual averages					x			
Area definitions					x			

¹ The issue that introduces new benchmarks varies. The October 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

² Revised data introduced October 1978.

Employment and Earnings

Vol. 26 No. 1 January 1979

Editors: Chester L. Green, Gloria P. Green, Marc Weinstein

Editor's Note

It is the annual practice of the Bureau of Labor Statistics to recalculate the seasonal adjustment factors for unemployment and other labor force series derived from the Current Population Survey (household survey) to incorporate the experience of the previous year. These revisions are usually published in conjunction with January data in the February issue of this publication. However, due to a speed-up in computer processing, it was possible to recalculate the seasonal adjustment in time for publication of revised data in this issue. Thus, Tables 1, 2, 33-53, and 67 reflect revised seasonally adjusted data.

Revised data for the entire 1974-78 revision period for a broad range of labor force series, a description of the current seasonal adjustment procedures, and seasonal adjustment factors to be used to calculate the overall unemployment rate during 1979 will appear in the February 1979 issue.

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Employment and Unemployment Developments, December 1978

Total employment and unemployment in December remained close to their November levels. The overall unemployment rate was 5.9 percent, not much different from November, but lower than the rates prevailing in early 1978.

Total employment—as measured by the monthly survey of households—was 95.9 million in December. Over the past year, total employment has risen by 3.0 million.

In contrast, nonfarm payroll employment—as measured by the monthly survey of establishments—continued to expand in December, rising by 250,000 to 87.3 million. Over the year, nonfarm payroll jobs have increased by 3.6 million.

Unemployment

Both the total number of persons unemployed in December—6.0 million—and the overall unemployment rate—5.9 percent—were little changed from a month earlier. Among the major demographic groups, the unemployment rates for adult men (4.1 percent), adult women (5.8 percent), and teenagers (16.5 percent) were little changed from November. Likewise, joblessness among whites and blacks and in most other worker categories showed little or no change. However, virtually all worker groups have shown some improvement since December 1977, with a few notable exceptions, including teenagers and women who head families. (See table A-36.)

The median duration of unemployment in December was 5.6 weeks, not much different from the November level. Median duration was more than a week shorter than a year earlier, a reflection of reductions in long-term unemployment as well as an increase in short duration joblessness of less than 5 weeks. (See table A-37.)

Total employment and the labor force

Total employment was little changed in December at 95.9 million, following a gain of half a million in the prior month. Over the past year, employment has risen by 3.0 million. Reflecting this expansion, the employment-population ratio—the proportion of the total noninstitutional population that is employed—has increased substantially to a record 59.1 percent. The civilian labor force edged up slightly over the month to 101.9 million in December, but also has expanded substantially over the year. (See table A-33.)

Over-the-year developments

The highlight of the Nation's job situation in 1978 was the strong increase in employment. Gains were pervasive

throughout the economy, occurring in every major nonfarm industry and among all major worker groups. This marked the third consecutive year of sharp expansion in employment. Most of the over-the-year increase resulted from an expansion of full-time jobs.

The jobless rate declined in 1978, though more gradually than during the prior 2½ years. From 6.6 percent in late 1977, the rate moved to 6.2 percent in the first quarter, was 6.0 percent during the middle two quarters, and then edged down to 5.8 percent in the final quarter. Declines were registered among both black and white workers and for adult men and women, while the rate for teenagers was about unchanged. Teenagers continued to comprise a growing proportion of the unemployed, as more than 1 of every 4 unemployed persons was under 20 years of age.

The 2.8-million expansion in the labor force over the course of 1978 was only slightly less than the growth in the prior year. Adult women increased their numbers in the labor force by nearly 1.7 million from the fourth quarter of 1977, adult men by almost a million, and teenagers by 200,000 (despite a slightly declining population). The overall labor force participation rate rose substantially over the year to a new high of 63.5 percent in the fourth quarter of 1978. An unprecedented 50 percent of adult women and nearly 60 percent of teenagers were in the labor force; the rate for adult men was about unchanged at close to 80 percent.

Discouraged workers

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

Following a quarter of no change, the number of discouraged workers resumed the downward trend that began in late 1977, falling almost 100,000 to 760,000 during the fourth quarter. As usual, about two-thirds of this total indicated job-market factors as the reasons for not seeking work. (See table A-53.)

Industry payroll employment

Nonagricultural payroll employment increased by 250,000 in December to 87.3 million, as employment advanced in 76 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment. Nonfarm jobs have risen by 3.6 million over the past year. (See tables B-4 and B-7.)

Over-the-month employment gains were posted in most of the major industry groups. The largest increase, for the third consecutive month, was in manufacturing (125,000). About two-thirds of the gain in factory employment occurred in the durable goods industries. Within the durable goods, most of the strength was, once again, in the major metals and metal-using industries, led by machinery, transportation equipment, and fabricated metals. Employment increases in nondurables occurred primarily in food processing and printing and publishing. Elsewhere in the goods sector, sizeable growth was registered in construction jobs (45,000), while mining employment was unchanged.

In the service-producing sector, the largest increases occurred in services (35,000), State and local government (25,000), wholesale trade (20,000), and transportation and public utilities (20,000). There was also growth in finance, insurance, and real estate.

The only industry in the service-producing sector where employment declined was retail trade, as retailers apparently added fewer than usual extra workers for the Christmas season. Employment growth in retail trade has been generally strong throughout the year.

Hours

The average workweek for production or nonsuper-

visory workers on private nonagricultural payrolls was 35.8 hours in December, unchanged from November and about in line with levels prevailing over the past year. The manufacturing workweek inched down 0.1 hour to 40.6 hours in December, but factory overtime, at 3.8 hours, increased by 0.2 hour. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls was 122.5 (1967=100) in December, 0.2 point above the November index. The overall index has increased by 4.3 percent from a year ago. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls increased 0.7 percent in December and 9.1 percent from a year ago (seasonally adjusted). Average weekly earnings were also up 0.7 percent over the month; weekly earnings have risen by 8.8 percent since December 1977.

Before adjustment for seasonality, average hourly earnings rose 3 cents to \$5.90, 50 cents above last December; average weekly earnings were \$212.40, \$2.25 above November and \$16.92 higher than a year earlier. (See tables C-1 and C-9.)

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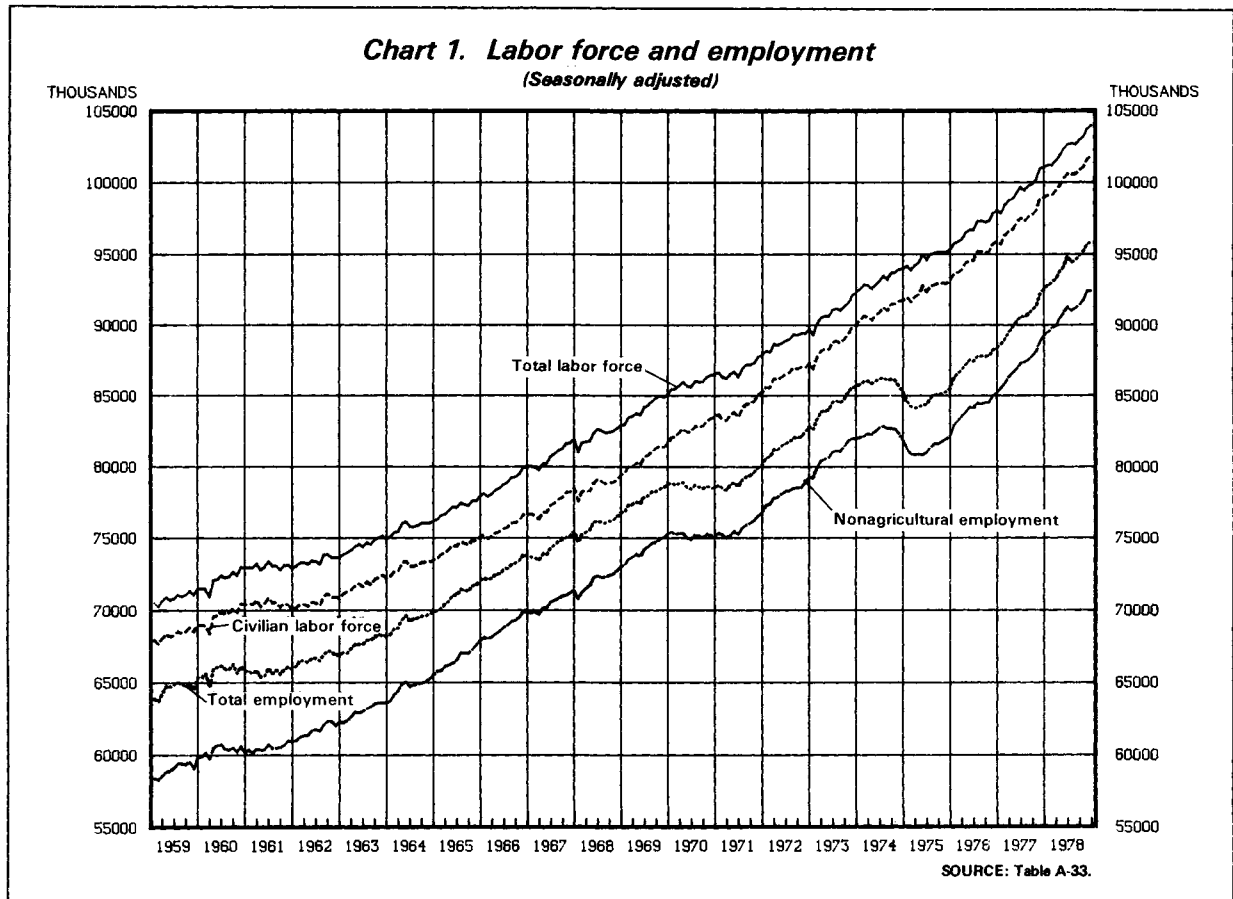
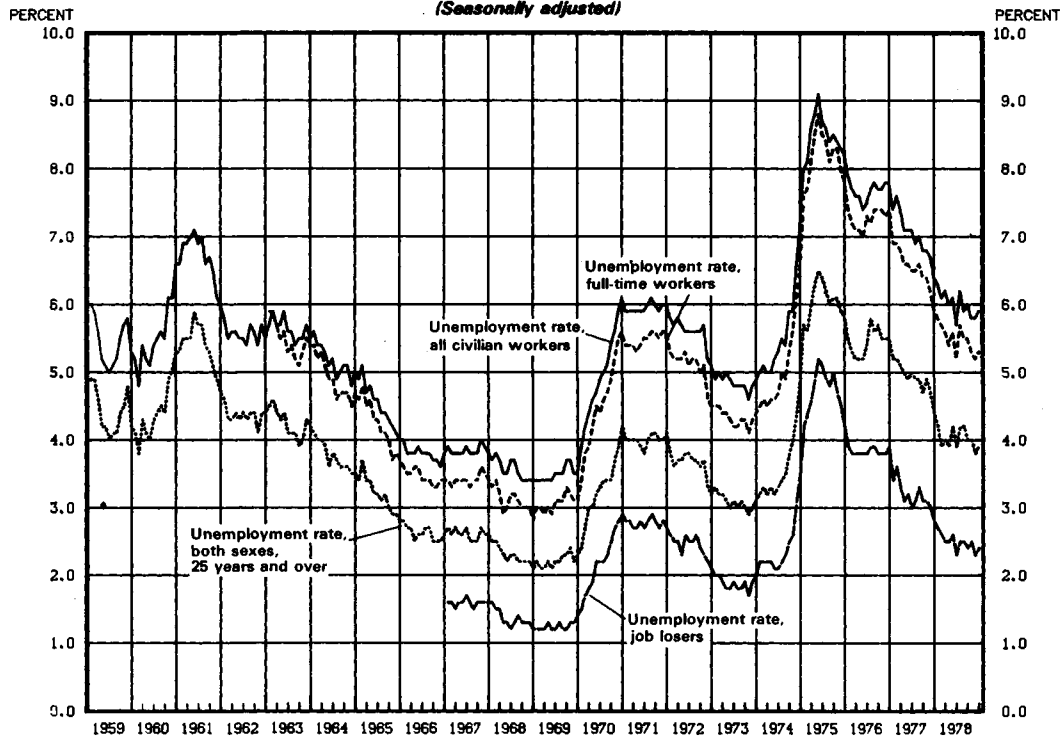
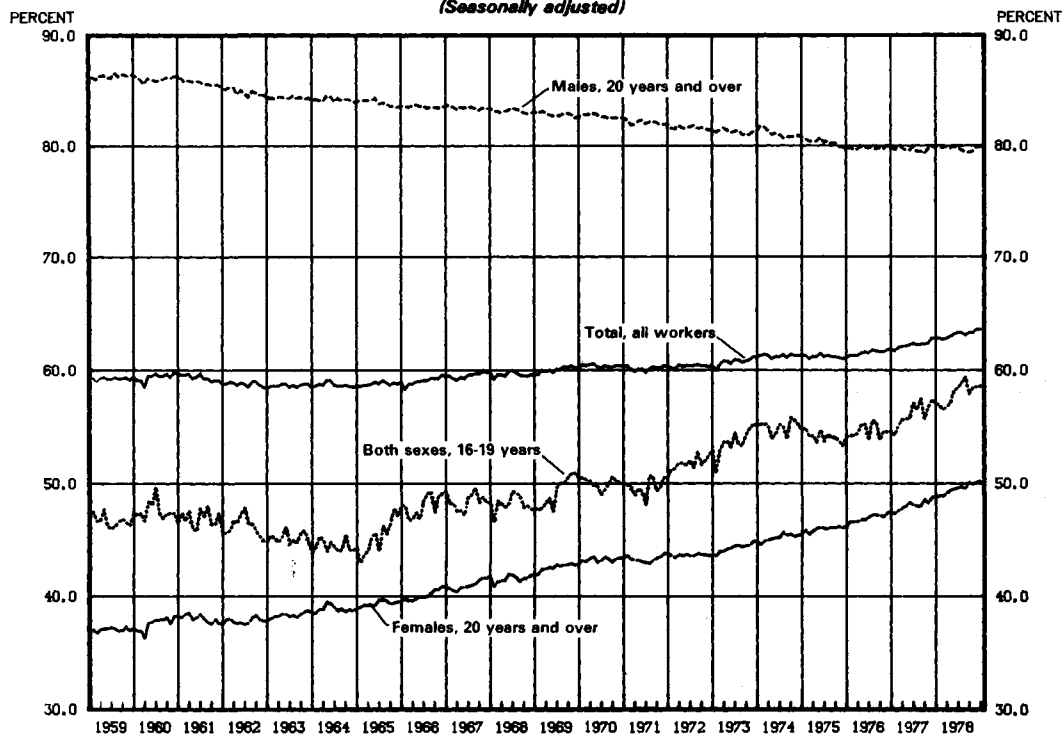


Chart 2. Major unemployment indicators
(Seasonally adjusted)



SOURCE: Tables A-36, A-38, and A-39.

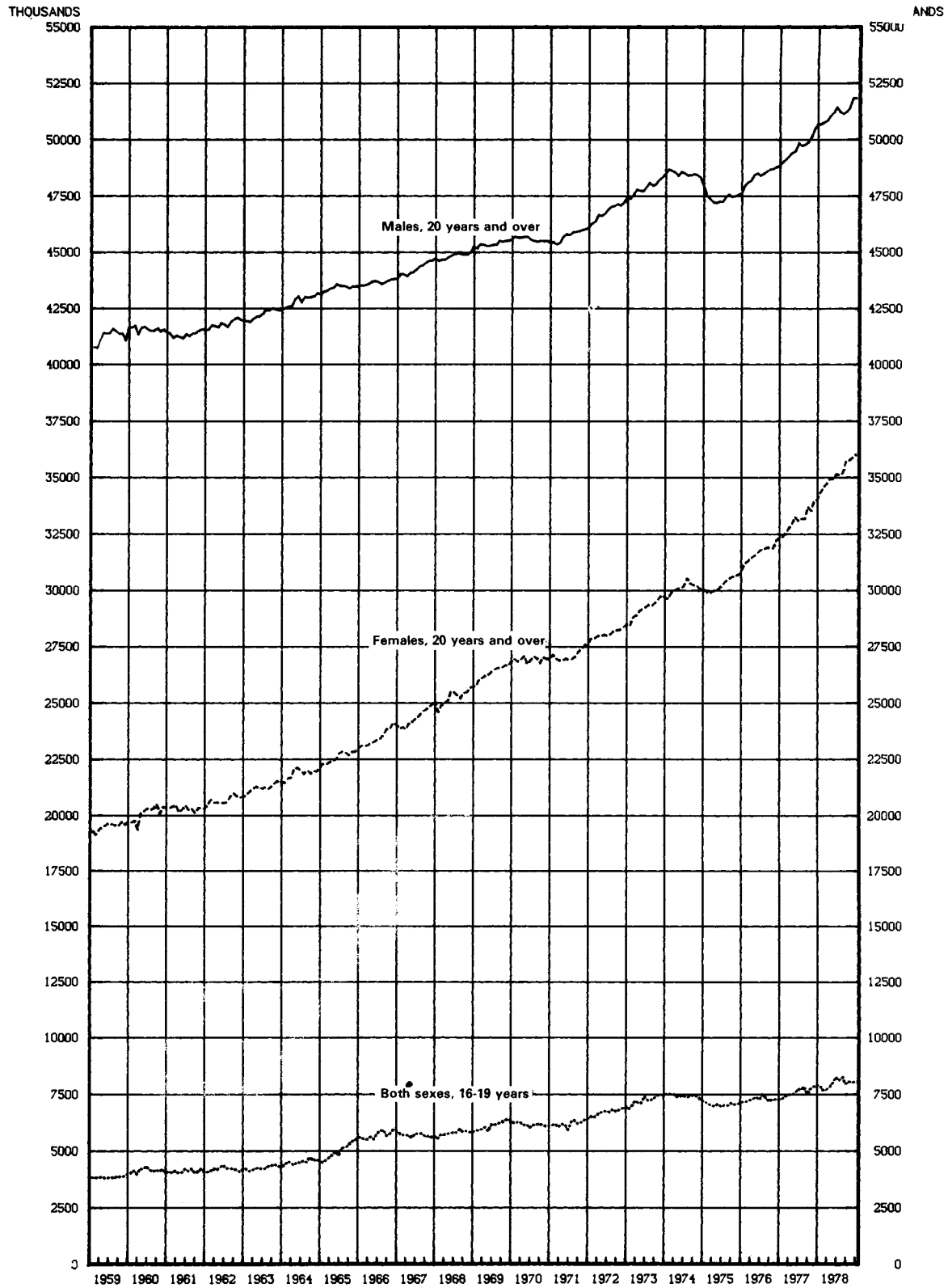
Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

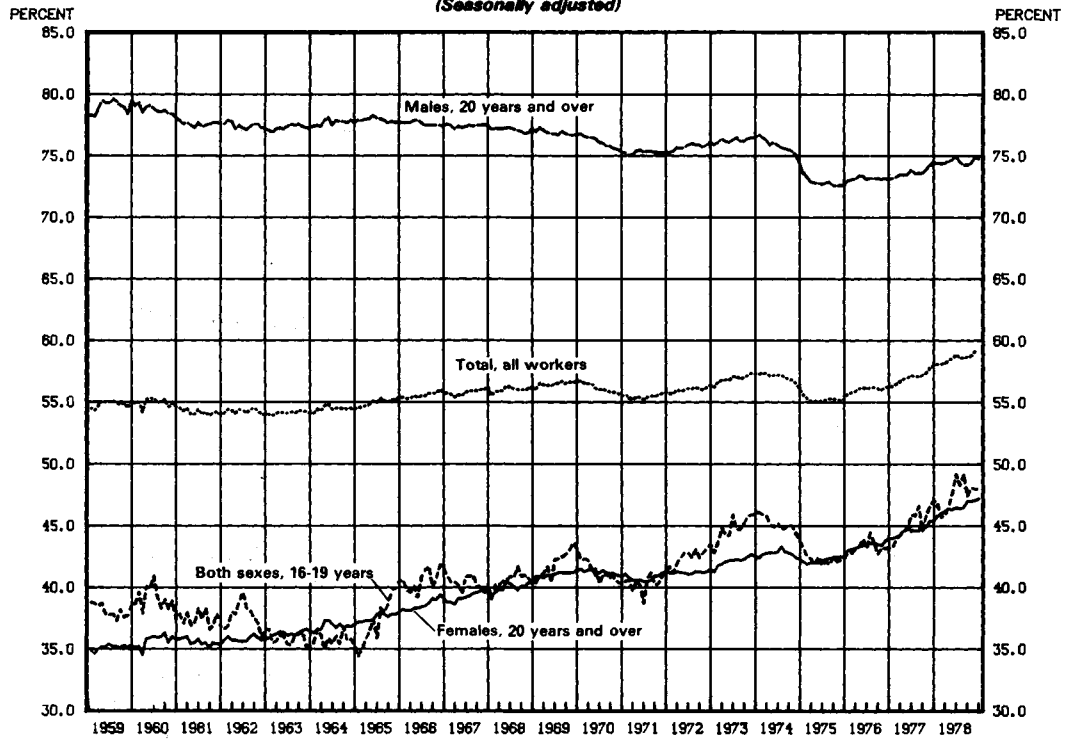
Chart 4. Total employment by sex and age

(Seasonally adjusted)



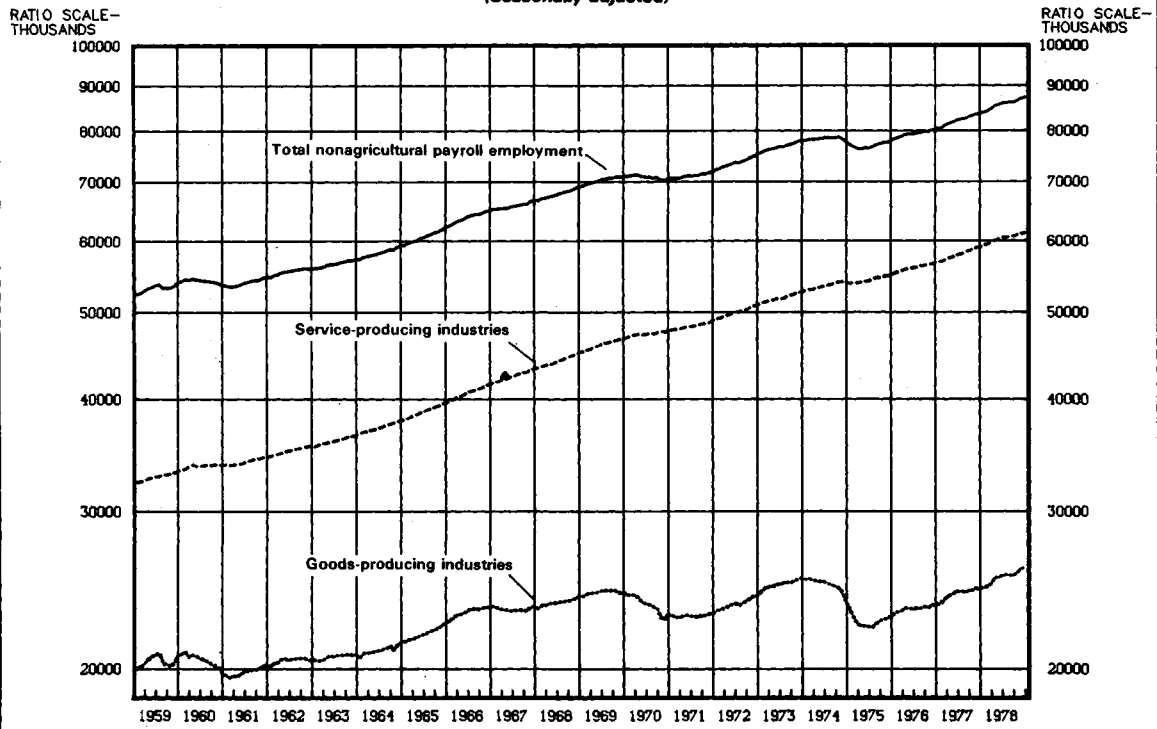
SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 6. Payroll employment in goods-and service-producing industries
(Seasonally adjusted)

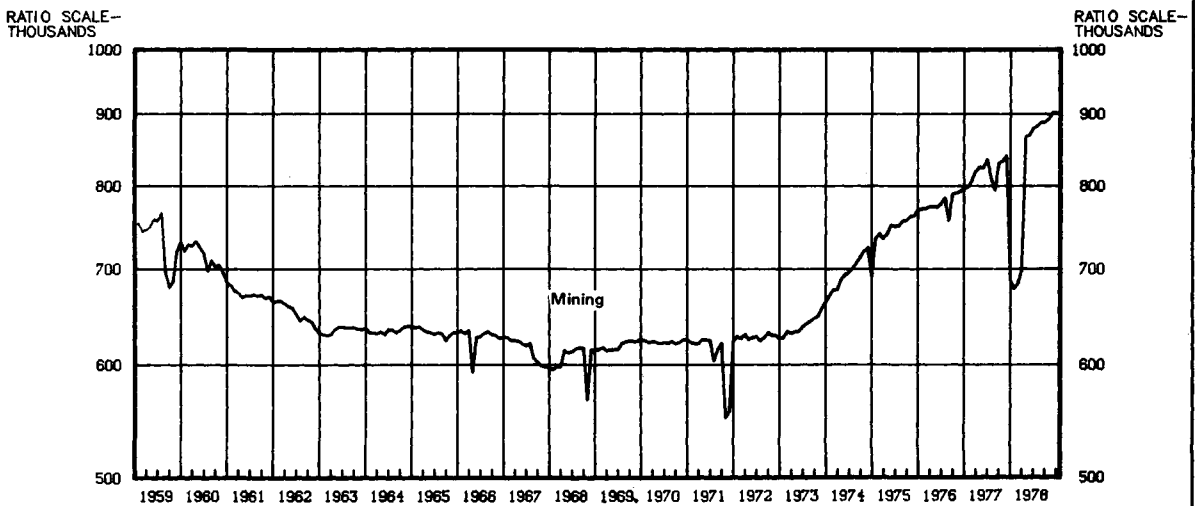
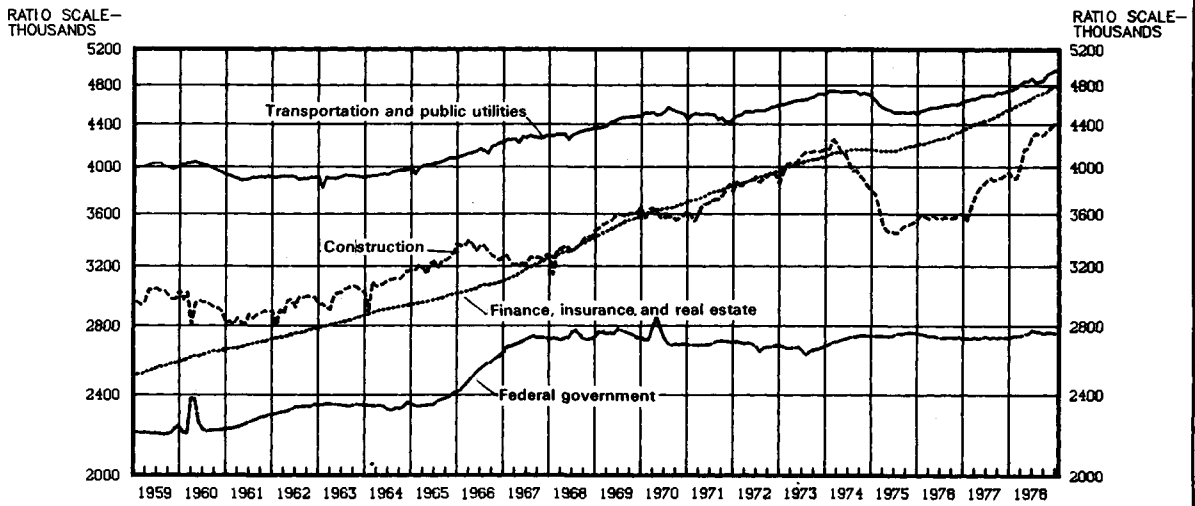
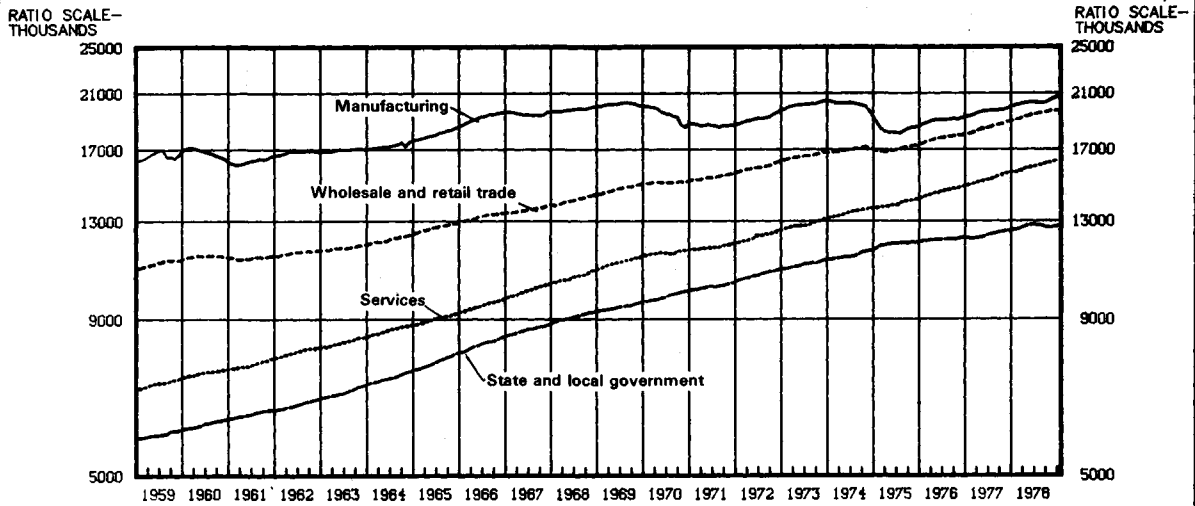


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

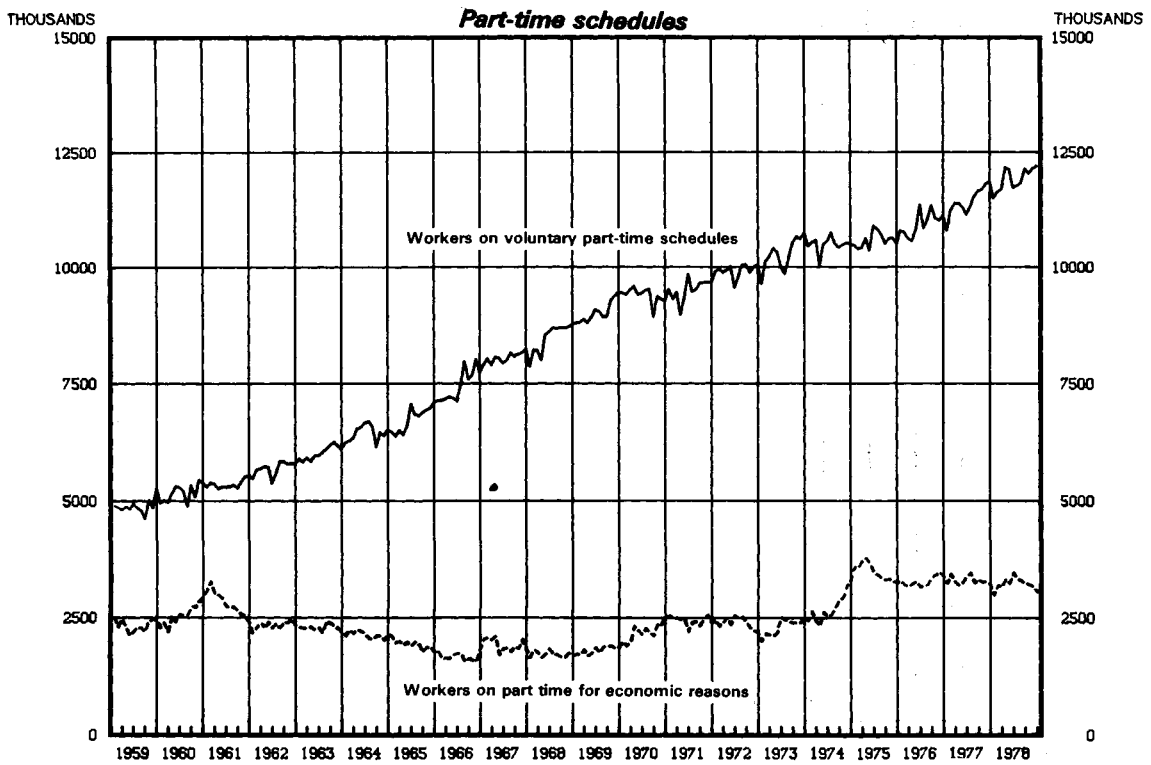
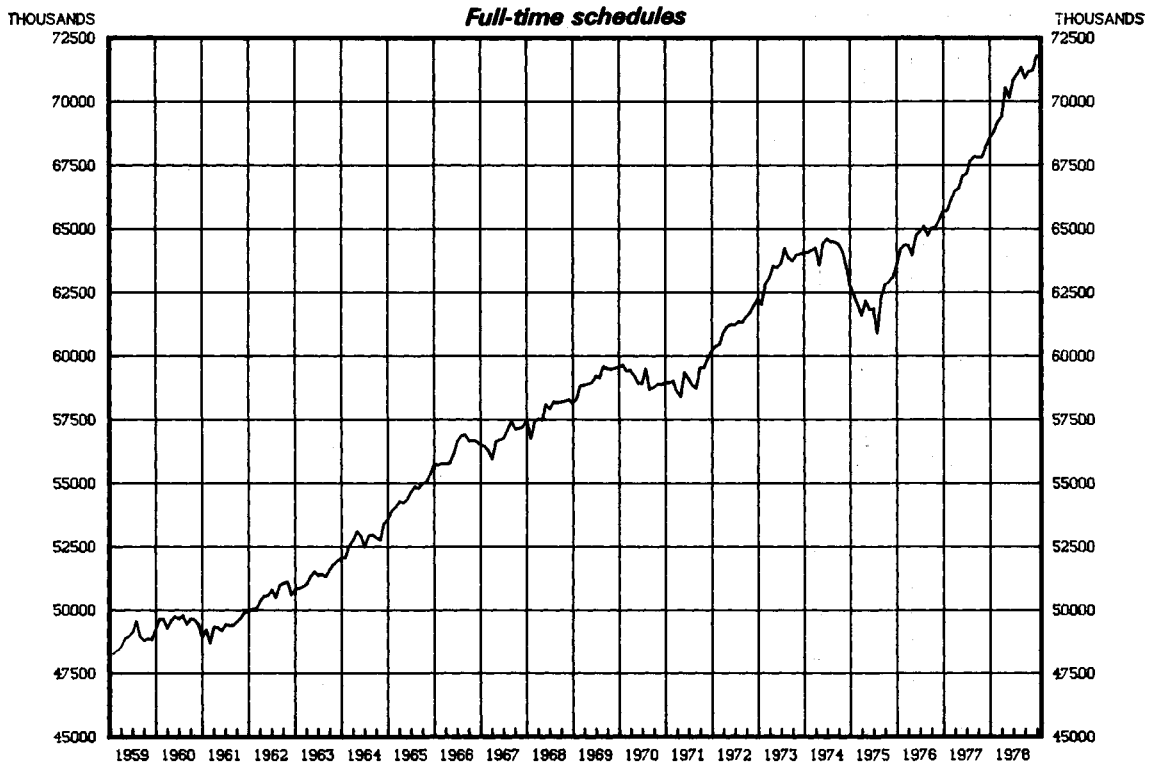
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

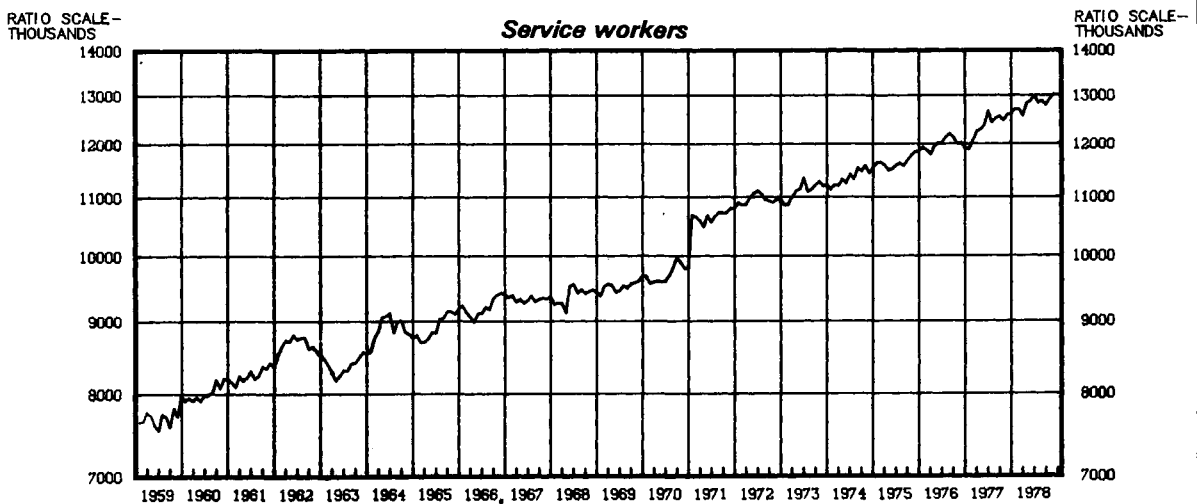
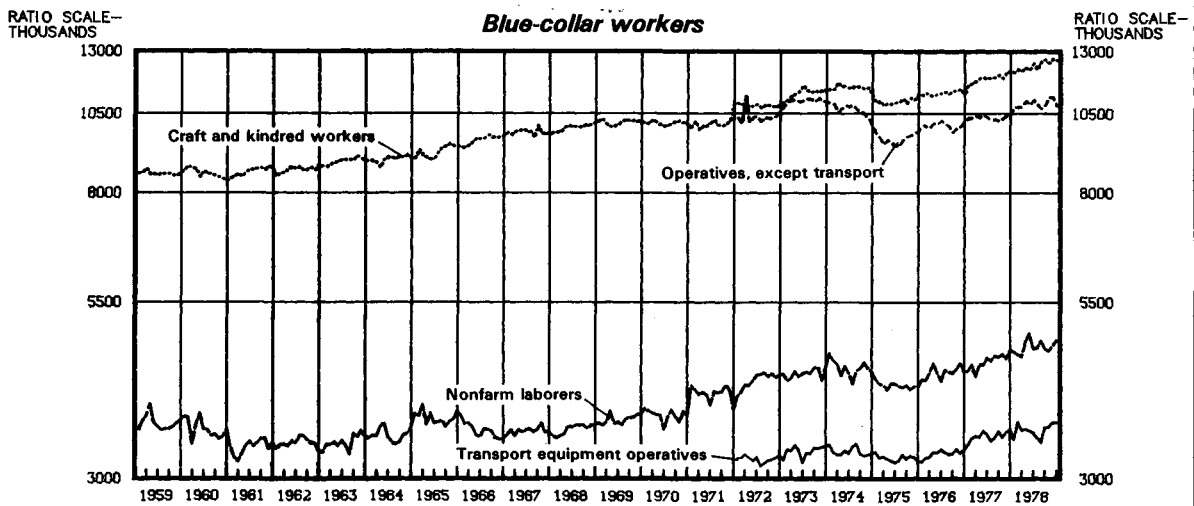
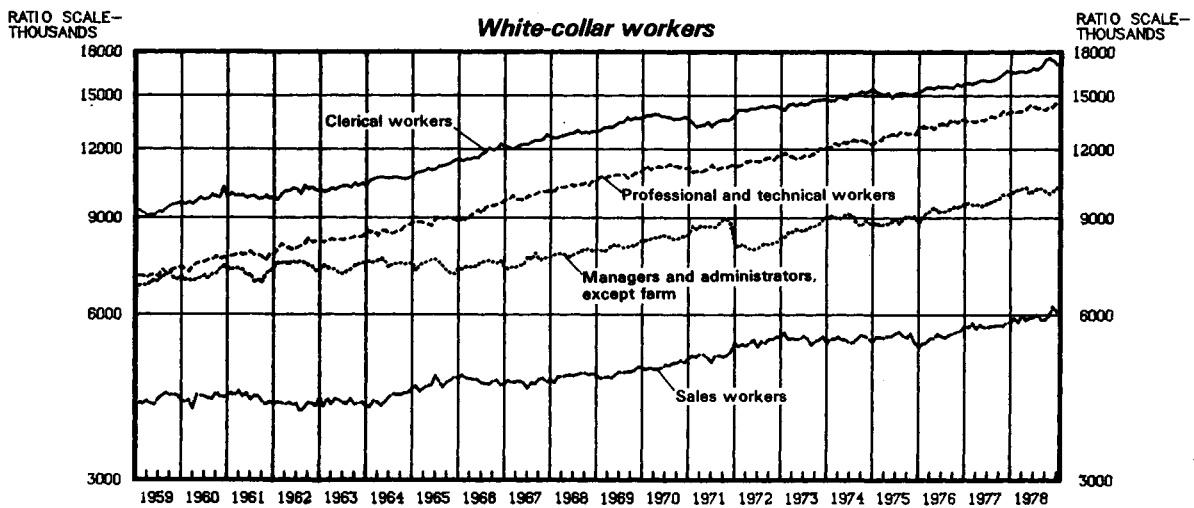
Chart 8. Persons at work full and part time in nonagricultural industries
(Seasonally adjusted)



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)

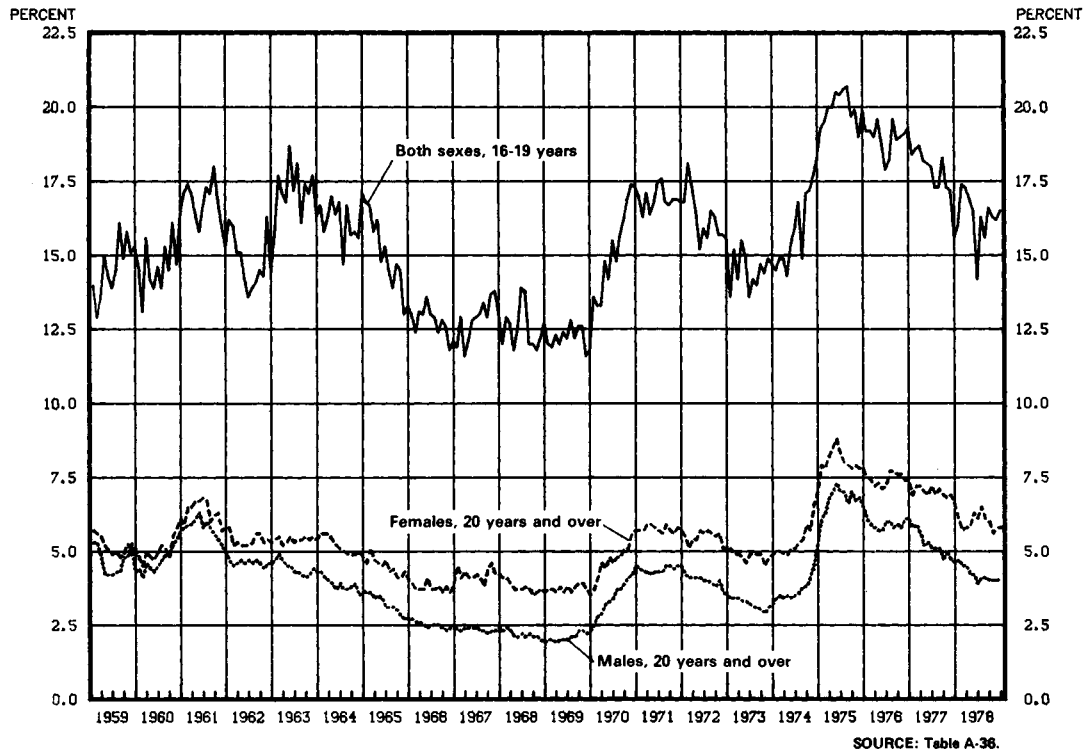
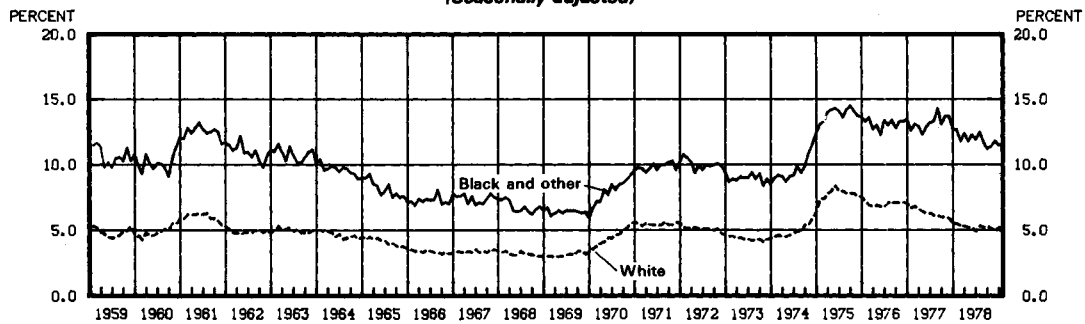


Chart 11. Unemployment rates by race

(Seasonally adjusted)



Ratio of black to white unemployment rate

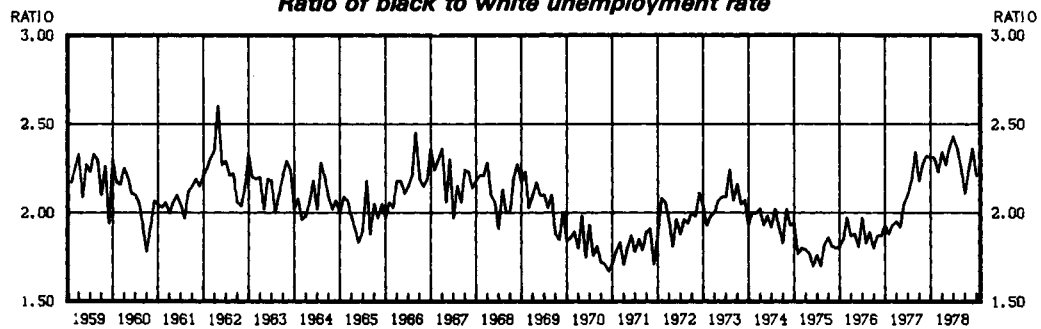
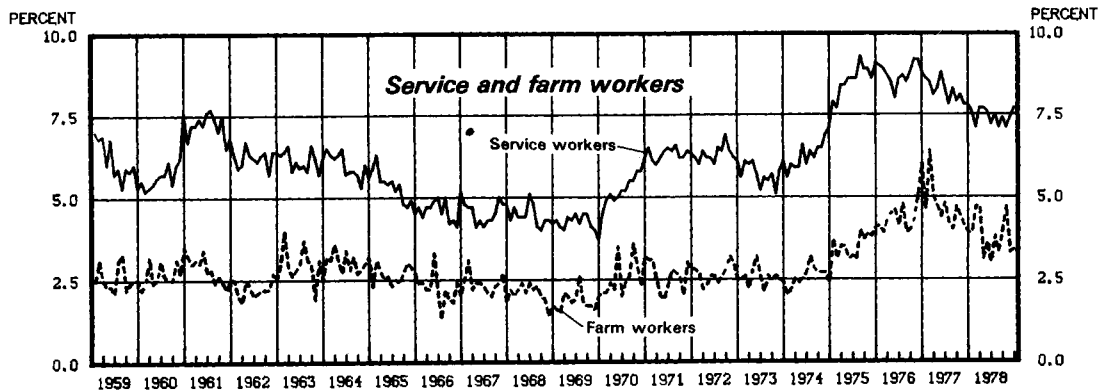
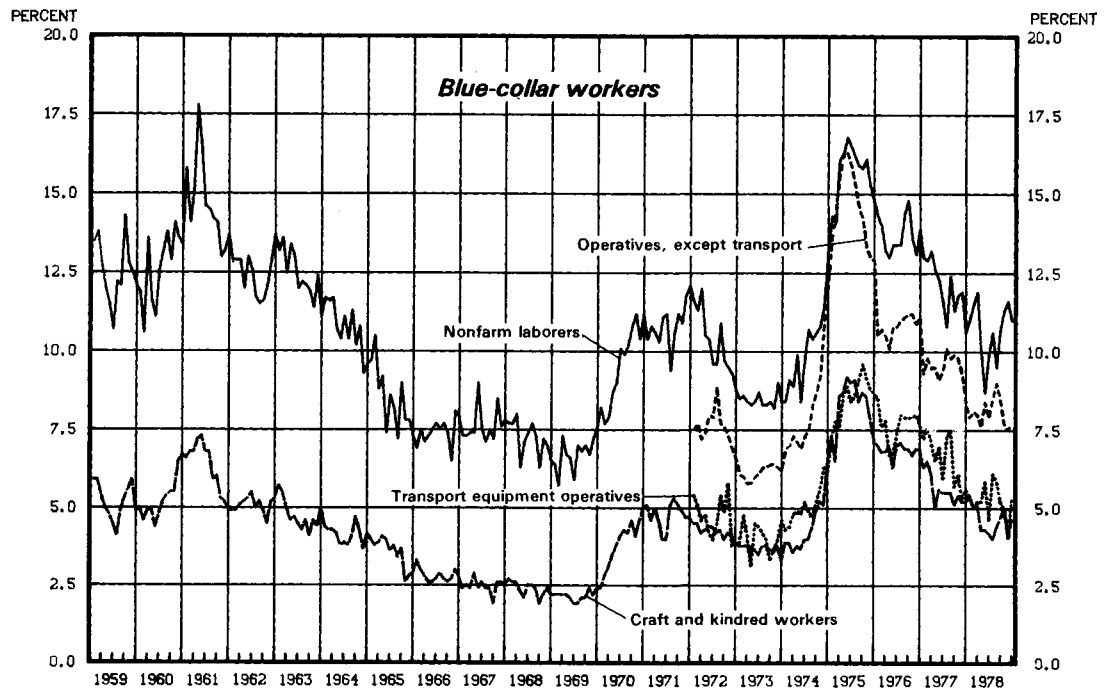
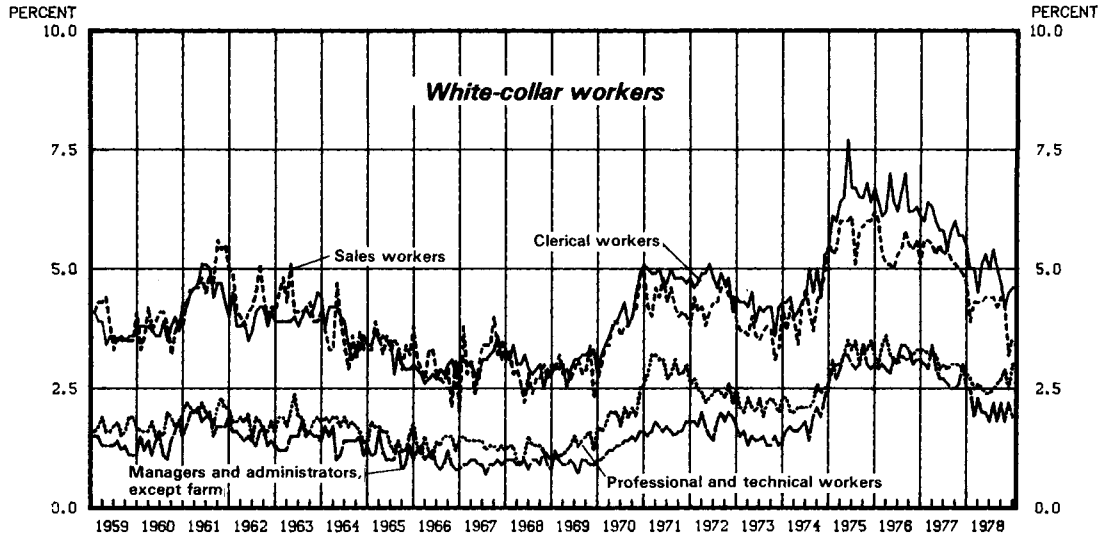


Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

Chart 13. Duration of unemployment

(Seasonally adjusted)

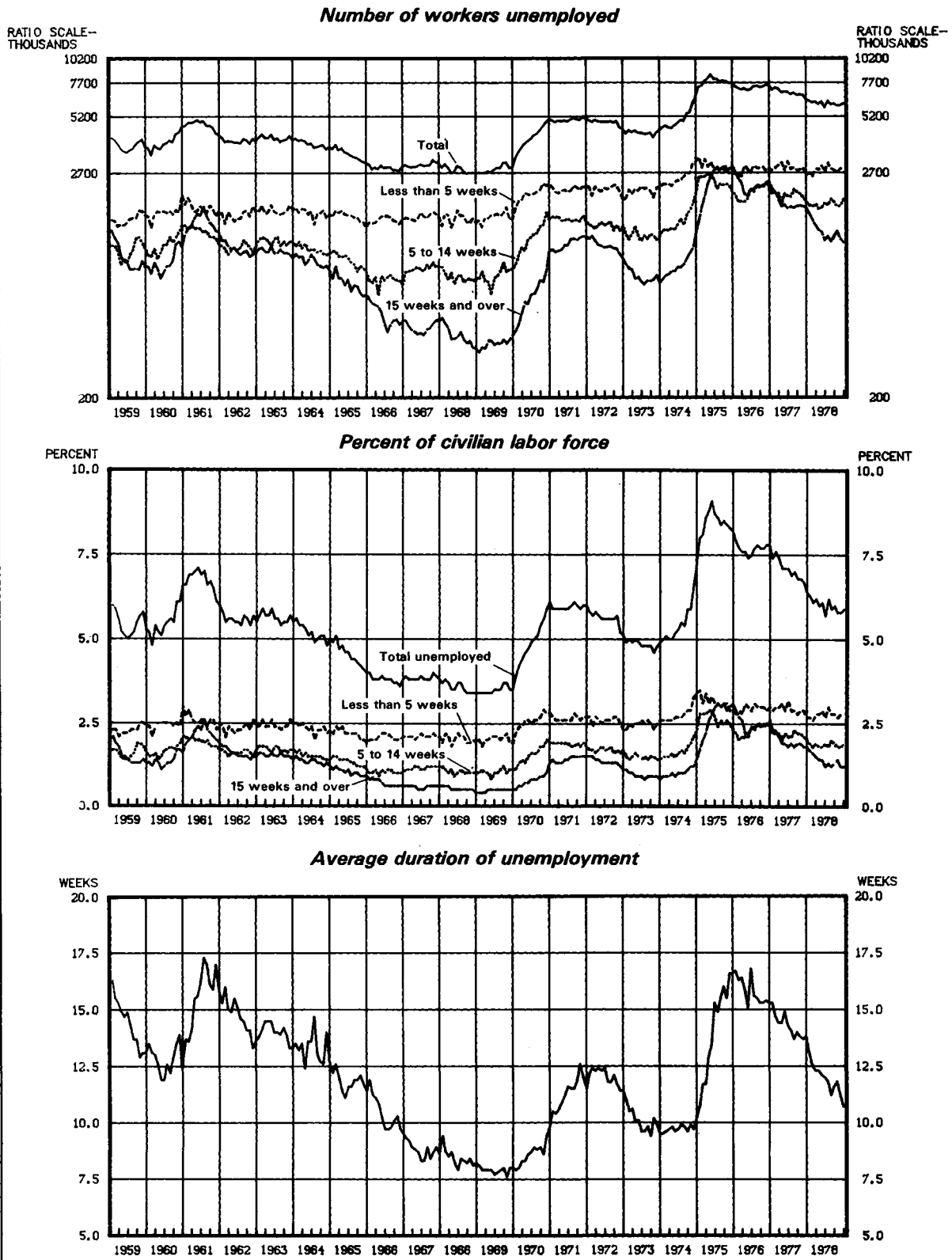
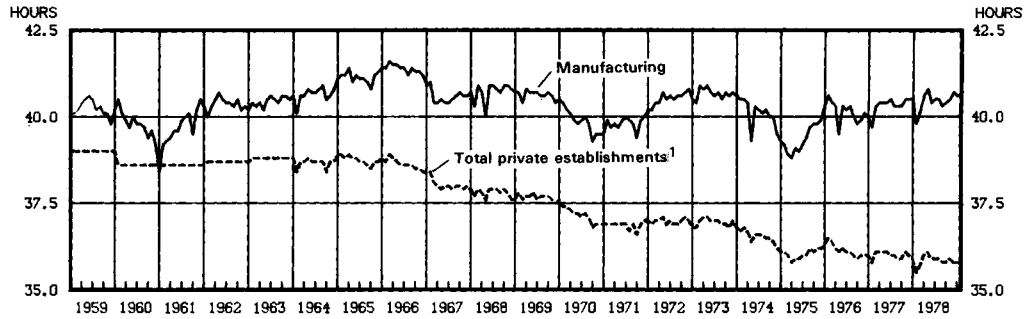
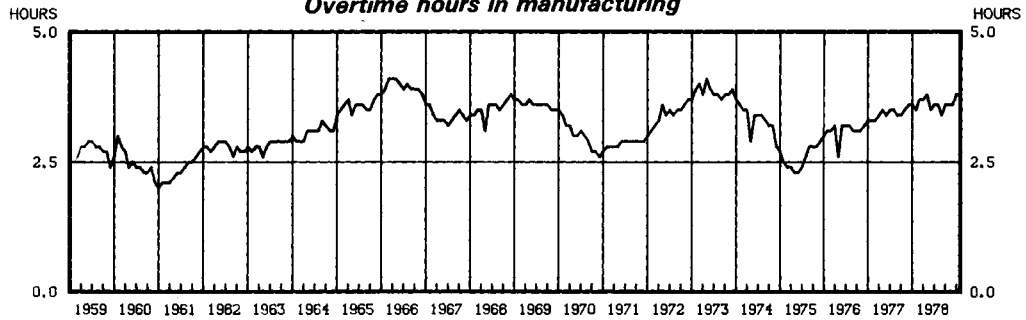


Chart 14. Average weekly hours in nonagricultural industries
(Seasonally adjusted)



Overtime hours in manufacturing

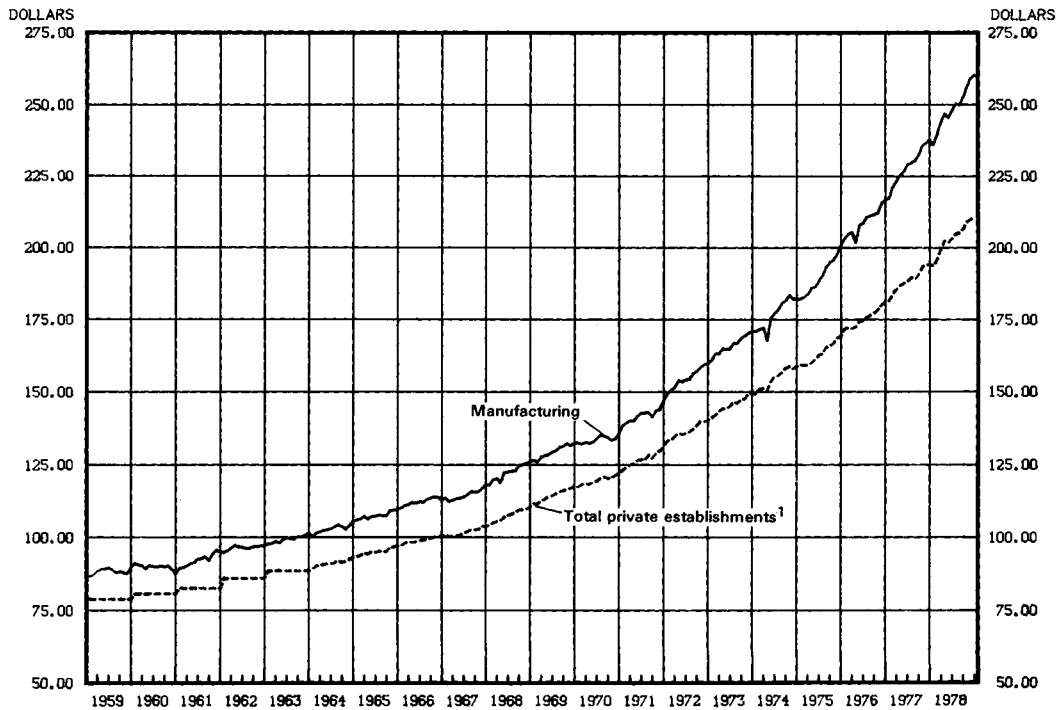


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

Chart 15. Average weekly earnings in nonagricultural industries
(Seasonally adjusted)

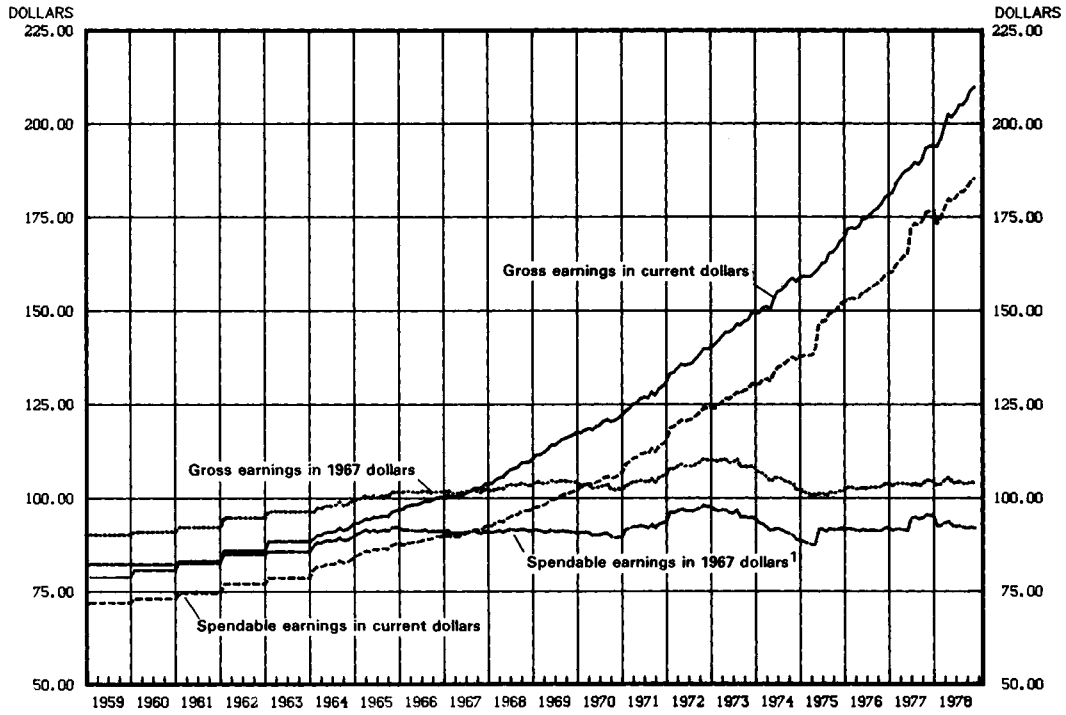


¹Annual averages prior to 1964.

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)

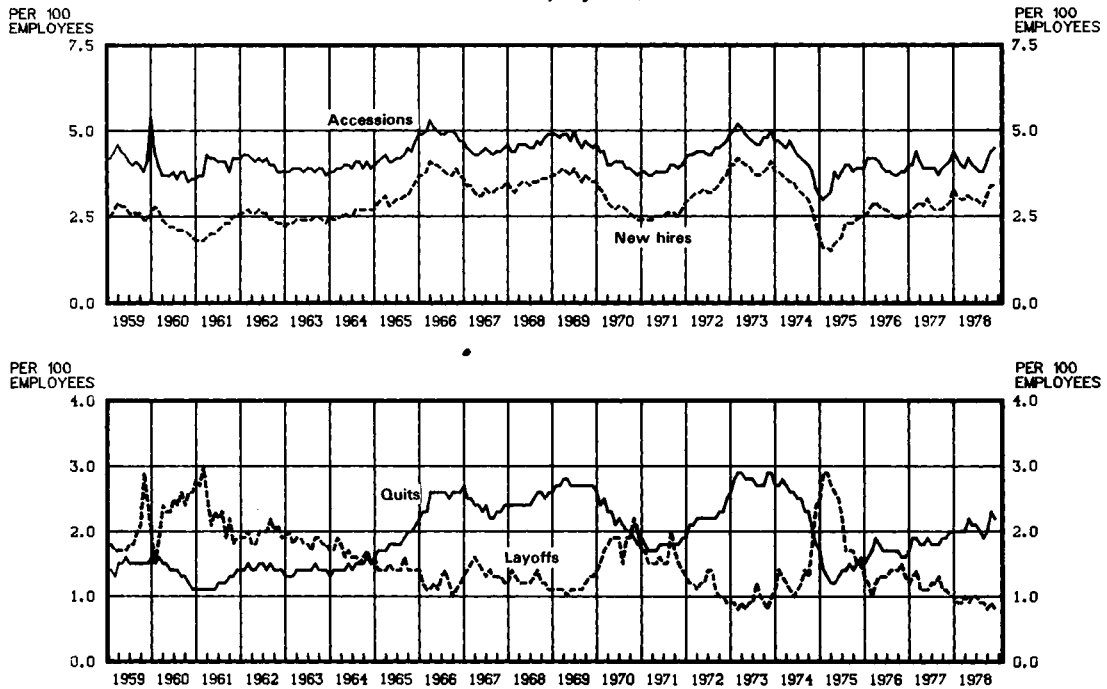


¹ Married worker with three dependents.

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	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
Annual averages										
TOTAL										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,330
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	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
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978.....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
Monthly data, seasonally adjusted ²										
1977:										
December..	159,736	100,877	63.2	98,748	92,561	3,304	89,257	6,187	6.3	58,860
1978:										
January..	159,937	101,336	63.4	99,215	92,923	3,363	89,560	6,292	6.3	58,601
February..	160,128	101,263	63.2	99,139	93,047	3,280	89,767	6,092	6.1	58,865
March.....	160,313	101,557	63.3	99,435	93,282	3,334	89,948	6,153	6.2	58,755
April.....	160,504	101,885	63.5	99,767	93,704	3,274	90,430	6,063	6.1	58,619
May.....	160,713	102,222	63.6	100,109	93,953	3,243	90,710	6,156	6.1	58,492
June.....	160,928	102,602	63.8	100,504	94,640	3,424	91,216	5,864	5.8	58,326
July.....	161,148	102,738	63.8	100,622	94,446	3,377	91,069	6,176	6.1	58,410
August.....	161,348	102,785	63.7	100,663	94,723	3,351	91,372	5,940	5.9	58,563
September..	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October....	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November..	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December..	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275

¹ Not strictly comparable with data for prior years. For an explanation, see "Historic Comparability" under the Household Data section of the Explanatory Notes.

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

HOUSEHOLD DATA HISTORICAL

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number		Percent of labor force
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,311
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
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978.....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
Monthly data, seasonally adjusted ²										
1977:										
December..	76,541	60,079	78.5	58,068	54,922	2,690	52,232	3,146	5.4	16,463
1978:										
January..	76,636	60,251	78.6	58,248	54,992	2,734	52,258	3,256	5.6	16,385
February..	76,725	60,171	78.4	58,164	54,943	2,604	52,339	3,221	5.5	16,555
March....	76,811	60,278	78.5	58,277	55,042	2,641	52,401	3,235	5.6	16,533
April....	76,901	60,277	78.4	58,280	55,184	2,598	52,586	3,096	5.3	16,624
May.....	77,000	60,396	78.4	58,404	55,372	2,636	52,736	3,032	5.2	16,604
June.....	77,102	60,555	78.5	58,582	55,766	2,745	53,021	2,816	4.8	16,546
July.....	77,206	60,492	78.4	58,502	55,531	2,718	52,813	2,971	5.1	16,715
August... ¹	77,301	60,510	78.3	58,517	55,580	2,695	52,885	2,937	5.0	16,792
September	77,407	60,552	78.2	58,559	55,594	2,739	52,855	2,965	5.1	16,855
October..	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November..	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December..	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
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
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978.....	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,888
Monthly data, seasonally adjusted ²										
1977:										
December..	83,195	40,798	49.0	40,680	37,639	614	37,025	3,041	7.5	42,397
1978:										
January..	83,301	41,084	49.3	40,967	37,931	629	37,302	3,036	7.4	42,217
February..	83,403	41,092	49.3	40,975	38,104	676	37,428	2,871	7.0	42,311
March....	83,501	41,280	49.4	41,158	38,240	693	37,547	2,918	7.1	42,222
April....	83,603	41,608	49.8	41,487	38,520	676	37,844	2,967	7.2	41,995
May.....	83,714	41,826	50.0	41,705	38,581	607	37,974	3,124	7.5	41,888
June.....	83,826	42,047	50.2	41,922	38,874	679	38,195	3,048	7.3	41,779
July.....	83,941	42,246	50.3	42,120	38,915	659	38,256	3,205	7.6	41,695
August... ¹	84,047	42,276	50.3	42,146	39,143	656	38,487	3,003	7.1	41,772
September	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October..	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November..	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December..	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,624

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

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

[Numbers in thousands]

Sex, age, and race	December 1978										
	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	60,671	78.0	58,692	55,668	3,024	5.2	17,075	323	4,560	1,709	10,483
16 to 21 years	8,512	66.8	7,843	6,726	1,117	14.2	4,237	23	3,794	31	389
16 to 19 years	5,048	59.7	4,757	3,955	803	16.9	3,409	17	3,133	16	243
16 to 17 years	2,018	48.0	1,996	1,585	410	20.6	2,189	8	2,066	5	110
18 to 19 years	3,030	71.3	2,762	2,369	392	14.2	1,220	9	1,067	11	133
20 to 64 years	53,679	89.8	51,991	49,841	2,149	4.1	6,107	130	1,427	1,230	3,319
20 to 24 years	8,761	86.0	8,010	7,317	693	8.7	1,428	9	1,083	44	292
25 to 54 years	37,757	94.7	36,821	35,539	1,282	3.5	2,125	66	339	630	1,093
25 to 29 years	8,510	95.1	8,141	7,713	428	5.3	436	12	208	47	169
30 to 34 years	7,651	96.5	7,407	7,165	241	3.3	274	10	78	55	131
35 to 39 years	6,207	96.5	6,013	5,842	172	2.9	225	8	19	77	122
40 to 44 years	5,228	95.1	5,138	4,991	146	2.8	270	4	17	76	173
45 to 49 years	5,087	93.2	5,054	4,921	134	2.6	369	13	11	127	217
50 to 54 years	5,075	90.2	5,068	4,906	462	3.2	553	18	7	247	283
55 to 64 years	7,161	73.7	7,160	6,986	174	2.4	2,553	56	5	557	1,935
55 to 59 years	4,397	82.5	4,396	4,294	102	2.3	932	18	3	311	599
60 to 64 years	2,764	63.0	2,764	2,692	72	2.6	1,622	38	3	246	1,336
65 years and over	1,944	20.5	1,944	1,872	72	3.7	7,558	175	--	463	6,921
65 to 69 years	1,146	30.5	1,146	1,097	49	4.3	2,616	42	--	177	2,397
70 years and over	798	13.9	798	775	23	2.9	4,942	133	--	286	4,523
White											
16 years and over	53,936	78.7	52,347	49,976	2,371	4.5	14,585	264	3,672	1,372	9,278
16 to 21 years	7,473	68.9	6,947	6,089	858	12.4	3,373	22	3,040	19	292
16 to 19 years	4,471	62.4	4,242	3,605	637	15.0	2,700	16	2,484	9	191
16 to 17 years	1,826	51.4	1,808	1,464	344	19.0	1,724	8	1,622	3	91
18 to 19 years	2,645	73.0	2,434	2,141	293	12.1	976	8	862	6	103
20 to 64 years	47,720	90.4	46,360	44,680	1,679	3.6	5,074	97	1,188	992	2,796
20 to 24 years	7,602	86.7	7,015	6,520	496	7.1	1,170	9	910	38	213
25 to 54 years	33,609	95.4	32,837	31,812	1,024	3.1	1,624	45	272	482	825
25 to 29 years	14,308	96.5	13,809	13,283	526	3.8	518	15	228	72	204
30 to 34 years	10,206	96.7	9,968	9,705	262	2.6	351	10	30	97	214
35 to 44 years	9,095	92.3	9,060	8,824	236	2.6	755	20	15	313	407
55 to 64 years	6,509	74.1	6,507	6,348	160	2.5	2,279	43	5	472	1,758
55 to 59 years	3,996	83.2	3,995	3,905	90	2.3	808	15	3	264	526
60 to 64 years	2,512	63.1	2,512	2,443	70	2.8	1,471	28	3	208	1,232
65 years and over	1,745	20.4	1,745	1,691	55	3.1	6,812	151	--	371	6,291
Black and other											
16 years and over	6,735	73.0	6,345	5,692	653	10.3	2,489	59	888	337	1,205
16 to 21 years	1,039	54.6	896	637	259	28.9	865	2	754	12	97
16 to 19 years	577	44.8	515	350	166	32.1	710	2	649	7	52
16 to 17 years	192	29.2	188	121	67	35.6	465	--	444	2	19
18 to 19 years	385	61.2	327	229	99	30.1	244	2	205	5	33
20 to 64 years	5,960	85.2	5,632	5,162	469	8.3	1,034	34	239	238	523
20 to 24 years	1,159	81.8	994	797	197	19.8	258	--	172	6	79
25 to 54 years	4,148	89.2	3,985	3,726	258	6.5	501	21	66	148	267
25 to 29 years	1,853	90.6	1,738	1,596	143	8.2	191	7	58	30	96
30 to 34 years	1,228	89.5	1,183	1,128	56	4.7	144	2	6	56	80
35 to 44 years	1,067	86.5	1,063	1,003	60	5.6	166	12	2	61	93
55 to 64 years	653	70.4	653	638	14	2.2	275	12	--	85	177
55 to 59 years	401	76.4	401	390	12	2.9	124	3	--	47	73
60 to 64 years	252	62.5	252	249	3	1.1	151	9	--	38	104
65 years and over	198	21.0	198	181	18	8.9	746	24	--	92	630

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

(Numbers in thousands)

Sex, age, and race	December 1978										
	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	43,069	51.0	42,940	40,239	2,701	6.3	41,435	32,444	4,197	4,056	3,737
16 to 21 years	7,272	58.2	7,220	6,302	919	12.7	5,217	1,336	3,532	25	324
18 to 19 years	4,446	53.7	4,426	3,782	644	14.6	3,830	614	2,987	20	209
16 to 17 years	1,864	45.8	1,863	1,546	318	17.0	2,210	167	1,968	6	69
18 to 19 years	2,582	61.5	2,562	2,236	326	12.7	1,620	447	1,019	14	140
20 to 64 years	37,487	59.8	37,379	35,353	2,026	5.4	25,191	21,947	1,206	470	1,568
20 to 24 years	7,019	69.0	6,952	6,365	587	8.4	3,155	2,057	828	24	246
25 to 54 years	25,890	62.2	25,849	24,560	1,290	5.0	15,761	14,381	369	254	760
25 to 29 years	6,080	66.7	6,051	5,635	416	6.9	3,033	2,682	142	16	194
30 to 34 years	4,992	61.4	4,984	4,738	246	4.9	3,140	2,902	105	28	105
35 to 39 years	4,244	62.7	4,241	4,031	210	5.0	2,520	2,319	61	36	103
40 to 44 years	3,642	62.6	3,641	3,487	155	4.2	2,177	2,021	30	42	84
45 to 49 years	3,482	60.5	3,482	3,336	145	4.2	2,276	2,072	18	49	137
50 to 54 years	3,450	56.9	3,450	3,332	118	3.4	2,616	2,385	13	82	137
55 to 64 years	4,578	42.2	4,578	4,428	150	3.3	6,275	5,510	9	192	563
55 to 59 years	2,860	48.8	2,860	2,776	83	2.9	2,995	2,656	3	84	250
60 to 64 years	1,718	34.4	1,718	1,652	66	3.9	3,280	2,854	6	108	313
65 years and over	1,135	8.4	1,135	1,104	31	2.7	12,414	9,883	4	567	1,960
65 to 69 years	709	15.0	709	696	13	1.9	4,007	3,380	2	104	520
70 years and over	425	4.8	425	408	17	4.1	8,407	6,502	2	463	1,440
White											
16 years and over	37,311	50.6	37,209	35,158	2,051	5.5	36,366	29,091	3,308	805	3,161
16 to 21 years	6,392	60.7	6,351	5,671	680	10.7	4,140	1,107	2,780	48	235
18 to 19 years	3,960	56.9	3,943	3,456	487	12.4	3,005	495	2,340	14	156
16 to 17 years	1,691	49.4	1,690	1,430	260	15.4	1,728	142	1,524	6	56
18 to 19 years	2,269	64.0	2,254	2,026	228	10.1	1,276	352	816	8	100
20 to 64 years	32,345	59.4	32,260	30,722	1,538	4.8	22,083	19,489	965	358	1,271
20 to 24 years	6,036	70.0	5,983	5,582	401	6.7	2,581	1,723	669	16	173
25 to 54 years	22,202	61.6	22,170	21,150	1,021	4.6	13,851	12,749	289	195	618
25 to 29 years	9,416	63.7	9,388	8,878	510	5.4	5,375	4,924	188	32	231
30 to 34 years	6,736	61.9	6,733	6,441	292	4.3	4,145	3,869	73	55	148
35 to 39 years	6,051	58.3	6,050	5,831	218	3.6	4,331	3,956	28	108	240
40 to 44 years	4,106	42.1	4,106	3,991	115	2.8	5,651	5,016	7	147	480
45 to 49 years	2,571	49.0	2,571	2,506	64	2.5	2,673	2,399	3	58	212
50 to 54 years	1,536	34.0	1,536	1,485	51	3.3	2,978	2,617	4	89	268
55 years and over	1,006	8.2	1,006	980	26	2.6	11,278	9,108	3	434	1,733
Black and other											
16 years and over	5,758	53.2	5,731	5,081	650	11.3	5,069	3,353	889	251	577
16 to 21 years	879	44.9	870	630	239	27.5	1,077	229	752	7	89
18 to 19 years	486	37.1	483	326	156	32.4	825	120	647	6	52
16 to 17 years	174	26.5	174	116	58	33.4	482	25	444	--	12
18 to 19 years	312	47.7	309	210	99	31.9	343	94	203	6	40
20 to 64 years	5,142	62.3	5,119	4,630	489	9.6	3,108	2,459	241	111	297
20 to 24 years	983	63.2	969	783	186	19.2	573	333	159	7	73
25 to 54 years	3,688	65.9	3,679	3,410	269	7.3	1,910	1,632	80	58	441
25 to 29 years	1,656	67.5	1,648	1,496	152	9.2	798	660	58	12	68
30 to 34 years	1,150	67.6	1,150	1,077	72	6.3	551	471	18	23	39
35 to 39 years	882	61.1	882	837	45	5.1	561	504	3	23	34
40 to 44 years	472	43.0	472	437	34	7.3	624	494	2	45	83
45 to 49 years	289	47.3	289	270	19	6.7	322	257	--	26	38
50 to 54 years	182	37.6	182	168	15	8.2	302	237	2	19	45
55 years and over	129	10.2	129	125	4	3.2	1,136	774	1	134	227

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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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
MALES								
16 years and over	59,654	60,671	77.9	78.0	57,644	58,692	77.3	77.5
16 to 19 years	5,046	5,048	59.4	59.7	4,722	4,757	57.8	58.3
16 to 17 years	4,991	2,018	46.9	48.0	1,957	1,996	46.5	47.7
18 to 19 years	3,055	3,030	71.9	71.3	2,765	2,762	69.9	69.4
20 to 24 years	8,531	8,761	85.1	86.0	7,784	8,010	83.9	84.9
25 to 54 years	37,059	37,757	94.7	94.7	36,120	36,821	94.5	94.5
25 to 34 years	15,682	16,161	95.5	95.8	15,066	15,547	95.3	95.6
35 to 44 years	11,104	11,434	96.1	95.8	10,819	11,151	96.0	95.7
45 to 54 years	10,273	10,161	91.9	91.7	10,234	10,122	91.9	91.7
55 to 64 years	7,100	7,161	74.1	73.7	7,099	7,160	74.1	73.7
55 to 59 years	4,373	4,397	83.3	82.5	4,372	4,396	83.3	82.5
60 to 64 years	2,727	2,764	62.9	63.0	2,727	2,764	62.9	63.0
65 years and over	1,919	1,944	20.6	20.5	1,919	1,944	20.6	20.5
White								
16 years and over	53,455	53,936	78.7	78.7	51,510	52,347	78.1	78.2
16 to 19 years	4,458	4,471	61.8	62.4	4,195	4,242	60.3	61.1
16 to 17 years	1,809	1,826	50.4	51.4	1,782	1,808	50.0	51.2
18 to 19 years	2,649	2,645	73.1	73.0	2,413	2,434	71.2	71.4
20 to 24 years	7,439	7,602	85.9	86.7	6,845	7,015	84.9	85.7
25 to 54 years	33,062	33,609	95.4	95.4	32,275	32,837	95.3	95.3
25 to 34 years	13,913	14,308	96.1	96.5	13,403	13,809	96.0	96.4
35 to 44 years	9,886	10,206	96.8	96.7	9,646	9,968	96.7	96.6
45 to 54 years	9,262	9,095	93.0	92.3	9,227	9,060	93.0	92.3
55 to 64 years	6,476	6,509	74.6	74.1	6,475	6,507	74.6	74.1
55 to 59 years	3,975	3,996	83.9	83.2	3,974	3,995	83.9	83.2
60 to 64 years	2,501	2,512	63.5	63.4	2,501	2,512	63.5	63.1
65 years and over	1,720	1,745	20.5	20.4	1,720	1,745	20.5	20.4
Black and other								
16 years and over	6,499	6,735	72.5	73.0	6,133	6,345	71.3	71.8
16 to 19 years	587	577	46.2	44.8	527	515	43.5	42.1
16 to 17 years	181	192	27.8	29.2	176	188	27.2	28.8
18 to 19 years	406	385	65.4	61.2	352	327	62.0	57.2
20 to 24 years	1,092	1,159	79.7	81.8	939	994	77.2	79.4
25 to 54 years	3,997	4,148	88.8	89.2	3,844	3,985	88.4	88.8
25 to 34 years	1,769	1,853	90.7	90.6	1,663	1,738	90.2	90.1
35 to 44 years	1,217	1,228	91.1	89.5	1,174	1,183	90.8	89.1
45 to 54 years	1,011	1,067	83.2	86.5	1,007	1,063	83.1	86.5
55 to 64 years	624	653	69.1	70.4	624	653	69.1	70.4
55 to 59 years	398	401	78.2	76.4	398	401	78.2	76.4
60 to 64 years	226	252	57.3	62.5	226	252	57.3	62.5
65 years and over	199	198	21.7	21.0	199	198	21.7	21.0

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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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
FEMALES								
16 years and over	40,977	43,069	49.3	51.0	40,859	42,940	49.2	50.9
16 to 19 years	4,169	4,446	50.2	53.7	4,151	4,426	50.1	53.6
16 to 17 years	1,691	1,864	41.1	45.8	1,690	1,863	41.1	45.7
18 to 19 years	2,478	2,582	59.0	61.5	2,461	2,562	58.8	61.3
20 to 24 years	6,726	7,019	67.2	69.0	6,662	6,952	67.0	68.8
25 to 34 years	24,501	25,890	59.9	62.2	24,466	25,849	59.8	62.1
35 to 44 years	10,242	11,072	61.0	64.2	10,211	11,035	60.9	64.1
45 to 54 years	7,461	7,886	61.2	62.7	7,458	7,883	61.2	62.7
55 to 64 years	6,798	6,932	56.9	58.6	6,797	6,931	56.9	58.6
65 years and over	4,479	4,578	41.8	42.2	4,479	4,578	41.8	42.2
65 to 69 years	2,842	2,860	49.3	48.8	2,842	2,860	49.3	48.8
70 to 74 years	1,637	1,718	33.1	34.4	1,637	1,718	33.1	34.4
75 years and over	1,101	1,135	8.3	8.4	1,101	1,135	8.3	8.4
White								
16 years and over	35,464	37,311	48.8	50.6	35,369	37,209	48.7	50.6
16 to 19 years	3,738	3,960	53.3	56.9	3,722	3,943	53.2	56.8
16 to 17 years	1,551	1,691	44.9	49.4	1,551	1,690	44.9	49.4
18 to 19 years	2,186	2,269	61.5	64.0	2,172	2,254	61.3	63.8
20 to 24 years	5,774	6,036	67.9	70.0	5,722	5,983	67.7	69.9
25 to 34 years	20,992	22,202	59.1	61.6	20,964	22,170	59.1	61.5
35 to 44 years	8,670	9,416	60.0	63.7	8,646	9,388	59.9	63.6
45 to 54 years	6,372	6,736	60.5	61.9	6,369	6,733	60.5	61.9
55 to 64 years	5,950	6,051	56.5	58.3	5,949	6,050	56.5	58.3
65 years and over	3,999	4,106	41.5	42.1	3,999	4,106	41.5	42.1
65 to 69 years	2,528	2,571	48.8	49.0	2,528	2,571	48.8	49.0
70 to 74 years	1,471	1,536	32.9	34.0	1,471	1,536	32.9	34.0
75 years and over	961	1,006	8.0	8.2	961	1,006	8.0	8.2
Black and other								
16 years and over	5,513	5,758	52.5	53.2	5,491	5,731	52.4	53.1
16 to 19 years	432	486	33.2	37.1	429	483	33.1	36.9
16 to 17 years	140	174	21.4	26.5	140	174	21.4	26.5
18 to 19 years	292	312	45.1	47.7	289	309	44.9	47.4
20 to 24 years	953	983	63.2	63.2	940	969	62.9	62.8
25 to 34 years	3,509	3,688	64.8	65.9	3,502	3,679	64.8	65.8
35 to 44 years	1,571	1,656	67.1	67.5	1,565	1,648	67.0	67.4
45 to 54 years	1,089	1,150	65.9	67.6	1,089	1,150	65.9	67.6
55 to 64 years	848	882	59.7	61.1	848	882	59.6	61.1
65 years and over	480	472	45.1	43.0	480	472	45.1	43.0
65 to 69 years	314	289	53.3	47.3	314	289	53.3	47.3
70 to 74 years	166	182	34.8	37.6	166	182	34.8	37.6
75 years and over	140	129	11.5	10.2	140	129	11.5	10.2

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

[Numbers in thousands]

Sex and age	December 1978						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	10,284	9,101	252	8,849	1,183	11.5	6,547
16 to 19 years	861	565	11	554	296	34.4	1,371
16 to 17 years	299	187	--	187	112	37.4	860
18 to 19 years	562	378	10	367	184	32.8	511
20 to 24 years	1,697	1,339	18	1,322	357	21.1	700
25 to 54 years	6,441	5,974	159	5,816	466	7.2	2,026
25 to 34 years	2,831	2,567	27	2,540	264	9.3	785
35 to 44 years	1,976	1,863	79	1,784	113	5.7	600
45 to 54 years	1,634	1,545	53	1,492	89	5.5	641
55 to 64 years	992	949	43	906	43	4.3	797
55 to 59 years	601	575	22	553	26	4.4	391
60 to 64 years	391	374	21	353	17	4.3	407
65 years and over	293	274	22	252	20	6.8	1,653
Males							
16 years and over	5,375	4,787	230	4,557	588	10.9	2,178
16 to 19 years	442	295	11	284	147	33.3	636
16 to 17 years	152	93	--	93	58	38.2	429
18 to 19 years	290	201	9	191	88	30.3	208
20 to 24 years	861	680	18	662	180	20.9	207
25 to 54 years	3,337	3,101	142	2,962	234	7.0	448
25 to 34 years	1,437	1,307	22	1,285	130	9.0	161
35 to 44 years	1,004	952	70	882	52	5.2	130
45 to 54 years	896	844	49	795	52	5.8	157
55 to 64 years	566	554	41	513	12	2.1	249
55 to 59 years	342	334	20	313	9	2.6	146
60 to 64 years	224	221	20	200	3	1.3	134
65 years and over	170	156	19	137	15	8.8	639
Females							
16 years and over	4,909	4,314	22	4,292	595	12.1	4,369
16 to 19 years	419	270	--	270	149	35.6	735
16 to 17 years	147	94	--	94	54	36.5	431
18 to 19 years	272	177	1	176	96	35.1	303
20 to 24 years	836	659	--	660	177	21.2	493
25 to 54 years	3,104	2,873	17	2,854	232	7.5	1,578
25 to 34 years	1,394	1,260	5	1,255	134	9.6	624
35 to 44 years	972	911	9	902	61	6.2	470
45 to 54 years	738	701	4	697	37	5.0	484
55 to 64 years	426	395	2	393	31	7.4	548
55 to 59 years	259	241	2	240	17	6.8	275
60 to 64 years	167	153	1	153	14	8.4	273
65 years and over	123	118	3	115	5	3.9	1,014

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 race, sex, and age

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
TOTAL								
Total noninstitutional population	159,736	162,250	68,052	69,288	74,883	76,227	16,802	16,734
Total labor force	100,632	103,740	54,609	55,623	36,808	38,622	9,215	9,494
Percent of population	63.0	63.9	80.2	80.3	49.2	50.7	54.8	56.7
Civilian labor force	98,503	101,632	52,921	53,935	36,708	38,514	8,873	9,183
Employed	92,623	95,906	50,514	51,713	34,530	36,457	7,580	7,736
Agriculture	2,914	2,990	2,192	2,250	436	479	286	262
Nonagricultural industries	89,710	92,916	48,322	49,463	34,094	35,978	7,293	7,475
Unemployed	5,880	5,725	2,407	2,221	2,179	2,057	1,294	1,447
Percent of labor force	6.0	5.6	4.5	4.1	5.9	5.3	14.6	15.8
Not in labor force	59,105	58,510	13,443	13,665	38,075	37,605	7,587	7,239
White								
Total noninstitutional population	140,264	142,198	60,361	61,351	65,673	66,712	14,230	14,135
Total labor force	88,619	91,247	48,697	49,465	31,726	33,351	8,196	8,431
Percent of population	63.2	64.2	80.7	80.6	48.3	50.0	57.6	59.6
Civilian labor force	86,879	89,556	47,315	48,105	31,647	33,266	7,917	8,185
Employed	82,375	85,133	45,408	46,371	30,000	31,702	6,967	7,061
Agriculture	2,646	2,690	1,978	1,993	397	452	271	246
Nonagricultural industries	79,729	82,443	43,430	44,378	29,603	31,250	6,696	6,815
Unemployed	4,505	4,422	1,907	1,734	1,647	1,564	950	1,124
Percent of labor force	5.2	4.9	4.0	3.6	5.2	4.7	12.0	13.7
Not in labor force	51,644	50,951	11,664	11,886	33,947	33,361	6,033	5,704
Black and other								
Total noninstitutional population	19,473	20,051	7,691	7,937	9,209	9,516	2,572	2,598
Total labor force	12,012	12,492	5,912	6,158	5,084	5,271	1,019	1,063
Percent of population	61.7	62.3	76.9	77.6	55.2	55.4	39.6	40.9
Civilian labor force	11,624	12,076	5,606	5,830	5,062	5,248	956	998
Employed	10,249	10,773	5,106	5,343	4,530	4,755	613	676
Agriculture	268	300	214	257	38	27	16	15
Nonagricultural industries	9,981	10,473	4,892	5,085	4,492	4,728	597	660
Unemployed	1,375	1,303	500	487	532	493	343	322
Percent of labor force	11.8	10.8	8.9	8.4	10.5	9.4	35.9	32.3
Not in labor force	7,460	7,559	1,779	1,780	4,128	4,244	1,553	1,535

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

(Numbers in thousands)

Employment status	December 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,238	12,749	12,489	21,378	10,846	10,532	3,860	1,903	1,957
Total labor force	15,783	8,512	7,272	13,865	7,473	6,392	1,918	1,039	879
Percent of population	62.5	66.8	58.2	64.9	68.9	60.7	49.7	54.6	44.9
Civilian labor force	15,063	7,843	7,220	13,297	6,947	6,351	1,766	896	870
Employed	13,027	6,726	6,302	11,760	6,089	5,671	1,268	637	630
Agriculture	410	328	83	387	305	83	23	23	--
Nonagricultural industries	12,617	6,398	6,219	11,372	5,784	5,589	1,244	614	630
Unemployed	2,036	1,117	919	1,538	858	680	498	259	239
Looking for full-time work	1,156	647	509	834	480	353	323	167	156
Looking for part-time work	880	470	410	704	378	326	176	93	83
Percent of labor force	13.5	14.2	12.7	11.6	12.4	10.7	28.2	28.9	27.5
Not in labor force	9,454	4,237	5,217	7,513	3,373	4,140	1,982	865	1,077
Major activity: going to school									
Civilian labor force	4,824	2,445	2,380	4,349	2,206	2,144	475	239	236
Employed	4,009	1,985	2,024	3,707	1,837	1,870	303	149	154
Agriculture	133	106	27	133	105	28	--	1	--
Nonagricultural industries	3,876	1,879	1,997	3,574	1,732	1,842	302	148	154
Unemployed	815	460	356	643	369	274	173	91	82
Looking for full-time work	68	37	31	44	25	19	23	11	12
Looking for part-time work	748	423	325	598	344	255	149	79	70
Percent of labor force	16.9	18.8	14.9	14.8	16.7	12.8	36.3	37.9	34.7
Not in labor force	7,326	3,794	3,532	5,819	3,040	2,780	1,506	754	752
Major activity: other									
Civilian labor force	10,239	5,398	4,841	8,948	4,741	4,207	1,291	657	634
Employed	9,018	4,740	4,278	8,053	4,252	3,801	965	489	476
Agriculture	277	222	56	255	200	55	23	22	1
Nonagricultural industries	8,741	4,519	4,222	7,798	4,052	3,746	942	466	476
Unemployed	1,221	657	563	895	489	406	326	168	158
Looking for full-time work	1,089	610	478	789	455	334	299	155	144
Looking for part-time work	132	47	85	106	34	72	27	13	13
Percent of labor force	11.9	12.2	11.6	10.0	10.3	9.6	25.2	25.6	24.8
Not in labor force	2,129	443	1,686	1,693	333	1,361	436	111	325

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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	December 1978								
	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.....	85,614	78,261	3,052	4,302	5.0	16,017	14,594	1,423	8.9
16 to 21 years.....	8,892	7,045	691	4,156	13.0	6,471	5,291	880	14.3
16 to 19 years.....	4,153	3,084	398	671	16.2	5,030	4,254	776	15.4
16 to 17 years.....	618	357	100	162	26.1	3,241	2,674	566	17.5
18 to 19 years.....	3,534	2,728	298	509	14.4	1,790	1,580	209	11.7
20 years and over.....	81,461	75,176	2,654	3,631	4.5	10,987	10,340	648	5.9
20 to 24 years.....	12,829	11,404	623	1,102	8.6	2,133	1,954	178	8.4
25 years and over.....	68,633	64,072	2,031	2,529	3.7	8,854	8,386	469	5.3
25 to 54 years.....	56,739	52,913	1,581	2,244	4.0	5,931	5,604	328	5.5
55 years and over.....	11,893	11,159	450	285	2.4	2,923	2,781	141	4.8
Males, 16 years and over.....	53,397	49,613	1,389	2,395	4.5	5,295	4,666	629	11.9
16 to 21 years.....	4,908	3,920	342	647	13.2	2,934	2,464	470	16.0
16 to 19 years.....	2,310	1,731	200	380	16.4	2,447	2,024	423	17.3
20 years and over.....	51,087	47,883	1,189	2,015	3.9	2,848	2,642	206	7.2
20 to 24 years.....	7,171	6,256	294	621	8.7	838	767	72	8.6
25 years and over.....	43,916	41,627	895	1,395	3.2	2,009	1,875	134	6.7
25 to 54 years.....	36,077	34,182	685	1,211	3.4	744	673	71	9.5
55 years and over.....	7,839	7,445	210	184	2.3	1,266	1,202	64	5.1
Females, 16 years and over.....	32,217	28,647	4,663	1,907	5.9	10,723	9,928	794	7.4
16 to 21 years.....	3,984	3,125	349	509	12.8	3,237	2,827	410	12.7
16 to 19 years.....	1,842	1,353	198	291	15.8	2,583	2,230	353	13.7
20 years and over.....	30,375	27,294	4,465	1,616	5.3	8,139	7,698	441	5.4
20 to 24 years.....	5,658	4,848	329	481	8.5	1,295	1,188	107	8.2
25 years and over.....	24,717	22,446	1,137	1,136	4.6	6,845	6,510	334	4.9
25 to 54 years.....	20,662	18,732	897	1,034	5.0	5,187	4,931	256	4.9
55 years and over.....	4,055	3,714	240	102	2.5	1,658	1,579	78	4.7
White									
Males, 16 years and over.....	47,636	44,621	1,151	1,863	3.9	4,711	4,203	508	10.8
16 to 21 years.....	4,300	3,543	277	480	11.2	2,646	2,268	378	14.3
16 to 19 years.....	2,040	1,582	158	299	14.7	2,202	1,865	338	15.3
20 years and over.....	45,596	43,039	994	1,564	3.4	2,509	2,338	171	6.8
20 to 24 years.....	6,259	5,581	241	437	7.0	756	697	59	7.8
25 years and over.....	39,337	37,458	753	1,128	2.9	1,753	1,641	112	6.4
25 to 54 years.....	32,191	30,645	587	960	3.0	646	581	64	9.9
55 years and over.....	7,146	6,813	166	167	2.3	1,107	1,059	48	4.3
Females, 16 years and over.....	27,440	24,688	4,353	1,399	5.1	9,769	9,116	653	6.7
16 to 21 years.....	3,431	2,791	287	353	10.3	2,920	2,593	326	11.2
16 to 19 years.....	1,620	1,243	167	210	13.0	2,323	2,046	277	11.9
20 years and over.....	25,820	23,445	1,186	1,189	4.6	7,445	7,070	375	5.0
20 to 24 years.....	4,815	4,243	257	315	6.5	1,168	1,082	86	7.4
25 years and over.....	21,005	19,201	929	874	4.2	6,278	5,989	289	4.6
25 to 54 years.....	17,371	15,831	743	796	4.6	4,799	4,575	224	4.7
55 years and over.....	3,634	3,370	187	78	2.1	1,478	1,413	65	4.4
Black and other									
Males, 16 years and over.....	5,762	4,992	237	532	9.2	584	463	121	20.7
16 to 21 years.....	608	376	65	167	27.4	288	196	93	32.1
16 to 19 years.....	271	148	42	80	29.7	244	159	85	34.8
20 years and over.....	5,491	4,844	195	452	8.2	339	303	36	10.6
20 to 24 years.....	912	675	53	185	20.2	82	69	13	15.6
25 years and over.....	4,578	4,169	143	267	5.8	257	234	23	8.9
25 to 54 years.....	3,886	3,537	98	251	6.5	99	91	7	7.1
55 years and over.....	692	632	45	16	2.3	159	143	16	10.1
Females, 16 years and over.....	4,777	3,959	310	508	10.6	954	813	142	14.8
16 to 21 years.....	553	335	62	156	28.2	317	234	83	26.3
16 to 19 years.....	222	110	31	81	36.3	260	184	76	29.1
20 years and over.....	4,554	3,849	278	428	9.4	694	628	66	9.5
20 to 24 years.....	843	605	72	166	19.7	126	106	20	15.9
25 years and over.....	3,712	3,243	206	261	7.0	568	522	46	8.1
25 to 54 years.....	3,291	2,900	153	237	7.2	388	356	32	8.2
55 years and over.....	421	343	53	24	5.7	180	166	14	7.8

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

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A-9. Employment status of the noninstitutional population by family relationship

[Numbers in thousands]

Family relationship	December 1978									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	101,632	63.5	95,906	5,725	5.6	58,510	32,767	8,757	2,766	14,220
Husbands ¹	40,866	81.7	39,796	1,070	2.6	9,177	117	251	1,177	7,632
With employed wife	20,712	92.2	20,256	457	2.2	1,763	30	130	394	1,209
With unemployed wife	1,112	93.6	1,012	99	8.9	76	1	12	22	40
With wife not in labor force	17,437	71.8	16,997	439	2.5	6,836	61	82	700	5,994
Wives	23,663	49.4	22,475	1,188	5.0	24,272	22,467	284	252	1,269
With employed husband	21,268	55.6	20,256	1,012	4.8	16,997	16,005	247	103	642
With unemployed husband	556	55.9	456	99	17.8	439	402	9	3	24
With husband not in labor force	1,839	21.2	1,763	76	4.1	6,836	6,060	28	146	602
Relatives in husband-wife families	13,809	60.6	12,236	1,573	11.4	8,984	1,352	5,983	359	1,290
16-19 years	6,554	55.9	5,612	941	14.4	5,173	180	4,703	17	274
20-24 years	4,670	73.9	4,265	405	8.7	1,651	172	1,192	42	245
25 years and over	2,585	54.5	2,359	227	8.8	2,160	1,000	88	300	771
Women who head families	4,905	58.5	4,527	378	7.7	3,484	2,888	115	129	353
Relatives in female-headed families	4,006	54.7	3,358	648	16.2	3,315	809	1,518	273	714
16-19 years	1,322	48.3	993	329	24.9	1,416	68	1,201	17	131
20-24 years	1,182	69.9	986	196	16.6	508	112	275	13	108
25 years and over	1,502	51.9	1,379	123	8.2	1,391	629	42	243	475
Persons not living in families ²	14,383	60.8	13,514	868	6.0	9,278	5,134	606	576	2,962

¹ Includes a small number of single, separated, widowed, or divorced men who head families.

² Individuals living alone or with unrelated persons plus a small number of persons in secondary families.

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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
Total, 16 years and over	3,120	3,024	5.4	5.2	2,760	2,701	6.8	6.3
Married, spouse present	1,296	1,061	3.2	2.6	1,277	1,224	5.5	5.1
Widowed, divorced, or separated	300	293	6.9	6.3	522	507	6.8	6.3
Single (never married)	1,524	1,670	11.4	12.0	960	970	9.6	8.9
White, 16 years and over	2,440	2,371	4.7	4.5	2,065	2,051	5.8	5.5
Married, spouse present	1,114	908	3.2	2.5	1,081	1,039	5.2	4.8
Widowed, divorced, or separated	215	216	6.1	5.7	364	358	6.0	5.6
Single (never married)	1,111	1,247	9.6	10.4	620	654	7.3	7.1
Black and other, 16 years and over	680	653	11.1	10.3	695	650	12.7	11.3
Married, spouse present	182	153	5.2	4.3	197	185	8.1	7.6
Widowed, divorced, or separated	85	78	10.2	8.7	158	148	10.0	9.3
Single (never married)	413	423	23.3	22.4	340	316	23.0	18.5
Total, 20 to 64 years of age	2,309	2,149	4.5	4.1	2,133	2,026	6.0	5.4
Married, spouse present	1,190	1,000	3.1	2.6	1,197	1,146	5.3	4.9
Widowed, divorced, or separated	279	265	6.8	6.0	474	477	6.8	6.5
Single (never married)	841	885	9.6	9.5	462	403	7.4	5.9
White, 20 to 64 years of age	1,833	1,679	4.0	3.6	1,606	1,538	5.2	4.8
Married, spouse present	1,025	853	2.9	2.4	1,015	968	5.1	4.6
Widowed, divorced, or separated	201	196	6.1	5.5	326	335	6.0	5.8
Single (never married)	606	629	8.1	7.9	264	234	5.1	4.2
Black and other, 20 to 64 years of age	476	469	8.8	8.3	527	489	10.7	9.6
Married, spouse present	164	145	4.8	4.2	181	178	7.7	7.5
Widowed, divorced, or separated	78	69	9.9	8.3	148	143	10.0	9.6
Single (never married)	234	256	18.9	18.5	198	169	18.2	13.5

c=corrected.

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
Total, 16 years and over	5,880	5,725	6.0	5.6	5.4	5.2	6.8	6.3
White-collar workers	1,696	1,537	3.5	3.4	2.6	2.1	4.3	3.9
Professional and technical	328	378	2.3	2.5	1.8	1.9	2.9	3.3
Managers and administrators, except farm	256	204	2.5	1.9	2.3	1.6	3.1	3.0
Sales workers	261	205	4.1	3.1	3.4	2.2	5.0	4.2
Clerical workers	851	751	4.8	4.1	4.5	3.4	4.9	4.3
Blue-collar workers	2,359	2,347	7.2	6.9	6.5	6.5	10.2	8.8
Craft and kindred workers	668	640	5.2	4.8	5.0	4.8	9.4	5.6
Carpenters and other construction craft	344	356	8.4	8.6	8.3	8.6	(1)	(1)
All other	324	284	3.7	3.1	3.3	2.9	8.9	5.1
Operatives, except transport	913	896	8.0	7.6	6.3	6.3	10.6	9.5
Transport equipment operatives	223	219	5.9	5.7	6.0	5.9	5.4	3.6
Nonfarm laborers	554	593	11.2	11.5	11.4	11.7	9.4	9.4
Construction laborers	141	211	14.9	20.2	14.8	20.2	(1)	(1)
All other	413	382	10.3	9.3	10.5	9.3	9.1	8.9
Service workers	1,013	1,052	7.4	7.5	7.1	7.2	7.6	7.7
Private household	52	69	3.9	5.5	(1)	(1)	3.9	5.3
All other	961	983	7.8	7.7	7.1	7.1	8.3	8.1
Farm workers	133	111	5.2	4.3	4.1	3.6	11.5	8.0
No previous work experience	679	678	--	--	--	--	--	--
16 to 19 years	489	486	--	--	--	--	--	--
20 to 24 years	133	111	--	--	--	--	--	--
25 years and over	58	81	--	--	--	--	--	--

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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
Total, 16 years and over	100.0	100.0	6.0	5.6	5.4	5.2	6.8	6.3
Nonagricultural private wage and salary workers	72.9	73.8	6.0	5.7	5.4	5.3	6.7	6.2
Mining	.5	.5	3.2	2.9	3.0	3.4	(1)	--
Construction	8.6	10.7	11.1	12.4	11.1	12.8	11.2	7.6
Manufacturing	20.9	20.1	5.7	5.1	4.2	3.9	9.0	7.6
Durable goods	11.8	10.1	5.5	4.3	4.3	3.9	9.1	5.7
Lumber and wood products	1.0	1.0	8.7	8.5	9.1	7.4	5.9	16.0
Furniture and fixtures	.6	.5	6.8	4.8	3.9	4.2	13.0	5.7
Stone, clay, and glass products	.8	.5	6.5	3.8	6.4	4.3	6.9	2.4
Primary metal industries	1.1	.9	5.2	3.8	4.6	3.7	10.7	4.4
Fabricated metal products	1.5	1.0	6.0	4.0	5.5	4.2	8.1	3.3
Machinery, except electrical equipment	1.6	1.2	3.8	2.6	2.5	2.4	10.2	3.6
Electrical equipment	2.3	1.9	6.2	4.8	3.7	3.2	9.5	6.8
Transportation equipment	1.5	1.6	4.2	4.0	3.7	3.7	7.3	5.2
Automobiles	.6	1.0	2.6	4.4	2.2	4.0	4.8	6.1
Other transportation equipment	1.0	.6	6.3	3.4	5.5	3.4	10.7	3.6
Instruments and related products	.5	.4	5.4	3.9	3.7	5.2	7.4	2.0
Other durable goods industries	.9	1.1	7.2	8.7	5.0	7.1	10.2	10.7
Nondurable goods	9.0	10.0	5.9	6.2	3.9	4.0	8.8	9.2
Food and kindred products	2.5	2.3	7.8	6.6	5.6	4.8	13.2	10.7
Textile mill products	1.0	.8	5.5	5.2	3.5	3.8	8.0	7.0
Apparel and other textile products	2.1	2.6	8.8	10.0	7.7	6.0	9.2	11.0
Paper and allied products	.3	.7	2.5	5.4	1.5	3.3	5.4	11.2
Printing and publishing	1.1	1.4	4.6	5.3	3.3	4.3	6.4	6.8
Chemicals and allied products	.6	.7	3.1	3.4	2.0	2.4	6.2	5.7
Rubber and plastics products	1.0	.8	7.1	6.0	4.4	3.7	12.3	9.6
Other nondurable goods industries	.5	.7	4.9	6.1	3.5	3.9	6.7	9.5
Transportation and public utilities	4.0	3.1	4.6	3.3	4.5	3.2	4.8	3.7
Railroads and railway express	.4	.2	4.4	2.3	4.2	2.1	(1)	(1)
Other transportation	2.7 ^c	2.1	6.3 ^c	4.6	6.6 ^c	4.8	4.8 ^c	4.0
Communication and other public utilities	.9	.8	2.6	2.0	1.6	1.2	4.7	3.5
Wholesale and retail trade	20.8	20.7	6.6	6.3	5.9	5.5	7.4	7.1
Finance, insurance, and real estate	2.6	2.7	3.1	3.0	2.8	2.8	3.4	3.2
Service industries	15.6	16.1	5.7	5.5	5.6	5.2	5.7	5.6
Professional services	6.6	6.9	4.3	4.0	3.8	3.6	4.5	4.2
All other service industries	9.0	9.1	7.5	7.5	7.3	6.8	7.7	8.2
Agricultural wage and salary workers	2.9	2.5	12.8	10.6	11.5	9.3	18.6	15.8
All other classes of workers	12.7	11.7	3.0	2.7	2.8	2.4	3.4	3.1
No previous work experience	11.6	11.8	--	--	--	--	--	--

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

^ccorrected.

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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	5,880	5,725	2,407	2,221	2,179	2,057	1,294	1,447	4,505	4,422	1,375	1,303
Job losers.....	2,749	2,504	1,538	1,367	932	790	280	347	2,167	1,971	583	533
On layoff.....	737	760	435	398	234	267	69	94	657	648	80	112
Other job losers.....	2,012	1,744	1,103	969	698	523	211	253	1,510	1,323	503	421
Job leavers.....	809	827	309	332	354	343	146	153	692	687	117	141
Reentrants.....	4,642	1,716	467	451	796	803	379	462	1,203	1,302	439	414
New entrants.....	679	678	93	71	97	121	489	485	442	462	237	215
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
Job losers.....	46.7	43.8	63.9	61.5	42.7	38.4	21.6	24.0	48.1	44.6	42.3	40.9
On layoff.....	12.5	13.3	18.1	17.9	10.7	13.0	5.3	6.5	14.6	14.7	5.8	8.6
Other job losers.....	34.2	30.5	45.8	43.6	32.0	25.4	16.3	17.5	33.5	29.9	36.5	32.3
Job leavers.....	13.8	14.5	12.8	14.9	16.3	16.7	11.3	10.6	15.4	15.5	8.5	10.8
Reentrants.....	27.9	30.0	19.4	20.3	36.5	39.0	29.3	31.9	26.7	29.4	31.9	31.8
New entrants.....	11.5	11.8	3.9	3.2	4.4	5.9	37.8	33.5	9.8	10.5	17.2	16.5
UNEMPLOYMENT RATE												
Total unemployment rate.....	6.0	5.6	4.5	4.1	5.9	5.3	14.6	15.8	5.2	4.9	11.8	10.8
Job loser rate ¹	2.7	2.4	2.9	2.5	2.5	2.1	3.2	3.8	2.5	2.2	5.0	4.4
Job leaver rate ¹.....	.8	.8	.6	.6	1.0	.9	1.6	1.7	.8	.8	1.0	1.2
Reentrant rate ¹	1.7	1.7	.9	.8	2.2	2.1	4.3	5.0	1.4	1.5	3.8	3.4
New entrant rate ¹.....	.7	.7	.2	.1	.3	.3	5.5	5.3	.5	.5	2.0	1.8

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	December 1978						
	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.....	5,725	100.0	44.6	35.2	20.2	12.3	7.9
Job losers.....	2,504	100.0	43.7	34.9	21.3	12.5	8.9
On layoff.....	760	100.0	63.0	28.6	8.4	5.0	3.4
Other job losers.....	1,744	100.0	35.3	37.7	26.9	15.7	11.2
Job leavers.....	827	100.0	39.3	37.3	23.4	13.9	9.5
Reentrants.....	1,716	100.0	47.4	36.2	16.4	11.1	5.3
New entrants.....	678	100.0	47.3	30.8	21.8	13.1	8.7
Males, 20 years and over.....	2,221	100.0	40.7	34.4	24.9	13.9	11.0
Job losers.....	1,367	100.0	42.2	34.0	23.8	12.7	11.0
On layoff.....	398	100.0	61.1	30.7	8.3	4.3	4.0
Other job losers.....	969	100.0	34.5	35.4	30.1	16.2	13.9
Job leavers.....	332	100.0	36.1	33.4	30.4	18.4	12.0
Reentrants.....	451	100.0	42.1	38.1	19.7	13.2	6.4
New entrants.....	71	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over.....	2,057	100.0	44.8	35.5	19.7	12.3	7.4
Job losers.....	790	100.0	42.3	36.1	21.6	14.9	6.7
On layoff.....	267	100.0	60.4	30.6	9.0	6.3	2.6
Other job losers.....	523	100.0	33.0	38.9	28.2	19.3	8.8
Job leavers.....	343	100.0	35.2	39.5	25.3	15.1	10.2
Reentrants.....	803	100.0	51.1	33.4	15.6	9.1	6.5
New entrants.....	121	100.0	47.1	34.7	18.2	9.1	9.1
Both sexes, 16 to 19 years.....	1,447	100.0	50.3	35.9	13.8	10.0	3.8
Job losers.....	347	100.0	52.9	35.9	11.2	6.0	5.2
On layoff.....	94	100.0	78.7	13.8	7.4	4.3	3.2
Other job losers.....	253	100.0	43.5	44.3	12.3	6.7	5.5
Job leavers.....	153	100.0	54.5	40.3	5.2	2.6	2.6
Reentrants.....	462	100.0	46.0	39.5	14.5	12.4	2.2
New entrants.....	485	100.0	50.7	34.2	18.1	13.1	4.9

¹ Percent not shown where base is less than 76,000.

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

Sex, age, and race	December 1978								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	5,725	4,881	25.3	5.6	71.3	28.5	14.9	6.6	1.52
16 to 19 years	1,447	1,339	17.8	2.8	77.3	24.3	12.4	5.9	1.41
20 to 24 years	1,281	1,139	31.7	7.1	72.1	29.7	45.7	5.8	1.62
25 to 34 years	1,331	1,103	27.4	6.4	70.1	34.5	15.0	6.1	1.60
35 to 44 years	682	553	28.0	4.5	71.1	26.9	14.1	6.7	1.51
45 to 54 years	558	421	23.0	7.1	67.9	27.1	18.3	7.8	1.51
55 to 64 years	324	239	26.4	10.0	48.1	25.5	16.3	15.9	1.42
65 years and over	103	89	21.3	2.2	65.2	27.0	21.3	1.1	1.38
Males, 16 years and over	3,024	2,511	27.8	5.7	74.4	26.7	18.2	8.0	1.58
16 to 19 years	803	731	17.0	1.6	78.2	22.8	14.1	4.8	1.39
20 to 24 years	693	601	34.4	7.5	73.9	28.0	18.3	7.7	1.70
25 to 34 years	669	520	32.5	7.3	69.0	35.4	20.8	8.5	1.73
35 to 44 years	318	250	37.6	5.2	68.4	25.6	18.0	9.6	1.64
45 to 54 years	295	217	28.1	10.6	58.1	22.6	22.6	12.9	1.55
55 to 64 years	174	129	20.2	8.5	56.6	18.6	22.5	17.8	1.44
65 years and over	72	63	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	2,701	2,370	22.6	5.5	71.5	30.3	11.3	5.1	1.46
16 to 19 years	644	608	18.9	4.3	76.2	26.0	10.4	7.2	1.43
20 to 24 years	587	538	28.6	6.9	70.1	31.8	12.8	3.7	1.54
25 to 34 years	662	582	22.9	5.8	71.1	33.7	10.0	4.0	1.47
35 to 44 years	365	303	19.8	4.0	73.3	28.1	10.9	4.3	1.40
45 to 54 years	263	204	17.6	3.9	77.9	31.9	13.7	2.5	1.48
55 to 64 years	150	110	33.6	11.8	38.2	33.6	9.1	12.7	1.39
65 years and over	31	25	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	4,422	3,705	23.0	5.6	72.2	28.4	14.7	6.8	1.51
Males	2,371	1,930	25.3	5.7	70.7	26.7	17.7	8.9	1.55
Females	2,051	1,775	20.5	5.5	73.8	30.3	11.3	4.6	1.46
Black and other, 16 years and over	1,303	1,177	32.6	5.6	68.4	28.6	15.5	5.9	1.57
Males	653	581	36.3	5.7	72.3	26.9	20.0	5.3	1.66
Females	650	596	28.9	5.5	64.6	30.5	11.1	6.5	1.47

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

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

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

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

Sex and reason	December 1978								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	5,725	4,881	25.3	5.6	71.3	28.5	14.9	6.6	1.52
Job losers	2,504	1,740	32.8	6.9	69.9	30.9	16.1	7.6	1.64
Job leavers	827	825	28.4	4.5	75.4	34.1	14.4	4.0	1.61
Reentrants	1,716	1,644	19.0	6.0	68.6	25.8	14.3	6.3	1.40
New entrants	678	673	17.7	2.5	76.4	22.1	13.5	7.7	1.40
Males, 16 years and over	3,024	2,511	27.8	5.7	71.1	26.7	18.2	8.0	1.58
Job losers	1,595	1,125	32.9	7.2	70.6	27.6	17.6	8.3	1.64
Job leavers	419	416	32.9	4.6	70.4	37.5	18.3	3.8	1.68
Reentrants	700	663	21.3	4.8	68.5	20.7	20.2	10.3	1.46
New entrants	310	308	16.6	3.6	79.2	22.4	16.2	8.1	1.46
Females, 16 years and over	2,701	2,370	22.6	5.5	71.5	30.3	11.3	5.1	1.46
Job losers	909	616	32.6	6.3	68.7	36.7	13.3	6.5	1.64
Job leavers	409	409	23.7	4.4	80.4	30.3	10.8	4.2	1.54
Reentrants	1,016	981	17.4	6.8	68.7	29.4	10.1	3.8	1.36
New entrants	368	364	18.7	1.6	73.9	22.0	11.5	7.4	1.35

NOTE: See note, table A-15.

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
Total, 16 years and over	5,880	5,725	100.0	100.0	4,563	4,302	100.0	100.0
Less than 5 weeks	2,361	2,553	40.2	44.6	1,660	1,794	36.4	41.7
5 to 14 weeks	1,951	2,015	33.2	35.2	1,524	1,534	33.4	35.7
15 to 26 weeks	1,332	1,431	22.7	25.0	1,045	1,116	22.9	25.9
27 to 51 weeks	619	584	10.5	10.2	479	419	10.5	9.7
52 weeks and over	1,568	1,157	26.7	20.2	1,380	974	30.2	22.6
Average (mean) duration, in weeks	14.1	11.0	--	--	15.3	12.0	--	--
Median duration, in weeks	7.4	6.1	--	--	8.4	6.6	--	--

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	Median 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			Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
	December 1978										
Total, 16 years and over	5,725	2,553	2,015	706	451	11.0	6.1	40.2	44.6	26.7	20.2
16 to 21 years	2,036	990	744	210	92	8.9	5.3	47.0	48.6	18.6	14.8
16 to 19 years	1,447	727	520	145	55	8.4	5.0	49.3	50.3	17.9	13.8
20 to 24 years	1,281	566	466	140	108	10.8	6.1	39.6	44.2	23.5	19.4
25 to 34 years	1,331	565	479	183	104	11.5	6.5	40.1	42.4	25.8	21.6
35 to 44 years	682	288	222	103	69	12.1	6.6	35.4	42.2	34.0	25.3
45 to 54 years	558	232	184	78	65	14.5	7.4	32.4	41.5	36.7	25.6
55 to 64 years	324	134	105	44	40	13.4	6.8	33.5	41.5	35.2	26.1
65 years and over	103	41	39	13	9	13.8	6.7	37.7	40.3	42.7	21.6
Males, 16 years and over	3,024	1,285	1,082	390	267	11.8	6.4	38.0	42.5	28.4	21.7
16 to 21 years	1,117	521	438	114	45	8.7	5.6	43.7	46.6	19.5	14.2
16 to 19 years	803	380	318	82	22	8.0	5.4	46.4	47.4	18.4	13.0
20 to 24 years	693	312	236	81	64	10.9	6.0	36.4	45.1	24.6	20.8
25 to 34 years	669	254	247	107	61	13.1	7.1	35.6	38.0	28.9	25.1
35 to 44 years	318	127	102	51	38	12.9	6.6	33.8	40.0	38.8	27.9
45 to 54 years	295	120	94	40	41	16.2	7.9	35.5	40.6	36.9	27.6
55 to 64 years	174	64	61	17	31	16.6	8.0	31.3	37.0	39.5	28.1
65 years and over	72	27	23	13	9	17.0	7.2	44.1	(1)	37.6	(1)
Females, 16 years and over	2,701	1,268	933	316	184	10.1	5.7	42.6	46.9	24.7	18.5
16 to 21 years	919	469	306	96	47	9.2	4.9	51.0	51.1	17.4	15.6
16 to 19 years	644	347	202	63	32	8.8	4.6	52.9	53.8	17.3	14.8
20 to 24 years	587	254	230	60	44	10.5	6.2	43.3	43.2	22.2	17.7
25 to 34 years	662	310	232	76	44	9.8	5.7	45.0	46.9	22.5	18.1
35 to 44 years	365	161	120	52	31	11.3	6.5	36.7	44.2	30.1	22.9
45 to 54 years	263	112	90	38	23	12.5	6.6	29.1	42.4	36.5	23.4
55 to 64 years	150	70	44	27	9	9.6	5.6	36.4	46.8	29.2	23.8
65 years and over	31	14	16	--	--	6.1	5.6	(1)	(1)	(1)	(1)
White, 16 years and over	4,422	2,053	1,558	494	317	10.3	5.7	41.4	46.4	25.3	18.3
Males	2,371	1,055	858	270	188	11.0	5.9	40.2	44.5	26.1	19.3
Females	2,051	998	700	224	129	9.5	5.3	42.9	48.7	24.4	17.2
Black and other, 16 years and over	1,303	500	456	212	134	13.5	8.3	36.0	38.4	31.1	26.6
Males	653	230	224	120	79	14.9	9.7	29.9	35.2	36.5	30.5
Females	650	270	232	92	55	12.1	6.9	41.9	41.6	25.8	22.7
Males, 16 years and over:											
Married, spouse present	1,061	412	395	142	112	12.8	6.9	39.1	38.9	30.1	23.9
Widowed, divorced, or separated	293	123	92	41	37	15.3	6.6	28.5	41.8	37.7	26.8
Single (never married)	1,670	750	595	207	118	10.6	6.0	38.9	44.9	25.0	19.5
Females, 16 years and over:											
Married, spouse present	1,224	570	437	146	71	9.1	5.6	41.1	46.6	23.5	17.8
Widowed, divorced, or separated	507	233	158	68	47	12.0	6.4	38.9	46.1	28.5	22.7
Single (never married)	970	465	338	102	66	10.4	5.5	46.6	47.9	24.4	17.3

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median 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			Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
	December 1978										
OCCUPATION											
White-collar workers	1,537	589	561	242	145	12.4	7.8	36.4	38.3	30.6	25.2
Professional and managerial	582	191	225	102	64	13.5	8.7	30.7	32.8	35.3	28.5
Sales workers	205	95	75	22	13	10.5	5.6	36.1	46.2	31.1	17.0
Clerical workers	751	304	260	119	68	12.0	7.6	40.6	40.4	27.4	24.9
Blue-collar workers	2,347	1,124	789	259	174	10.1	5.4	42.7	47.9	24.6	18.5
Craft and kindred workers	640	320	218	61	41	9.6	5.0	42.0	50.0	25.4	15.9
Operatives, except transport	896	405	296	111	84	11.0	5.9	43.2	45.2	22.9	21.7
Transport equipment operatives	219	106	71	25	16	10.8	5.4	51.5	48.3	20.4	19.0
Nonfarm laborers	593	293	204	62	34	9.0	5.1	39.3	49.4	28.0	16.2
Service workers	1,052	467	404	109	71	10.6	6.1	39.8	44.4	26.9	17.2
INDUSTRY¹											
Agriculture	146	74	64	7	--	5.8	4.9	46.4	50.6	12.6	5.2
Construction	638	347	209	46	37	9.0	4.6	51.6	54.4	20.7	13.0
Manufacturing	1,160	512	391	155	103	10.9	6.0	39.0	44.1	28.9	22.2
Durable goods	583	224	208	85	66	12.1	6.9	38.9	38.5	27.9	25.8
Nondurable goods	577	288	182	70	37	9.6	5.0	39.2	49.9	30.3	18.5
Transportation and public utilities	200	84	58	29	29	14.8	7.4	46.0	42.0	25.0	29.1
Wholesale and retail trade	1,199	554	438	134	73	9.7	5.7	38.9	46.2	25.4	17.3
Finance and service industries	1,397	546	535	195	122	12.0	7.5	36.7	39.1	29.1	22.5
Public administration	186	59	69	45	13	12.1	8.9	35.5	31.9	30.2	31.1
No previous work experience	678	322	210	89	59	12.6	5.7	40.1	47.4	27.1	21.7

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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
All industries	92,623	95,906	54,524	55,668	38,099	40,239
16 to 19 years	7,580	7,736	4,010	3,955	3,570	3,782
16 to 17 years	3,053	3,131	1,642	1,585	1,411	1,546
18 to 19 years	4,527	4,605	2,368	2,369	2,158	2,236
20 to 24 years	13,098	13,681	7,059	7,317	6,039	6,365
25 to 54 years	57,915	60,099	34,781	35,539	23,134	24,560
25 to 34 years	23,877	25,252	14,340	14,879	9,537	10,373
35 to 44 years	17,603	18,351	10,516	10,833	7,087	7,518
45 to 54 years	16,435	16,496	9,925	9,827	6,510	6,669
55 to 64 years	11,156	11,414	6,854	6,986	4,302	4,428
55 to 59 years	6,949	7,070	4,214	4,294	2,735	2,776
60 to 64 years	4,206	4,344	2,640	2,692	1,567	1,652
65 years and over	2,876	2,976	1,820	1,872	1,055	1,104
Nonagricultural industries	89,710	92,916	52,086	53,208	37,623	39,708
16 to 19 years	7,293	7,475	3,764	3,745	3,529	3,730
16 to 17 years	2,919	3,012	1,528	1,489	1,391	1,524
18 to 19 years	4,374	4,463	2,236	2,256	2,139	2,207
20 to 24 years	12,792	13,361	6,803	7,055	5,989	6,307
25 to 54 years	56,424	58,497	33,580	34,250	22,843	24,247
25 to 34 years	23,352	24,655	13,924	14,389	9,427	10,266
35 to 44 years	17,149	17,848	10,149	10,442	7,000	7,406
45 to 54 years	15,922	15,995	9,507	9,420	6,415	6,575
55 to 64 years	10,650	10,915	6,413	6,563	4,237	4,352
55 to 59 years	6,649	6,793	3,956	4,069	2,693	2,724
60 to 64 years	4,001	4,122	2,457	2,494	1,544	1,628
65 years and over	2,551	2,667	1,526	1,595	1,025	1,072
Agriculture	2,914	2,990	2,438	2,460	476	530
16 to 19 years	286	262	246	210	40	51
16 to 17 years	134	119	113	97	21	22
18 to 19 years	152	143	132	113	20	29
20 to 24 years	305	320	256	262	50	58
25 to 54 years	1,491	1,601	1,201	1,288	291	312
25 to 34 years	525	597	416	490	109	108
35 to 44 years	453	503	367	391	87	112
45 to 54 years	513	501	418	407	95	93
55 to 64 years	506	499	441	423	65	76
55 to 59 years	300	278	258	226	42	52
60 to 64 years	206	222	183	197	23	24
65 years and over	325	308	295	276	30	32

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	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
	TOTAL	92,623	95,906	50,514	51,743	34,530	36,457	4,010	3,955	3,570	3,782
White-collar workers	46,981	48,852	21,857	22,381	22,575	23,795	673	665	1,878	2,011
Professional and technical	14,179	14,870	8,017	8,267	5,995	6,395	89	111	79	97
Health workers	2,646	2,717	905	923	1,727	1,774	5	2	9	18
Teachers, except college	3,170	3,232	881	904	2,270	2,291	4	12	15	25
Other professional and technical	8,363	8,921	6,231	6,440	1,998	2,330	80	97	55	54
Managers and administrators, except farm	9,982	10,289	7,676	7,813	2,222	2,368	56	64	27	44
Salaried workers	8,180	8,513	6,263	6,429	1,839	1,985	51	57	26	42
Self-employed workers in retail trade	936	858	656	604	276	251	4	2	--	1
Self-employed workers, except retail trade	866	918	757	780	107	133	1	5	1	--
Sales workers	6,039	6,337	2,999	3,159	2,308	2,460	239	223	494	495
Retail trade	3,355	3,436	960	1,031	1,730	1,762	204	184	460	459
Other industries	2,684	2,901	2,039	2,129	577	698	34	39	34	36
Clerical workers	16,780	17,356	3,165	3,142	12,051	12,572	289	267	1,276	1,374
Stenographers, typists, and secretaries	4,710	4,772	77	76	4,260	4,325	6	5	366	365
Other clerical workers	12,070	12,584	3,088	3,066	7,791	8,247	283	262	910	1,009
Blue-collar workers	30,600	31,654	22,994	23,510	5,031	5,476	2,176	2,202	403	466
Craft and kindred workers	12,208	12,597	10,210	11,415	535	675	426	458	37	49
Carpenters	1,260	1,259	1,179	1,187	3	6	76	65	2	1
Construction craft, except carpenters	2,498	2,510	2,393	2,380	10	27	93	96	1	6
Mechanics and repairers	3,306	3,361	3,140	3,151	34	53	130	152	1	5
Metal craft	1,172	1,322	1,108	1,230	32	48	30	44	2	--
Blue-collar worker supervisors, not elsewhere classified	1,615	1,707	1,461	1,516	138	182	13	9	4	--
All other	2,357	2,438	1,929	1,951	318	358	82	92	28	38
Operatives, except transport	10,441	10,863	5,646	5,835	3,874	4,097	660	641	260	289
Durable goods manufacturing	4,755	4,944	3,030	3,020	1,421	1,589	211	239	94	98
Nondurable goods manufacturing	3,347	3,535	1,245	1,384	1,866	1,916	133	101	103	133
Other industries	2,338	2,383	1,372	1,432	587	592	316	300	63	58
Transport equipment operatives	3,539	3,617	3,107	3,122	233	301	189	169	9	24
Drivers, motor vehicles	2,965	3,088	2,588	2,644	217	281	153	145	7	18
All other	574	529	520	477	16	21	37	24	1	6
Nonfarm laborers	4,413	4,577	3,028	3,137	388	402	901	934	97	104
Construction	807	834	646	673	10	16	148	137	3	7
Manufacturing	1,012	1,146	760	854	126	147	113	131	13	14
Other industries	2,593	2,597	1,622	1,610	251	239	639	666	81	83
Service workers	12,616	12,942	3,777	3,921	6,625	6,843	948	910	1,266	1,268
Private household workers	1,272	1,180	20	11	981	927	41	13	260	228
Service workers, except private household	11,344	11,762	3,757	3,909	5,644	5,916	937	897	1,006	1,040
Food service workers	4,119	4,249	747	742	2,105	2,231	579	567	687	708
Protective service workers	1,338	1,407	1,210	1,257	110	121	16	26	2	3
All other	5,887	6,106	1,800	1,910	3,429	3,564	342	304	317	329
Farm workers	2,426	2,459	1,890	1,901	299	343	213	178	25	37
Farmers and farm managers	1,392	1,414	1,298	1,279	76	114	19	19	--	2
Farm laborers and supervisors	1,034	1,045	591	622	222	228	194	160	26	35
Paid workers	809	828	567	598	84	94	143	110	15	26
Unpaid family workers	225	217	24	24	138	135	51	49	11	9

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
TOTAL						
Total, 16 years and over (thousands)	92,623	95,906	54,524	55,668	38,099	40,239
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.7	50.9	41.3	41.4	64.2	64.1
Professional and technical	15.3	15.5	14.9	15.0	15.9	16.1
Managers and administrators, except farm	10.8	10.7	14.2	14.1	5.9	6.0
Sales workers	6.5	6.6	5.9	6.1	7.4	7.3
Clerical workers	18.1	18.1	6.3	6.1	35.0	34.7
Blue-collar workers	33.0	33.0	46.2	46.2	14.3	14.8
Craft and kindred workers	13.2	13.1	21.3	21.3	1.5	1.8
Operatives, except transport	11.3	11.3	11.6	11.6	10.9	10.9
Transport equipment operatives	3.8	3.8	6.0	5.9	.6	.8
Nonfarm laborers	4.8	4.8	7.2	7.3	1.3	1.3
Service workers	13.6	13.5	8.7	8.7	20.7	20.2
Private household workers	1.4	1.2	.1	(1)	2.3	2.9
Other service workers	12.2	12.3	8.6	8.6	17.5	17.3
Farm workers	2.6	2.6	3.9	3.7	.9	.9
Farmers and farm managers	1.5	1.5	2.4	2.3	.2	.3
Farm laborers and supervisors	1.1	1.1	1.4	1.4	.7	.7
White						
Total, 16 years and over (thousands)	82,375	85,133	49,070	49,976	33,304	35,158
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.4	52.6	42.8	43.1	66.6	66.3
Professional and technical	15.6	15.9	15.4	15.6	16.1	16.3
Managers and administrators, except farm	11.6	11.5	15.2	15.0	6.3	6.4
Sales workers	7.0	7.1	6.3	6.5	8.0	7.9
Clerical workers	18.2	18.2	6.0	5.9	36.2	35.6
Blue-collar workers	32.6	32.6	45.4	45.4	13.8	14.3
Craft and kindred workers	13.7	13.7	21.9	22.0	1.6	1.9
Operatives, except transport	10.9	10.8	11.3	11.2	10.3	10.3
Transport equipment operatives	3.7	3.6	5.7	5.6	.7	.8
Nonfarm laborers	4.4	4.4	6.5	6.6	1.3	1.2
Service workers	12.3	12.2	7.9	7.8	18.8	18.5
Private household workers	1.0	.9	(1)	(1)	2.5	2.2
Other service workers	11.3	11.3	7.9	7.7	16.3	16.3
Farm workers	2.7	2.6	3.9	3.7	.9	1.0
Farmers and farm managers	1.6	1.6	2.6	2.5	.2	.3
Farm laborers and supervisors	1.0	1.0	1.3	1.2	.7	.7
Black and other						
Total, 16 years and over (thousands)	10,249	10,773	5,453	5,692	4,795	5,081
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	36.9	37.4	27.6	26.8	47.5	49.4
Professional and technical	12.6	12.3	10.5	10.0	15.1	14.9
Managers and administrators, except farm	4.3	4.9	5.3	6.7	3.1	3.0
Sales workers	2.7	3.0	2.7	2.4	2.6	3.6
Clerical workers	17.3	17.3	9.2	7.7	26.7	27.9
Blue-collar workers	36.5	36.6	53.3	52.9	17.4	18.3
Craft and kindred workers	9.2	8.9	16.5	15.6	.9	1.3
Operatives, except transport	14.4	15.2	14.0	15.5	14.7	14.8
Transport equipment operatives	4.8	4.9	8.8	8.5	.4	.8
Nonfarm laborers	8.1	7.7	14.0	13.2	1.4	1.5
Service workers	24.3	23.7	15.6	16.5	34.3	31.8
Private household workers	4.2	3.6	.2	.1	8.7	7.5
Other service workers	20.2	20.1	15.4	16.4	25.6	24.3
Farm workers	2.3	2.3	3.6	3.9	.8	.5
Farmers and farm managers	.4	.5	.7	.8	.1	.2
Farm laborers and supervisors	1.8	1.8	2.8	3.1	.7	.3

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	December 1978								
	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	85,984	1,338	15,572	69,073	6,506	427	4,226	1,534	231
16 to 19 years	7,344	270	530	6,545	109	22	174	29	59
18 to 17 years	2,960	206	175	2,580	43	9	76	11	34
18 to 19 years	4,385	64	355	3,965	65	13	98	18	27
20 to 24 years	13,035	83	1,554	11,397	305	22	217	82	21
25 to 34 years	23,148	157	4,495	18,496	1,430	77	305	258	35
35 to 44 years	16,238	140	3,470	12,628	1,499	110	197	265	42
45 to 54 years	14,450	253	3,103	11,095	1,429	116	154	306	40
55 to 64 years	9,706	245	2,084	7,377	1,156	53	130	347	22
55 to 59 years	6,090	133	1,323	4,634	664	40	70	190	18
60 to 64 years	3,617	111	762	2,744	492	13	60	157	4
65 years and over	2,062	191	336	1,535	579	27	50	247	12
Males, 16 years and over	48,553	138	7,783	40,633	4,632	24	986	1,400	74
16 to 19 years	3,668	45	228	3,395	63	14	135	25	50
16 to 17 years	1,464	41	72	1,350	19	6	63	9	25
18 to 19 years	2,204	4	155	2,045	44	8	72	17	25
20 to 24 years	6,847	11	626	6,210	202	6	170	75	17
25 to 34 years	13,411	8	2,178	11,225	977	1	251	237	2
35 to 44 years	9,376	8	1,790	7,578	1,066	--	163	226	2
45 to 54 years	8,373	9	1,630	6,735	1,046	1	115	292	--
55 to 64 years	5,698	25	1,131	4,542	865	--	107	315	--
55 to 59 years	3,550	16	723	2,811	517	2	59	166	--
60 to 64 years	2,148	9	408	1,730	348	--	48	149	--
65 years and over	1,180	33	200	947	413	2	45	229	2
Females, 16 years and over	37,431	1,200	7,789	28,441	1,875	403	240	134	157
16 to 19 years	3,677	225	302	3,149	46	8	39	3	9
16 to 17 years	1,496	165	102	1,230	24	3	14	2	6
18 to 19 years	2,180	61	200	1,920	22	5	25	1	3
20 to 24 years	6,188	73	928	5,187	103	16	47	7	4
25 to 34 years	9,737	149	2,317	7,271	453	76	54	21	33
35 to 44 years	6,862	132	1,680	5,050	434	110	34	38	39
45 to 54 years	6,077	244	1,473	4,360	383	115	38	14	40
55 to 64 years	4,008	220	953	2,836	291	53	23	32	22
55 to 59 years	2,539	117	599	1,822	147	38	11	24	17
60 to 64 years	1,469	102	353	1,013	144	15	12	8	4
65 years and over	882	158	136	588	166	24	5	18	9

A-24. Employed persons by industry and occupation

[In thousands]

Industry	December 1978											
	White-collar workers					Blue-collar workers			Service workers			Farm workers
	Total employed	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	
Total, 16 years and over:												
Agriculture	2,990	71	33	15	69	51	32	36	209	--	14	2,459
Mining	879	137	84	2	91	238	250	41	21	--	14	--
Construction	6,003	453	716	22	403	3,354	286	200	834	--	35	--
Manufacturing	24,892	2,207	1,531	447	2,556	4,296	8,479	791	1,146	--	438	--
Durable goods	13,054	1,454	876	170	1,458	2,814	4,944	380	702	--	257	--
Nondurable goods	8,837	753	655	278	1,098	1,482	3,535	412	445	--	180	--
Transportation and public utilities	6,315	561	583	59	1,460	1,349	132	1,529	444	--	199	--
Wholesale and retail trade	19,844	392	3,734	4,352	3,501	1,478	965	744	1,293	--	3,385	--
Wholesale trade	3,645	125	745	916	693	323	167	389	250	--	36	--
Retail trade	16,199	267	2,988	3,436	2,808	1,155	798	355	1,043	--	3,349	--
Finance, insurance, and real estate	5,480	270	1,050	1,268	2,489	122	--	--	61	--	218	--
Services	27,600	10,147	1,907	168	4,991	1,428	685	227	446	1,180	6,421	--
Private households	1,390	18	--	--	10	--	2	9	100	1,180	71	--
Other service industries	26,210	10,129	1,907	168	4,981	1,428	683	218	346	--	6,350	--
Public administration	4,903	931	652	4	1,796	281	30	49	121	--	1,040	--

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

(In thousands)

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Dec. 1977				Dec. 1978		Paid absences ²		Unpaid absences^{2}
			Dec. 1977	Dec. 1978			Dec. 1977	Dec. 1978	Dec. 1977	Dec. 1978
Total, 16 years and over	3,771	3,395	3,598	3,201	1,372	1,313	1,701	1,470
Vacation	946	950	920	922	649	656	192	182
Illness	1,306	1,345	1,281	1,303	530	517	638	657
Bad weather	510	228	439	158	--	--	--	--
Industrial dispute	172	64	172	65	--	--	--	--
All other reasons	838	808	786	754	192	141	872	631
Males, 16 year and over	2,313	2,003	2,152	1,832	896	844	924	739
Vacation	618	595	595	572	468	444	74	83
Illness	753	790	733	752	319	326	336	345
All other reasons ³	941	618	824	509	109	73	514	311
Females, 16 years and over	1,459	1,392	1,446	1,369	474	471	778	730
Vacation	327	355	325	350	181	243	119	99
Illness	552	565	548	552	210	191	301	312
All other reasons ³	579	482	572	467	84	67	359	320

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	December 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over	92,511	89,715	2,796	100.0	100.0	100.0
1-34 hours	22,280	21,386	893	24.1	23.8	31.9
1-4 hours	713	662	51	.8	.7	1.8
5-14 hours	4,314	4,088	225	4.7	4.6	8.0
15-29 hours	11,333	10,890	443	12.3	12.1	15.8
30-34 hours	5,920	5,746	174	6.4	6.4	6.2
35 hours and over	70,231	68,329	1,903	75.9	76.2	68.1
35-39 hours	6,450	6,320	130	7.0	7.0	4.6
40 hours	37,824	37,335	489	40.9	41.6	17.5
41 hours and over	25,957	24,674	1,284	28.1	27.5	45.9
41 to 48 hours	10,370	10,120	251	11.2	11.3	9.0
49 to 59 hours	8,958	8,600	358	9.7	9.6	12.8
60 hours and over	6,629	5,954	675	7.2	6.6	24.1
Average hours, total at work	38.9	38.8	42.4	--	--	--
Average hours, workers on full-time schedules	43.2	43.1	49.8	--	--	--

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	December 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	22,280	6,764	15,516	21,386	6,378	15,009
Economic reasons	3,052	1,303	1,749	2,868	1,173	1,695
Slack work	1,542	1,017	525	1,377	888	489
Material shortages or repairs to plant and equipment	67	67	--	65	65	--
New job started during week	128	128	--	128	128	--
Job terminated during week	91	91	--	91	91	--
Could find only part-time work	1,224	--	1,224	1,206	--	1,206
Other reasons	19,229	5,462	13,767	18,518	5,204	13,314
Does not want, or unavailable for, full-time work	11,671	--	11,671	11,314	--	11,314
Vacation	677	677	--	664	664	--
Illness	2,162	1,986	176	2,119	1,958	161
Bad weather	1,162	1,162	--	988	988	--
Industrial dispute	14	14	--	14	14	--
Legal or religious holiday	72	72	--	71	71	--
Full time for this job	1,364	--	1,364	1,334	--	1,334
All other reasons	2,107	1,551	556	2,015	1,510	505
Average hours:						
Economic reasons	21.3	23.0	20.1	21.5	23.4	20.2
Other reasons	20.8	26.2	18.6	20.8	26.3	18.7
Worked 30 to 34 hours:						
Economic reasons	848	487	361	808	454	354
Other reasons	5,072	2,861	2,211	4,938	2,780	2,158

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

[Numbers in thousands]

Industry	December 1978								
	Full- or part-time status							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 to 48 hours	49 hours or more			
Total, 16 years and over ¹	89,715	2,868	13,314	73,533	48,859	10,120	14,554	38.8	43.1
Wage and salary workers	83,150	2,545	12,160	68,445	46,630	9,542	12,273	38.5	42.6
Construction	4,597	203	240	4,154	3,119	413	622	38.5	40.3
Manufacturing	20,833	512	686	19,635	12,916	3,416	3,303	41.6	42.8
Durable goods	12,402	177	295	11,930	7,704	2,126	2,100	42.2	43.0
Non-durable goods	8,431	335	391	7,705	5,211	1,291	1,203	40.7	42.5
Transportation and public utilities	5,742	114	431	5,197	3,463	658	1,076	41.2	43.5
Wholesale and retail trade	17,403	698	4,697	12,008	7,267	2,010	2,731	36.4	43.9
Finance, insurance, and real estate	4,919	94	512	4,313	3,130	549	634	38.6	41.3
Service industries	24,099	872	5,339	17,888	12,961	1,852	3,075	36.1	42.3
Private households	1,288	169	696	423	294	38	91	23.3	43.3
All other industries	22,811	703	4,643	17,465	12,667	1,814	2,984	36.8	42.3
Public administration	4,746	41	244	4,461	3,329	519	613	40.5	41.9
Self-employed workers	6,138	306	1,004	4,828	2,093	540	2,195	42.2	48.8
Unpaid family workers	427	17	150	260	136	38	86	37.2	46.9

¹ Includes mining, not shown separately.

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

(Numbers in thousands)

Sex, age, race, and marital status	December 1978							
	Total at work	On part time for economic reasons	On voluntary part time				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	89,715	2,868	13,314	73,533	48,859	24,674	38.8	43.1
16 to 21 years	32,266	659	4,979	6,628	5,050	1,578	30.0	40.8
16 to 19 years	7,294	379	4,004	2,911	2,234	677	26.2	40.3
16 to 17 years	2,938	99	2,512	327	277	50	18.2	37.5
18 to 19 years	4,356	281	1,491	2,584	1,956	628	31.6	40.7
20 years and over	82,421	2,489	9,310	70,622	46,626	23,996	39.9	43.2
20 to 24 years	12,948	601	1,832	10,515	7,502	3,013	37.7	41.9
25 years and over	69,473	1,888	7,478	60,107	39,123	20,984	40.3	43.4
25 to 44 years	41,231	1,113	3,830	36,288	23,201	13,087	40.8	43.5
45 to 64 years	25,741	668	2,443	22,630	15,117	7,513	40.5	43.2
65 years and over	2,500	109	1,205	1,186	803	383	29.4	42.9
Males, 16 years and over	51,376	1,232	4,080	46,064	27,135	18,929	41.8	44.5
16 to 21 years	6,199	314	2,279	3,606	2,522	1,084	31.7	41.8
16 to 19 years	3,645	184	1,860	1,601	1,145	456	27.7	41.3
16 to 17 years	1,440	57	1,188	195	167	28	19.1	38.0
18 to 19 years	2,205	127	672	1,406	976	430	33.4	41.7
20 years and over	47,731	1,047	2,220	44,464	25,992	18,472	42.9	44.6
20 to 24 years	6,826	273	727	5,826	3,729	2,097	39.6	43.0
25 years and over	40,905	773	1,492	38,640	22,263	16,377	43.5	44.8
25 to 44 years	24,156	478	432	23,246	13,021	10,225	44.2	45.1
45 to 64 years	15,270	250	399	14,621	8,729	5,892	43.5	44.5
65 years and over	1,479	45	662	772	512	260	31.1	43.2
Females, 16 years and over	38,339	1,637	9,234	27,468	21,724	5,744	34.6	40.7
16 to 21 years	6,066	344	2,700	3,022	2,529	493	28.3	39.6
16 to 19 years	3,649	194	2,143	1,312	1,092	220	24.6	39.1
16 to 17 years	1,498	42	1,324	132	110	22	17.3	36.8
18 to 19 years	2,151	154	820	1,177	979	198	29.7	39.4
20 years and over	34,690	1,441	7,090	26,159	20,635	5,524	35.7	40.8
20 to 24 years	6,122	328	1,105	4,689	3,772	917	35.7	40.4
25 years and over	28,567	1,114	5,986	21,467	16,860	4,607	35.7	40.8
25 to 44 years	17,075	635	3,398	13,042	10,178	2,864	35.9	40.8
45 to 64 years	10,472	416	2,044	8,012	6,390	1,622	36.1	40.9
65 years and over	1,021	64	543	414	291	123	26.9	42.3
RACE								
White	79,670	2,358	12,144	65,168	42,237	22,931	38.9	43.3
Males	46,473	1,025	3,674	41,477	23,704	17,773	42.1	44.7
Females	33,496	1,333	8,473	23,690	18,533	5,157	34.5	40.8
Black and other	10,045	511	1,170	8,364	6,621	1,743	37.6	41.2
Males	5,203	207	409	4,587	3,431	1,156	39.4	42.1
Females	4,843	304	761	3,778	3,191	587	35.6	40.1
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	36,033	604	4,165	34,264	49,298	14,966	43.8	45.0
Widowed, divorced, or separated	3,989	135	195	3,659	2,282	1,377	42.1	44.2
Single (never married)	11,354	493	2,720	8,144	5,555	2,586	35.5	42.4
Females, 16 years and over:								
Married, spouse present	24,527	857	5,164	15,506	12,431	3,075	34.7	40.4
Widowed, divorced, or separated	7,214	347	1,062	5,805	4,451	1,354	37.2	41.3
Single (never married)	9,598	431	3,007	6,160	4,846	1,314	32.4	40.8

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

[Numbers in thousands]

Occupational group and sex	December 1978								
	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, 16 years and over	90,212	2,892	13,400	73,920	49,102	10,154	14,664	38.8	40.0
White-collar workers	47,468	909	6,961	39,598	25,672	5,059	8,867	39.6	43.6
Professional and technical	14,455	250	1,665	12,540	8,051	1,615	2,874	40.4	43.7
Managers and administrators, except farm	9,988	68	385	9,535	4,356	1,461	3,718	46.5	47.7
Sales workers	6,105	180	1,619	4,306	2,522	572	1,212	36.7	44.1
Clerical workers	16,921	412	3,293	13,216	10,743	1,411	1,062	35.8	40.3
Blue-collar workers	30,254	1,250	2,150	26,854	17,829	4,312	4,713	40.1	42.6
Craft and kindred workers	12,065	321	415	11,329	7,265	1,847	2,217	41.4	42.8
Operatives, except transport	10,424	491	628	9,305	6,534	1,556	1,215	39.9	42.0
Transport equipment operatives	3,434	158	342	2,934	1,566	494	874	41.4	45.3
Nonfarm laborers	4,331	280	765	3,286	2,466	415	405	35.5	40.8
Service workers	12,490	733	4,289	7,468	5,601	783	1,084	32.4	42.1
Private household	1,137	140	620	377	271	28	78	23.3	42.8
Other service workers	11,353	592	3,669	7,092	5,331	755	1,006	33.3	42.1
Males, 16 years and over	51,730	1,254	4,114	46,362	27,308	7,094	11,960	41.9	41.6
White-collar workers	22,475	228	1,484	20,763	10,856	2,968	6,939	44.1	46.1
Professional and technical	8,182	86	511	7,585	4,370	1,027	2,188	43.3	45.2
Managers and administrators, except farm	7,683	55	175	7,453	3,107	1,089	3,257	47.9	48.7
Sales workers	3,290	32	388	2,870	1,432	412	1,026	42.4	45.7
Clerical workers	3,320	54	410	2,856	1,946	441	469	39.0	42.3
Blue-collar workers	24,576	867	1,499	22,210	14,166	3,676	4,368	40.8	43.0
Craft and kindred workers	11,366	301	313	10,752	6,858	1,745	2,149	41.7	42.9
Operatives, except transport	6,236	187	305	5,744	3,658	1,076	1,010	41.5	43.2
Transport equipment operatives	3,118	127	203	2,788	1,468	477	843	42.6	45.4
Nonfarm laborers	3,856	252	677	2,927	2,184	377	366	35.4	40.7
Service workers	4,679	159	1,131	3,389	2,286	450	653	36.6	43.9
Private household	22	4	12	6	5	1	--	17.4	34.7
Other service workers	4,657	155	1,120	3,382	2,280	449	653	36.7	43.9
Females, 16 years and over	38,482	1,639	9,286	27,557	21,792	3,060	2,705	34.6	37.4
White-collar workers	24,993	681	5,478	18,834	14,814	2,091	1,929	35.5	40.8
Professional and technical	6,272	164	1,154	4,954	3,680	588	686	36.7	41.5
Managers and administrators, except farm	2,305	14	210	2,081	1,248	372	461	41.9	44.2
Sales workers	2,815	148	1,231	1,436	1,089	160	187	30.1	40.8
Clerical workers	13,601	357	2,883	10,361	8,797	974	593	35.0	39.7
Blue-collar workers	5,678	384	651	4,643	3,662	636	345	37.0	40.4
Craft and kindred workers	698	20	102	576	405	101	70	37.5	41.3
Operatives, except transport	4,188	304	323	3,561	2,876	480	205	37.5	40.1
Transport equipment operatives	316	30	138	148	100	17	31	29.6	42.9
Nonfarm laborers	475	28	88	359	282	38	39	36.1	41.2
Service workers	7,811	574	3,157	4,080	3,316	333	431	29.9	40.7
Private household	1,114	137	608	369	264	27	78	23.5	43.0
Other service workers	6,697	437	2,549	3,711	3,052	306	353	31.0	40.5

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	December 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,063	4,104	3,959	6,750	3,444	3,306	1,313	660	653
Civilian labor force	1,434	726	709	1,351	681	670	83	44	39
Employed	1,240	604	636	1,194	578	616	46	25	21
Agriculture	113	93	20	111	91	20	2	2	--
Nonagricultural industries	1,127	510	616	1,083	487	596	44	24	20
Unemployed	194	122	72	157	103	54	37	37	18
Unemployment rate	13.5	16.8	10.2	11.6	15.1	8.1	44.6	(1)	(1)
Not in labor force	6,629	3,379	3,250	5,399	2,763	2,636	1,230	616	614
Keeping house	52	8	44	43	7	36	9	2	8
Going to school	6,456	3,306	3,150	5,251	2,703	2,548	1,205	603	602
Unable to work	6	3	3	6	3	3	--	--	--
All other reasons	115	61	54	99	50	49	16	11	6

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

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

Characteristics	December 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,240	604	636	100.0	100.0	100.0
Nonagricultural industries	1,127	510	616	90.8	84.6	97.2
Wage and salary workers	1,044	489	595	84.1	74.5	93.8
Private household workers	425	66	358	34.2	10.9	56.5
Government workers	39	21	18	3.1	3.5	2.8
Other wage and salary workers	580	362	218	46.7	60.0	34.4
Self-employed workers	74	56	18	6.0	9.3	2.8
Unpaid family workers	9	5	3	.7	.8	.5
Agriculture	113	93	20	9.1	15.4	3.2
Wage and salary workers	66	56	9	5.3	9.3	1.4
Self-employed workers	8	6	1	.6	1.0	.2
Unpaid family workers	40	31	9	3.2	5.1	1.4
OCCUPATION						
Total	1,240	604	636	100.0	100.0	100.0
White-collar workers	296	186	110	23.9	30.7	17.3
Professional and technical	13	8	6	1.0	1.3	.9
Managers and administrators, except farm	--	--	--	--	--	--
Sales workers	213	157	56	17.2	25.9	8.8
Clerical workers	71	22	49	5.7	3.6	7.7
Blue-collar workers	155	134	20	12.5	22.1	3.1
Craft and kindred workers	5	5	--	.4	.8	--
Operatives, except transport	40	32	8	3.2	5.3	1.3
Transport equipment operatives	6	6	--	.5	1.0	--
Nonfarm laborers	104	92	12	8.4	15.2	1.9
Service workers	681	193	489	54.9	31.8	76.8
Private household workers	395	36	359	31.8	5.9	56.4
Other service workers	286	157	130	23.0	25.9	20.4
Farm workers	108	91	18	8.7	15.0	2.8
Farmers and farm managers	8	7	1	.6	1.2	.2
Farm laborers and supervisors	100	84	16	8.1	13.9	2.5

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status	1977		1978										
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Total noninstitutional population ¹	159,736	159,937	160,128	160,313	160,504	160,713	160,928	161,148	161,348	161,570	161,829	162,033	162,250
Armed Forces	2,129	2,121	2,124	2,122	2,118	2,113	2,098	2,116	2,122	2,123	2,122	2,117	2,108
Civilian noninstitutional population ¹	157,608	157,816	158,004	158,190	158,386	158,601	158,830	159,032	159,226	159,447	159,707	159,916	160,142
Civilian labor force	98,748	99,215	99,139	99,435	99,767	100,109	100,504	100,622	100,663	100,974	101,077	101,628	101,867
Percent of civilian population	62.7	62.9	62.7	62.9	63.0	63.1	63.3	63.3	63.2	63.3	63.3	63.6	63.6
Employed	92,561	92,923	93,047	93,282	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855
Percent of total population	57.9	58.1	58.1	58.2	58.4	58.5	58.8	58.6	58.7	58.8	58.9	59.1	59.1
Agriculture	3,304	3,363	3,280	3,334	3,274	3,243	3,424	3,377	3,351	3,406	3,374	3,275	3,387
Nonagricultural industries	89,257	89,560	89,767	89,948	90,430	90,710	91,216	91,069	91,372	91,604	91,867	92,476	92,468
Unemployed	6,187	6,292	6,092	6,153	6,063	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012
Unemployment rate	6.3	6.3	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9
Not in labor force	58,860	58,601	58,865	58,755	58,619	58,492	58,326	58,410	58,563	58,473	58,630	58,288	58,275
Males, 20 years and over													
Total noninstitutional population ¹	68,052	68,148	68,240	68,327	68,419	68,519	68,623	68,729	68,827	68,937	69,081	69,182	69,288
Civilian noninstitutional population ¹	66,364	66,467	66,556	66,645	66,740	66,845	66,947	67,039	67,127	67,236	67,382	67,466	67,600
Civilian labor force	53,001	53,169	53,161	53,235	53,276	53,383	53,449	53,401	53,396	53,459	53,593	53,938	54,033
Percent of civilian population	79.9	80.0	79.9	79.9	79.8	79.9	79.8	79.7	79.5	79.5	79.5	79.9	79.9
Employed	50,614	50,705	50,785	50,841	50,997	51,119	51,337	51,214	51,215	51,287	51,448	51,825	51,838
Percent of total population	74.4	74.4	74.4	74.4	74.5	74.6	74.8	74.5	74.4	74.4	74.5	74.9	74.8
Agriculture	2,339	2,389	2,310	2,320	2,309	2,324	2,406	2,396	2,357	2,409	2,363	2,337	2,403
Nonagricultural industries	48,275	48,316	48,475	48,521	48,688	48,795	48,931	48,818	48,858	48,878	49,085	49,488	49,435
Unemployed	2,387	2,464	2,376	2,394	2,279	2,264	2,112	2,187	2,181	2,172	2,145	2,113	2,195
Unemployment rate	4.5	4.6	4.5	4.5	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1
Not in labor force	13,363	13,298	13,395	13,410	13,464	13,462	13,498	13,638	13,731	13,777	13,789	13,548	13,567
Females, 20 years and over													
Total noninstitutional population ¹	74,883	74,991	75,095	75,196	75,300	75,412	75,527	75,643	75,753	75,873	75,998	76,110	76,227
Civilian noninstitutional population ¹	74,783	74,892	74,996	75,093	75,198	75,310	75,422	75,537	75,645	75,764	75,889	76,001	76,119
Civilian labor force	36,428	36,646	36,652	36,847	37,085	37,208	37,392	37,573	37,543	37,921	37,860	38,095	38,217
Percent of civilian population	48.7	48.9	48.9	49.1	49.3	49.4	49.6	49.7	49.6	50.1	49.9	50.1	50.2
Employed	34,066	34,358	34,540	34,678	34,874	34,886	35,098	35,160	35,312	35,691	35,726	35,887	35,990
Percent of total population	45.5	45.8	46.0	46.1	46.3	46.3	46.5	46.5	46.6	47.0	47.0	47.2	47.2
Agriculture	540	547	601	621	600	536	608	593	581	597	587	571	591
Nonagricultural industries	33,526	33,811	33,939	34,057	34,274	34,350	34,490	34,567	34,731	35,094	35,139	35,316	35,399
Unemployed	2,362	2,288	2,112	2,169	2,211	2,322	2,294	2,413	2,231	2,230	2,134	2,208	2,227
Unemployment rate	6.5	6.2	5.8	5.9	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8
Not in labor force	38,355	38,246	38,344	38,246	38,113	38,102	38,030	37,964	38,102	37,843	38,029	37,906	37,902
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,802	16,798	16,794	16,790	16,785	16,782	16,779	16,776	16,768	16,760	16,750	16,741	16,734
Civilian noninstitutional population ¹	16,460	16,457	16,453	16,452	16,449	16,446	16,461	16,455	16,455	16,446	16,436	16,429	16,422
Civilian labor force	9,319	9,400	9,326	9,353	9,406	9,518	9,663	9,648	9,724	9,594	9,624	9,595	9,617
Percent of civilian population	56.6	57.1	56.7	56.9	57.2	57.9	58.7	58.6	59.1	58.3	58.6	58.4	58.6
Employed	7,881	7,860	7,722	7,763	7,833	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027
Percent of total population	46.9	46.8	46.0	46.2	46.7	47.4	48.9	48.1	48.9	47.9	48.2	48.0	48.0
Agriculture	425	427	369	393	365	383	410	388	413	400	424	367	393
Nonagricultural industries	7,456	7,433	7,353	7,370	7,468	7,565	7,795	7,684	7,783	7,632	7,643	7,672	7,634
Unemployed	1,438	1,540	1,604	1,590	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590
Unemployment rate	15.4	16.4	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5
Not in labor force	7,141	7,057	7,127	7,099	7,043	6,928	6,798	6,807	6,731	6,852	6,812	6,834	6,805

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.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Full- and part-time employment status	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	83,920	84,389	84,485	84,628	84,842	84,957	85,965	85,894	86,030	85,899	86,185	86,391	86,631
Employed	79,051	79,440	79,649	79,850	80,166	80,175	81,436	81,004	81,389	81,247	81,680	81,900	82,034
Unemployed	4,869	4,949	4,836	4,778	4,676	4,782	4,529	4,890	4,641	4,652	4,505	4,491	4,597
Unemployment rate	5.8	5.9	5.7	5.6	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,782	14,805	14,712	14,782	14,880	15,106	14,506	14,749	14,720	14,952	14,996	15,150	15,205
Employed	13,488	13,464	13,452	13,388	13,481	13,717	13,206	13,431	13,436	13,635	13,642	13,800	13,802
Unemployed	1,294	1,341	1,260	1,394	1,399	1,389	1,300	1,318	1,284	1,317	1,354	1,350	1,403
Unemployment rate	8.8	9.1	8.6	9.4	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2

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.

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

[Numbers in thousands]

Characteristics	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
WHITE													
Total, 16 years and over:													
Civilian labor force	87,065	87,474	87,423	87,554	87,902	88,168	88,626	88,503	88,655	88,862	89,067	89,468	89,747
Employed	82,350	82,661	82,718	82,902	83,303	83,499	84,171	83,857	84,060	84,250	84,565	85,013	85,125
Unemployed	4,715	4,813	4,705	4,652	4,599	4,669	4,455	4,646	4,595	4,612	4,502	4,455	4,622
Unemployment rate	5.4	5.5	5.4	5.3	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2
Males, 20 years and over:													
Civilian labor force	47,392	47,468	47,492	47,525	47,577	47,668	47,810	47,710	47,707	47,684	47,791	48,103	48,202
Employed	45,510	45,568	45,640	45,649	45,837	45,915	46,144	45,992	45,996	45,968	46,098	46,477	46,492
Unemployed	1,882	1,900	1,852	1,876	1,740	1,753	1,666	1,718	1,711	1,716	1,693	1,626	1,710
Unemployment rate	4.0	4.0	3.9	3.9	3.7	3.7	3.5	3.6	3.6	3.6	3.5	3.4	3.5
Females, 20 years and over:													
Civilian labor force	31,376	31,612	31,619	31,701	31,955	32,055	32,214	32,343	32,265	32,602	32,677	32,809	32,981
Employed	29,589	29,855	29,979	30,123	30,279	30,303	30,490	30,565	30,574	30,912	31,074	31,161	31,287
Unemployed	1,787	1,757	1,640	1,578	1,676	1,752	1,724	1,778	1,691	1,690	1,603	1,648	1,694
Unemployment rate	5.7	5.6	5.2	5.0	5.2	5.5	5.4	5.5	5.2	5.2	4.9	5.0	5.1
Both sexes, 16 to 19 years:													
Civilian labor force	8,297	8,394	8,312	8,328	8,370	8,445	8,602	8,450	8,683	8,576	8,599	8,556	8,564
Employed	7,251	7,238	7,099	7,130	7,187	7,281	7,537	7,300	7,490	7,370	7,393	7,375	7,346
Unemployed	1,046	1,156	1,213	1,198	1,183	1,164	1,065	1,150	1,193	1,206	1,206	1,181	1,218
Unemployment rate	12.6	13.8	14.6	14.4	14.1	13.8	12.4	13.6	13.7	14.1	14.0	13.8	14.2
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,708	11,725	11,773	11,852	11,802	11,906	11,974	12,010	11,994	12,084	12,122	12,163	12,153
Employed	10,237	10,226	10,369	10,372	10,391	10,437	10,537	10,533	10,616	10,721	10,749	10,746	10,758
Unemployed	1,471	1,499	1,404	1,480	1,411	1,469	1,437	1,477	1,378	1,363	1,373	1,417	1,395
Unemployment rate	12.6	12.8	11.9	12.5	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5
Males, 20 years and over:													
Civilian labor force	5,638	5,666	5,652	5,688	5,665	5,713	5,721	5,703	5,692	5,759	5,808	5,829	5,867
Employed	5,134	5,120	5,154	5,189	5,158	5,208	5,250	5,228	5,195	5,286	5,327	5,345	5,376
Unemployed	504	546	498	499	507	505	471	475	497	473	481	484	491
Unemployment rate	8.9	9.6	8.8	8.8	8.9	8.8	8.2	8.3	8.7	8.2	8.3	8.3	8.4
Females, 20 years and over:													
Civilian labor force	5,045	5,049	5,080	5,126	5,114	5,142	5,191	5,172	5,266	5,287	5,277	5,266	5,224
Employed	4,471	4,489	4,571	4,546	4,572	4,580	4,615	4,580	4,722	4,759	4,743	4,723	4,691
Unemployed	574	560	509	580	542	562	576	592	544	528	534	543	533
Unemployment rate	11.4	11.1	10.0	11.3	10.6	10.9	11.1	11.4	10.3	10.0	10.1	10.3	10.2
Both sexes, 16 to 19 years:													
Civilian labor force	1,025	1,010	1,041	1,038	1,023	1,051	1,062	1,135	1,036	1,038	1,037	1,068	1,062
Employed	632	617	644	637	661	649	672	725	699	676	679	678	691
Unemployed	393	393	397	401	362	402	390	410	337	362	358	390	371
Unemployment rate	38.3	38.9	38.1	38.6	35.4	38.2	36.7	36.1	32.5	34.9	34.5	36.5	34.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTICS													
Total (all civilian workers)	6.3	6.3	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9
Males, 20 years and over	4.5	4.6	4.5	4.5	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1
Females, 20 years and over	6.5	6.2	5.8	5.9	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8
Both sexes, 16-19 years	15.4	16.4	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5
White	5.4	5.5	5.4	5.3	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2
Black and other	12.6	12.8	11.9	12.5	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5
Married men, spouse present	3.1	3.1	2.9	3.0	2.8	2.9	2.7	2.7	2.8	2.6	2.6	2.4	2.5
Married women, spouse present	6.1	5.7	5.3	5.2	5.1	6.0	5.6	5.5	5.6	5.5	5.3	5.5	5.6
Women who head families	7.8	8.2	7.7	8.7	10.1	9.3	8.8	9.8	8.0	8.0	7.5	7.7	7.7
Full-time workers	5.8	5.9	5.7	5.6	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3
Part-time workers	8.8	9.1	8.6	9.4	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2
Unemployed 15 weeks and over ¹	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.2
Labor force time lost ²	6.9	6.8	6.6	6.7	6.5	6.6	6.5	6.8	6.5	6.4	6.2	6.2	6.2
OCCUPATION													
White-collar workers	3.9	3.7	3.6	3.5	3.6	3.7	3.6	3.7	3.5	3.5	3.3	3.2	3.5
Professional and technical	2.7	2.7	2.5	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.8	2.4	3.0
Managers and administrators, except farm	2.5	2.5	1.9	2.2	2.0	2.1	1.9	2.2	1.9	2.2	1.8	2.2	1.9
Sales workers	4.7	3.9	4.4	4.4	4.3	4.5	4.4	4.3	4.1	4.3	4.1	3.1	3.6
Clerical workers	5.4	5.1	5.1	4.6	5.1	5.3	5.1	5.3	4.9	4.7	4.2	4.5	4.6
Blue-collar workers	7.0	7.3	7.2	7.2	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.4	6.8
Craft and kindred workers	5.1	5.3	5.0	5.0	4.4	4.4	4.3	4.0	4.5	4.7	4.9	4.0	4.7
Operatives, except transport	8.1	8.4	8.3	8.2	8.0	8.4	8.1	8.2	8.8	8.1	7.6	7.5	7.7
Transport equipment operatives	5.5	5.4	5.1	5.3	5.5	5.6	4.9	5.7	5.6	5.2	4.8	4.2	5.3
Nonfarm laborers	10.7	11.0	11.3	11.7	10.3	8.8	10.2	10.6	9.7	10.5	11.0	11.6	11.0
Service workers	7.7	7.6	7.2	7.7	7.7	7.6	7.2	7.4	7.1	7.4	7.1	7.4	7.7
Farm workers	4.1	3.9	4.1	4.5	3.2	3.6	3.2	3.9	3.6	3.9	4.6	3.2	3.4
INDUSTRY													
Nonagricultural private wage and salary workers ³	6.2	6.3	6.1	6.1	5.9	6.0	5.7	6.0	5.8	5.8	5.6	5.6	5.8
Construction	10.7	11.5	11.2	11.0	9.8	9.6	9.5	9.6	9.4	10.6	11.2	10.8	12.1
Manufacturing	5.6	5.7	5.8	5.6	5.4	5.7	5.6	5.5	5.6	5.3	5.1	5.1	5.0
Durable goods	5.5	5.3	5.1	5.0	4.5	5.1	4.9	5.0	5.4	4.8	4.6	4.6	4.4
Nondurable goods	5.7	6.3	6.7	6.4	6.5	6.5	6.6	6.3	5.8	6.1	6.0	5.8	6.0
Transportation	4.6	4.3	3.3	3.9	3.8	3.9	3.9	4.1	3.8	3.6	3.4	3.3	3.3
Wholesale and retail trade	7.2	7.2	7.2	7.3	7.1	6.9	6.4	6.8	6.5	6.7	6.7	6.5	6.8
Finance and service industries	5.4	5.4	5.2	5.2	5.2	5.2	4.8	5.4	5.2	5.1	4.6	5.0	5.1
Government workers	4.2	4.2	3.5	3.8	3.9	4.0	4.0	4.1	3.6	3.9	3.9	3.9	4.0
Agricultural wage and salary workers	9.5	9.0	9.7	9.7	7.9	7.9	8.4	9.6	8.7	8.7	9.5	7.9	7.7

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,645	2,742	2,649	2,789	2,747	2,862	2,772	2,967	2,795	2,783	2,719	2,833	2,876
5 to 14 weeks	1,913	1,903	1,880	1,909	1,856	1,842	1,908	1,873	1,895	1,861	1,789	1,774	1,979
15 weeks and over	1,648	1,641	1,559	1,488	1,486	1,404	1,266	1,314	1,234	1,268	1,317	1,196	1,208
15 to 26 weeks	813	838	894	787	809	723	674	668	625	663	732	685	726
27 weeks and over	835	803	665	701	677	681	592	646	609	605	585	511	482
Average (mean) duration, in weeks	13.7	13.0	12.6	12.4	12.4	12.2	12.0	11.8	11.4	11.5	11.8	11.0	10.7
Median duration, in weeks	6.8	6.5	7.1	6.2	5.9	5.3	6.0	6.0	6.0	5.9	5.9	5.4	5.6
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	42.6	43.6	43.5	45.1	45.1	46.9	46.6	46.2	47.2	47.1	46.7	48.8	47.4
5 to 14 weeks	30.8	30.3	30.9	30.9	30.5	30.2	32.1	30.4	32.0	31.5	30.7	30.6	32.6
15 weeks and over	26.6	26.1	25.6	24.1	24.4	23.0	21.3	21.4	20.8	21.4	22.6	20.6	19.9
15 to 26 weeks	13.1	13.3	14.7	12.7	13.3	11.8	11.3	10.9	10.6	11.2	12.6	11.8	12.0
27 weeks and over	13.5	12.8	10.9	11.3	11.1	11.1	10.0	10.5	10.3	10.2	10.0	8.8	7.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over.....	6.3	6.3	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9
16 to 19 years.....	15.4	16.4	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5
18 to 17 years.....	17.8	18.7	20.5	20.1	19.6	19.1	17.1	20.0	18.6	19.2	19.2	19.3	20.2
18 to 19 years.....	13.7	14.6	14.9	15.0	14.4	14.6	13.4	13.9	13.5	14.0	14.0	14.0	13.8
20 to 24 years.....	10.1	10.5	10.1	10.2	10.0	9.1	9.4	9.9	9.0	9.3	8.6	9.0	9.3
25 years and over.....	4.4	4.3	4.0	4.0	4.0	4.2	3.9	4.1	4.1	4.0	3.9	3.8	3.9
25 to 54 years.....	4.5	4.4	4.2	4.3	4.2	4.5	4.1	4.3	4.3	4.1	4.2	4.0	4.2
55 years and over.....	3.9	3.5	3.3	3.2	3.2	3.3	3.2	3.2	3.0	3.3	3.0	2.9	2.9
Male, 16 years and over.....	5.4	5.6	5.5	5.6	5.3	5.2	4.8	5.1	5.0	5.1	5.1	5.0	5.1
16 to 19 years.....	15.0	15.6	16.9	16.7	16.3	15.3	13.7	15.4	14.8	15.5	16.1	15.9	16.7
18 to 17 years.....	16.6	18.1	20.8	20.2	19.5	18.4	16.8	18.6	17.7	19.1	19.9	20.1	20.7
18 to 19 years.....	13.7	13.6	14.1	14.1	13.4	13.1	12.0	13.0	12.5	12.6	13.2	12.7	13.6
20 to 24 years.....	9.6	10.4	10.1	10.0	9.3	8.0	8.4	8.9	8.8	8.6	8.5	8.5	8.9
25 years and over.....	3.6	3.6	3.4	3.5	3.4	3.5	3.1	3.3	3.3	3.3	3.3	3.1	3.2
25 to 54 years.....	3.6	3.6	3.5	3.6	3.4	3.5	3.2	3.3	3.5	3.4	3.4	3.2	3.4
55 years and over.....	3.6	3.3	3.2	3.2	3.3	3.3	3.1	3.4	2.9	3.0	2.8	2.5	2.6
Females, 16 years and over.....	7.5	7.4	7.0	7.1	7.2	7.5	7.3	7.6	7.1	7.1	6.8	6.9	6.9
16 to 19 years.....	16.0	17.3	17.6	17.4	17.2	17.8	16.6	17.4	16.8	17.1	16.3	16.5	16.3
18 to 17 years.....	19.2	19.5	20.1	19.9	19.7	20.0	17.6	21.6	19.7	19.4	18.4	18.3	19.6
18 to 19 years.....	13.7	15.8	15.8	15.9	15.5	16.2	15.0	14.8	14.6	15.6	14.8	15.5	14.1
20 to 24 years.....	10.7	10.5	10.0	10.4	10.8	10.5	10.5	11.0	9.2	10.1	8.7	9.6	9.7
25 years and over.....	5.5	5.3	4.8	4.9	4.9	5.4	5.1	5.4	5.2	4.9	4.9	4.9	5.0
25 to 54 years.....	5.8	5.6	5.2	5.3	5.3	5.9	5.6	5.8	5.6	5.2	5.2	5.2	5.3
55 years and over.....	4.3	3.9	3.3	3.2	3.1	3.2	3.2	2.9	3.2	3.8	3.3	3.5	3.3

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

[Numbers in thousands]

Reason for unemployment	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers.....	2,681	2,711	2,589	2,562	2,556	2,614	2,379	2,536	2,459	2,362	2,456	2,372	2,442
On layoff.....	691	742	719	691	637	701	636	696	700	683	644	746	715
Other job losers.....	1,990	1,969	1,870	1,871	1,919	1,913	1,743	1,840	1,759	1,679	1,812	1,626	1,727
Job leavers.....	852	861	896	858	877	828	853	855	840	849	812	825	871
Reentrants.....	1,857	1,812	1,802	1,878	1,750	1,793	1,785	1,870	1,743	1,930	1,721	1,754	1,937
New entrants.....	827	915	880	912	905	892	816	871	875	816	825	872	826
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.....	43.1	43.0	42.0	41.3	42.0	42.7	40.8	41.4	41.6	39.7	42.2	40.7	40.2
On layoff.....	11.1	11.8	11.7	11.1	10.5	11.4	10.9	11.4	11.8	11.5	11.1	12.8	11.8
Other job losers.....	32.0	31.3	30.3	30.1	31.5	31.2	29.9	30.0	29.7	28.2	31.2	27.9	28.4
Job leavers.....	13.7	13.7	14.5	13.8	14.4	13.5	14.6	13.9	14.2	14.3	14.0	14.2	14.3
Reentrants.....	29.9	28.8	29.2	30.2	28.7	29.3	30.6	30.5	29.5	32.4	29.6	30.1	31.9
New entrants.....	13.3	14.5	14.3	14.7	14.9	14.6	14.0	14.2	14.8	13.7	14.2	15.0	13.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers.....	2.7	2.7	2.6	2.6	2.6	2.6	2.4	2.5	2.4	2.3	2.4	2.3	2.4
On layoff.....	.9	.9	.9	.9	.9	.8	.8	.8	.8	.8	.8	.8	.9
Other job losers.....	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.7	1.9	1.7	1.7	1.9
Job leavers.....	.8	.9	.9	.9	.9	.9	.8	.9	.9	.8	.8	.9	.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	92,561	92,923	93,047	93,282	93,704	93,953	94,640	94,486	94,723	95,010	95,241	95,751	95,855
16 to 19 years	7,881	7,860	7,722	7,763	7,833	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027
16 to 17 years	3,226	3,215	3,158	3,145	3,222	3,282	3,365	3,287	3,370	3,293	3,308	3,276	3,300
18 to 19 years	4,651	4,641	4,605	4,601	4,643	4,665	4,789	4,736	4,814	4,749	4,773	4,783	4,730
20 to 24 years	13,158	13,196	13,193	13,222	13,385	13,432	13,532	13,483	13,626	13,666	13,773	13,701	13,760
25 years and over	71,521	71,875	72,142	72,276	72,497	72,557	72,879	72,922	72,761	73,332	73,530	73,976	74,070
25 to 54 years	57,584	57,906	58,126	58,261	58,395	58,378	58,645	58,789	58,750	59,191	59,329	59,630	59,781
55 years and over	13,975	13,965	14,016	14,014	14,107	14,107	14,239	14,148	14,114	14,124	14,137	14,340	14,327
Males, 16 years and over	54,922	54,992	54,943	55,042	55,184	55,372	55,766	55,531	55,580	55,594	55,754	56,096	56,072
16 to 19 years	4,308	4,287	4,158	4,201	4,187	4,253	4,429	4,317	4,365	4,307	4,306	4,271	4,234
16 to 17 years	1,806	1,785	1,723	1,759	1,738	1,778	1,831	1,766	1,810	1,775	1,751	1,734	1,744
18 to 19 years	2,492	2,506	2,463	2,448	2,481	2,455	2,558	2,520	2,562	2,549	2,558	2,559	2,494
20 to 24 years	7,176	7,159	7,139	7,200	7,306	7,348	7,371	7,304	7,378	7,378	7,432	7,478	7,443
25 years and over	43,454	43,554	43,641	43,622	43,699	43,772	43,934	43,894	43,807	43,950	44,026	44,340	44,411
25 to 54 years	34,785	34,937	34,949	34,957	35,019	35,046	35,121	35,183	35,087	35,237	35,261	35,481	35,560
55 years and over	8,689	8,629	8,676	8,676	8,676	8,702	8,801	8,721	8,719	8,711	8,760	8,867	8,872
Females, 16 years and over	37,639	37,931	38,104	38,240	38,520	38,581	38,874	38,915	39,143	39,416	39,487	39,655	39,783
16 to 19 years	3,573	3,573	3,564	3,562	3,646	3,695	3,776	3,755	3,831	3,725	3,761	3,768	3,793
16 to 17 years	1,420	1,430	1,435	1,386	1,484	1,504	1,534	1,521	1,560	1,518	1,557	1,542	1,556
18 to 19 years	2,159	2,155	2,142	2,153	2,162	2,210	2,231	2,216	2,252	2,200	2,215	2,224	2,236
20 to 24 years	5,982	6,037	6,054	6,022	6,079	6,084	6,161	6,179	6,248	6,288	6,341	6,223	6,317
25 years and over	28,067	28,321	28,501	28,654	28,798	28,785	28,945	29,028	28,954	29,382	29,504	29,636	29,659
25 to 54 years	22,799	22,969	23,177	23,304	23,376	23,332	23,524	23,606	23,663	23,954	24,068	24,149	24,221
55 years and over	5,286	5,336	5,340	5,338	5,431	5,405	5,438	5,427	5,395	5,413	5,377	5,473	5,455

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

[In thousands]

Sex and age	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and over	6,187	6,292	6,092	6,153	6,063	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012
16 to 19 years	1,438	1,540	1,604	1,590	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590
16 to 17 years	698	740	813	790	785	777	696	824	772	783	786	781	834
18 to 19 years	740	797	806	810	779	796	742	763	751	773	775	778	759
20 to 24 years	1,483	1,543	1,477	1,501	1,482	1,351	1,399	1,479	1,343	1,399	1,298	1,361	1,406
25 years and over	3,257	3,205	2,992	3,044	3,016	3,215	2,991	3,152	3,088	3,025	3,015	2,951	3,015
25 to 54 years	2,715	2,685	2,532	2,611	2,536	2,740	2,538	2,648	2,660	2,553	2,569	2,514	2,615
55 years and over	561	511	476	459	470	474	464	465	436	478	438	428	424
Males, 16 years and over	3,146	3,256	3,221	3,235	3,096	3,032	2,816	2,971	2,937	2,965	2,971	2,923	3,044
16 to 19 years	759	792	845	841	817	768	704	784	756	793	826	810	849
16 to 17 years	360	394	453	445	421	401	369	404	389	418	436	436	455
18 to 19 years	396	393	403	402	383	370	348	378	367	367	390	371	391
20 to 24 years	766	832	802	800	747	640	679	712	708	696	693	699	730
25 years and over	1,618	1,618	1,551	1,582	1,533	1,575	1,426	1,487	1,506	1,495	1,505	1,413	1,469
25 to 54 years	1,302	1,316	1,261	1,304	1,223	1,286	1,145	1,185	1,256	1,228	1,237	1,188	1,249
55 years and over	326	297	291	283	299	296	286	305	257	265	253	230	235
Females, 16 years and over	3,041	3,036	2,871	2,918	2,967	3,124	3,048	3,205	3,003	2,999	2,865	2,954	2,968
16 to 19 years	679	748	759	749	756	802	754	792	772	769	731	746	741
16 to 17 years	338	346	360	345	364	376	327	420	383	365	350	345	379
18 to 19 years	344	404	403	408	396	426	394	385	384	406	385	407	368
20 to 24 years	717	711	675	701	735	711	720	767	635	703	605	662	676
25 years and over	1,639	1,587	1,441	1,462	1,483	1,640	1,565	1,665	1,582	1,530	1,510	1,538	1,546
25 to 54 years	1,413	1,369	1,271	1,307	1,313	1,454	1,393	1,463	1,404	1,325	1,332	1,326	1,366
55 years and over	235	214	185	176	171	178	178	160	179	213	185	198	189

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CHARACTERISTICS													
Total, 16 years and over	92,561	92,923	93,047	93,282	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855
Married men, spouse present	38,653	38,653	38,677	38,459	38,575	38,596	38,621	38,635	38,534	38,782	38,806	38,944	39,039
Married women, spouse present	21,412	21,567	21,704	21,672	21,713	21,694	21,749	21,837	21,737	22,133	22,194	22,274	22,297
OCCUPATION													
White-collar workers	46,205	46,481	46,582	46,763	46,795	46,885	47,225	47,276	47,325	47,550	47,713	47,888	48,040
Professional and technical Managers and administrators, except farm	13,947	14,041	14,062	14,087	14,186	14,356	14,318	14,249	14,246	14,182	14,307	14,297	14,629
Sales workers	9,913	10,047	10,116	10,136	10,184	9,972	10,146	10,212	10,180	10,062	9,968	10,030	10,217
Clerical workers	5,814	5,897	5,836	5,939	5,856	5,903	5,922	5,992	5,892	5,898	5,986	6,192	6,092
Blue-collar workers	16,531	16,496	16,568	16,601	16,569	16,654	16,839	16,823	17,007	17,408	17,452	17,369	17,102
Craft and kindred workers	30,880	30,855	31,140	31,085	31,452	31,477	31,554	31,282	31,506	31,891	31,986	32,202	31,962
Operatives, except transport equipment	12,215	12,112	12,181	12,181	12,277	12,233	12,429	12,220	12,557	12,628	12,556	12,646	12,610
operatives	10,459	10,649	10,690	10,741	10,875	10,798	10,924	10,877	10,741	10,981	11,178	11,177	10,887
Nonfarm laborers	3,556	3,449	3,631	3,529	3,539	3,508	3,501	3,487	3,429	3,573	3,581	3,640	3,640
Service workers	4,650	4,645	4,638	4,634	4,761	4,938	4,700	4,698	4,779	4,709	4,671	4,739	4,825
Farm workers	12,650	12,681	12,723	12,666	12,814	12,838	12,987	12,803	12,866	12,754	12,951	13,009	13,007
Unpaid family workers	2,789	2,858	2,784	2,799	2,726	2,708	2,874	2,797	2,794	2,855	2,821	2,739	2,826
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,384	1,394	1,366	1,398	1,406	1,434	1,443	1,386	1,423	1,442	1,423	1,424	1,478
Self-employed workers	1,603	1,603	1,595	1,558	1,555	1,577	1,664	1,641	1,611	1,648	1,638	1,563	1,625
Unpaid family workers	345	338	322	382	295	250	328	340	319	307	323	293	318
Nonagricultural industries:													
Wage and salary workers	82,646	82,905	83,054	83,150	83,622	84,016	84,456	84,064	84,508	84,786	85,363	85,578	85,579
Government	15,368	15,275	15,253	15,213	15,324	15,238	15,255	15,184	15,275	15,336	15,387	15,373	15,360
Private industries	67,278	67,630	67,801	67,937	68,298	68,778	69,201	68,880	69,233	69,450	69,976	70,205	70,219
Private households	1,429	1,416	1,401	1,300	1,395	1,410	1,370	1,371	1,368	1,361	1,315	1,335	1,316
Other industries	65,849	66,214	66,400	66,637	66,903	67,368	67,831	67,509	67,865	68,089	68,661	68,870	68,903
Self-employed workers	6,187	6,238	6,260	6,389	6,443	6,274	6,216	6,216	6,219	6,224	6,314	6,370	6,515
Unpaid family workers	455	456	482	488	499	497	466	485	449	470	453	455	460
PERSONS AT WORK¹													
Nonagricultural industries	83,556	83,573	84,096	84,434	85,797	85,401	86,011	86,102	86,350	86,329	86,511	86,653	87,046
Full-time schedules	68,542	68,862	69,211	69,495	70,481	70,090	70,723	70,929	71,205	71,085	71,318	71,394	71,787
Part-time for economic reasons	3,208	3,045	3,203	3,184	3,310	3,247	3,433	3,316	3,298	3,203	3,164	3,131	3,058
Usually work full-time	1,246	1,109	1,160	1,238	1,231	1,211	1,409	1,347	1,350	1,283	1,167	1,279	1,209
Usually work part-time	1,962	1,936	2,043	1,946	2,079	2,036	2,024	1,969	1,948	1,920	1,997	1,852	1,849
Part-time for noneconomic reasons	11,806	11,666	11,682	11,755	12,006	12,064	11,855	11,857	11,847	12,041	12,029	12,128	12,201

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

A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 39 years of age

(Numbers in thousands)

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Dec. 1977	Nov. 1978	Dec. 1978	Dec. 1977	Aug. 1978	Sept. 1978	Oct. 1978	Nov. 1978	Dec. 1978
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,620	6,363	6,336	6,620	6,461	6,440	6,391	6,363	6,336
Civilian labor force	6,307	6,073	6,071	6,315	6,182	6,114	6,065	6,058	6,079
Employed	5,966	5,795	5,739	5,972	5,807	5,819	5,775	5,767	5,746
Unemployed	341	278	332	343	375	295	290	291	333
Unemployment rate	5.4	4.6	5.5	5.4	6.1	4.8	4.8	4.8	5.5
20 to 24 years:									
Civilian noninstitutional population ²	844	664	653	844	736	722	676	664	653
Civilian labor force	743	593	589	746	669	619	590	583	592
Employed	656	529	489	661	577	555	535	516	494
Unemployed	87	64	100	85	92	64	55	67	98
Unemployment rate	11.7	10.8	17.0	11.4	13.8	10.3	9.3	11.5	16.6
25 to 29 years:									
Civilian noninstitutional population ²	2,618	2,175	2,148	2,618	2,297	2,256	2,203	2,175	2,148
Civilian labor force	2,478	2,079	2,059	2,493	2,152	2,128	2,079	2,073	2,074
Employed	2,337	1,956	1,941	2,344	2,000	1,979	1,940	1,942	1,949
Unemployed	141	123	118	149	152	149	139	131	125
Unemployment rate	5.7	5.9	5.7	6.0	7.1	7.0	6.7	6.3	6.0
30 to 34 years:									
Civilian noninstitutional population ²	3,158	3,524	3,535	3,158	3,428	3,462	3,512	3,524	3,535
Civilian labor force	3,086	3,401	3,423	3,076	3,361	3,367	3,396	3,402	3,413
Employed	2,973	3,310	3,309	2,967	3,230	3,285	3,300	3,309	3,303
Unemployed	113	91	114	109	131	82	96	93	110
Unemployment rate	3.7	2.7	3.3	3.5	3.9	2.4	2.8	2.7	3.2
35 to 39 years:									
Civilian noninstitutional population ²	914	1,299	1,335	914	1,167	1,199	1,263	1,299	1,335
Civilian labor force	892	1,258	1,294	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	866	1,229	1,256	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	24	29	38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	2.7	2.3	2.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	18,216	18,808	18,880	18,218	18,583	18,654	18,733	18,808	18,880
Civilian labor force	16,301	17,040	17,048	16,473	16,819	16,913	16,939	17,128	17,225
Employed	15,202	16,127	16,063	15,346	15,856	15,936	15,960	16,140	16,219
Unemployed	1,099	913	985	1,127	963	977	979	988	1,006
Unemployment rate	6.7	5.4	5.8	6.8	5.7	5.8	5.8	5.8	5.8
20 to 24 years:									
Civilian noninstitutional population ²	8,437	8,451	8,459	8,437	8,417	8,426	8,441	8,451	8,459
Civilian labor force	7,041	7,182	7,129	7,206	7,195	7,214	7,260	7,307	7,291
Employed	6,403	6,641	6,577	6,527	6,603	6,619	6,673	6,722	6,708
Unemployed	638	541	552	679	592	595	587	585	583
Unemployment rate	9.1	7.5	7.7	9.4	8.2	8.2	8.1	8.0	8.0
25 to 29 years:									
Civilian noninstitutional population ²	5,781	6,338	6,379	5,781	6,172	6,227	6,295	6,338	6,379
Civilian labor force	5,450	6,001	6,036	5,451	5,864	5,899	5,916	5,973	6,040
Employed	5,161	5,749	5,727	5,170	5,598	5,649	5,653	5,703	5,738
Unemployed	289	252	309	281	266	250	263	270	302
Unemployment rate	5.3	4.2	5.1	5.2	4.5	4.2	4.4	4.5	5.0
30 to 34 years:									
Civilian noninstitutional population ²	4,000	4,019	4,042	4,000	3,994	4,001	3,997	4,019	4,042
Civilian labor force	3,810	3,857	3,883	3,816	3,760	3,800	3,763	3,848	3,894
Employed	3,638	3,737	3,759	3,649	3,655	3,668	3,634	3,715	3,773
Unemployed	172	120	124	167	105	132	129	133	121
Unemployment rate	4.5	3.1	3.2	4.4	2.8	3.5	3.4	3.5	3.1
35 to 39 years:									
Civilian noninstitutional population ²	3,491	3,654	3,666	3,491	3,635	3,645	3,645	3,654	3,666
Civilian labor force	3,360	3,495	3,511	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,246	3,406	3,408	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	114	89	103	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.4	2.5	2.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.

N.A. = not available.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the noninstitutional population by sex, age, and race, seasonally adjusted

[Numbers in thousands]

Employment status	1975				1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
TOTAL																
Total noninstitutional population ¹	154,477	155,115	155,717	156,368	156,990	157,582	158,223	158,898	159,531	160,126	160,715	161,355	162,037			
Armed Forces ¹	2,159	2,144	2,141	2,144	2,147	2,136	2,130	2,135	2,132	2,122	2,110	2,120	2,115			
Civilian noninstitutional population ¹	152,319	152,971	153,576	154,224	154,843	155,446	156,094	156,764	157,399	158,004	158,605	159,235	159,922			
Civilian labor force	93,081	93,735	94,453	95,205	95,583	96,248	97,106	97,607	98,538	99,263	100,127	100,753	101,524			
Percent of civilian population	61.1	61.3	61.5	61.7	61.7	61.9	62.2	62.3	62.6	62.8	63.1	63.3	63.5			
Employed	85,379	86,506	87,299	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616			
Percent of total population	55.3	55.8	56.1	56.2	56.2	56.5	57.0	57.2	57.7	58.1	58.6	58.7	59.0			
Agriculture	3,307	3,296	3,324	3,309	3,253	3,170	3,300	3,202	3,302	3,326	3,314	3,378	3,345			
Nonagricultural industries	82,073	83,210	83,975	84,552	84,937	85,900	86,857	87,697	88,744	89,758	90,785	91,348	92,270			
Unemployed	7,702	7,230	7,154	7,345	7,392	7,178	6,949	6,708	6,492	6,179	6,028	6,027	5,908			
Unemployment rate	8.3	7.7	7.6	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8			
Males, 20 years and over																
Total noninstitutional population ¹	65,543	65,827	66,090	66,385	66,711	67,023	67,321	67,641	67,951	68,238	68,520	68,831	69,184			
Civilian noninstitutional population ¹	63,828	64,139	64,400	64,690	65,014	65,338	65,635	65,949	66,261	66,556	66,844	67,134	67,489			
Civilian labor force	50,973	51,076	51,397	51,672	51,888	52,129	52,293	52,448	52,891	53,188	53,369	53,419	53,855			
Percent of civilian population	79.9	79.6	79.8	79.9	79.8	79.8	79.7	79.5	79.8	79.9	79.8	79.6	79.8			
Employed	47,585	48,061	48,404	48,633	48,786	49,156	49,538	49,843	50,397	50,777	51,151	51,239	51,704			
Percent of total population	72.6	73.0	73.2	73.3	73.1	73.3	73.6	73.7	74.2	74.4	74.7	74.4	74.7			
Agriculture	2,379	2,366	2,402	2,363	2,295	2,259	2,329	2,304	2,335	2,340	2,346	2,387	2,368			
Nonagricultural industries	45,206	45,695	46,002	46,271	46,490	46,897	47,210	47,539	48,062	48,437	48,805	48,851	49,336			
Unemployed	3,388	3,015	2,993	3,038	3,103	2,973	2,755	2,605	2,494	2,411	2,218	2,180	2,151			
Unemployment rate	6.6	5.9	5.8	5.9	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0			
Females, 20 years and over																
Total noninstitutional population ¹	72,214	72,535	72,839	73,169	73,468	73,746	74,079	74,429	74,770	75,094	75,413	75,756	76,112			
Civilian noninstitutional population ¹	72,140	72,456	72,754	73,080	73,378	73,653	73,984	74,331	74,671	74,994	75,310	75,649	76,003			
Civilian labor force	33,341	33,749	34,065	34,510	34,735	35,045	35,559	35,842	36,277	36,715	37,228	37,679	38,057			
Percent of civilian population	46.2	46.6	46.8	47.2	47.3	47.6	48.1	48.2	48.6	49.0	49.4	49.8	50.1			
Employed	30,739	31,236	31,607	31,898	32,153	32,521	33,060	33,373	33,835	34,525	34,953	35,388	35,868			
Percent of total population	42.6	43.1	43.4	43.6	43.8	44.1	44.6	44.8	45.3	46.0	46.3	46.7	47.1			
Unemployed	2,601	2,513	2,458	2,612	2,582	2,525	2,499	2,469	2,442	2,190	2,276	2,291	2,190			
Unemployment rate	7.8	7.4	7.2	7.6	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.8			
Both sexes, 16-19 years																
Total noninstitutional population ¹	16,720	16,754	16,788	16,815	16,812	16,813	16,823	16,828	16,810	16,794	16,782	16,768	16,742			
Civilian noninstitutional population ¹	16,351	16,376	16,422	16,454	16,451	16,454	16,475	16,484	16,468	16,454	16,452	16,452	16,429			
Civilian labor force	8,768	8,910	8,991	9,024	8,960	9,073	9,255	9,316	9,371	9,360	9,529	9,655	9,612			
Percent of civilian population	53.6	54.4	54.7	54.8	54.5	55.1	56.2	56.5	56.9	56.9	57.9	58.7	58.5			
Employed	7,055	7,209	7,288	7,329	7,252	7,393	7,559	7,682	7,814	7,782	7,995	8,100	8,044			
Percent of total population	42.2	43.0	43.4	43.6	43.1	44.0	44.9	45.7	46.5	46.3	47.6	48.3	48.0			
Unemployed	1,713	1,701	1,703	1,694	1,707	1,680	1,696	1,634	1,556	1,578	1,534	1,555	1,568			
Unemployment rate	19.5	19.1	18.9	18.8	19.1	18.5	18.3	17.5	16.6	16.9	16.1	16.1	16.3			
White																
Total noninstitutional population ¹	136,104	136,611	137,087	137,602	138,105	138,574	139,084	139,620	140,107	140,568	141,028	141,526	142,034			
Civilian noninstitutional population ¹	134,302	134,823	135,303	135,823	136,326	136,812	137,333	137,870	138,364	138,839	139,323	139,822	140,336			
Civilian labor force	82,464	82,946	83,595	84,294	84,582	85,149	85,923	86,222	87,014	87,484	88,232	88,673	89,427			
Percent of civilian population	61.4	61.5	61.8	62.1	62.0	62.2	62.6	62.5	62.9	63.0	63.3	63.4	63.7			
Employed	76,206	77,159	77,862	78,342	78,640	79,417	80,426	81,033	82,037	82,760	83,658	84,056	84,901			
Percent of total population	56.0	56.5	56.8	56.9	56.9	57.3	57.8	58.0	58.6	58.9	59.3	59.4	59.8			
Unemployed	6,259	5,787	5,733	5,952	5,942	5,732	5,497	5,189	4,977	4,723	4,574	4,618	4,526			
Unemployment rate	7.6	7.0	6.9	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1			
Black and other																
Total noninstitutional population ¹	18,374	18,504	18,630	18,766	18,885	19,008	19,139	19,279	19,424	19,557	19,687	19,829	20,003			
Civilian noninstitutional population ¹	18,017	18,148	18,273	18,401	18,517	18,634	18,761	18,894	19,035	19,164	19,282	19,413	19,585			
Civilian labor force	10,663	10,759	10,846	10,918	11,046	11,099	11,186	11,334	11,564	11,783	11,894	12,029	12,146			
Percent of civilian population	59.2	59.3	59.4	59.3	59.6	59.6	59.6	60.0	60.8	61.5	61.7	62.0	62.0			
Employed	9,199	9,334	9,437	9,496	9,580	9,663	9,745	9,807	10,035	10,322	10,455	10,623	10,751			
Percent of total population	50.1	50.4	50.7	50.6	50.7	50.8	50.9	50.9	51.7	52.8	53.1	53.6	53.7			
Unemployed	1,463	1,425	1,409	1,421	1,466	1,437	1,441	1,527	1,529	1,461	1,439	1,406	1,395			
Unemployment rate	13.7	13.2	13.0	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5			

¹ The population and Armed Forces figures are not adjusted for seasonal variations.

NOTE: Detail for the household data shown in tables A-44 through A-63 and A-60 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

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

(Numbers in thousands)

Full- and part-time employment status, sex, and age	1975				1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
FULL TIME																
Total, 16 years and over:																
Civilian labor force	79,650	80,056	80,580	81,003	81,595	82,007	82,723	83,205	83,761	84,501	85,255	85,941	86,402			
Employed ¹	73,313	74,240	74,805	75,092	75,615	76,341	77,227	77,842	78,644	79,646	80,592	81,213	81,871			
Unemployed	6,338	5,815	5,774	5,911	5,979	5,666	5,496	5,363	5,117	4,854	4,662	4,728	4,531			
Unemployment rate	8.0	7.3	7.2	7.3	7.3	6.9	6.6	6.4	6.1	5.7	5.5	5.5	5.2			
Males, 20 years and over:																
Civilian labor force	51,707	51,237	51,572	52,025	52,218	52,110	52,156	52,193	52,434	52,615	52,691	52,742	53,127			
Employed ¹	45,313	45,751	46,052	46,300	46,411	46,705	47,089	47,337	47,843	48,231	48,609	48,733	49,170			
Unemployed	3,197	2,743	2,760	2,863	2,904	2,702	2,534	2,428	2,296	2,192	2,041	2,005	1,979			
Unemployment rate	6.6	5.7	5.7	5.8	5.9	5.5	5.1	4.9	4.6	4.3	4.0	4.0	3.9			
Females, 20 years and over:																
Civilian labor force	28,479	28,711	28,886	29,094	29,479	29,654	30,030	30,348	30,465	30,811	31,131	31,668	31,816			
Employed ¹	24,210	24,567	24,873	24,928	25,296	25,621	25,991	26,310	26,575	27,232	27,520	27,972	28,462			
Unemployed	2,134	2,072	2,007	2,083	2,092	2,017	2,019	2,019	1,945	1,790	1,805	1,848	1,677			
Unemployment rate	8.1	7.8	7.5	7.7	7.6	7.3	7.2	7.1	6.8	6.2	6.2	6.2	5.6			
Both sexes, 16-19 years:																
Civilian labor force	5,803	5,922	5,896	5,795	5,877	5,909	6,033	6,027	5,979	5,929	6,095	6,258	5,990			
Employed ¹	3,789	3,922	3,881	3,864	3,909	4,015	4,147	4,195	4,226	4,183	4,463	4,509	4,240			
Unemployed	1,007	1,000	1,008	965	984	947	943	916	877	873	816	875	875			
Unemployment rate	21.0	20.3	20.6	20.0	20.1	19.1	18.5	17.9	17.2	17.3	15.5	16.2	17.1			
PART TIME																
Total, 16 years and over:																
Civilian labor force	13,481	13,672	13,875	14,263	14,013	14,257	14,362	14,406	14,770	14,766	14,831	14,807	15,117			
Employed ¹	12,086	12,279	12,497	12,801	12,594	12,753	12,909	13,045	13,398	13,435	13,468	13,501	13,748			
Unemployed	1,395	1,392	1,378	1,462	1,420	1,504	1,453	1,361	1,372	1,332	1,363	1,306	1,369			
Unemployment rate	10.4	10.2	9.9	10.3	10.1	10.5	10.1	9.4	9.3	9.0	9.2	8.8	9.1			
Males, 20 years and over:																
Civilian labor force	2,507	2,530	2,587	2,556	2,598	2,683	2,667	2,717	2,762	2,738	2,719	2,699	2,719			
Employed ¹	2,279	2,304	2,349	2,339	2,380	2,450	2,437	2,517	2,551	2,543	2,535	2,512	2,536			
Unemployed	227	226	238	217	218	233	230	200	210	195	184	188	183			
Unemployment rate	9.1	8.9	9.2	8.5	8.4	8.7	8.6	7.3	7.6	7.1	6.8	7.0	6.7			
Females, 20 years and over:																
Civilian labor force	6,993	7,163	7,162	7,490	7,335	7,457	7,527	7,486	7,748	7,733	7,883	7,831	7,918			
Employed ¹	6,534	6,705	6,709	6,970	6,862	6,929	7,045	7,040	7,272	7,311	7,409	7,391	7,434			
Unemployed	459	458	453	520	473	529	482	447	476	422	474	440	485			
Unemployment rate	6.6	6.4	6.3	6.9	6.5	7.1	6.4	6.0	6.1	5.5	6.0	5.6	6.1			
Both sexes, 16-19 years:																
Civilian labor force	3,981	3,979	4,127	4,216	4,080	4,117	4,168	4,203	4,261	4,295	4,229	4,276	4,480			
Employed ¹	3,273	3,270	3,440	3,491	3,352	3,375	3,427	3,489	3,574	3,580	3,524	3,598	3,779			
Unemployed	709	709	687	725	728	742	742	714	686	714	704	678	701			
Unemployment rate	17.8	17.8	16.6	17.2	17.8	18.0	17.8	17.0	16.1	16.6	16.7	15.9	15.7			

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

[Numbers in thousands]

Characteristics	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
WHITE													
Total, 16 years and over:													
Civilian labor force	82,464	82,946	83,595	84,294	84,582	85,149	85,923	86,222	87,014	87,484	88,232	88,673	89,427
Employed	76,206	77,159	77,862	78,342	78,640	79,417	80,426	81,033	82,037	82,760	83,658	84,056	84,901
Unemployed	6,259	5,787	5,733	5,952	5,942	5,732	5,497	5,189	4,977	4,723	4,574	4,618	4,526
Unemployment rate	7.6	7.0	6.9	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1
Males, 20 years and over:													
Civilian labor force	45,705	45,777	46,073	46,341	46,474	46,603	46,821	46,980	47,332	47,495	47,685	47,700	48,032
Employed	42,924	43,371	43,637	43,802	43,947	44,210	44,595	44,934	45,378	45,619	45,965	45,985	46,356
Unemployed	2,781	2,406	2,436	2,538	2,527	2,392	2,226	2,045	1,955	1,876	1,720	1,715	1,676
Unemployment rate	6.1	5.3	5.3	5.5	5.4	5.1	4.8	4.4	4.1	3.9	3.6	3.6	3.5
Females, 20 years and over:													
Civilian labor force	28,918	29,214	29,470	29,852	30,058	30,358	30,774	30,948	31,311	31,644	32,075	32,403	32,822
Employed	26,820	27,203	27,505	27,789	28,016	28,369	28,638	29,046	29,462	29,986	30,357	30,684	31,174
Unemployed	2,098	2,011	1,965	2,063	2,042	1,988	1,936	1,902	1,849	1,658	1,717	1,720	1,648
Unemployment rate	7.3	6.9	6.7	6.9	6.8	6.5	6.3	6.1	5.9	5.2	5.4	5.3	5.0
Both sexes, 16 to 19 years:													
Civilian labor force	7,842	7,955	8,051	8,102	8,050	8,188	8,328	8,295	8,370	8,345	8,472	8,570	8,573
Employed	6,462	6,586	6,720	6,751	6,677	6,837	6,992	7,053	7,197	7,156	7,335	7,387	7,371
Unemployed	1,379	1,370	1,331	1,351	1,373	1,351	1,336	1,242	1,173	1,189	1,137	1,183	1,202
Unemployment rate	17.6	17.2	16.5	16.7	17.1	16.5	16.0	15.0	14.0	14.2	13.4	13.8	14.0
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	10,663	10,759	10,846	10,918	11,046	11,099	11,186	11,334	11,564	11,783	11,894	12,029	12,146
Employed	9,199	9,334	9,437	9,496	9,580	9,663	9,745	9,807	10,035	10,322	10,455	10,623	10,751
Unemployed	1,463	1,425	1,409	1,421	1,466	1,437	1,441	1,527	1,529	1,461	1,439	1,406	1,395
Unemployment rate	13.7	13.2	13.0	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5
Males, 20 years and over:													
Civilian labor force	5,292	5,241	5,340	5,369	5,434	5,487	5,488	5,476	5,573	5,669	5,700	5,718	5,835
Employed	4,666	4,671	4,788	4,823	4,843	4,940	4,963	4,891	5,021	5,154	5,205	5,236	5,349
Unemployed	626	570	552	546	591	547	525	585	552	514	494	482	485
Unemployment rate	11.8	10.9	10.3	10.2	10.9	10.0	9.6	10.7	9.9	9.1	8.7	8.4	8.3
Females, 20 years and over:													
Civilian labor force	4,438	4,562	4,582	4,629	4,688	4,712	4,781	4,859	4,979	5,085	5,149	5,242	5,256
Employed	3,937	4,046	4,084	4,096	4,153	4,159	4,214	4,308	4,392	4,535	4,589	4,687	4,719
Unemployed	501	515	498	533	535	553	567	551	587	550	560	555	537
Unemployment rate	11.3	11.3	10.9	11.5	11.4	11.7	11.9	11.3	11.8	10.8	10.9	10.6	10.2
Both sexes, 16 to 19 years:													
Civilian labor force	933	956	924	920	924	900	917	999	1,012	1,030	1,045	1,070	1,056
Employed	596	616	565	577	585	563	568	608	621	633	661	700	683
Unemployed	336	340	359	342	339	337	349	391	391	397	385	370	373
Unemployment rate	36.1	35.6	38.9	37.2	36.7	37.4	38.0	39.1	38.6	38.6	36.8	34.6	35.3

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-47. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
CHARACTERISTICS													
Total (all civilian workers)	8.3	7.7	7.6	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8
Males, 20 years and over	6.6	5.9	5.8	5.9	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0
Females, 20 years and over	7.8	7.4	7.2	7.6	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.8
Both sexes, 16-19 years	19.5	19.1	18.9	18.8	19.1	18.5	18.3	17.5	16.6	16.5	16.1	16.1	16.3
White	7.6	7.0	6.9	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1
Black and other	13.7	13.2	13.0	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5
Married men, spouse present	4.9	4.2	4.2	4.3	4.2	4.0	3.6	3.4	3.3	3.0	2.8	2.7	2.5
Married women, spouse present	7.3	7.1	7.0	7.3	7.1	6.8	6.7	6.4	6.2	5.4	5.6	5.6	5.5
Women who head families	10.2	10.1	9.5	10.3	10.0	9.6	9.3	9.7	8.8	8.2	9.4	8.6	7.7
Full-time workers	8.0	7.3	7.2	7.3	7.3	6.9	6.6	6.4	6.1	5.7	5.5	5.5	5.2
Part-time workers	10.4	10.2	9.9	10.3	10.1	10.5	10.1	9.4	9.3	9.0	9.2	8.8	9.1
Unemployed 15 weeks and over ¹	2.9	2.7	2.3	2.4	2.4	2.2	2.0	1.9	1.8	1.6	1.4	1.3	1.2
Labor force time lost ²	8.9	8.3	8.2	8.2	8.3	8.0	7.6	7.4	7.2	6.7	6.5	6.6	6.2
OCCUPATION													
White-collar workers	4.8	4.6	4.6	4.7	4.5	4.6	4.3	4.1	4.1	3.6	3.6	3.6	3.3
Professional and technical	3.3	3.3	3.2	3.1	3.2	3.2	3.1	3.0	2.8	2.6	2.5	2.6	2.7
Managers and administrators, except farm	3.0	2.9	3.0	3.4	3.0	3.0	2.9	2.5	2.7	2.2	2.0	2.1	2.0
Sales workers	6.0	5.5	5.1	5.5	5.3	5.6	5.4	5.2	4.8	4.2	4.4	4.2	3.6
Clerical workers	6.6	6.3	6.5	6.6	6.1	6.4	5.8	5.7	5.6	4.9	5.2	4.9	4.5
Blue-collar workers	10.9	9.4	9.3	9.6	9.4	8.6	8.1	7.9	7.5	7.2	6.7	6.8	6.7
Craft and kindred workers	7.8	6.8	6.9	7.0	6.8	6.2	5.5	5.4	5.2	5.1	4.4	4.4	4.6
Operatives, except transport	12.9	10.8	10.7	10.8	10.8	9.8	9.5	9.6	9.0	8.3	8.2	8.4	7.6
Transport equipment operatives	8.9	8.0	7.0	7.8	7.9	7.4	6.5	6.6	5.7	5.3	5.3	5.5	4.8
Nonfarm laborers	15.4	13.7	13.4	14.2	13.4	12.9	12.3	11.5	11.3	11.4	9.7	10.3	11.2
Service workers	8.8	8.9	8.4	8.6	9.0	8.4	8.5	8.0	7.8	7.5	7.5	7.3	7.4
Farm workers	4.0	4.0	4.5	4.3	5.2	5.1	4.7	4.4	4.2	4.2	3.3	3.8	3.8
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.8	8.0	7.7	8.0	7.9	7.5	7.1	6.8	6.6	6.2	5.9	5.9	5.7
Construction	17.4	15.6	15.6	16.4	14.8	14.5	12.8	11.3	11.3	11.2	9.6	9.9	11.4
Manufacturing	9.8	8.0	7.7	7.8	7.8	7.1	6.6	6.7	6.2	5.7	5.5	5.5	5.1
Durable goods	10.1	8.1	7.7	7.3	7.5	6.8	6.0	6.2	5.7	5.2	4.9	5.1	4.5
Nondurable goods	9.3	7.9	7.8	8.5	8.3	7.7	7.5	7.6	6.8	6.5	6.5	6.1	5.9
Transportation and public utilities	5.0	4.8	4.9	5.0	5.2	4.9	4.5	4.7	4.6	3.8	3.9	3.8	3.3
Wholesale and retail trade	9.1	8.6	8.4	8.8	8.6	8.5	8.1	7.9	7.5	7.2	6.8	6.7	6.7
Finance and service industries	6.9	6.6	6.3	6.5	6.6	6.3	6.2	5.7	5.7	5.2	5.0	5.2	4.9
Government workers	4.1	4.4	4.6	4.3	4.3	4.3	4.1	4.1	4.2	3.8	4.0	3.9	3.9
Agricultural wage and salary workers	10.9	10.8	11.9	11.5	12.7	12.6	11.8	10.2	9.7	9.5	8.1	9.0	8.4

¹ Unemployment as a percent of civilian labor force.

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

³ as a percent of potentially available labor force hours.

³ Includes mining, not shown separately.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

[Numbers in thousands]

Weeks of unemployment	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,766	2,660	2,811	2,856	2,837	2,867	2,951	2,796	2,773	2,727	2,794	2,848	2,809
5 to 14 weeks	2,264	2,009	2,088	2,246	2,292	2,171	2,058	2,101	1,991	1,897	1,869	1,876	1,847
15 weeks and over	2,735	2,541	2,198	2,299	2,294	2,126	1,896	1,831	1,730	1,563	1,385	1,272	1,240
15 to 26 weeks	1,191	1,025	887	1,060	1,032	942	844	901	862	840	735	652	714
27 weeks and over	1,544	1,517	1,311	1,239	1,262	1,185	1,052	929	869	723	650	620	526
Average (mean duration, in weeks)	16.2	16.5	15.9	15.5	15.2	14.8	14.6	13.9	13.6	12.7	12.2	11.6	11.2
Median duration, in weeks	9.0	8.7	7.9	7.8	8.0	7.4	6.9	7.1	6.9	6.6	5.7	6.0	5.6
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	35.0	36.9	39.6	38.6	38.2	40.2	42.7	41.6	42.7	44.1	46.2	47.5	47.6
5 to 14 weeks	29.1	27.9	29.4	30.3	30.9	30.2	29.8	31.2	30.7	30.7	30.9	31.3	31.3
15 weeks and over	35.9	35.2	31.0	31.1	30.9	29.6	27.5	27.2	26.6	25.3	22.9	21.2	21.0
15 to 26 weeks	16.0	14.2	12.5	14.3	13.9	13.1	12.2	13.4	13.3	13.6	12.2	10.9	12.1
27 weeks and over	19.8	21.0	18.5	16.7	17.0	16.5	15.2	13.8	13.4	11.7	10.7	10.3	8.9

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

Sex and age	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	8.3	7.7	7.6	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8
16 to 19 years	19.5	19.1	18.9	18.8	19.1	18.5	18.3	17.5	16.6	16.9	16.1	16.1	16.3
16 to 17 years	21.1	20.7	21.5	21.0	21.4	20.8	20.5	19.8	18.7	19.8	18.6	19.3	19.5
18 to 19 years	18.3	18.1	17.1	17.3	17.4	16.9	16.7	16.0	15.1	14.8	14.1	13.8	13.9
20 to 24 years	13.4	12.1	11.8	11.7	12.3	11.5	11.0	10.8	10.3	10.2	9.5	9.4	9.0
25 years and over	5.9	5.4	5.3	5.6	5.5	5.2	5.0	4.8	4.6	4.1	4.1	4.1	3.9
25 to 54 years	6.2	5.6	5.5	5.8	5.7	5.5	5.2	5.0	4.8	4.3	4.3	4.3	4.1
55 years and over	4.9	4.7	4.6	4.8	4.3	4.4	4.1	3.9	4.0	3.3	3.2	3.2	2.9
Males, 16 years and over	7.7	7.1	7.0	7.0	7.1	6.8	6.4	6.0	5.7	5.6	5.1	5.1	5.1
16 to 19 years	19.3	19.3	19.5	18.7	19.3	18.2	17.7	17.2	15.9	16.4	15.1	15.2	16.2
16 to 17 years	20.5	21.1	22.1	20.9	21.8	20.3	20.1	19.9	17.8	19.7	18.2	18.5	20.2
18 to 19 years	18.3	18.2	17.6	17.0	17.4	16.7	16.0	15.2	14.5	13.9	12.8	12.7	13.1
20 to 24 years	14.0	12.2	11.8	11.8	12.4	11.4	10.8	10.8	9.8	10.2	8.6	8.8	8.7
25 years and over	5.4	4.7	4.7	5.0	4.9	4.6	4.3	4.0	3.9	3.5	3.3	3.3	3.2
25 to 54 years	5.6	4.8	4.8	5.1	5.1	4.7	4.4	4.1	3.9	3.6	3.4	3.4	3.3
55 years and over	4.7	4.5	4.6	4.5	4.1	4.3	3.7	3.7	3.7	3.2	3.3	3.1	2.6
Females, 16 years and over	9.1	8.7	8.4	8.8	8.6	8.5	8.3	8.1	7.9	7.2	7.3	7.3	6.9
16 to 19 years	19.8	18.8	18.3	18.9	18.7	18.9	19.0	17.9	17.4	17.4	17.2	17.1	16.4
16 to 17 years	21.9	20.2	20.9	21.2	20.9	21.5	21.0	19.6	19.7	19.8	19.1	20.3	18.7
18 to 19 years	18.3	17.8	16.5	17.5	17.3	17.2	17.4	16.9	15.8	15.9	15.6	15.0	14.8
20 to 24 years	12.7	12.1	11.8	11.6	12.1	11.7	11.2	10.9	10.9	10.3	10.6	10.1	9.3
25 years and over	6.7	6.4	6.2	6.7	6.4	6.2	6.1	6.0	5.8	5.0	5.1	5.2	4.9
25 to 54 years	7.1	6.8	6.6	7.0	6.8	6.6	6.5	6.3	6.1	5.4	5.6	5.6	5.3
55 years and over	5.2	4.9	4.7	5.3	4.7	4.6	4.6	4.4	4.4	3.5	3.1	3.3	3.4

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

(Numbers in thousands)

Reason for unemployment	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,123	3,603	3,623	3,636	3,607	3,341	3,085	3,048	2,846	2,621	2,516	2,452	2,423
On layoff	1,419	1,006	1,063	1,084	1,012	917	840	855	763	717	658	693	702
Other job losers	2,704	2,597	2,560	2,552	2,595	2,424	2,245	2,192	2,083	1,903	1,858	1,759	1,722
Job leavers	852	827	871	954	880	908	912	864	877	872	853	848	836
Reentrants	1,879	1,877	1,816	1,931	1,953	1,976	1,976	1,869	1,884	1,831	1,776	1,848	1,804
New entrants	858	862	860	872	935	953	981	948	871	902	871	854	841
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	53.7	50.3	50.5	49.2	48.9	46.5	44.4	45.3	43.9	42.1	41.8	40.9	41.0
On layoff	18.3	14.0	14.8	14.7	13.7	12.8	12.1	12.7	11.8	11.5	10.9	11.5	11.9
Other job losers	35.4	36.2	35.7	34.5	35.2	33.8	32.3	32.6	32.2	30.6	30.9	29.3	29.2
Job leavers	11.0	11.5	12.2	12.9	11.9	12.7	13.1	12.8	13.5	14.0	14.2	14.1	14.2
Reentrants	24.3	26.2	25.3	26.1	26.5	27.5	28.4	27.8	29.1	29.4	29.5	30.8	30.6
New entrants	11.0	12.0	12.0	11.8	12.7	13.3	14.1	14.1	13.4	14.5	14.5	14.2	14.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.4	3.8	3.8	3.8	3.8	3.5	3.2	3.1	2.9	2.6	2.5	2.4	2.4
Job leavers .....	.9	.9	.9	1.0	.9	.9	.9	.9	.9	.9	.9	.8	.8
Reentrants	2.0	2.0	1.9	2.0	2.0	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8
New entrants .....	.9	.9	.9	.9	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.8

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

(In thousands)

Sex and age	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	85,379	86,506	87,299	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616
16 to 19 years	7,055	7,209	7,288	7,329	7,252	7,393	7,559	7,682	7,814	7,782	7,995	8,100	8,044
16 to 17 years	2,900	2,934	2,905	2,968	2,894	2,980	3,038	3,110	3,207	3,173	3,290	3,317	3,295
18 to 19 years	4,158	4,273	4,373	4,360	4,367	4,428	4,513	4,551	4,614	4,622	4,699	4,766	4,762
20 to 24 years	11,716	12,025	12,271	12,360	12,426	12,652	12,746	12,934	13,079	13,204	13,450	13,592	13,745
25 years and over	66,627	67,270	67,737	68,150	68,533	69,030	69,842	70,257	71,177	72,098	72,644	73,005	73,859
25 to 54 years	53,212	53,803	54,314	54,645	54,941	55,474	56,113	56,590	57,226	58,098	58,473	58,910	59,580
55 years and over	13,415	13,476	13,397	13,527	13,588	13,563	13,711	13,691	13,944	13,998	14,151	14,129	14,268
Males, 16 years and over	51,394	51,943	52,305	52,569	52,692	53,136	53,659	53,978	54,666	54,992	55,441	55,568	55,974
16 to 19 years	3,809	3,882	3,900	3,936	3,906	3,980	4,121	4,135	4,269	4,215	4,290	4,330	4,270
16 to 17 years	1,586	1,599	1,578	1,630	1,592	1,623	1,688	1,711	1,794	1,756	1,782	1,784	1,743
18 to 19 years	2,218	2,275	2,312	2,313	2,314	2,366	2,422	2,417	2,475	2,472	2,498	2,544	2,537
20 to 24 years	6,388	6,597	6,732	6,773	6,853	6,962	6,949	7,059	7,149	7,166	7,342	7,353	7,451
25 years and over	41,211	41,451	41,672	41,856	41,944	42,191	42,583	42,779	43,255	43,606	43,802	43,884	44,259
25 to 54 years	32,849	33,097	33,309	33,423	33,518	33,749	34,047	34,252	34,601	34,948	35,062	35,169	35,434
55 years and over	8,373	8,354	8,351	8,436	8,439	8,446	8,525	8,529	8,663	8,660	8,726	8,717	8,833
Females, 16 years and over	33,985	34,563	34,994	35,291	35,499	35,934	36,498	36,920	37,380	38,092	38,658	39,158	39,642
16 to 19 years	3,246	3,327	3,387	3,393	3,346	3,413	3,438	3,547	3,546	3,566	3,706	3,770	3,774
16 to 17 years	1,314	1,335	1,327	1,338	1,302	1,357	1,351	1,398	1,413	1,417	1,507	1,533	1,552
18 to 19 years	1,940	1,998	2,060	2,046	2,053	2,062	2,092	2,133	2,139	2,150	2,201	2,223	2,225
20 to 24 years	5,328	5,428	5,539	5,587	5,573	5,690	5,797	5,875	5,930	6,038	6,108	6,238	6,294
25 years and over	25,415	25,819	26,065	26,294	26,590	26,839	27,259	27,478	27,922	28,492	28,843	29,121	29,600
25 to 54 years	20,364	20,707	21,006	21,222	21,423	21,725	22,066	22,338	22,624	23,150	23,411	23,741	24,146
55 years and over	5,042	5,122	5,046	5,091	5,149	5,117	5,186	5,162	5,281	5,338	5,425	5,412	5,435

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

(In thousands)

Selected categories	1975				1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
CHARACTERISTICS																
Total, 16 years and over	85,379	86,506	87,299	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616			
Married men, spouse present	37,913	38,013	38,105	38,144	38,009	38,241	38,444	38,361	38,539	38,596	38,597	38,650	38,930			
Married women, spouse present	19,862	20,032	20,205	20,419	20,488	20,731	20,908	20,969	21,286	21,648	21,719	21,902	22,255			
OCCUPATION																
White-collar workers	42,398	43,074	43,553	43,824	44,293	44,500	44,770	45,318	46,146	46,609	46,968	47,384	47,880			
Professional and technical Managers and administrators, except farm	12,894	13,167	13,217	13,433	13,482	13,480	13,561	13,769	13,950	14,063	14,287	14,226	14,411			
Sales workers	8,975	9,132	9,313	9,340	9,465	9,516	9,520	9,697	9,906	10,100	10,101	10,151	10,072			
Clerical workers	5,387	5,345	5,479	5,505	5,648	5,696	5,699	5,734	5,781	5,891	5,894	5,927	6,090			
Blue-collar workers	15,142	15,430	15,543	15,547	15,698	15,809	15,990	16,117	16,509	16,555	16,687	17,079	17,308			
Craft and kindred workers	28,306	28,716	28,951	28,978	29,172	29,801	30,154	30,273	30,609	31,027	31,494	31,560	32,050			
Operatives, except transport Transport equipment operatives	11,137	11,208	11,213	11,307	11,370	11,665	11,867	11,918	12,069	12,158	12,313	12,468	12,604			
Nonfarm laborers	9,845	10,030	10,139	10,062	10,114	10,327	10,336	10,337	10,429	10,693	10,866	10,866	11,081			
Service workers	3,220	3,210	3,286	3,283	3,304	3,428	3,485	3,481	3,511	3,536	3,516	3,496	3,620			
Farm workers	4,104	4,267	4,314	4,327	4,384	4,380	4,466	4,538	4,600	4,639	4,800	4,729	4,745			
	11,843	11,881	11,985	12,144	11,993	12,095	12,423	12,474	12,571	12,690	12,880	12,808	12,989			
	2,868	2,833	2,844	2,832	2,780	2,698	2,822	2,710	2,788	2,814	2,769	2,815	2,795			
MAJOR INDUSTRY AND CLASS OF WORKER																
Agriculture:																
Wage and salary workers	1,276	1,323	1,311	1,317	1,325	1,288	1,324	1,316	1,393	1,386	1,428	1,417	1,442			
Self-employed workers	1,676	1,635	1,658	1,651	1,597	1,535	1,598	1,561	1,582	1,585	1,599	1,633	1,609			
Unpaid family workers	359	326	349	343	345	347	372	316	342	347	291	322	311			
Nonagricultural industries:																
Wage and salary workers	75,855	77,014	77,894	78,397	78,755	79,545	80,401	81,036	82,204	83,036	84,031	84,453	85,507			
Government	14,617	14,869	14,882	15,098	14,946	14,979	15,040	15,208	15,381	15,247	15,272	15,265	15,373			
Private industries	61,238	62,145	63,012	63,298	63,810	64,566	65,361	65,828	66,823	67,789	68,759	69,188	70,133			
Private households	1,318	1,287	1,357	1,387	1,391	1,357	1,353	1,394	1,395	1,372	1,392	1,367	1,322			
Other industries	59,920	60,858	61,655	61,912	62,419	63,209	64,008	64,433	65,428	66,417	67,367	67,821	68,811			
Self-employed workers	5,743	5,665	5,658	5,675	5,753	5,860	5,982	6,051	6,128	6,296	6,311	6,220	6,400			
Unpaid family workers	515	477	451	444	467	483	509	504	469	475	487	468	456			
PERSONS AT WORK¹																
Nonagricultural industries	77,123	78,318	78,593	79,266	79,901	80,717	81,418	82,579	83,243	84,034	85,736	86,260	86,737			
Full-time schedules	63,267	64,295	64,483	64,936	65,446	66,144	66,889	67,741	68,257	69,189	70,431	71,073	71,500			
Part-time for economic reasons	3,274	3,250	3,210	3,244	3,411	3,350	3,273	3,328	3,230	3,144	3,330	3,272	3,118			
Usually work full time	1,389	1,321	1,345	1,325	1,271	1,261	1,259	1,273	1,235	1,169	1,284	1,327	1,218			
Usually work part time	1,885	1,929	1,865	1,919	2,139	2,090	2,014	2,055	1,996	1,975	2,046	1,946	1,899			
Part-time for noneconomic reasons	10,583	10,772	10,900	11,087	11,044	11,222	11,256	11,510	11,755	11,701	11,975	11,915	12,119			

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Characteristic	1975	1976				1977				1978			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
TOTAL													
Both sexes, 16 years and over:													
Total not in labor force	59,238	59,236	59,123	59,019	59,260	59,198	58,988	59,157	58,861	58,741	58,478	58,482	58,398
Do not want job now	53,981	53,822	53,948	54,561	53,775	53,758	53,210	53,244	53,108	53,747	53,252	52,745	53,110
Current activity:													
Going to school	6,384	6,416	6,256	6,736	6,324	6,174	6,153	6,202	6,191	6,255	6,227	6,010	5,964
Ill, disabled	4,741	4,696	4,712	4,835	4,604	4,718	4,525	4,539	4,397	4,508	4,598	4,399	4,633
Keeping house	31,409	31,012	30,984	30,684	30,307	30,651	30,146	30,064	30,049	29,774	29,723	29,351	29,242
Retired	8,258	8,317	8,469	8,788	8,789	8,743	9,023	9,043	9,041	9,449	9,172	9,392	9,475
Other	3,189	3,380	3,527	3,519	3,752	3,511	3,363	3,395	3,430	3,761	3,533	3,594	3,796
Want a job now	5,275	5,304	5,430	4,329	5,450	5,530	5,741	5,884	5,561	5,428	5,260	5,486	5,239
Reason not looking:													
School attendance	1,504	1,402	1,560	1,148	1,506	1,513	1,499	1,641	1,523	1,404	1,296	1,518	1,359
Ill health, disability	741	713	738	495	639	688	783	804	751	697	755	706	736
Home responsibilities	1,127	1,189	1,213	1,038	1,288	1,220	1,280	1,287	1,217	1,214	1,237	1,242	1,210
Think cannot get job	973	964	922	782	995	956	1,071	1,028	970	914	851	853	760
Job-market factors	772	669	632	554	729	669	746	719	630	635	541	620	485
Personal factors	201	295	290	228	266	287	325	309	340	279	310	232	275
Other reasons ¹	931	1,036	997	867	1,021	1,154	1,108	1,124	1,100	1,199	1,121	1,167	1,173
Males													
Total not in labor force	16,236	16,359	16,298	16,336	16,438	16,499	16,503	16,680	16,461	16,491	16,591	16,787	16,706
Do not want job now	14,568	14,613	14,706	15,193	14,763	14,826	14,666	14,782	14,677	14,902	14,905	15,026	14,990
Want a job now	1,708	1,680	1,667	1,300	1,666	1,675	1,770	1,826	1,701	1,749	1,637	1,733	1,665
Reason not looking:													
School attendance	737	698	790	589	720	757	777	794	751	703	638	763	702
Ill health, disability	345	321	316	203	274	303	332	327	326	323	336	318	335
Think cannot get job	340	377	313	264	343	291	313	350	309	344	305	291	275
Other reasons ¹	286	285	248	244	329	324	348	354	315	378	359	361	354
Females													
Total not in labor force	43,002	42,877	42,825	42,683	42,823	42,699	42,485	42,476	42,400	42,250	41,887	41,695	41,692
Do not want job now	39,413	39,209	39,242	39,368	39,012	38,972	38,544	38,461	38,431	38,844	38,347	37,719	38,120
Want a job now	3,567	3,624	3,763	3,029	3,784	3,855	3,971	4,059	3,860	3,679	3,623	3,753	3,574
Reason not looking:													
School attendance	766	704	770	559	785	756	722	847	771	701	658	755	658
Ill health, disability	396	393	421	292	365	384	451	477	425	374	420	388	402
Home responsibilities	1,127	1,189	1,213	1,038	1,288	1,220	1,280	1,287	1,217	1,214	1,237	1,242	1,210
Think cannot get job	634	587	609	518	652	665	758	677	661	570	546	561	485
Other reasons	644	751	750	623	693	830	760	770	785	820	762	806	819
White													
Total not in labor force	51,838	51,877	51,708	51,529	51,744	51,663	51,410	51,648	51,350	51,355	51,091	51,149	50,909
Do not want job now	47,949	47,632	47,718	48,112	47,512	47,363	47,156	47,280	46,918	47,382	47,275	46,870	46,840
Want a job now	3,961	4,081	4,090	3,421	4,147	4,283	4,334	4,316	4,267	4,168	3,980	4,339	3,887
Reason not looking:													
School attendance	1,146	1,065	1,147	941	1,097	1,176	1,078	1,136	1,125	1,033	943	1,272	1,007
Ill health, disability	516	508	508	364	437	520	643	576	537	499	550	526	507
Home responsibilities	830	940	923	816	1,023	1,000	976	950	971	980	961	956	894
Think cannot get job	687	716	696	587	742	683	743	720	712	647	584	591	531
Other reasons	782	852	816	713	847	905	894	933	923	1,010	943	994	947
Black and other													
Total not in labor force	7,354	7,389	7,427	7,483	7,471	7,535	7,575	7,560	7,471	7,381	7,368	7,384	7,439
Do not want job now	6,102	6,113	6,103	6,512	6,184	6,250	6,122	6,046	6,215	6,102	6,108	6,098	6,123
Want a job now	1,286	1,267	1,297	934	1,274	1,297	1,371	1,577	1,255	1,309	1,267	1,244	1,321
Reason not looking:													
School attendance	354	345	406	221	403	347	407	495	394	383	341	327	348
Ill health, disability	203	220	236	129	192	181	159	223	195	210	221	173	210
Home responsibilities	313	303	288	244	280	268	283	341	239	270	257	289	309
Think cannot get job	294	237	211	211	258	280	302	319	253	273	253	277	232
Other reasons	122	161	156	128	141	221	219	199	174	174	195	178	222

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

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

(In thousands)

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	
TOTAL											
Total not in labor force	58,808	58,307	7,502	7,216	4,739	4,536	22,237	21,705	24,331	24,850	
Do not want a job now	53,493	53,297	6,204	5,999	3,946	3,795	19,643	19,250	23,705	24,253	
Current activity:											
Going to school	7,929	7,631	5,435	5,171	1,812	1,774	660	679	24	9	
Ill, disabled	4,309	4,533	28	56	112	122	1,994	2,201	2,177	2,152	
Keeping house	29,817	29,006	498	508	1,758	1,600	15,267	14,478	12,295	12,420	
Retired	8,923	9,337	--	1	--	--	234	229	8,689	9,107	
Other	2,515	2,790	243	263	264	299	1,488	1,663	520	565	
Want a job now	5,314	5,009	1,297	1,218	793	741	2,594	2,455	626	596	
Reason not looking:											
School attendance	1,432	1,282	988	941	249	202	192	130	2	8	
Ill health, disability	750	738	11	27	37	38	497	473	204	200	
Home responsibilities	1,155	1,149	91	75	227	219	805	816	31	40	
Think cannot get job	934	730	97	81	107	97	519	401	211	150	
Job-market factors	605	469	59	53	76	81	383	304	86	32	
Personal factors	329	261	38	27	31	16	125	99	124	117	
Other reasons ¹	1,043	1,110	110	94	173	185	581	635	178	198	
Males											
Total not in labor force	16,738	16,959	3,384	3,352	1,475	1,397	2,952	3,069	8,926	9,142	
Do not want a job now	15,170	15,410	2,798	2,740	1,235	1,197	2,505	2,595	8,635	8,873	
Current activity:											
Going to school	4,021	3,867	2,630	2,576	1,062	979	324	308	6	1	
Ill, disabled	2,341	2,438	22	24	50	57	1,128	1,224	1,140	1,132	
Keeping house	218	276	11	13	5	11	40	41	164	209	
Retired	7,127	7,273	--	--	--	--	217	206	6,910	7,067	
Other	1,463	1,556	135	127	118	150	796	816	415	464	
Want a job now	1,567	1,548	586	611	240	199	449	473	291	267	
Reason not looking:											
School attendance	707	661	504	523	136	86	66	50	--	4	
Ill health, disability	304	325	--	8	12	17	203	203	90	97	
Think cannot get job	279	249	37	50	41	32	99	97	102	70	
Other reasons ¹	277	313	45	30	51	64	81	123	99	96	
Females											
Total not in labor force	42,071	41,348	4,118	3,864	3,263	3,139	19,285	18,636	15,404	15,708	
Do not want a job now	38,325	37,887	3,407	3,260	2,712	2,597	17,136	16,654	15,072	15,379	
Current activity:											
Going to school	3,908	3,764	2,806	2,595	750	794	335	370	18	7	
Ill, disabled	1,970	2,095	6	33	62	65	864	978	1,038	1,019	
Keeping house	29,599	28,730	487	494	1,754	1,589	15,229	14,436	12,132	12,211	
Retired	1,796	2,064	--	1	--	--	17	23	1,779	2,040	
Other	1,052	1,234	108	137	146	149	691	847	105	102	
Want a job now	3,746	3,461	710	606	552	543	2,147	1,982	334	331	
Reason not looking:											
School attendance	725	621	483	419	113	117	126	81	2	4	
Ill health, disability	445	413	11	18	25	21	295	270	113	104	
Home responsibilities	1,155	1,149	91	75	227	219	805	816	31	40	
Think cannot get job	655	480	60	30	66	65	420	304	109	81	
Other reasons ¹	766	798	65	64	121	121	501	511	79	102	

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

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

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

[In thousands]

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over		IV 1977	IV 1978	IV 1977	IV 1978
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
WHITE												
Total not in labor force	51,282	50,819	9,815	9,375	19,435	18,915	22,031	22,529	14,237	14,486	37,045	36,333
Do not want a job now	47,191	47,088	8,285	7,996	17,489	17,067	21,482	22,030	13,029	13,326	34,162	33,762
Current activity:												
Going to school	6,437	6,168	5,895	5,599	550	562	24	6	3,279	3,138	3,158	3,030
Ill, disabled	3,476	3,651	100	117	1,614	1,756	1,794	1,782	1,908	2,010	1,568	1,641
Keeping house	27,108	26,462	926	1,849	13,875	13,153	11,309	11,461	187	229	26,921	26,233
Retired	8,098	8,483	--	--	212	224	7,887	8,258	6,461	6,656	1,537	1,827
Other	2,072	2,324	364	431	1,238	1,372	468	523	1,194	1,293	878	1,031
Want a job now	4,092	3,731	1,533	1,384	1,977	1,849	549	499	1,209	1,160	2,883	2,571
Reason not looking:												
School attendance	1,027	915	915	809	79	99	2	8	528	489	499	426
Ill health, disability	564	538	30	45	368	342	164	150	239	228	325	310
Home responsibilities ¹	935	863	222	205	682	624	31	34	--	--	935	863
Think cannot get job	686	512	145	110	359	271	184	131	214	177	472	335
Other reasons	880	903	221	215	489	513	168	176	228	266	652	637
BLACK AND OTHER												
Total not in labor force	7,527	7,487	2,424	2,377	2,802	2,790	2,300	2,321	2,502	2,472	5,025	5,015
Do not want a job now	6,303	6,207	1,865	1,802	2,217	2,180	2,220	2,225	2,142	2,083	4,161	4,124
Current activity:												
Going to school	1,493	1,463	1,354	1,347	142	115	--	2	742	729	750	734
Ill, disabled	833	881	38	64	411	447	381	371	432	428	401	453
Keeping house	2,710	2,543	332	260	1,392	1,324	985	959	32	46	2,678	2,497
Retired	825	854	--	--	22	5	803	850	666	617	159	237
Other	443	466	141	131	250	289	51	43	270	263	173	203
Want a job now	1,224	1,279	556	574	586	606	77	96	360	389	864	890
Reason not looking:												
School attendance	405	367	321	334	83	32	--	--	179	172	226	195
Ill health, disability	187	200	18	20	129	129	41	50	66	97	121	103
Home responsibilities ¹	220	286	95	88	124	192	--	6	--	--	220	286
Think cannot get job	249	217	61	68	160	131	26	18	66	72	183	145
Other reasons	163	209	61	64	90	122	10	22	49	48	114	161

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

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

[In thousands]

4th Quarter 1978

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old	140	7	--	23	109	132	7
Lacks education or training	60	13	4	38	4	52	9
Other personal handicap	61	7	12	38	4	41	20
Job-market factors:							
Could not find job	285	44	57	175	9	157	128
Thinks no job available	184	9	24	129	23	129	54
Males							
Personal factors:							
Employers think too young or old	67	5	--	7	55	60	7
Lacks education or training	18	13	2	1	2	14	5
Other personal handicap	27	4	7	15	--	22	5
Job-market factors:							
Could not find job	76	23	15	38	--	45	31
Thinks no job available	60	6	7	36	11	36	24
Females							
Personal factors:							
Employers think too young or old	72	3	--	16	54	72	--
Lacks education or training	42	--	2	37	2	38	4
Other personal handicap	34	3	4	23	4	19	15
Job-market factors:							
Could not find job	209	21	42	137	9	112	97
Thinks no job available	123	3	17	92	12	93	30

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A-57. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex

[Numbers in thousands]

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total, not in labor force	58,808	58,307	12,240	11,752	22,237	21,705	24,331	24,850	51,281	50,819	7,526	7,487
Never worked	9,124	8,793	4,708	4,407	2,140	1,985	2,275	2,400	7,319	6,946	7,805	1,847
Last worked over 5 years ago	28,041	28,417	308	248	11,069	10,966	16,663	17,204	25,054	25,448	2,986	2,970
Last worked 1 to 5 years ago	11,125	10,679	1,799	1,602	5,360	5,157	3,967	3,920	9,765	9,400	1,361	1,278
Left job during previous 12 months	10,517	10,417	5,424	5,494	3,668	3,596	1,425	1,326	9,144	9,025	1,373	1,392
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	48.5	49.4	66.8	66.2	38.2	40.0	5.1	5.9	50.3	50.7	36.5	41.2
Ill health, disability	8.4	6.9	1.4	1.9	14.8	11.9	18.4	14.0	7.4	6.5	14.6	9.3
Retirement, old age	7.8	7.6	--	--	4.0	4.1	47.0	48.2	8.0	8.1	5.9	4.2
Economic reasons	19.4	19.7	16.9	17.2	23.1	22.4	19.7	22.3	18.8	18.3	23.5	28.0
End of seasonal job	8.5	9.5	9.2	10.2	7.5	8.5	8.3	9.6	8.1	8.6	11.0	15.9
Slack work	5.3	4.4	3.2	3.2	8.3	5.9	5.2	4.7	5.1	4.2	6.5	5.0
End of temporary job	5.6	5.8	4.4	3.8	7.3	7.9	6.2	8.1	5.6	5.5	6.1	7.2
All other reasons	16.0	16.4	14.9	14.7	19.9	21.6	9.9	9.6	15.5	16.3	19.5	17.3
Males, not in labor force	16,738	16,959	4,858	4,749	2,951	3,069	8,926	9,142	14,236	14,486	2,501	2,472
Never worked	2,011	1,955	1,781	1,709	178	219	52	27	1,414	1,382	597	573
Last worked over 5 years ago	6,836	7,216	38	36	1,008	1,060	5,791	6,120	5,965	6,279	870	937
Last worked 1 to 5 years ago	3,607	3,686	417	376	953	1,045	2,236	2,266	3,122	3,238	486	448
Left job during previous 12 months	4,283	4,101	2,624	2,627	812	745	847	728	3,736	3,587	547	514
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	44.9	46.5	66.5	66.1	20.1	20.9	1.8	2.5	45.9	47.3	37.8	41.6
Ill health, disability	9.2	8.8	1.1	1.9	29.0	25.8	15.0	16.1	8.6	8.8	12.6	8.6
Retirement, old age	13.5	11.4	--	--	13.1	11.8	55.7	52.3	13.9	12.7	10.8	2.9
Economic reasons	17.7	19.7	17.7	19.7	16.5	17.8	19.1	21.6	16.9	18.2	23.2	30.0
End of seasonal job	9.5	11.0	10.7	12.2	6.3	7.7	8.7	9.8	9.1	9.6	12.2	20.2
Slack work	4.0	4.1	2.9	3.3	6.8	6.2	5.1	5.0	3.8	4.2	5.7	3.5
End of temporary job	4.2	4.6	4.1	4.2	3.3	3.9	5.3	6.9	4.0	4.4	5.5	6.2
All other reasons	14.8	13.5	14.8	12.3	21.3	23.7	8.4	7.6	14.6	13.0	15.5	16.9
Females, not in labor force	42,071	41,348	7,381	7,003	19,285	18,636	15,404	15,708	37,045	36,333	5,025	5,015
Never worked	7,112	6,838	2,927	2,699	1,962	1,766	2,223	2,373	5,905	5,564	1,208	1,274
Last worked over 5 years ago	21,206	21,201	272	212	10,062	9,905	10,873	11,083	19,089	19,169	2,116	2,033
Last worked 1 to 5 years ago	7,518	6,993	1,381	1,226	4,407	4,113	1,731	1,653	6,643	6,162	875	830
Left job during previous 12 months	6,234	6,316	2,801	2,866	2,856	2,851	578	599	5,408	5,438	826	878
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	50.9	51.3	67.0	66.2	43.3	45.1	9.8	9.8	53.3	53.0	35.6	40.9
Ill health, disability	7.8	5.7	1.7	1.9	10.7	8.2	23.3	11.5	6.6	5.0	15.9	9.7
Retirement, old age	3.8	5.0	--	--	1.4	2.0	34.2	43.2	4.0	5.0	2.7	5.0
Economic reasons	20.6	19.6	16.1	14.9	25.0	23.5	20.6	23.4	20.1	18.4	23.7	26.9
End of seasonal job	7.8	8.6	7.8	8.3	7.8	8.8	7.6	9.3	7.4	7.8	10.2	13.3
Slack work	6.1	4.5	3.5	3.2	8.8	5.8	5.4	4.5	6.0	4.3	7.0	5.8
End of temporary job	6.7	6.5	4.8	3.5	8.3	8.9	7.4	9.5	6.7	6.3	6.5	7.8
All other reasons	16.8	18.3	15.1	16.9	19.5	21.1	12.1	12.0	16.0	18.5	22.2	17.4

A-58. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex

[In thousands]

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total	48,197	48,373	5,989	5,909	18,476	18,250	23,731	24,215	42,636	42,799	5,561	5,573
Do not intend to seek work	10,612	9,933	6,252	5,843	3,760	3,455	601	635	8,645	8,020	1,964	1,914
Intend to seek work in the next 12 months	1,851	1,533	1,683	1,424	161	102	7	7	1,336	1,101	514	432
Never worked	1,186	1,108	64	47	989	922	132	139	968	889	217	218
Last worked over 5 years ago	2,177	1,934	797	621	1,183	1,059	199	255	1,699	1,487	478	447
Last worked 1 to 5 years ago	5,398	5,358	3,708	3,752	1,427	1,371	263	234	4,642	4,542	755	816
Worked during previous 12 months												
Males	12,807	13,280	1,958	2,024	2,236	2,442	8,612	8,813	10,982	11,439	1,825	1,840
Do not intend to seek work	3,930	3,679	2,901	2,724	715	626	314	328	3,254	3,047	675	632
Intend to seek work in the next 12 months	734	659	715	637	17	23	2	--	530	473	203	186
Never worked	136	121	13	8	68	76	55	37	103	86	33	35
Last worked over 5 years ago	571	505	233	176	234	177	105	152	448	410	123	95
Last worked 1 to 5 years ago	2,489	2,393	1,940	1,905	397	350	152	139	2,173	2,077	316	316
Worked during previous 12 months												
Females	35,389	35,093	4,030	3,885	16,240	15,806	15,118	15,402	31,654	31,360	3,736	3,733
Do not intend to seek work	6,681	6,254	3,351	3,119	3,045	2,828	286	306	5,391	4,973	1,289	1,282
Intend to seek work in the next 12 months	1,117	874	969	788	144	80	4	7	806	628	311	246
Never worked	1,050	986	51	38	921	847	77	102	865	803	184	183
Last worked over 5 years ago	1,606	1,429	563	445	950	882	94	103	1,251	1,077	355	352
Last worked 1 to 5 years ago	2,908	2,965	1,768	1,848	1,030	1,021	111	96	2,469	2,465	439	500
Worked during previous 12 months												

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

[Numbers in thousands]

Employment status	Total		White		Black ¹		Hispanic origin ²	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
TOTAL								
Civilian noninstitutional population	157,399	159,922	138,364	140,336	16,467	16,796	7,255	7,512
Civilian labor force	98,591	101,615	87,082	89,517	9,910	10,308	4,483	4,827
Percent of population	62.6	63.5	62.9	63.8	60.2	61.4	61.8	64.3
Employment	92,442	96,010	82,378	85,230	8,574	9,113	4,086	4,455
Agriculture	3,167	3,215	2,912	2,900	220	262	199	183
Nonagricultural industries	89,275	92,796	79,465	82,330	8,354	8,852	3,887	4,272
Unemployment	6,149	5,605	4,705	4,287	1,336	1,194	397	392
Unemployment rate	6.2	5.5	5.4	4.8	13.5	11.6	8.9	8.1
Not in labor force	58,808	58,307	51,282	50,819	6,557	6,489	2,773	2,665
Males, 20 years and over								
Civilian noninstitutional population	66,261	67,489	58,897	59,902	6,317	6,460	2,899	3,074
Civilian labor force	52,907	53,882	47,346	48,056	4,754	4,933	2,469	2,631
Percent of population	79.8	79.8	80.4	80.2	75.3	76.4	85.2	85.6
Employment	50,572	51,852	45,529	46,490	4,273	4,510	2,312	2,487
Agriculture	2,301	2,329	2,103	2,069	174	221	151	140
Nonagricultural industries	48,267	49,523	43,426	44,420	4,099	4,289	2,162	2,347
Unemployment	2,340	2,030	1,818	1,566	481	424	157	144
Unemployment rate	4.4	3.8	3.8	3.3	10.1	8.6	6.4	5.5
Not in labor force	13,354	13,607	11,550	11,846	1,563	1,526	430	443
Females, 20 years and over								
Civilian noninstitutional population	74,671	76,003	65,507	66,536	7,903	8,106	3,325	3,444
Civilian labor force	36,718	38,520	31,714	33,238	4,319	4,521	1,528	1,716
Percent of population	49.2	50.7	48.4	50.0	54.7	55.8	46.0	49.8
Employment	34,348	36,397	29,911	31,632	3,800	4,056	1,388	1,567
Agriculture	533	568	489	532	34	27	23	26
Nonagricultural industries	33,815	35,829	29,422	31,100	3,766	4,029	1,365	1,541
Unemployment	2,370	2,123	1,803	1,606	519	465	141	149
Unemployment rate	6.5	5.5	5.7	4.8	12.0	10.3	9.2	8.7
Not in labor force	37,953	37,483	33,793	33,299	3,585	3,585	1,796	1,728
Both sexes, 16-19 years								
Civilian noninstitutional population	16,468	16,429	13,961	13,898	2,246	2,231	1,031	994
Civilian labor force	8,966	9,213	8,022	8,224	838	853	485	501
Percent of population	54.4	56.1	57.5	59.2	37.3	38.2	47.0	50.4
Employment	7,527	7,761	6,938	7,109	501	548	386	401
Agriculture	333	317	320	299	11	14	25	17
Nonagricultural industries	7,194	7,443	6,618	6,810	490	534	361	384
Unemployment	1,439	1,452	1,084	1,115	337	305	99	100
Unemployment rate	16.0	15.8	13.5	13.6	40.2	35.8	20.5	19.9
Not in labor force	7,502	7,216	5,939	5,674	1,409	1,377	546	493

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

² Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the 1970 Census, approximately 96 percent of their population was white.

NOTE: Data for 1977 for total Hispanic origin are not strictly comparable with those published earlier. These estimates incorporate the expanded sample and revised estimation procedures introduced in the national sample in January 1978.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

**A-60 Employment status of persons of Mexican, Puerto Rican, and Cuban origin
by sex and age**

[Numbers in thousands]

Employment status	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
TOTAL								
Civilian noninstitutional population	7,255	7,512	4,120	4,456	1,090	1,064	574	579
Civilian labor force	4,483	4,827	2,657	2,992	532	532	369	390
Percent of population	61.8	64.3	64.5	67.1	48.8	50.0	64.3	67.4
Employment	4,086	4,455	2,416	2,762	467	470	344	354
Agriculture	199	183	180	160	4	6	7	7
Nonagricultural industries	3,887	4,272	2,235	2,602	464	464	337	348
Unemployment	397	392	241	230	64	62	25	36
Unemployment rate	8.9	8.1	9.1	7.7	12.1	11.7	6.8	9.2
Not in labor force	2,773	2,665	1,464	1,464	558	531	205	188
Males, 20 years and over								
Civilian noninstitutional population	2,899	3,074	1,717	1,910	387	380	235	225
Civilian labor force	2,469	2,631	1,485	1,672	325	300	194	194
Percent of population	85.2	85.6	86.5	87.5	84.0	78.9	82.6	86.2
Employment	2,312	2,487	1,396	1,592	294	269	185	179
Agriculture	151	140	136	122	3	5	5	7
Nonagricultural industries	2,162	2,347	1,260	1,470	292	264	180	172
Unemployment	157	144	89	80	30	30	9	15
Unemployment rate	6.4	5.5	6.0	4.8	9.4	10.1	4.6	7.9
Not in labor force	430	443	232	238	62	80	41	31
Females, 20 years and over								
Civilian noninstitutional population	3,325	3,444	1,783	1,916	543	543	292	299
Civilian labor force	1,528	1,716	854	982	157	185	151	169
Percent of population	46.0	49.8	47.9	51.3	28.9	34.1	51.7	57.0
Employment	1,388	1,567	771	892	139	167	138	155
Agriculture	23	26	19	23	1	—	2	—
Nonagricultural industries	1,365	1,541	753	869	138	167	137	155
Unemployment	141	149	82	90	17	17	13	13
Unemployment rate	9.2	8.7	9.7	9.2	11.1	9.5	8.4	7.9
Not in labor force	1,796	1,728	929	934	386	358	141	130
Both sexes, 16-19 years								
Civilian noninstitutional population	1,031	994	620	630	161	142	47	54
Civilian labor force	485	501	317	338	50	48	24	28
Percent of population	47.0	50.4	51.1	53.7	31.1	33.8	(2)	51.9
Employment	386	401	248	278	34	34	20	20
Agriculture	25	17	25	15	—	2	—	—
Nonagricultural industries	361	384	223	263	34	32	20	20
Unemployment	99	100	69	59	16	14	3	7
Unemployment rate	20.5	19.9	21.8	17.6	(2)	(2)	(2)	(2)
Not in labor force	546	493	303	292	110	94	23	27

¹ Includes persons of Central or South American origin and other Hispanic origin, not shown separately.

NOTE: See note, table A-59.

² Percent not shown where base is less than 60,000.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-61. Employed persons by selected social and economic categories, race, and Hispanic origin

[In thousands]

Selected categories	Total		White		Black and other		Hispanic origin ¹	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
CHARACTERISTICS								
Total, 16 years and over	92,442	96,010	82,378	85,230	10,065	10,780	4,086	4,455
Males	54,600	55,896	49,230	50,191	5,370	5,705	2,549	2,715
Females	37,843	40,114	33,147	35,039	4,695	5,075	1,537	1,740
OCCUPATION								
White-collar workers	46,667	48,415	43,027	44,444	3,640	3,971	1,362	1,452
Professional and technical	14,218	14,686	12,975	13,398	1,243	1,288	309	337
Managers and administrators, except farm ...	9,986	10,152	9,536	9,625	450	527	248	246
Sales workers	5,851	6,161	5,594	5,845	257	316	186	179
Clerical workers	16,612	17,416	14,923	15,575	1,690	1,841	619	690
Blue-collar workers	30,563	31,976	26,862	28,010	3,702	3,966	1,901	2,119
Craft and kindred workers	12,092	12,621	11,154	11,671	938	950	554	597
Operatives, except transport	10,469	11,111	9,001	9,428	1,468	1,683	843	980
Transport equipment operatives	3,531	3,637	3,033	3,099	498	538	156	176
Nonfarm laborers	4,471	4,607	3,673	3,812	798	795	348	366
Service workers	12,553	12,951	10,045	10,367	2,507	2,584	675	734
Farm workers	2,659	2,668	2,443	2,410	216	258	151	150
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,298	1,342	1,095	1,097	204	245	172	164
Self-employed workers	1,571	1,598	1,526	1,534	46	64	24	16
Unpaid family workers	298	275	292	270	6	5	3	3
Nonagricultural industries:								
Wage and salary workers	82,735	86,003	73,297	75,951	9,437	10,052	3,690	4,060
Government	15,575	15,564	13,160	13,077	2,415	2,487	581	622
Private industries	67,160	70,439	60,137	62,874	7,023	7,565	3,108	3,438
Private households	1,420	1,345	942	897	478	447	95	77
Other industries	65,740	69,094	59,195	61,977	6,545	7,118	3,013	3,361
Self-employed workers	6,103	6,368	5,747	5,983	355	386	176	201
Unpaid family workers	437	424	420	396	17	28	21	11
FULL- AND PART-TIME STATUS²								
Full-time schedules	75,024	78,358	66,733	69,430	8,291	8,927	3,432	3,773
Part time for economic reasons	3,245	3,115	2,671	2,550	575	565	206	202
Part time for noneconomic reasons	14,173	14,537	12,974	13,250	1,199	1,287	449	480

¹ See footnote 2, table A-59.

² Employed persons "with a job but not at work" during the survey period are distributed

proportionately among the full- and part-time employed categories.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-62. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

[In thousands]

Selected categories	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
CHARACTERISTICS								
Total, 16 years and over	4,086	4,455	2,416	2,762	467	470	344	354
Males	2,549	2,715	1,546	1,745	314	287	200	191
Females	1,537	1,740	870	1,017	154	184	144	163
OCCUPATION								
White-collar workers	1,362	1,452	702	812	158	142	156	139
Professional and technical	309	337	144	155	30	32	47	39
Managers and administrators, except farm	248	246	133	147	27	20	24	21
Sales workers	186	179	80	89	28	22	31	19
Clerical workers	619	690	345	421	73	68	54	60
Blue-collar workers	1,901	2,119	1,194	1,369	218	228	138	170
Craft and kindred workers	554	597	358	385	53	56	38	50
Operatives, except transport	843	980	483	590	111	127	75	97
Transport equipment operatives	156	176	110	114	15	24	8	7
Nonfarm laborers	348	366	243	280	39	21	17	16
Service workers	675	734	380	446	88	95	46	42
Farm workers	151	143	140	129	4	6	5	2
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	172	164	162	147	4	6	3	5
Self-employed workers	24	16	17	11	--	--	2	1
Unpaid family workers	3	3	1	3	--	--	2	--
Nonagricultural industries:								
Wage and salary workers	3,690	4,060	2,131	2,492	443	445	313	323
Government	581	622	384	407	65	77	36	31
Private industries	3,108	3,438	1,747	2,086	378	369	276	292
Private households	95	77	56	55	5	1	2	1
Other industries	3,013	3,361	1,691	2,031	373	368	274	291
Self-employed workers	176	201	98	105	14	18	21	25
Unpaid family workers	21	11	7	4	6	1	3	1
FULL- AND PART-TIME STATUS²								
Full-time schedules	3,432	3,773	2,021	2,321	418	412	294	299
Part time for economic reasons	206	202	140	135	15	24	10	8
Part time for noneconomic reasons	449	480	255	306	34	35	40	47

¹ See footnote 1, table A-60.

² See footnote 2, table A-61.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-63. Employed persons by sex, age, race, and Hispanic origin

(In thousands)

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total, 16 years and over	92,442	96,010	82,378	85,230	8,574	9,113	4,086	4,455
16 to 19 years	7,527	7,761	6,938	7,109	501	548	386	401
16 to 17 years	3,055	3,143	2,875	2,917	150	181	140	144
18 to 19 years	4,471	4,618	4,063	4,193	351	366	246	257
20 to 24 years	13,081	13,732	11,628	12,154	1,237	1,334	693	782
25 years and over	71,835	74,517	63,811	65,967	6,836	7,232	3,007	3,271
25 to 54 years	57,789	60,141	51,086	52,988	5,645	5,998	2,658	2,895
55 years and over	14,046	14,375	12,726	12,979	1,192	1,234	349	376
Males, 16 years and over	54,600	55,896	49,230	50,191	4,563	4,800	2,549	2,715
16 to 19 years	4,032	4,044	3,701	3,702	290	290	237	228
16 to 17 years	1,666	1,617	1,558	1,500	97	93	91	86
18 to 19 years	2,366	2,427	2,144	2,202	193	197	146	142
20 to 24 years	7,089	7,384	6,338	6,589	643	675	428	470
25 years and over	43,478	44,468	39,190	39,902	3,630	3,835	1,884	2,016
25 to 54 years	34,759	35,578	31,205	31,824	2,983	3,130	1,661	1,764
55 years and over	8,719	8,890	7,985	8,078	646	706	223	253
Females, 16 years and over	37,843	40,114	33,147	35,039	4,010	4,313	1,537	1,740
16 to 19 years	3,495	3,717	3,237	3,408	211	257	149	173
16 to 17 years	1,389	1,526	1,317	1,417	52	88	49	58
18 to 19 years	2,105	2,191	1,919	1,991	158	169	100	115
20 to 24 years	5,991	6,348	5,290	5,565	593	659	265	313
25 years and over	28,356	30,049	24,621	26,066	3,207	3,398	1,123	1,254
25 to 54 years	23,029	24,563	19,881	21,165	2,661	2,869	997	1,131
55 years and over	5,327	5,486	4,741	4,902	545	528	127	123

¹ See footnote 1, table A-59.

² See footnote 2, table A-59.

A-64. Rates of unemployment by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total, 16 years and over	6.2	5.5	5.4	4.8	13.5	11.6	8.9	8.1
16 to 19 years	16.0	15.8	13.5	13.6	40.2	35.8	20.5	19.9
16 to 17 years	17.8	18.7	15.7	16.9	44.1	38.7	22.5	27.7
18 to 19 years	14.8	13.6	11.9	11.1	38.4	34.2	19.3	14.8
20 to 24 years	9.6	8.4	7.9	6.7	22.6	20.6	9.9	9.5
25 years and over	4.4	3.7	4.0	3.4	8.5	7.0	6.9	6.0
25 to 54 years	4.6	4.0	4.0	3.5	9.1	7.4	6.9	6.3
55 years and over	3.9	2.9	3.7	2.6	5.7	5.1	6.2	3.8
Males, 16 years and over	5.4	4.8	4.6	4.1	12.6	10.7	7.6	6.7
16 to 19 years	15.7	16.1	13.4	14.0	37.7	34.1	17.9	17.9
16 to 17 years	17.3	19.9	15.4	18.2	39.5	39.5	14.7	25.7
18 to 19 years	14.6	13.3	11.8	11.0	36.8	31.1	19.8	12.3
20 to 24 years	9.0	8.0	7.7	6.5	20.8	20.3	9.7	8.2
25 years and over	3.6	3.0	3.2	2.7	7.9	6.2	5.6	4.8
25 to 54 years	3.6	3.1	3.2	2.8	8.2	6.6	5.3	5.0
55 years and over	3.7	2.6	3.3	2.4	6.5	4.3	7.5	3.8
Females, 16 years and over	7.5	6.5	6.5	5.7	14.5	12.6	10.9	10.3
16 to 19 years	16.4	15.4	13.7	13.0	43.4	37.6	24.2	22.4
16 to 17 years	18.3	17.3	16.0	15.5	51.1	37.9	33.7	30.5
18 to 19 years	15.1	14.1	12.0	11.2	40.2	37.5	18.4	17.6
20 to 24 years	10.2	8.7	8.2	7.0	24.5	20.9	10.1	11.4
25 years and over	5.6	4.8	5.1	4.4	9.2	7.9	9.0	7.9
25 to 54 years	5.9	5.1	5.3	4.7	10.1	8.2	9.5	8.3
55 years and over	4.3	3.3	4.2	3.0	4.7	6.2	4.5	3.9

¹ See footnote 1, table A-59.

² See footnote 2, table A-59.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-65. Unemployed persons by duration of unemployment, race, and Hispanic origin

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin ¹	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Duration								
Total, 16 years and over	6,149	5,605	4,705	4,287	1,444	1,318	397	392
Less than 5 weeks	2,626	2,651	2,062	2,109	565	543	176	206
5 to 14 weeks	1,961	1,828	1,486	1,384	476	444	132	124
15 weeks and over	1,561	1,125	1,157	795	404	331	89	62
15 to 26 weeks	763	640	564	457	198	183	46	43
27 weeks and over	798	486	593	338	205	148	43	19
Average (mean) duration, in weeks	13.5	11.1	13.1	10.4	14.8	13.3	12.1	8.6
Median duration, in weeks	6.6	5.6	6.4	5.2	7.5	7.2	6.3	4.8
Percent distribution								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.7	47.3	43.8	49.2	39.1	41.2	44.3	52.6
5 to 14 weeks	31.9	32.6	31.6	32.3	33.0	33.7	33.2	31.6
15 weeks and over	25.4	20.1	24.6	18.5	27.9	25.1	22.4	15.8
15 to 26 weeks	12.4	11.4	12.0	10.7	13.7	13.9	11.6	11.0
27 weeks and over	13.0	8.7	12.6	7.9	14.2	11.2	10.8	4.8

¹ See footnote 2, table A-58.

A-66. Unemployed persons by reason for unemployment, race and Hispanic origin

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin ¹	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,149	5,605	4,705	4,287	1,444	1,318	397	392
Job losers	2,668	2,283	2,085	1,745	583	538	190	172
On layoff	659	618	567	505	92	112	35	31
Other job losers	2,009	1,665	1,518	1,240	491	425	155	141
Job leavers	884	839	744	701	140	138	53	57
Reentrants	1,824	1,742	1,343	1,342	481	400	99	111
New entrants	773	741	533	499	239	242	54	52
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	43.4	40.7	44.3	40.7	40.4	40.8	48.0	43.9
On layoff	10.7	11.0	12.0	11.8	6.4	8.5	8.8	7.9
Other job losers	32.7	29.7	32.3	28.9	34.0	32.3	39.1	36.0
Job leavers	14.4	15.0	15.8	16.4	9.7	10.5	13.4	14.5
Reentrants	29.7	31.1	28.5	31.3	33.3	30.3	25.0	28.3
New entrants	12.6	13.2	11.3	11.6	16.6	18.4	13.6	13.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.7	2.2	2.4	2.0	5.1	4.4	4.2	3.5
Job leavers .....	.9	.8	.9	.8	1.2	1.1	1.2	1.2
Reentrants	1.8	1.7	1.5	1.5	4.2	3.3	2.2	2.3
New entrants .....	.8	.7	.6	.6	2.1	2.0	1.2	1.1

¹ See footnote 2, table A-58.

HOUSEHOLD DATA QUARTERLY AVERAGES

A-67. 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												
	IV 1977	IV 1978	1976				1977				1978				
			IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
VETERANS¹															
Total, 20 to 34 years:															
Civilian noninstitutional population ²	6,753	6,363	6,797	6,853	6,848	6,815	6,753	6,592	6,528	6,461	6,363				
Civilian labor force	6,428	6,074	6,402	6,501	6,503	6,519	6,420	6,284	6,198	6,149	6,067				
Employed	6,052	5,786	5,894	6,019	5,998	6,033	6,018	5,940	5,924	5,825	5,763				
Unemployed	376	288	508	483	505	486	402	344	274	324	305				
Unemployment rate	5.8	4.7	7.9	7.4	7.8	7.5	6.3	5.5	4.4	5.3	5.0				
20 to 24 years															
Civilian noninstitutional population ²	968	664	1,083	1,084	1,069	1,042	968	827	784	736	664				
Civilian labor force	859	593	945	976	938	936	854	747	696	655	588				
Employed	750	521	788	813	784	774	740	650	630	579	515				
Unemployed	109	71	158	163	154	162	115	97	66	76	73				
Unemployment rate	12.7	12.0	16.7	16.7	16.4	17.3	13.4	13.0	9.5	11.6	12.5				
25 to 29 years															
Civilian noninstitutional population ²	2,813	2,175	3,186	3,109	3,039	2,994	2,813	2,539	2,417	2,297	2,175				
Civilian labor force	2,664	2,076	3,001	2,957	2,902	2,850	2,661	2,418	2,296	2,153	2,075				
Employed	2,518	1,958	2,766	2,741	2,676	2,666	2,497	2,285	2,176	2,006	1,944				
Unemployed	146	118	235	216	226	185	164	133	120	147	132				
Unemployment rate	5.5	5.7	7.8	7.3	7.8	6.5	6.2	5.5	5.2	6.8	6.3				
30 to 34 years															
Civilian noninstitutional population ²	2,972	3,524	2,528	2,660	2,740	2,779	2,972	3,226	3,327	3,428	3,524				
Civilian labor force	2,906	3,405	2,456	2,568	2,663	2,732	2,905	3,118	3,207	3,341	3,404				
Employed	2,785	3,307	2,340	2,465	2,538	2,594	2,781	3,005	3,119	3,240	3,304				
Unemployed	121	99	115	103	125	139	123	113	88	101	100				
Unemployment rate	4.2	2.9	4.7	4.0	4.7	5.1	4.2	3.6	2.7	3.0	2.9				
NONVETERANS															
Total, 20 to 34 years:															
Civilian noninstitutional population ²	17,987	18,807	16,999	17,190	17,445	17,711	17,987	18,165	18,385	18,585	18,807				
Civilian labor force	16,127	17,008	15,441	15,618	15,700	15,976	16,225	16,501	16,659	16,834	17,097				
Employed	15,090	16,091	14,082	14,351	14,538	14,783	15,099	15,371	15,644	15,859	16,106				
Unemployed	1,037	917	1,359	1,266	1,162	1,193	1,126	1,130	1,014	975	991				
Unemployment rate	6.4	5.4	8.8	8.1	7.4	7.5	6.9	6.8	6.1	5.8	5.8				
20 to 24 years															
Civilian noninstitutional population ²	8,299	8,450	7,982	8,037	8,106	8,182	8,299	8,312	8,378	8,419	8,450				
Civilian labor force	6,933	7,154	6,872	6,907	6,851	6,965	7,066	7,112	7,152	7,180	7,286				
Employed	6,340	6,624	6,062	6,174	6,160	6,272	6,410	6,428	6,558	6,583	6,701				
Unemployed	593	530	810	734	691	693	656	684	594	597	585				
Unemployment rate	8.5	7.4	11.8	10.6	10.1	9.9	9.3	9.6	8.3	8.3	8.0				
25 to 29 years															
Civilian noninstitutional population ²	5,574	6,337	5,174	5,239	5,301	5,355	5,574	5,860	6,015	6,172	6,337				
Civilian labor force	5,268	6,006	4,877	4,945	4,983	5,044	5,245	5,555	5,675	5,868	5,976				
Employed	4,984	5,738	4,514	4,584	4,676	4,728	4,948	5,258	5,390	5,612	5,698				
Unemployed	285	268	362	360	307	315	297	297	285	257	278				
Unemployment rate	5.4	4.5	7.4	7.3	6.2	6.3	5.7	5.3	5.0	4.4	4.7				
30 to 34 years															
Civilian noninstitutional population ²	4,115	4,019	3,844	3,914	4,039	4,174	4,115	3,993	3,991	3,995	4,019				
Civilian labor force	3,926	3,848	3,693	3,766	3,866	3,968	3,914	3,834	3,832	3,786	3,835				
Employed	3,766	3,730	3,505	3,593	3,702	3,783	3,742	3,685	3,697	3,665	3,707				
Unemployed	160	118	187	172	164	185	173	149	135	122	128				
Unemployment rate	4.1	3.1	5.1	4.6	4.2	4.7	4.4	3.9	3.5	3.2	3.3				

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.

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A-68. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years by age, race, and Hispanic origin

[Numbers in thousands]

Employment status	Veterans ¹						Nonveterans					
	White		Black and other		Hispanic origin ²		White		Black and other		Hispanic origin ²	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total, 20 to 34 years:												
Civilian noninstitutional population	6,065	5,732	688	631	226	261	15,649	16,319	2,339	2,487	1,151	1,206
Civilian labor force	5,810	5,484	619	590	204	242	14,182	14,918	1,945	2,089	1,054	1,124
Employed	5,534	5,258	519	528	183	229	13,391	14,256	1,699	1,835	974	1,057
Unemployed	276	226	100	62	21	13	791	662	246	254	80	67
Unemployment rate	4.8	4.1	16.2	10.5	10.3	5.4	5.6	4.4	12.6	12.2	7.6	6.0
20 to 24 years												
Civilian noninstitutional population	805	575	163	89	43	37	7,250	7,328	1,049	1,122	497	514
Civilian labor force	726	512	133	81	32	29	6,139	6,288	794	866	438	460
Employed	658	460	92	62	26	28	5,681	5,915	659	709	400	424
Unemployed	68	52	41	19	6	1	458	373	135	157	38	36
Unemployment rate	9.4	10.2	30.8	23.5	(3)	(3)	7.5	5.9	17.0	18.1	8.7	7.8
25 to 29 years												
Civilian noninstitutional population	2,538	1,942	275	233	91	113	4,848	5,537	726	800	368	399
Civilian labor force	2,417	1,857	247	219	86	106	4,621	5,305	647	700	342	390
Employed	2,298	1,769	220	189	74	97	4,410	5,098	573	639	312	371
Unemployed	119	88	27	30	12	9	211	207	74	61	30	19
Unemployment rate	4.9	4.7	10.9	13.7	14.0	8.5	4.6	3.9	11.4	8.7	8.8	4.9
30 to 34 years												
Civilian noninstitutional population	2,722	3,215	250	309	92	111	3,551	3,454	564	565	286	293
Civilian labor force	2,667	3,115	239	290	86	107	3,422	3,325	504	523	274	274
Employed	2,578	3,029	207	277	83	104	3,300	3,243	467	487	262	262
Unemployed	89	86	32	13	3	3	122	82	37	36	12	12
Unemployment rate	3.3	2.8	13.4	4.5	3.5	2.8	3.6	2.5	7.3	6.9	4.4	4.4

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

² See footnote 2, table A-59.

³ Percent not shown where base is less than 60,000.

N.A.=Not available.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-69. Employment status of the population in metropolitan and nonmetropolitan areas by sex, age, and race

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total												
Civilian noninstitutional population	106,825	108,490	45,210	45,733	61,615	62,757	50,575	51,431	4,724	4,795	45,851	46,636
Civilian labor force	67,769	69,950	27,746	28,556	40,023	41,394	30,822	31,665	2,982	3,004	27,840	28,661
Percent of population	63.4	64.5	61.4	62.4	65.0	66.0	60.9	61.6	63.1	62.6	60.7	61.5
Employed	63,388	66,065	25,507	26,602	37,881	39,463	29,054	29,945	2,906	2,939	26,148	27,006
Unemployed	4,381	3,884	2,239	1,955	2,142	1,929	1,768	1,721	76	65	1,692	1,656
Unemployment rate	6.5	5.6	8.1	6.8	5.4	4.7	5.7	5.4	2.5	2.2	6.1	5.8
Not in labor force	39,056	38,541	17,464	17,177	21,592	21,364	19,753	19,766	1,742	1,791	18,011	17,962
Males, 20 years and over												
Civilian noninstitutional population	44,747	45,652	18,601	18,819	26,146	26,833	21,514	21,837	2,152	2,157	19,362	19,680
Civilian labor force	36,174	36,908	14,488	14,656	21,686	22,252	16,733	16,974	1,816	1,785	14,917	15,189
Percent of population	80.8	80.8	77.9	77.9	82.9	82.9	77.8	77.7	84.4	82.7	77.0	77.2
Employed	34,501	35,497	13,543	13,893	20,958	21,604	16,067	16,355	1,793	1,760	14,274	14,595
Unemployed	1,673	1,411	946	764	727	647	667	619	23	25	644	594
Unemployment rate	4.6	3.8	6.5	5.2	3.4	2.9	4.0	3.6	1.3	1.4	4.3	3.9
Not in labor force	8,573	8,744	4,113	4,162	4,460	4,582	4,780	4,863	336	372	4,444	4,491
Females, 20 years and over												
Civilian noninstitutional population	50,926	51,768	22,206	22,544	28,720	29,224	23,745	24,235	2,011	2,034	21,734	22,201
Civilian labor force	25,512	26,764	11,026	11,621	14,486	15,143	11,206	11,756	879	912	10,327	10,844
Percent of population	50.1	51.7	49.7	51.5	50.4	51.8	47.2	48.5	43.7	44.8	47.5	48.8
Employed	23,817	25,308	10,206	10,890	13,611	14,418	10,531	11,089	852	891	9,679	10,198
Unemployed	1,695	1,456	821	731	874	725	675	667	28	20	647	647
Unemployment rate	6.6	5.4	7.4	6.3	6.0	4.8	6.0	5.7	3.1	2.2	6.3	6.0
Not in labor force	25,414	25,004	11,180	10,922	14,234	14,082	12,539	12,479	1,131	1,122	11,408	11,357
Both sexes, 16-19 years												
Civilian noninstitutional population	11,151	11,070	4,403	4,370	6,748	6,700	5,316	5,359	561	604	4,755	4,755
Civilian labor force	6,083	6,278	2,231	2,278	3,852	4,000	2,883	2,935	287	307	2,596	2,628
Percent of population	54.6	56.7	50.7	52.1	57.1	59.7	54.2	54.8	51.1	50.9	54.6	55.3
Employed	5,070	5,261	1,759	1,819	3,311	3,442	2,457	2,500	262	288	2,195	2,212
Unemployed	1,013	1,017	472	459	541	558	426	435	25	19	401	416
Unemployment rate	16.7	16.2	21.2	20.1	14.0	14.0	14.8	14.8	8.8	6.2	15.4	15.8
Not in labor force	5,068	4,792	2,172	2,093	2,896	2,699	2,434	2,424	274	297	2,160	2,127
White												
Civilian noninstitutional population	92,307	93,652	34,754	35,059	57,553	58,593	46,057	46,685	4,459	4,476	41,598	42,209
Civilian labor force	58,854	60,611	21,535	22,008	37,319	38,603	28,228	28,907	2,835	2,840	25,393	26,067
Percent of population	63.8	64.7	62.0	62.8	64.8	65.9	61.3	61.9	63.6	63.4	61.0	61.8
Employed	55,622	57,756	20,200	20,859	35,422	36,897	26,756	27,474	2,773	2,788	23,983	24,686
Unemployed	3,233	2,854	1,335	1,149	1,898	1,705	1,472	1,432	62	52	1,410	1,380
Unemployment rate	5.5	4.7	6.2	5.2	5.1	4.4	5.2	5.0	2.2	1.8	5.6	5.3
Not in labor force	33,453	33,041	13,219	13,050	20,234	19,991	17,829	17,778	1,624	1,636	16,205	16,142
Black and other												
Civilian noninstitutional population	14,517	14,839	10,455	10,674	4,062	4,165	4,518	4,747	265	319	4,253	4,428
Civilian labor force	8,914	9,339	6,211	6,548	2,703	2,791	2,594	2,759	147	164	2,447	2,595
Percent of population	61.4	62.9	59.4	61.3	66.5	67.0	57.4	58.1	55.4	51.5	57.5	58.6
Employed	7,766	8,309	5,307	5,743	2,459	2,566	2,298	2,471	133	151	2,165	2,320
Unemployed	1,148	1,030	903	806	245	224	296	288	14	13	282	275
Unemployment rate	12.9	11.0	14.5	12.3	9.1	8.0	11.4	10.4	9.5	7.7	11.5	10.6
Not in labor force	5,603	5,500	4,244	4,126	1,357	1,374	1,924	1,988	118	155	1,806	1,833

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A-70. Employment status of the population in poverty and nonpoverty areas by race

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total												
Civilian noninstitutional population	29,286	28,836	128,114	131,086	11,619	11,039	95,205	97,451	17,666	17,796	32,908	33,635
Civilian labor force	16,388	16,247	82,202	85,368	6,265	6,063	61,504	63,887	10,124	10,184	20,698	21,482
Percent of population	56.0	56.3	64.2	65.1	53.9	54.9	64.6	65.6	57.3	57.2	62.9	63.9
Employed	15,004	14,907	77,439	81,103	5,461	5,360	57,926	60,706	9,542	9,548	19,512	20,397
Unemployed	1,385	1,339	4,764	4,265	803	703	3,578	3,181	581	636	1,186	1,085
Unemployment rate	8.4	8.2	5.8	5.0	12.8	11.6	5.8	5.0	5.7	6.2	5.7	5.0
Not in labor force	12,897	12,589	45,911	45,717	5,355	4,976	33,701	33,564	7,543	7,613	12,210	12,153
White												
Civilian noninstitutional population	20,547	20,354	117,817	119,983	5,957	5,691	86,350	87,961	14,590	14,662	31,467	32,022
Civilian labor force	11,758	11,678	75,324	77,839	3,303	3,177	55,552	57,433	8,456	8,501	19,772	20,406
Percent of population	57.2	57.4	63.9	64.9	55.4	55.8	64.3	65.3	58.0	58.0	62.8	63.7
Employed	11,076	10,976	71,301	74,255	3,021	2,921	52,601	54,835	8,055	8,054	18,701	19,420
Unemployed	682	703	4,023	3,584	282	256	2,951	2,598	400	447	1,072	986
Unemployment rate	5.8	6.0	5.3	4.6	8.5	8.1	5.3	4.5	4.7	5.3	5.4	4.8
Not in labor force	8,788	8,675	42,493	42,144	2,654	2,514	30,799	30,527	6,134	6,162	11,695	11,617
Black and other												
Civilian noninstitutional population	8,739	8,482	10,296	11,103	5,662	5,348	8,855	9,490	3,077	3,134	1,441	1,613
Civilian labor force	4,630	4,568	6,878	7,530	2,962	2,886	5,952	6,453	1,668	1,683	926	1,076
Percent of population	53.0	53.9	66.8	67.8	52.3	54.0	67.2	68.0	54.2	53.7	64.2	66.7
Employed	3,927	3,931	6,137	6,848	2,441	2,438	5,326	5,871	1,487	1,493	811	978
Unemployed	703	637	741	681	521	447	627	583	181	190	115	99
Unemployment rate	15.2	13.9	10.8	9.0	17.6	15.5	10.5	9.0	10.9	11.3	12.4	9.2
Not in labor force	4,109	3,914	3,418	3,574	2,700	2,463	2,902	3,037	1,408	1,451	515	537

A-71. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978	IV 1977	IV 1978
Total												
Both sexes, 16 years and over	8.4	8.2	5.8	5.0	12.8	11.6	5.8	5.0	5.7	6.2	5.7	5.0
Males, 20 years and over	6.1	6.0	4.1	3.3	10.5	9.0	4.1	3.3	3.6	4.4	4.2	3.3
Females, 20 years and over	8.4	8.3	6.1	5.0	11.5	10.6	6.1	4.9	6.4	6.8	5.9	5.1
Both sexes, 16-19 years	22.1	21.2	14.8	14.7	31.4	31.1	15.1	14.8	16.3	15.4	14.0	14.6
White												
Both sexes, 16 years and over	5.8	6.0	5.3	4.6	8.5	8.1	5.3	4.5	4.7	5.3	5.4	4.8
Males, 20 years and over	4.1	4.6	3.8	3.1	6.9	6.5	3.7	3.0	3.0	3.9	4.0	3.1
Females, 20 years and over	6.2	6.2	5.6	4.6	8.8	7.6	5.6	4.5	5.2	5.6	5.6	5.0
Both sexes, 16-19 years	14.3	14.5	13.4	13.4	17.4	20.5	13.6	13.4	13.2	12.4	12.9	13.5
Black and other												
Both sexes, 16 years and over	15.2	13.9	10.8	9.0	17.6	15.5	10.5	9.0	10.9	11.3	12.4	9.2
Males, 20 years and over	11.8	10.2	7.7	6.6	15.0	12.1	7.6	6.6	6.5	7.0	8.9	6.7
Females, 20 years and over	13.2	13.1	10.1	7.9	14.1	13.5	10.1	8.2	11.5	12.3	10.3	6.5
Both sexes, 16-19 years	40.7	36.8	34.9	32.0	45.0	41.3	34.3	31.2	32.2	29.2	37.5	35.7

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A-72. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	IV 1977			IV 1978				
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family em- ployed full time		With no employed person in family	With at least one employed person in family	With at least one person in family em- ployed full time
TOTAL								
Unemployed, total	6,149	38.4	61.6	55.0	5,605	38.0	62.0	56.3
Unemployed, in families ¹	5,320	28.9	71.1	63.6	4,775	27.2	72.8	66.1
Husbands ²	1,219	49.7	50.3	38.1	963	48.5	51.5	39.1
Wives	1,328	14.1	85.9	79.7	1,206	10.7	89.3	83.9
Relatives in husband-wife families	1,638	10.4	89.6	85.5	1,548	11.0	89.0	85.3
Women who head families	409	79.5	20.5	14.4	379	79.7	20.3	13.7
Relatives of female heads	726	34.0	66.0	55.4	679	33.9	66.1	58.0
Unemployed, not in families ³	829	--	--	--	830	--	--	--
White								
Unemployed, total	4,705	36.6	63.4	56.8	4,287	35.9	64.1	58.5
Unemployed, in families ¹	4,050	26.4	73.6	66.0	3,638	24.5	75.5	68.9
Husbands ²	1,017	49.6	50.4	37.5	801	48.8	51.2	38.8
Wives	1,099	13.6	86.4	80.5	1,019	10.2	89.8	84.6
Relatives in husband-wife families	1,284	9.1	90.9	87.5	1,217	9.8	90.2	87.0
Women who head families	247	71.7	28.3	19.4	218	75.2	24.8	17.0
Relatives of female heads	403	30.3	69.7	58.1	383	29.2	70.8	61.9
Unemployed, not in families ³	655	--	--	--	649	--	--	--
Black⁴								
Unemployed, total	1,336	44.4	55.6	49.2	1,194	45.1	54.9	48.4
Unemployed, in families ¹	1,186	37.4	62.6	55.4	1,037	36.7	63.3	55.7
Husbands ²	179	49.7	50.3	40.8	141	46.8	53.2	39.0
Wives	202	17.3	82.7	75.7	166	13.3	86.7	80.1
Relatives in husband-wife families	332	15.1	84.9	77.7	295	16.3	83.7	77.6
Women who head families	158	92.4	7.6	6.3	156	85.3	14.7	9.6
Relatives of female heads	315	39.0	61.0	51.7	279	40.1	59.9	52.3
Unemployed, not in families ³	150	--	--	--	157	--	--	--

¹ In primary families only.

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

³ Includes unrelated individuals and persons in secondary families.

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

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A-73. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	IV 1977				IV 1978			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time
TOTAL								
Employed, total	92,442	37.9	62.1	52.9	96,010	37.2	62.8	53.7
Employed, in families ¹	79,990	28.2	71.8	61.1	82,485	26.9	73.1	62.5
Husbands ²	39,339	41.4	58.6	42.3	39,859	39.2	60.8	44.2
Wives	21,471	8.6	91.4	86.8	22,478	7.9	92.1	88.1
Relatives in husband-wife families	11,734	6.2	93.8	90.6	12,290	6.5	93.5	90.2
Women who head families	4,208	66.5	33.5	23.8	4,523	67.3	32.7	21.6
Relatives of female heads	3,238	27.9	72.1	60.8	3,335	27.3	72.7	61.9
Employed, not in families ³	12,452	--	--	--	13,525	--	--	--
White								
Employed, total	82,378	37.4	62.6	53.1	85,230	36.7	63.3	53.9
Employed, in families ¹	71,498	27.9	72.1	61.1	73,468	26.5	73.5	62.6
Husbands ²	35,938	41.9	58.1	41.4	36,309	39.7	60.3	43.2
Wives	19,295	8.1	91.9	87.3	20,193	7.5	92.5	88.6
Relatives in husband-wife families	10,705	6.1	93.9	90.8	11,102	6.4	93.6	90.6
Women who head families	3,084	64.3	35.7	24.8	3,352	65.0	35.0	22.7
Relatives of female heads	2,476	27.8	72.2	61.1	2,512	26.5	73.5	63.0
Employed, not in families ³	10,880	--	--	--	11,762	--	--	--
Black⁴								
Employed, total	8,574	42.7	57.3	50.3	9,113	42.3	57.7	50.8
Employed, in families ¹	7,252	32.3	67.7	59.5	7,628	31.1	68.9	60.6
Husbands ²	2,877	36.6	63.4	52.2	2,942	34.9	65.1	54.7
Wives	1,817	13.4	86.6	81.6	1,882	11.6	88.4	83.0
Relatives in husband-wife families	819	7.6	92.4	87.8	940	8.8	91.2	85.1
Women who head families	1,053	74.1	25.9	19.8	1,096	74.2	25.8	18.7
Relatives of female heads	686	29.6	70.4	58.3	768	29.7	70.3	58.5
Employed, not in families ³	1,322	--	--	--	1,485	--	--	--

¹ See footnote 1, table A-72.
² See footnote 2, table A-72.

³ See footnote 3, table A-72.
⁴ See footnote 4, table A-72.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Goods-producing						Service-producing								
	Total	Mining	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	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-
1920	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,250	1,525	3,905	4,660	1,340	3,320
1942	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,174
1944	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,213	1,461	4,145	6,043	2,928	3,116
1945	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,085	1,675	4,697	5,595	2,254	3,341
1947	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,484	1,728	5,025	5,474	1,892	3,582
1948	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,609	2,298	6,240	6,914	2,187	4,727
1956	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,277	2,209	5,069
1957	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968	67,892	23,732	606	3,350	19,776	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977	82,256	24,288	809	3,833	19,647	57,968	4,696	18,492	4,697	13,795	4,452	15,249	15,079	2,727	12,352
1978 ^P	85,760	25,381	837	4,213	20,331	60,380	4,858	19,392	4,897	14,496	4,676	15,976	15,478	2,754	12,723
1977:															
Dec.	84,464	24,568	682	3,896	19,990	59,896	4,773	19,568	4,797	14,771	4,533	15,540	15,482	2,724	12,758
1978:															
Jan.	82,724	24,018	669	3,507	19,842	58,706	4,706	18,806	4,768	14,038	4,526	15,316	15,352	2,711	12,641
Feb.	82,962	23,996	668	3,464	19,864	58,966	4,720	18,615	4,780	13,835	4,550	15,482	15,599	2,720	12,879
Mar.	83,897	24,356	686	3,675	19,995	59,541	4,759	18,801	4,815	13,986	4,577	15,678	15,726	2,725	13,001
Apr.	85,075	24,973	858	4,014	20,101	60,102	4,808	19,053	4,843	14,210	4,609	15,866	15,766	2,739	13,027
May	85,796	25,262	870	4,183	20,209	60,534	4,842	19,267	4,870	14,397	4,642	15,975	15,808	2,756	13,052
June	86,799	25,839	895	4,462	20,482	60,960	4,920	19,499	4,934	14,565	4,712	16,138	15,691	2,802	12,849
July	85,925	25,712	900	4,572	20,240	60,213	4,856	19,469	4,930	14,539	4,746	16,213	14,929	2,815	12,114
Aug.	86,134	25,997	902	4,633	20,462	60,137	4,870	19,519	4,930	14,589	4,754	16,235	14,759	2,793	11,966
Sept.	86,688	26,131	894	4,586	20,651	60,557	4,908	19,634	4,932	14,702	4,724	16,159	15,132	2,744	12,388
Oct.	87,303	26,161	897	4,601	20,663	61,142	4,952	19,701	4,970	14,731	4,732	16,201	15,556	2,746	12,810
Nov. ^P	87,779	26,150	903	4,516	20,731	61,629	4,970	19,967	4,987	14,980	4,761	16,228	15,703	2,746	12,957
Dec. ^P	88,043	25,976	896	4,347	20,733	62,067	4,990	20,378	5,004	15,374	4,774	16,215	15,710	2,755	12,955

¹ 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.

p = preliminary.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
-	TOTAL	84,276	84,464	87,303	87,779	88,043	-	-	-	-	-
-	PRIVATE SECTOR	68,786	68,982	71,747	72,076	72,333	56,449	56,612	58,771	59,063	59,273
-	MINING	841	682	897	903	896	640	499	678	685	678
10	METAL MINING	82.8	91.4	96.9	97.4	-	60.3	68.9	75.0	75.2	-
101	Iron ores	9.3	18.2	25.6	25.5	-	5.1	13.5	20.9	20.7	-
102	Copper ores	36.4	36.4	34.2	34.3	-	27.6	28.0	26.2	26.3	-
11, 12	COAL MINING	248.0	83.7	245.4	249.5	-	212.6	66.3	204.2	209.0	-
12	BITUMINOUS COAL AND LIGNITE MINING	244.6	80.3	242.3	246.4	-	209.6	63.4	201.5	206.2	-
13	OIL AND GAS EXTRACTION	390.2	391.7	427.7	430.4	-	272.1	273.2	297.2	299.5	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	171.6	171.7	180.3	181.1	-	87.2	86.7	87.3	88.1	-
138	Oil and gas field services	218.6	220.0	247.4	249.3	-	184.9	186.5	209.9	211.4	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	120.0	114.8	127.1	126.1	-	95.2	90.4	101.9	101.0	-
142	Crushed and broken stone	41.8	39.1	44.6	44.2	-	34.7	32.2	37.7	37.3	-
144	Sand and gravel	36.1	33.4	38.9	38.3	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.5	23.6	23.7	23.7	-	-	-	-	-	-
-	CONSTRUCTION	4,062	3,896	4,601	4,516	4,347	3,212	3,043	3,718	3,633	3,454
15	GENERAL BUILDING CONTRACTORS	1,156.0	1,129.4	1,295.4	1,280.5	-	900.7	869.8	1,026.9	1,009.7	-
152	Residential building construction	605.6	597.6	695.1	686.2	-	463.2	450.7	544.4	535.2	-
153	Operative builders	78.9	77.4	83.1	83.6	-	53.3	52.0	55.8	55.4	-
154	Nonresidential building construction	471.5	454.4	517.2	510.7	-	384.2	367.1	426.7	419.1	-
16	HEAVY CONSTRUCTION CONTRACTORS	844.0	759.0	988.0	944.6	-	670.2	585.7	818.8	777.2	-
161	Highway and street construction	271.1	215.8	342.1	311.4	-	231.2	177.9	298.8	269.6	-
162	Heavy construction, except highway	572.9	543.2	645.9	633.2	-	439.0	407.8	520.0	507.6	-
17	SPECIAL TRADE CONTRACTORS	2,062.0	2,007.6	2,317.3	2,290.9	-	1,641.3	1,587.2	1,872.1	1,845.9	-
171	Plumbing, heating, air conditioning	497.7	497.2	546.4	542.6	-	377.5	376.6	421.5	417.7	-
172	Painting, paper hanging, decorating	132.9	125.7	156.3	153.1	-	112.0	104.8	132.8	130.0	-
173	Electrical work	352.7	351.3	387.9	389.5	-	274.1	272.2	305.6	307.2	-
174	Masonry, stonework, and plastering	330.4	320.4	379.1	376.2	-	283.9	274.2	331.3	328.0	-
175	Carpentering and flooring	125.2	122.8	138.5	137.0	-	97.8	95.8	109.3	107.8	-
176	Roofing and sheet metal work	149.2	137.6	173.4	168.8	-	121.8	110.7	144.0	139.7	-
-	MANUFACTURING	19,977	19,990	20,663	20,731	20,733	14,387	14,378	14,878	14,935	14,937
24, 25, 32-39	DURABLE GOODS	11,816	11,877	12,411	12,482	12,518	8,503	8,540	8,926	8,987	9,018
20-23, 26-31	NONDURABLE GOODS	8,161	8,113	8,252	8,249	8,215	5,884	5,838	5,952	5,948	5,919
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	741.3	743.0	761.1	755.0	752.2	635.0	634.7	652.3	644.3	642.0
241	Logging camps and logging contractors	86.4	83.3	93.0	90.2	-	70.9	67.7	76.9	74.0	-
242	Sawmills and planing mills	233.8	233.9	240.5	239.3	-	209.2	209.2	215.3	213.7	-
2421	Sawmills and planing mills, general	194.4	194.3	200.0	199.0	-	174.2	174.0	179.6	178.3	-
2426	Hardwood dimension and flooring	32.8	33.0	33.8	33.5	-	29.1	29.3	29.7	29.4	-
243	Millwork, plywood, and structural members	212.1	211.8	215.2	215.2	-	180.8	180.0	181.9	181.0	-
2431	Millwork	77.0	76.8	77.5	77.2	-	63.8	63.8	64.0	63.5	-
2434	Wood kitchen cabinets	47.3	48.0	47.8	48.3	-	40.1	40.4	39.6	39.7	-
2435	Hardwood veneer and plywood	26.2	26.0	26.2	26.4	-	23.4	23.0	23.4	23.6	-
2436	Softwood veneer and plywood	46.9	46.8	47.6	47.3	-	41.5	41.4	41.8	41.3	-
244	Wooden containers	42.0	41.8	43.0	42.6	-	37.1	36.8	38.1	37.6	-
245	Wood buildings and mobile homes	85.7	90.7	83.4	81.1	-	69.1	72.9	67.7	65.2	-
2451	Mobile homes	58.6	64.4	57.3	55.5	-	48.3	52.9	48.7	46.6	-
249	Miscellaneous wood products	81.3	81.5	86.0	86.6	-	67.9	68.1	72.4	72.8	-
25	FURNITURE AND FIXTURES	480.9	484.2	491.4	492.8	493.2	396.7	398.9	404.5	405.8	405.1
251	Household furniture	397.1	328.7	331.4	332.3	-	279.0	280.1	281.8	282.9	-
2511	Wood household furniture	146.4	147.4	146.3	146.7	-	129.2	130.2	129.4	130.0	-
2512	Upholstered household furniture	101.3	102.2	104.9	105.4	-	84.9	85.6	87.1	87.4	-
2514	Metal household furniture	30.3	30.4	30.0	30.9	-	24.4	24.3	24.1	25.0	-
2515	Mattresses and bedsprings	32.1	32.2	33.4	32.2	-	25.1	25.1	26.1	25.1	-
252	Office furniture	42.7	43.5	45.5	45.8	-	34.6	35.1	37.0	37.2	-
253	Public building and related furniture	24.0	24.2	24.9	24.9	-	18.3	18.5	18.9	19.0	-
254	Partitions and fixtures	60.7	61.0	63.7	63.7	-	46.3	46.5	48.8	48.6	-
259	Miscellaneous furniture and fixtures	26.4	26.8	25.9	26.1	-	18.5	18.7	18.0	18.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	687.9	678.0	709.6	709.6	698.9	551.4	542.2	564.6	565.7	554.3
321	Flat glass	21.9	21.7	18.8	18.7	-	17.7	17.5	14.4	14.5	-
322	Glass and glassware, pressed or blown	137.9	136.7	138.9	138.6	-	119.7	118.5	119.4	119.4	-
3221	Glass containers	78.1	77.9	77.8	77.0	-	70.1	69.9	68.8	68.1	-
3229	Pressed and blown glass, nec	59.8	58.8	61.1	61.6	-	49.6	48.6	50.6	51.3	-
323	Products of purchased glass	44.8	44.7	48.7	49.3	-	33.7	33.4	35.8	36.7	-
324	Cement, hydraulic	31.2	31.1	32.1	32.3	-	24.8	24.7	25.5	25.9	-
325	Structural clay products	52.0	51.5	52.2	52.3	-	41.7	41.2	41.2	41.3	-
326	Pottery and related products	47.7	46.9	48.6	48.9	-	40.3	39.4	40.8	41.3	-
327	Concrete, gypsum, and plaster products	204.3	196.7	214.9	212.6	-	159.9	153.0	169.4	167.7	-
3271	Concrete block and brick	23.3	22.7	25.0	25.1	-	15.9	15.5	17.8	17.9	-
3272	Concrete products, nec	70.2	68.7	73.0	72.4	-	55.2	54.0	57.2	57.0	-
3273	Ready-mixed concrete	90.2	84.8	95.8	94.0	-	72.2	66.9	77.2	75.5	-
329	Misc. nonmetallic mineral products	135.3	136.5	142.8	144.2	-	103.5	104.8	107.8	108.6	-
3291	Abrasive products	26.6	27.3	28.9	29.2	-	18.5	19.1	19.8	20.0	-
3292	Asbestos products	21.7	21.3	22.8	23.1	-	16.8	16.4	17.7	17.8	-
3296	Mineral wool	30.0	30.3	30.7	31.2	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,174.0	1,175.5	1,220.3	1,230.1	1,238.0	916.3	918.1	961.9	972.0	980.9
331	Blast furnace and basic steel products	537.5	537.4	557.5	559.8	-	417.5	418.7	441.3	443.9	-
3312	Blast furnaces and steel mills	455.8	456.0	473.7	475.1	-	355.5	357.2	376.8	378.3	-
3317	Steel pipe and tubes	28.7	28.7	29.8	30.4	-	22.1	21.9	23.2	23.9	-
332	Iron and steel foundries	235.4	235.5	241.3	246.2	-	193.1	192.9	197.5	202.3	-
3321	Gray iron foundries	150.4	150.1	151.1	155.0	-	125.7	125.1	125.9	129.6	-
3322	Malleable iron foundries	20.8	20.5	23.2	23.4	-	16.7	16.4	18.9	19.1	-
3325	Steel foundries, nec	54.2	54.7	55.8	56.4	-	43.2	43.7	44.8	45.4	-
333	Primary nonferrous metals	67.0	67.0	68.4	68.3	-	52.0	52.4	53.5	53.4	-
3334	Primary aluminum	33.1	33.2	34.5	34.6	-	26.7	26.9	28.0	28.1	-
335	Nonferrous rolling and drawing	197.1	199.0	210.8	212.3	-	143.5	144.2	154.5	156.2	-
3351	Copper rolling and drawing	28.2	28.4	33.3	34.2	-	21.4	21.5	25.9	26.6	-
3353	Aluminum sheet, plate, and foil	32.9	33.4	37.5	37.6	-	24.3	24.3	28.1	28.4	-
3357	Nonferrous wire drawing and insulating	82.1	83.1	83.4	83.8	-	60.9	61.7	61.9	62.5	-
336	Nonferrous foundries	93.8	93.5	95.9	97.3	-	77.9	77.7	79.6	80.9	-
3361	Aluminum foundries	52.2	52.0	52.9	53.6	-	44.1	44.0	44.6	45.2	-
34	FABRICATED METAL PRODUCTS	1,617.9	1,620.4	1,684.9	1,694.7	1,703.5	1,230.7	1,230.6	1,281.4	1,289.5	1,294.6
341	Metal cans and shipping containers	75.2	73.7	77.4	77.8	-	63.0	61.7	65.0	65.5	-
3411	Metal cans	62.2	60.6	63.5	64.0	-	52.6	51.2	53.6	54.3	-
342	Cutlery, hand tools, and hardware	182.5	184.5	189.8	191.3	-	142.5	143.9	148.0	149.1	-
3423.5	Hand and edge tools, and hand saws and blades	59.2	59.8	64.5	64.9	-	46.1	46.6	50.8	50.9	-
3429	Hardware, nec	107.4	108.7	108.9	110.0	-	84.7	85.3	85.1	86.2	-
343	Plumbing and heating, except electric	70.7	71.3	71.5	72.3	-	53.0	53.3	53.4	54.1	-
3432	Plumbing fittings and brass goods	25.7	26.1	26.5	26.8	-	21.0	21.3	21.5	21.8	-
3433	Heating equipment, except electric	33.9	34.2	34.6	34.1	-	24.3	24.5	24.4	23.8	-
344	Fabricated structural metal products	488.9	488.8	513.2	515.5	-	348.1	346.8	365.2	366.9	-
3441	Fabricated structural metal	100.3	100.1	103.6	104.7	-	72.1	71.8	74.9	75.9	-
3442	Metal doors, sash, and trim	84.1	84.2	86.9	87.2	-	65.0	64.8	65.6	65.8	-
3443	Fabricated plate work (boiler shops)	141.9	142.8	147.8	148.9	-	93.2	93.8	96.6	97.5	-
3444	Sheet metal work	98.1	98.0	104.1	104.6	-	72.7	72.2	77.9	78.1	-
3446	Architectural metal work	32.0	32.5	33.9	34.1	-	22.9	23.2	24.5	24.6	-
345	Screw machine products, bolts, etc.	103.0	103.7	110.1	111.6	-	80.9	81.4	86.5	87.8	-
3451	Screw machine products	48.6	49.2	52.9	53.5	-	40.0	40.6	43.7	44.1	-
3452	Bolts, nuts, rivets, and washers	54.4	54.5	57.2	58.1	-	40.9	40.8	42.8	43.7	-
346	Metal forgings and stampings	298.0	299.1	305.3	307.8	-	242.8	243.7	248.0	250.4	-
3462	Iron and steel forgings	51.2	51.4	55.1	56.0	-	41.3	41.3	44.0	44.8	-
3465	Automotive stampings	116.8	117.0	118.1	118.9	-	99.6	99.7	99.9	100.8	-
3469	Metal stampings, nec	119.2	119.9	121.3	121.5	-	93.6	94.3	95.7	96.0	-
347	Metal services, nec	95.2	94.1	98.9	99.2	-	78.5	77.3	81.4	81.8	-
3471	Plating and polishing	67.0	66.9	70.4	70.9	-	55.8	55.6	58.7	59.2	-
3479	Metal coating and allied services	28.2	27.2	28.5	28.3	-	22.7	21.7	22.7	22.6	-
348	Ordnance and accessories, nec	57.6	57.0	59.1	59.3	-	40.4	39.8	41.1	41.2	-
3483	Ammunition, exc. for small arms, nec	24.3	24.3	24.5	24.7	-	17.4	17.4	17.1	17.3	-
349	Misc. fabricated metal products	246.8	248.2	259.6	259.9	-	181.5	182.7	192.8	192.7	-
3494	Valves and pipe fittings	97.8	98.4	100.1	101.1	-	65.8	66.5	68.0	68.8	-
3496	Misc. fabricated wire products	49.0	49.1	52.9	53.4	-	37.8	37.7	41.1	41.2	-
35	MACHINERY, EXCEPT ELECTRICAL	2,234.5	2,264.0	2,383.6	2,406.1	2,436.2	1,468.9	1,491.9	1,570.1	1,587.8	1,612.3
351	Engines and turbines	123.9	131.3	136.3	137.2	-	79.3	84.5	89.0	89.8	-
3511	Turbines and turbine generator sets	44.7	44.9	45.2	45.0	-	23.6	23.6	23.9	23.7	-
3519	Internal combustion engines, nec	79.2	86.4	91.1	92.2	-	55.7	60.9	65.1	66.1	-
352	Farm and garden machinery	164.9	165.0	164.7	165.9	-	113.4	113.7	115.1	116.7	-
3523	Farm machinery and equipment	148.2	147.9	148.9	149.0	-	102.0	101.9	104.3	104.8	-
353	Construction and related machinery	363.8	365.4	397.6	401.0	-	243.0	244.9	266.4	268.9	-
3531	Construction machinery	163.2	164.5	176.3	177.9	-	112.4	114.5	120.8	122.2	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	32.9	33.3	36.0	35.9	-	21.1	21.1	23.2	22.9	-
3533	Oil field machinery.....	69.9	70.7	78.6	79.3	-	47.4	48.4	54.9	55.5	-
3535	Conveyers and conveying equipment.....	30.4	30.8	32.7	32.8	-	18.3	18.7	19.3	19.1	-
3537	Industrial trucks and tractors.....	35.7	34.5	39.9	40.7	-	24.7	23.3	27.7	28.5	-
354	Metalworking machinery.....	331.3	335.2	346.7	350.2	-	241.4	245.0	252.9	255.5	-
3541	Machine tools, metal cutting types.....	65.5	67.1	70.4	71.5	-	42.6	44.0	45.1	45.9	-
3542	Machine tools, metal forming types.....	23.0	23.3	24.2	24.6	-	15.1	15.4	16.0	16.2	-
3544	Special dies, tools, jigs, and fixtures.....	127.8	129.0	129.6	130.4	-	102.6	103.8	104.0	104.8	-
3545	Machine tool accessories.....	60.6	61.2	64.8	65.7	-	43.1	43.6	46.0	46.7	-
3546	Power driven hand tools.....	32.9	33.5	33.5	33.5	-	24.5	25.1	25.2	25.2	-
355	Special industry machinery.....	194.1	195.4	200.8	203.7	-	122.3	123.7	126.0	128.5	-
3551	Food products machinery.....	44.5	44.7	45.9	46.3	-	27.8	27.9	28.4	28.8	-
3552	Textile machinery.....	30.9	31.2	30.6	31.8	-	22.0	22.3	21.6	22.5	-
3555	Printing trades machinery.....	33.2	33.6	37.0	37.2	-	19.5	19.8	21.9	22.1	-
356	General industrial machinery.....	301.0	302.9	315.2	318.8	-	202.3	203.3	210.8	212.7	-
3561	Pumps and pumping equipment.....	61.3	61.5	61.4	61.5	-	38.4	38.6	37.9	37.8	-
3562	Ball and roller bearings.....	57.8	57.7	59.1	60.4	-	44.3	44.2	45.6	46.6	-
3563	Air and gas compressors.....	28.2	28.5	30.0	30.0	-	16.8	16.8	17.6	17.3	-
3564	Blowers and fans.....	36.2	36.6	37.6	38.1	-	23.4	23.6	23.9	24.1	-
3566	Speed changers, drives, and gears.....	24.7	25.0	25.9	26.3	-	17.1	17.3	17.8	18.1	-
3568	Power transmission equipment, nec.....	22.4	22.4	22.7	22.9	-	16.3	16.2	16.5	16.7	-
357	Office and computing machines.....	327.5	332.0	362.2	365.9	-	149.7	151.5	167.5	170.5	-
3573	Electronic computing equipment.....	253.9	257.4	284.0	286.3	-	105.4	107.1	120.1	122.3	-
358	Refrigeration and service machinery.....	176.3	179.3	188.1	186.3	-	124.2	127.1	132.6	130.8	-
3585	Refrigeration and heating equipment.....	122.6	125.4	130.5	128.9	-	87.1	89.8	92.4	91.0	-
359	Misc. machinery, except electrical.....	251.7	257.5	272.0	277.1	-	193.3	198.2	209.8	214.4	-
3592	Carburetors, pistons, rings, valves.....	37.8	39.0	40.2	41.1	-	30.0	31.1	31.8	32.5	-
3599	Machinery, except electrical, nec.....	213.9	218.5	231.8	236.0	-	163.3	167.1	178.0	181.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	1,922.3	1,925.1	2,006.8	2,018.7	2,019.8	1,271.1	1,272.0	1,318.8	1,329.6	1,332.4
361	Electric distributing equipment.....	121.2	121.1	121.2	121.8	-	80.3	86.6	86.9	87.5	-
3612	Transformers.....	55.4	55.9	57.2	57.7	-	39.1	39.6	40.7	41.1	-
3613	Switchgear and switchboard apparatus.....	65.8	65.2	64.0	64.1	-	47.7	47.0	46.2	46.4	-
362	Electrical industrial apparatus.....	236.4	237.3	245.8	248.0	-	169.5	170.4	176.4	178.3	-
3621	Motors and generators.....	128.1	129.4	132.0	133.0	-	96.5	97.1	99.3	100.5	-
3622	Industrial controls.....	65.4	64.6	68.6	69.1	-	42.3	42.3	44.6	44.8	-
363	Household appliances.....	186.2	185.4	182.3	175.0	-	146.2	145.3	143.9	137.3	-
3632	Household refrigerators and freezers.....	44.7	45.0	42.1	38.7	-	35.1	35.3	32.7	29.7	-
3633	Household laundry equipment.....	21.8	22.0	22.2	21.5	-	16.8	17.0	17.3	16.7	-
3634	Electric housewares and fans.....	55.7	54.3	54.0	52.8	-	43.8	42.7	43.7	42.5	-
364	Electric lighting and wiring equipment.....	210.5	211.2	220.5	222.4	-	160.9	160.6	167.7	169.6	-
3641	Electric lamps.....	38.6	38.7	38.9	39.2	-	34.0	34.0	34.1	34.5	-
3643	Current-carrying wiring devices.....	84.4	84.7	91.8	92.4	-	59.9	59.8	65.2	65.7	-
3644	Noncurrent-carrying wiring devices.....	24.0	24.2	23.2	23.5	-	17.9	18.0	16.9	17.2	-
3645	Residential lighting fixtures.....	24.1	24.0	25.2	25.2	-	19.0	18.7	19.6	19.5	-
365	Radio and TV receiving equipment.....	130.9	129.2	126.2	126.1	-	98.0	97.1	94.4	94.6	-
3651	Radio and TV receiving sets.....	100.7	99.3	99.9	99.9	-	73.3	72.6	73.3	73.6	-
366	Communication equipment.....	472.8	474.9	500.9	506.5	-	232.0	232.9	245.2	250.5	-
3661	Telephone and telegraph apparatus.....	151.6	152.0	152.8	153.5	-	103.5	103.9	105.7	106.6	-
3662	Radio and TV communication equipment.....	321.2	322.9	348.1	353.0	-	128.5	129.0	139.5	143.9	-
367	Electronic components and accessories.....	408.6	409.7	449.6	456.7	-	257.1	258.1	282.5	288.3	-
3671-3	Electronic tubes.....	41.4	41.6	43.4	43.8	-	26.8	26.9	28.4	28.6	-
3674	Semiconductors and related devices.....	150.8	150.0	170.5	174.2	-	71.9	71.1	80.7	83.6	-
3679	Electronic components, nec.....	158.6	159.9	173.7	175.9	-	112.2	113.3	123.4	125.3	-
369	Misc. electrical equipment and supplies.....	155.7	156.3	160.3	162.2	-	120.6	121.0	121.8	123.5	-
3691	Storage batteries.....	28.2	28.3	29.4	29.8	-	22.9	23.0	23.4	23.9	-
3694	Engine electrical equipment.....	77.6	78.1	80.5	81.2	-	62.3	62.8	63.8	64.5	-
37	TRANSPORTATION EQUIPMENT.....	1,878.8	1,916.1	2,010.7	2,029.0	2,046.1	1,303.2	1,330.7	1,397.6	1,414.0	1,432.2
371	Motor vehicles and equipment.....	977.3	992.0	1,006.5	1,015.0	-	765.2	777.9	789.1	799.0	-
3711	Motor vehicles and car bodies.....	457.3	468.2	464.2	466.6	-	344.8	354.4	348.3	351.3	-
3713	Truck and bus bodies.....	49.0	49.5	53.5	54.0	-	39.0	39.3	43.3	43.9	-
3714	Motor vehicle parts and accessories.....	443.8	446.4	457.3	462.3	-	360.3	362.5	372.6	378.4	-
3715	Truck trailers.....	27.2	27.9	31.5	32.1	-	21.1	21.7	24.9	25.4	-
372	Aircraft and parts.....	461.9	481.4	553.1	564.5	-	229.1	243.2	293.0	300.2	-
3721	Aircraft.....	249.5	266.7	320.8	327.7	-	104.3	116.7	154.6	159.1	-
3724	Aircraft engines and engine parts.....	124.5	125.9	134.5	137.1	-	70.2	71.1	75.8	77.0	-
3728	Aircraft equipment, nec.....	87.9	88.8	97.8	99.7	-	54.6	55.4	62.6	64.1	-
373	Ship and boat building and repairing.....	226.9	227.7	216.0	215.2	-	182.6	183.4	173.5	(*)	-
3731	Ship building and repairing.....	180.4	181.5	167.7	166.9	-	144.6	145.5	133.7	(*)	-
3732	Boat building and repairing.....	46.5	46.2	48.3	48.3	-	38.0	37.9	39.8	39.8	-
374	Railroad equipment.....	50.0	50.3	60.2	61.4	-	36.4	36.5	45.9	47.0	-
376	Guided missiles, space vehicles, parts.....	77.5	81.9	83.0	82.8	-	24.3	26.5	25.4	25.6	-
3761	Guided missiles and space vehicles.....	59.1	63.1	63.0	62.6	-	16.5	18.4	17.1	17.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	67.6	67.3	75.4	73.6	—	51.4	51.1	57.9	56.7	—
3792	Travel trailers and campers	45.5	45.3	49.8	47.8	—	36.1	35.9	39.8	38.5	—
38	INSTRUMENTS AND RELATED PRODUCTS	625.6	629.7	666.6	674.4	677.8	382.6	385.6	409.2	416.4	421.0
381	Engineering and scientific instruments	65.2	65.8	69.6	70.3	—	31.2	31.7	34.7	35.8	—
382	Measuring and controlling devices	204.0	206.4	218.5	221.8	—	129.3	131.3	139.3	141.9	—
3822	Environmental controls	48.4	49.2	48.9	48.6	—	33.7	34.4	33.7	33.7	—
3823	Process control instruments	46.9	47.1	49.1	49.7	—	24.9	24.9	26.3	26.7	—
3825	Instruments to measure electricity	73.3	74.4	85.3	86.4	—	45.5	46.4	54.4	55.1	—
383	Optical instruments and lenses	26.4	26.4	28.7	29.3	—	15.5	15.3	16.3	17.1	—
384	Medical instruments and supplies	131.5	133.0	144.7	147.6	—	88.3	89.6	96.1	98.9	—
3841	Surgical and medical instruments	51.6	52.3	59.2	61.3	—	34.7	35.2	39.2	41.5	—
3842	Surgical appliances and supplies	62.6	63.2	67.2	67.8	—	42.2	42.8	45.1	45.4	—
385	Ophthalmic goods	41.1	41.2	41.6	41.4	—	30.5	30.5	30.7	30.6	—
386	Photographic equipment and supplies	128.5	128.2	133.4	134.0	—	65.5	65.2	68.7	69.0	—
387	Watches, clocks, and watchcases	28.9	28.7	30.1	30.0	—	22.3	22.0	23.4	23.1	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	452.9	440.5	475.5	471.2	452.1	346.9	335.3	365.8	361.6	343.1
391	Jewelry, silverware, and plated ware	63.6	62.8	63.8	63.6	—	47.0	46.3	47.4	47.1	—
3911	Jewelry, precious metal	41.2	40.8	40.3	40.4	—	29.8	29.4	29.3	29.4	—
393	Musical instruments	23.7	23.9	26.0	26.4	—	19.1	19.3	21.2	21.6	—
394	Toys and sporting goods	122.0	109.3	125.2	120.8	—	93.7	81.9	98.2	94.1	—
3942, 4	Dolls, games, toys, and children's vehicles	57.8	45.4	64.4	60.8	—	43.0	31.3	50.2	46.6	—
3949	Sporting and athletic goods, nec	64.2	63.9	60.8	60.0	—	50.7	50.6	48.0	47.5	—
395	Pens, pencils, office and art supplies	35.1	34.6	35.3	35.4	—	25.4	24.9	25.4	25.5	—
396	Costume jewelry and notions	66.2	67.3	73.7	74.3	—	53.9	54.7	59.7	60.9	—
3961	Costume jewelry	36.4	37.3	41.9	42.2	—	30.0	30.8	34.2	35.1	—
399	Miscellaneous manufactures	142.3	142.6	151.5	150.7	—	107.8	108.2	113.9	112.4	—
3993	Signs and advertising displays	50.5	51.7	54.2	54.2	—	36.1	37.2	39.2	39.0	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,709.4	1,680.0	1,735.6	1,709.0	1,689.4	1,159.5	1,132.4	1,188.1	1,164.3	1,145.9
201	Meat products	357.9	356.2	361.5	365.2	—	295.9	294.1	300.2	303.5	—
2011	Meat packing plants	172.2	171.6	170.7	172.5	—	139.2	138.6	138.3	139.9	—
2013	Sausages and other prepared meats	69.7	70.0	68.9	69.3	—	51.0	51.2	50.6	51.2	—
2016	Poultry dressing plants	101.9	100.5	107.5	108.4	—	93.1	91.8	98.5	99.2	—
202	Dairy products	188.9	188.1	190.3	188.7	—	98.2	97.9	99.2	99.1	—
2022	Cheese, natural and processed	31.2	31.5	31.7	31.6	—	24.1	24.3	24.7	24.6	—
2026	Fluid milk	122.9	122.3	122.1	121.5	—	52.9	52.8	52.4	52.6	—
203	Preserved fruits and vegetables	228.8	205.3	242.7	218.5	—	184.5	162.3	199.7	176.4	—
2032	Canned specialties	28.4	28.9	29.0	28.6	—	20.0	20.1	20.7	19.8	—
2033	Canned fruits and vegetables	84.0	67.3	93.5	76.1	—	67.7	52.2	77.1	61.0	—
2037	Frozen fruits and vegetables	44.8	40.7	43.0	41.2	—	38.9	35.1	37.8	36.1	—
204	Grain mill products	144.6	144.0	147.0	146.0	—	98.2	97.4	100.2	99.5	—
2041	Flour and other grain mill products	24.6	24.7	24.8	24.8	—	16.2	16.2	15.7	15.8	—
2048	Prepared feeds, nec	61.1	61.1	62.3	62.0	—	37.9	37.8	39.8	39.6	—
205	Bakery products	233.8	233.1	228.9	229.4	—	135.5	135.6	133.1	133.6	—
2051	Bread, cake, and related products	194.4	194.2	188.3	139.1	—	104.3	104.7	100.9	101.7	—
2052	Cookies and crackers	39.4	38.9	40.6	40.3	—	31.2	30.9	32.2	31.9	—
206	Sugar and confectionery products	116.8	116.5	118.5	118.9	—	92.4	91.4	92.9	92.8	—
2061-3	Cane and beet sugar	36.5	38.2	38.3	38.6	—	29.1	30.2	29.3	29.4	—
2065	Confectionery products	60.6	58.6	59.6	60.1	—	49.5	47.4	48.5	48.8	—
207	Fats and oils	43.2	42.8	40.3	40.8	—	31.3	31.4	29.1	29.6	—
208	Beverages	229.3	228.9	230.4	229.0	—	107.1	106.5	108.0	106.6	—
2082	Malt beverages	50.4	50.6	49.3	48.9	—	33.8	34.1	33.1	32.8	—
2086	Bottled and canned soft drinks	133.8	134.2	138.4	138.4	—	47.8	48.0	49.1	48.5	—
209	Misc. foods and kindred products	166.1	165.1	176.0	172.5	—	116.4	115.8	125.7	123.2	—
21	TOBACCO MANUFACTURES	77.4	78.4	78.6	76.8	75.3	62.4	63.4	63.8	62.1	61.0
211	Cigarettes	49.5	49.7	49.2	49.4	—	38.7	38.9	38.5	38.7	—
22	TEXTILE MILL PRODUCTS	920.6	916.5	910.4	912.3	910.5	801.4	797.5	792.8	795.6	793.7
221	Weaving mills, cotton	159.7	160.3	152.5	153.2	—	143.8	144.4	137.2	138.0	—
222	Weaving mills, synthetics	124.7	125.1	121.4	121.6	—	111.6	111.9	108.5	108.8	—
223	Weaving and finishing mills, wool	20.3	20.6	20.8	20.9	—	16.9	17.1	17.4	17.4	—
224	Narrow fabric mills	26.0	26.3	26.2	26.3	—	22.7	23.0	22.9	23.1	—
225	Knitting mills	240.4	234.4	243.2	239.6	—	207.3	201.7	210.2	207.4	—
2251	Women's hosiery, except socks	28.7	28.9	30.7	31.2	—	25.4	25.6	27.5	28.0	—
2252	Hosiery, nec	35.2	35.1	35.2	35.4	—	32.0	31.8	32.0	32.2	—
2253	Knit outerwear mills	78.5	73.1	76.5	74.1	—	67.0	61.7	65.1	63.3	—
2254	Knit underwear mills	35.5	35.5	37.8	37.6	—	30.5	30.6	32.5	32.3	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p
TEXTILE MILL PRODUCTS—Continued											
2257	Circular knit fabric mills	36.7	36.3	37.1	36.3	--	30.6	30.3	31.2	30.4	--
226	Textile finishing, except wool	81.3	80.9	76.9	79.9	--	68.9	68.6	64.9	67.8	--
2261	Finishing plants, cotton	33.5	33.8	33.5	33.7	--	28.0	28.3	28.1	28.2	--
2262	Finishing plants, synthetics	30.4	30.3	27.0	29.8	--	26.0	26.1	22.8	25.5	--
227	Floor covering mills	61.4	61.4	63.7	63.6	--	49.9	49.8	51.9	52.0	--
228	Yarn and thread mills	134.2	135.1	134.5	135.6	--	122.3	123.1	122.5	123.5	--
2281	Yarn mills, except wool	88.2	88.3	90.0	90.4	--	81.6	81.8	83.2	83.6	--
2282	Throwing and winding mills	22.5	22.3	21.9	21.9	--	20.1	19.8	19.6	19.5	--
229	Miscellaneous textile goods	72.6	72.4	71.2	71.6	--	58.0	57.9	57.3	57.6	--
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,333.7	1,313.6	1,326.1	1,323.3	1,307.8	1,143.4	1,124.9	1,140.7	1,137.0	1,120.3
231	Men's and boys' suits and coats	89.9	90.8	88.5	88.2	--	78.7	79.4	77.5	77.2	--
232	Men's and boys' furnishings	378.6	374.8	366.9	367.8	--	327.3	323.6	317.0	317.4	--
2321	Men's and boys' shirts and nightwear	104.5	102.9	105.7	104.6	--	90.7	89.2	91.9	90.9	--
2327	Men's and boys' separate trousers	88.5	88.3	84.2	83.9	--	77.8	77.5	73.7	73.3	--
2328	Men's and boys' work clothing	100.5	100.3	91.9	95.6	--	85.3	85.2	77.9	81.2	--
233	Women's and misses' outerwear	426.0	413.1	430.3	427.4	--	366.7	354.4	372.4	369.4	--
2331	Women's and misses' blouses and waists	57.4	56.9	59.6	60.1	--	50.2	49.8	52.5	52.8	--
2335	Women's and misses' dresses	159.2	152.4	160.8	158.9	--	140.1	133.9	142.4	140.4	--
2337	Women's and misses' suits and coats	66.4	61.1	66.3	63.5	--	56.7	51.4	57.1	54.5	--
2339	Women's and misses' outerwear, nec.	143.0	142.7	143.6	144.9	--	119.7	119.3	120.4	121.7	--
234	Women's and children's undergarments	97.2	96.3	94.1	93.6	--	83.3	82.6	80.4	80.0	--
2341	Women's and children's underwear	76.3	75.5	74.9	74.4	--	66.5	65.9	65.2	64.7	--
2342	Brassieres and allied garments	20.9	20.8	19.2	19.2	--	16.8	16.7	15.2	15.3	--
236	Children's outerwear	67.8	67.8	68.3	67.5	--	57.2	57.6	58.3	57.5	--
2361	Children's dresses and blouses	26.6	26.5	25.5	25.6	--	23.8	23.8	22.8	23.1	--
238	Misc. apparel and accessories	63.0	60.5	61.3	61.4	--	54.3	51.7	52.8	52.9	--
239	Misc. fabricated textile products	191.8	190.9	196.6	197.5	--	159.1	158.9	164.8	165.3	--
2391	Curtains and draperies	31.7	31.9	30.9	30.7	--	27.7	27.8	27.1	26.9	--
2392	House furnishings, nec.	52.6	52.5	52.8	52.8	--	43.4	43.7	44.2	44.2	--
2396	Automotive and apparel trimmings	35.7	36.0	38.1	38.1	--	29.8	30.5	31.9	32.0	--
26	PAPER AND ALLIED PRODUCTS	697.0	697.5	695.7	704.1	701.6	522.8	523.0	522.3	531.5	531.0
261, 2.6	Paper and pulp mills	205.4	206.1	191.2	199.6	--	156.3	157.2	141.5	150.1	--
262	Paper mills, except building paper	177.1	177.7	164.8	173.2	--	134.0	134.8	120.8	129.5	--
263	Paperboard mills	66.1	66.6	67.4	67.2	--	51.9	52.1	52.9	52.9	--
264	Misc. converted paper products	211.7	210.8	216.9	216.6	--	149.5	148.7	156.9	156.9	--
2641	Paper coating and glazing	55.0	55.0	57.3	56.9	--	26.8	26.7	33.1	33.5	--
2642	Envelopes	24.2	24.3	24.4	24.5	--	19.3	19.3	19.3	19.1	--
2643	Bags, except textile bags	48.0	48.4	49.9	50.5	--	38.3	38.6	38.9	39.3	--
265	Paperboard containers and boxes	213.8	214.0	220.2	220.7	--	165.1	165.0	171.0	171.6	--
2651	Folding paperboard boxes	41.8	42.0	43.5	43.2	--	33.1	33.3	34.8	34.6	--
2653	Corrugated and solid fiber boxes	106.4	106.4	110.0	110.3	--	78.5	78.4	81.9	82.1	--
2654	Sanitary food containers	32.7	32.8	33.4	33.8	--	27.1	27.2	27.7	28.1	--
27	PRINTING AND PUBLISHING	1,155.4	1,165.4	1,188.1	1,201.9	1,217.7	653.7	661.0	665.9	676.0	690.9
271	Newspapers	401.1	402.8	403.9	413.6	--	169.3	169.2	160.4	167.9	--
272	Periodicals	76.3	76.3	80.4	80.8	--	15.0	15.0	13.9	14.0	--
273	Books	98.8	101.4	100.5	102.1	--	49.4	51.3	49.4	50.8	--
2731	Book publishing	68.2	70.3	70.1	71.1	--	23.4	24.9	23.9	24.7	--
2732	Book printing	30.6	31.1	30.4	31.0	--	26.0	26.4	25.5	26.1	--
274	Miscellaneous publishing	44.3	45.1	46.5	47.0	--	24.3	25.9	28.4	29.1	--
275	Commercial printing	371.0	375.2	386.2	387.9	--	274.6	278.8	286.0	287.2	--
2751	Commercial printing, letterpress	161.3	163.5	167.8	168.6	--	120.4	122.2	124.8	125.3	--
2752	Commercial printing, lithographic	186.9	188.8	197.3	197.9	--	135.7	137.9	143.8	144.3	--
276	Manifold business forms	42.6	43.5	45.6	46.0	--	30.4	31.0	33.1	33.4	--
278	Blankbooks and bookbinding	58.8	58.8	62.4	62.2	--	48.2	47.9	51.5	51.0	--
279	Printing trade services	39.1	39.4	39.6	39.9	--	29.0	29.1	29.0	29.0	--
28	CHEMICALS AND ALLIED PRODUCTS	1,073.9	1,072.9	1,091.9	1,094.7	1,091.2	613.0	614.1	625.8	625.6	626.0
281	Industrial inorganic chemicals	163.7	163.4	165.0	165.0	--	94.3	94.0	92.0	92.0	--
2819	Industrial inorganic chemicals, nec.	106.4	107.1	109.3	109.4	--	58.7	59.3	60.3	60.4	--
282	Plastics materials and synthetics	211.7	212.5	213.7	214.7	--	140.6	141.9	145.2	146.2	--
2821	Plastics materials and resins	83.0	83.6	84.2	84.5	--	51.2	51.9	51.8	52.1	--
2824	Organic fibers, noncellulosic	94.4	94.8	94.7	95.1	--	65.8	66.4	67.8	68.2	--
283	Drugs	181.7	181.1	184.7	186.0	--	89.0	89.0	87.9	88.7	--
2834	Pharmaceutical preparations	145.1	144.5	147.4	148.6	--	68.5	68.4	67.1	67.9	--
284	Soap, cleaners, and toilet goods	130.8	129.3	138.6	137.6	--	79.5	77.9	85.8	84.5	--
2841	Soap and other detergents	40.6	39.7	41.1	41.4	--	26.0	25.3	26.5	27.0	--
2842, 3	Polishing, sanitation, and finishing preparations	36.5	36.5	38.1	38.2	--	20.1	20.0	21.7	21.6	--
2844	Toilet preparations	53.7	53.1	59.4	58.0	--	33.4	32.6	37.6	35.9	--
285	Paints and allied products	66.2	66.6	70.1	71.1	--	34.4	35.4	36.6	36.3	--
286	Industrial organic chemicals	165.7	165.4	163.3	163.3	--	84.7	84.8	85.0	84.4	--

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]											
1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.7	35.6	35.5	35.7	-	21.7	21.8	22.4	22.5	-
2861,9	Gum, wood, and industrial organic chemicals, nec	130.0	129.8	127.8	127.6	-	63.0	63.0	62.6	61.9	-
287	Agricultural chemicals	67.2	67.6	68.6	68.6	-	40.8	41.5	43.3	43.4	-
289	Miscellaneous chemical products	86.9	87.0	87.9	88.1	-	49.7	49.6	50.0	50.1	-
29	PETROLEUM AND COAL PRODUCTS	205.4	203.5	212.0	210.7	208.6	134.8	132.2	139.0	138.9	138.4
291	Petroleum refining	160.9	161.2	163.3	163.1	-	101.5	101.3	102.8	103.5	-
295	Paving and roofing materials	33.1	30.9	37.0	36.0	-	25.6	23.3	28.9	28.2	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	733.0	732.9	762.9	767.5	766.2	574.3	573.7	599.2	604.2	603.4
301	Tires and inner tubes	129.0	128.1	126.3	127.2	-	94.3	93.3	91.6	92.2	-
302	Rubber and plastics footwear	23.1	23.6	24.1	23.8	-	20.1	20.6	21.1	20.8	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	24.1	24.3	22.4	22.1	-	18.3	18.5	16.7	16.6	-
306	Fabricated rubber products, nec	112.7	112.7	113.0	114.7	-	88.2	88.2	89.0	90.5	-
307	Miscellaneous plastics products	444.1	444.2	477.1	479.7	-	353.4	353.1	380.8	384.1	-
31	LEATHER AND LEATHER PRODUCTS	255.3	252.2	250.4	249.0	246.2	219.0	216.0	214.3	212.7	208.8
311	Leather tanning and finishing	22.6	22.7	21.3	20.9	-	19.3	19.4	18.0	17.6	-
314	Footwear, except rubber	157.1	156.8	154.1	153.9	-	137.1	136.7	133.7	133.3	-
3143	Men's footwear, except athletic	65.0	64.7	62.2	61.6	-	57.5	57.4	54.8	54.1	-
3144	Women's footwear, except athletic	60.7	61.5	61.3	61.5	-	52.1	52.6	52.7	52.9	-
316	Luggage	17.6	16.8	17.9	17.9	-	13.5	12.8	13.9	13.8	-
317	Handbags and personal leather goods	33.0	30.8	31.8	31.1	-	27.4	25.4	26.9	26.3	-
-	TRANSPORTATION AND PUBLIC UTILITIES	4,760	4,773	4,952	4,970	4,990	4,035	4,048	4,154	4,170	4,189
40	RAILROAD TRANSPORTATION	546.7	534.1	551.4	549.9	-	-	-	-	-	-
4011	Class I railroads ² , *	504.9	493.0	508.5	507.5	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	264.2	265.1	266.4	268.7	-	242.9	244.0	246.6	248.0	-
411	Local and suburban transportation	72.9	73.1	72.0	72.7	-	66.8	67.1	66.8	67.4	-
412	Taxis	68.2	68.9	67.0	68.0	-	-	-	-	-	-
413	Intercity highway transportation	36.2	36.4	37.1	37.1	-	32.9	33.3	34.0	34.0	-
415	School buses	75.0	75.3	75.9	76.7	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,242.0	1,250.6	1,299.3	1,308.3	-	1,101.1	1,109.9	1,152.4	1,160.7	-
421,3	Trucking and trucking terminals	1,153.1	1,163.5	1,211.2	1,220.4	-	1,023.9	1,034.6	1,076.0	1,084.7	-
422	Public warehousing	88.9	87.1	88.1	87.9	-	77.2	75.3	76.4	76.0	-
44	WATER TRANSPORTATION	195.1	203.2	209.0	207.5	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	388.3	390.8	396.7	401.2	-	-	-	-	-	-
451,2	Air transportation	346.3	348.2	352.0	356.3	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	18.8	18.8	18.9	18.9	-	13.6	13.5	13.6	13.5	-
47	TRANSPORTATION SERVICES	159.3	161.2	173.3	173.5	-	-	-	-	-	-
48	COMMUNICATION	1,193.8	1,195.3	1,254.3	1,258.0	-	908.6	909.7	948.0	950.3	-
481	Telephone communication	964.4	964.7	1,009.7	1,013.0	-	722.6	722.0	748.8	750.5	-
483	Radio and television broadcasting	170.9	172.2	179.7	180.3	-	135.0	136.6	142.5	143.2	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	752.2	754.2	782.2	783.6	-	619.8	621.1	637.5	638.4	-
491	Electric services	341.7	343.3	362.5	362.9	-	278.0	279.8	292.7	292.8	-
492	Gas production and distribution	157.5	157.6	160.4	160.7	-	129.3	129.3	131.0	131.4	-
493	Combination utility services	188.9	188.9	189.8	190.2	-	156.7	156.2	154.0	153.9	-
495	Sanitary services	41.3	41.4	44.6	44.8	-	36.9	36.7	39.3	39.7	-
-	WHOLESALE AND RETAIL TRADE	19,088	19,568	19,701	19,967	20,378	16,851	17,319	17,365	17,612	17,990
50,51	WHOLESALE TRADE	4,780	4,797	4,970	4,987	5,004	3,941	3,955	4,099	4,111	4,113
50	WHOLESALE TRADE - DURABLE GOODS	2,757	2,767	2,900	2,922	-	2,273	2,281	2,382	2,400	-
501	Motor vehicles and automotive equipment	404.3	407.1	426.2	429.4	-	332.5	334.5	349.5	351.9	-
502	Furniture and home furnishing	97.1	97.0	100.7	101.7	-	79.1	79.1	81.7	82.3	-
503	Lumber and construction materials	169.2	168.8	177.9	178.6	-	141.0	140.4	148.7	149.4	-
504	Sporting goods, toys, and hobby goods	63.1	63.5	62.8	63.5	-	-	52.9	52.2	52.6	-
505	Metals and minerals, except petroleum	132.1	132.2	140.8	141.1	-	106.8	106.9	114.5	114.6	-
506	Electrical goods	381.6	383.4	401.5	405.1	-	315.8	316.8	330.1	334.2	-
507	Hardware, plumbing, and heating equipment	223.5	223.9	236.7	238.2	-	186.6	187.1	196.5	197.0	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,099.1	1,102.4	1,158.5	1,165.2	-	902.9	905.6	945.2	949.9	-
509	Miscellaneous durable goods	186.5	188.5	194.7	199.5	-	155.9	157.4	163.6	168.4	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,023	2,030	2,070	2,065	-	1,668	1,674	1,717	1,711	-
511	Paper and paper products	128.8	129.9	133.6	134.9	-	105.7	106.6	108.5	109.4	-
512	Drugs, proprietaries, and sundries	132.9	132.1	138.7	139.3	-	113.5	113.0	118.6	119.5	-
513	Apparel, piece goods, and notions	158.6	156.7	161.0	161.0	-	125.6	123.7	128.4	128.1	-
514	Groceries and related products	618.8	623.5	625.4	618.8	-	533.2	538.0	545.6	538.9	-
516	Chemical and allied products	115.3	115.5	116.0	116.3	-	81.2	81.3	83.3	83.6	-
517	Petroleum and petroleum products	226.7	228.4	221.7	222.4	-	176.9	178.4	168.0	167.8	-
518	Beer, wine, and distilled beverages	126.5	128.9	133.3	134.9	-	107.3	109.6	113.3	114.9	-
519	Miscellaneous nondurable goods	352.4	354.0	364.0	363.1	-	291.1	291.9	301.6	301.1	-
52-59	RETAIL TRADE	14,308	14,771	14,731	14,980	15,374	12,910	13,364	13,266	13,501	13,877
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	577.6	576.7	597.5	599.6	-	492.6	491.5	511.5	513.7	-
521	Lumber and other building materials	310.2	307.5	321.6	320.8	-	266.0	263.0	277.4	276.6	-
525	Hardware stores	141.5	145.4	142.7	145.4	-	122.1	125.6	122.2	124.9	-
53	GENERAL MERCHANDISE STORES	2,418.7	2,628.2	2,351.1	2,480.3	-	2,244.9	2,455.6	2,193.4	2,322.1	-
531	Department stores	1,971.4	2,145.5	1,903.3	2,015.8	-	1,840.2	2,015.8	1,788.5	1,900.9	-
533	Variety stores	304.3	325.3	296.7	307.6	-	282.6	303.3	275.4	286.3	-
539	Misc. general merchandise stores	143.0	157.4	151.1	156.9	-	122.1	136.5	129.5	134.9	-
54	FOOD STORES	2,161.9	2,195.0	2,235.3	2,272.2	-	1,995.8	2,027.7	2,060.8	2,096.4	-
541	Grocery stores	1,891.0	1,917.6	1,967.8	1,996.8	-	1,749.4	1,774.3	1,817.3	1,844.8	-
542	Meat markets and freezer provisioners	51.0	51.4	47.7	48.5	-	-	-	-	-	-
546	Retail bakeries	116.6	118.5	118.5	120.3	-	107.1	108.9	108.9	110.8	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,818.8	1,817.3	1,876.0	1,877.6	-	1,570.1	1,567.4	1,610.9	1,610.5	-
551.2	New and used car dealers	860.9	861.6	895.7	898.0	-	720.3	719.9	748.6	748.9	-
553	Auto and home supply stores	246.5	247.3	253.9	254.8	-	217.0	217.6	221.0	222.3	-
554	Gasoline service stations	637.7	634.7	649.0	648.5	-	571.5	568.3	575.3	574.4	-
56	APPAREL AND ACCESSORY STORES	899.1	993.5	890.0	931.7	-	782.7	876.2	768.0	810.0	-
561	Men's and boys' clothing and furnishings	142.3	162.6	139.9	147.7	-	121.9	141.9	119.3	125.9	-
562	Women's ready-to-wear stores	335.3	366.6	330.8	344.0	-	293.2	324.9	287.7	301.8	-
565	Family clothing stores	160.9	185.8	159.2	170.2	-	143.5	167.9	140.3	151.2	-
566	Shoe stores	170.9	182.0	173.6	178.9	-	144.8	155.7	145.3	150.5	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	589.0	603.6	598.6	611.0	-	495.4	508.7	496.9	509.4	-
571	Furniture and home furnishings	356.4	360.8	359.9	364.7	-	302.7	307.1	303.0	307.8	-
572	Household appliance stores	87.5	89.5	89.1	91.9	-	75.6	77.6	75.9	78.3	-
573	Radio, television, and music stores	145.1	153.3	149.6	154.4	-	117.1	124.0	118.0	123.3	-
58	EATING AND DRINKING PLACES	4,033.2	4,036.4	4,371.0	4,335.4	-	3,735.2	3,737.8	4,027.8	3,983.5	-
59	MISCELLANEOUS RETAIL	1,809.3	1,919.8	1,811.4	1,871.8	-	1,593.6	1,699.4	1,596.5	1,655.6	-
591	Drug stores and proprietary stores	492.3	547.1	505.9	511.5	-	447.3	498.2	461.0	466.6	-
592	Liquor stores	115.7	121.1	121.5	125.5	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	514.9	542.4	510.9	539.2	-	444.9	472.3	438.6	464.6	-
596	Nonstore retailers	297.5	303.0	289.6	304.2	-	275.9	281.7	271.1	285.5	-
598	Fuel and ice dealers	104.8	109.0	100.3	103.7	-	88.8	93.2	84.9	88.3	-
599	Retail stores, nec.	232.3	246.0	229.9	233.8	-	196.7	209.7	194.2	199.0	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE	4,521	5,533	4,732	4,761	4,774	3,435	3,443	3,599	3,625	3,636
60	BANKING	1,372.7	1,379.6	1,434.3	1,442.8	-	1,077.2	1,082.6	1,118.1	1,124.8	-
602	Commercial and stock savings banks	1,252.0	1,258.3	1,309.1	1,316.8	-	979.9	984.6	1,016.1	1,022.2	-
61	CREDIT AGENCIES OTHER THAN BANKS	479.2	482.0	505.8	509.8	-	367.4	369.7	389.6	393.0	-
612	Savings and loan associations	202.5	204.7	218.3	219.6	-	159.1	160.7	170.6	171.9	-
614	Personal credit institutions	191.2	191.8	198.5	200.8	-	143.4	144.0	151.2	153.1	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	181.3	182.4	192.8	195.0	-	-	-	-	-	-
621	Security brokers and dealers	148.4	149.4	158.0	160.0	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,164.1	1,167.6	1,203.2	1,208.7	-	811.3	813.2	842.8	845.6	-
531	Life insurance	521.5	522.7	520.4	520.9	-	310.9	311.9	312.2	311.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	134.9	135.8	140.1	140.9	—	109.9	110.8	112.9	113.8	—
633	Fire, marine, and casualty insurance	440.3	441.5	469.9	473.8	—	335.4	335.2	357.8	359.9	—
64	INSURANCE AGENTS, BROKERS, AND SERVICE	376.9	376.8	401.5	404.2	—	—	—	—	—	—
65	REAL ESTATE	820.2	817.8	865.0	869.7	—	—	—	—	—	—
651	Real estate operators and lessors	417.6	417.6	431.4	435.1	—	—	—	—	—	—
653	Real estate agents and managers	275.9	276.3	296.1	295.5	—	—	—	—	—	—
655	Subdividers and developers	103.8	100.7	112.5	113.8	—	—	—	—	—	—
66	COMBINED REAL ESTATE, INSURANCE, ETC.	29.6	29.8	29.9	30.0	—	—	—	—	—	—
67	HOLDING AND OTHER INVESTMENT OFFICES.	96.8	97.1	99.6	101.1	—	—	—	—	—	—
—	SERVICES	15,537	15,540	16,201	16,228	16,215	13,889	13,882	14,379	14,403	14,389
70	HOTELS AND OTHER LODGING PLACES	920.0	905.2	939.6	914.5	—	—	—	—	—	—
701	Hotels, motels, and tourist courts	885.1	872.4	906.9	883.5	—	812.5	800.4	834.1	811.0	—
72	PERSONAL SERVICES	895.1	898.5	899.1	899.4	—	—	—	—	—	—
721	Laundry, cleaning, and garment services	356.4	356.3	355.3	355.2	—	317.7	317.2	316.5	316.2	—
723	Beauty shops	280.0	283.0	281.9	280.2	—	256.6	259.5	259.5	257.8	—
726	Funeral service and crematories	68.6	68.8	70.3	70.5	—	—	—	—	—	—
73	BUSINESS SERVICES	2,436.7	2,455.3	2,637.6	2,660.7	—	2,121.9	2,139.0	2,298.1	2,315.4	—
731	Advertising	134.0	134.5	145.5	146.6	—	99.0	100.1	107.2	108.1	—
732	Credit reporting and collection	84.1	84.3	87.8	87.6	—	—	—	—	—	—
733	Mailing, reproduction, stenographic	96.2	96.9	104.7	107.5	—	—	—	—	—	—
734	Services to buildings	433.3	437.3	457.9	457.1	—	390.2	393.4	411.4	410.6	—
736	Personnel supply services	381.3	396.0	429.7	435.1	—	—	—	—	—	—
737	Computer and data processing services	193.2	194.7	217.5	220.8	—	157.9	159.6	179.6	182.2	—
75	AUTO REPAIR, SERVICES, AND GARAGES	503.9	505.6	525.2	523.9	—	433.8	435.3	452.1	450.8	—
753	Automotive repair shops	307.9	306.8	323.6	317.9	—	262.0	260.7	276.9	271.9	—
76	MISCELLANEOUS REPAIR SERVICES	242.3	242.9	246.0	246.9	—	209.2	209.7	210.1	211.1	—
78	MOTION PICTURES	221.2	221.8	221.4	218.5	—	196.0	195.8	195.8	192.3	—
781	Motion picture production and services	90.6	93.8	87.1	88.0	—	79.1	82.1	75.9	75.8	—
783	Motion picture theaters	120.3	117.7	124.0	120.2	—	—	—	—	—	—
79	AMUSEMENT AND RECREATION SERVICES	618.6	613.4	666.8	636.2	—	555.8	551.2	600.8	571.0	—
80	HEALTH SERVICES	4,639.9	4,649.3	4,817.8	4,841.9	—	4,145.6	4,152.8	4,290.4	4,310.4	—
801	Offices of physicians	660.1	664.7	689.8	691.9	—	548.8	552.1	566.8	566.7	—
802	Offices of dentists	284.5	285.6	287.4	292.1	—	252.2	252.7	250.0	254.8	—
805	Nursing and personal care facilities	869.7	871.7	918.6	922.3	—	786.8	787.8	828.3	830.8	—
806	Hospitals	2,492.1	2,490.9	2,570.4	2,579.8	—	2,265.3	2,265.7	2,344.6	2,353.3	—
81	LEGAL SERVICES	402.8	404.2	429.4	433.7	—	350.7	352.3	370.5	374.1	—
82	EDUCATIONAL SERVICES	1,113.9	1,091.2	1,087.3	1,103.3	—	—	—	—	—	—
821	Elementary and secondary schools	236.8	236.3	234.8	239.9	—	—	—	—	—	—
822	Colleges and universities	774.4	753.3	747.6	757.4	—	—	—	—	—	—
83	SOCIAL SERVICES	873.3	881.2	952.3	959.9	—	—	—	—	—	—
86	MEMBERSHIP ORGANIZATIONS	1,512.4	1,520.4	1,534.4	1,543.9	—	—	—	—	—	—
89	MISCELLANEOUS SERVICES	802.3	807.8	871.3	880.6	—	669.3	673.6	720.0	729.3	—
891	Engineering and architectural services	435.0	437.2	472.1	477.0	—	367.9	369.9	397.8	401.8	—
893	Accounting, auditing, and bookkeeping	254.5	258.0	274.1	276.8	—	206.6	209.2	217.3	220.4	—
—	GOVERNMENT ⁴	15,490	15,482	15,556	15,703	15,710	—	—	—	—	—
—	FEDERAL GOVERNMENT	2,716	2,724	2,746	2,746	2,755	—	—	—	—	—
—	Executive	2,664.3	2,673.1	2,694.5	2,694.4	—	—	—	—	—	—
—	Department of Defense	909.8	907.7	905.8	905.3	—	—	—	—	—	—
—	Postal Service	650.2	668.2	646.9	651.4	—	—	—	—	—	—
—	Other executive agencies	1,104.3	1,097.2	1,141.8	1,137.7	—	—	—	—	—	—
—	Manufacturing activities	139.9	140.1	140.0	140.6	—	—	—	—	—	—
—	Shipbuilding	70.7	70.9	72.2	72.4	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production worker ¹				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	Executive—Continued										
-	Transportation and public utilities, except Postal Service	37.6	37.1	37.9	38.5	-	-	-	-	-	-
-	Services	373.9	373.7	380.3	378.5	-	-	-	-	-	-
-	Hospitals	229.8	231.0	233.0	231.7	-	-	-	-	-	-
-	Legislative	39.1	38.8	38.9	38.7	-	-	-	-	-	-
-	Judicial	12.5	12.5	13.0	12.9	-	-	-	-	-	-
-	STATE AND LOCAL GOVERNMENT	12,774	12,758	12,810	12,957	12,955	-	-	-	-	-
-	State government	3,460.0	3,434.9	3,479.9	3,503.3	-	-	-	-	-	-
-	Hospitals	548.4	547.7	554.5	556.8	-	-	-	-	-	-
-	State education	1,466.2	1,444.4	1,453.0	1,474.9	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	878.5	875.8	895.2	896.2	-	-	-	-	-	-
-	Local government	9,313.5	9,323.3	9,329.8	9,453.8	-	-	-	-	-	-
-	Transportation and public utilities	553.7	543.5	572.0	573.6	-	-	-	-	-	-
-	Hospitals	494.9	496.4	516.1	517.6	-	-	-	-	-	-
-	Local education	5,289.0	5,289.7	5,199.9	5,302.6	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	2,646.4	2,670.8	2,708.7	2,725.9	-	-	-	-	-	-

¹ Data relate to production and related workers in mining and manufacturing; to construction workers in construction; and to nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

² Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 or more.

³ Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

⁴ 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.

**Class I railroads (SIC 4011)—Revised data for August 1978 was incorrectly cited as 448.1 in a footnote in the December issue of E&E. Correct figure for August 1978 is 489.1.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
-	TOTAL	33,552	34,002	34,468	35,251	35,741
-	PRIVATE SECTOR	26,776	26,888	28,083	28,302	28,474
-	MINING	67	67	78	78	79
10	METAL MINING	5.8	5.8	7.5	7.3	7.4
11, 12	COAL MINING	7.0	7.1	8.1	8.2	8.2
13	OIL AND GAS EXTRACTION	46.3	46.5	54.5	54.5	55.0
131, 2	Crude petroleum, natural gas, and natural gas liquids	30.5	30.7	35.3	35.0	35.2
138	Oil and gas field services	15.8	15.8	19.2	19.5	19.8
14	NONMETALLIC MINERALS, EXCEPT FUELS	7.6	7.5	8.3	8.4	8.4
142	Crushed and broken stone	2.4	2.4	2.7	2.7	2.7
144	Sand and gravel	2.3	2.3	2.6	2.6	2.6
-	CONSTRUCTION	313	314	343	341	342
15	GENERAL BUILDING CONTRACTORS	113.0	112.6	124.0	122.6	122.5
152	Residential building construction	67.0	66.2	75.3	73.7	73.4
153	Operative builders	15.8	15.9	16.8	17.0	16.7
154	Nonresidential building construction	30.2	30.5	31.9	31.9	32.4
16	HEAVY CONSTRUCTION CONTRACTORS	51.4	51.6	56.1	55.6	55.7
161	Highway and street construction	13.3	13.0	16.6	16.5	16.5
162	Heavy construction, except highway	38.1	38.6	39.5	39.1	39.2
17	SPECIAL TRADE CONTRACTORS	148.5	149.9	163.2	162.6	164.2
171	Plumbing, heating, air conditioning	41.9	42.2	45.9	45.7	46.0
172	Painting, paper hanging, decorating	9.3	9.3	10.5	10.3	10.7
173	Electrical work	26.9	27.2	29.2	29.2	29.2
174	Masonry, stonework, and plastering	17.2	17.7	18.5	18.4	18.8
175	Carpentering and flooring	11.7	11.8	12.7	12.5	12.6
176	Roofing and sheet metal work	10.0	10.1	11.2	11.3	11.5
-	MANUFACTURING	6,043	6,038	6,250	6,333	6,349
24, 25, 32-39	DURABLE GOODS	2,715	2,734	2,880	2,937	2,971
20-23, 26-31	NONDURABLE GOODS	3,328	3,304	3,370	3,396	3,378
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	100.6	102.0	108.6	108.8	109.6
241	Logging camps and logging contractors	4.9	4.5	5.4	5.2	5.1
242	Sawmills and planing mills	20.6	20.7	22.2	22.4	22.3
2421	Sawmills and planing mills, general	14.6	14.5	15.6	15.6	15.5
243	Millwork, plywood, and structural members	39.5	40.3	42.6	43.2	43.5
244	Wooden containers	7.1	7.2	7.3	7.1	7.1
245	Wood buildings and mobile homes	9.8	10.0	10.4	10.4	10.5
249	Miscellaneous wood products	18.7	19.3	20.7	20.5	21.1
25	FURNITURE AND FIXTURES	134.0	136.2	139.9	143.4	145.0
251	Household furniture	102.6	104.7	105.0	108.3	109.6
2511	Wood household furniture	43.1	43.7	44.0	44.8	45.0
2512	Upholstered household furniture	35.2	35.7	37.4	37.9	38.1
2515	Mattresses and bedsprings	8.2	8.5	8.7	8.8	8.9
252	Office furniture	9.2	9.0	10.1	10.3	10.4
253	Public building and related furniture	4.7	4.7	4.8	4.8	4.8
254	Partitions and fixtures	8.7	8.8	9.9	10.2	10.3
259	Miscellaneous furniture and fixtures	8.8	9.0	10.1	9.8	9.9
32	STONE, CLAY, AND GLASS PRODUCTS	127.5	127.1	131.8	132.2	132.7
322	Glass and glassware, pressed or blown	47.6	46.9	48.0	47.3	46.7
3221	Glass containers	28.1	27.7	28.2	27.4	26.8
3229	Pressed and blown glass, nec	19.5	19.2	19.8	19.9	19.9
323	Products of purchased glass	10.9	10.8	11.6	11.9	12.3
324	Cement, hydraulic	1.4	1.5	1.7	1.7	1.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
STONE, CLAY, AND GLASS PRODUCTS—Continued						
325	Structural clay products	6.4	6.4	6.4	6.4	6.5
326	Pottery and related products	17.3	17.4	17.0	17.6	17.9
327	Concrete, gypsum, and plaster products	13.2	13.3	14.6	14.6	14.4
329	Misc. nonmetallic mineral products	27.8	27.8	29.5	29.8	30.4
PRIMARY METAL INDUSTRIES						
33	.....	112.8	112.5	121.6	124.1	125.1
331	Blast furnace and basic steel products	34.9	34.2	39.8	39.2	39.2
3312	Blast furnaces and steel mills	27.0	26.4	31.5	30.8	30.7
332	Iron and steel foundries	17.1	17.0	17.5	19.4	19.8
3321	Gray iron foundries	9.0	8.9	9.3	10.0	10.1
3322	Malleable iron foundries	1.5	1.5	1.5	1.6	1.6
3325	Steel foundries, nec	3.8	3.8	4.3	4.5	4.6
333	Primary nonferrous metals	4.5	4.3	4.6	4.5	4.5
3334	Primary aluminum	1.4	1.4	1.7	1.6	1.6
335	Nonferrous rolling and drawing	36.8	37.0	39.1	40.0	40.3
3351	Copper rolling and drawing	3.3	3.0	3.7	3.7	3.7
3353	Aluminum sheet, plate, and foil	4.1	4.2	4.6	4.6	4.7
3357	Nonferrous wire drawing and insulating	22.3	22.5	22.6	23.3	23.6
336	Nonferrous foundries	14.7	15.1	15.5	16.1	16.3
3361	Aluminum foundries	6.5	7.0	7.2	7.2	7.5
FABRICATED METAL PRODUCTS						
34	.....	322.6	326.2	337.3	343.4	348.2
341	Metal cans and shipping containers	13.1	12.7	13.3	13.2	12.7
3411	Metal cans	11.5	11.1	11.6	11.5	11.0
342	Cutlery, hand tools, and hardware	59.8	61.0	61.9	62.8	63.9
3423, 5	Hand and edge tools, and hand saws and blades	16.0	16.2	16.8	16.9	17.1
3429	Hardware, nec	36.9	37.7	38.0	38.7	39.5
343	Plumbing and heating, except electric	15.3	15.9	16.7	17.4	17.5
344	Fabricated structural metal products	65.9	66.3	69.2	69.6	70.3
3441	Fabricated structural metal	7.0	6.8	7.1	7.2	7.3
3442	Metal doors, sash, and trim	24.2	24.2	23.3	23.4	23.6
3443	Fabricated plate work (boiler shops)	13.8	14.0	15.3	15.2	15.3
3444	Sheet metal work	12.4	12.7	13.9	14.1	14.2
345	Screw machine products, bolts, etc.	21.0	21.3	22.3	23.1	23.7
3451	Screw machine products	10.7	10.9	11.5	12.0	12.3
3452	Bolts, nuts, rivets, and washers	10.3	10.4	10.8	11.1	11.4
346	Metal forgings and stampings	55.7	56.5	55.7	57.9	59.1
3462	Iron and steel forgings	3.7	3.7	4.2	4.2	4.5
3465	Automotive stampings	15.0	15.5	14.3	15.8	16.3
3469	Metal stampings, nec	34.7	35.1	35.0	35.8	36.2
347	Metal services, nec	23.0	23.2	24.2	24.2	24.5
3471	Plating and polishing	17.3	17.3	17.7	17.6	17.9
3479	Metal coating and allied services	5.7	5.9	6.5	6.6	6.6
348	Ordinance and accessories, nec	15.5	15.3	16.3	16.1	16.1
349	Misc. fabricated metal products	53.3	54.0	57.7	59.1	60.4
3494	Valves and pipe fittings	19.5	19.4	20.8	21.2	21.1
3496	Misc. fabricated wire products	11.4	11.5	12.9	13.0	13.4
MACHINERY, EXCEPT ELECTRICAL						
35	.....	391.6	396.6	434.0	441.9	447.7
351	Engines and turbines	20.2	20.6	22.2	22.8	23.3
3511	Turbines and turbine generator sets	5.7	5.7	6.1	6.2	6.1
3519	Internal combustion engines, nec	14.5	14.9	16.1	16.6	17.2
352	Farm and garden machinery	21.8	21.8	21.9	23.3	23.8
3523	Farm machinery and equipment	17.9	17.8	17.6	18.4	19.0
353	Construction and related machinery	37.4	37.0	41.9	41.9	42.4
3531	Construction machinery	13.4	13.2	14.6	14.4	14.5
3533	Oil field machinery	8.3	7.8	9.2	9.2	9.4
354	Metalworking machinery	47.5	48.1	51.8	52.5	53.1
3541	Machine tools, metal cutting types	7.4	7.4	8.4	8.3	8.5
3544	Special dies, tools, jigs, and fixtures	12.7	12.7	14.3	14.5	14.9
3545	Machine tool accessories	11.7	12.0	12.9	13.1	13.2
355	Special industry machinery	27.2	27.3	29.8	29.9	30.4
3551	Food products machinery	5.8	5.8	6.0	6.2	6.2
3552	Textile machinery	5.9	5.9	5.8	5.9	5.9
3555	Printing trades machinery	5.3	5.4	7.0	6.9	7.0
356	General industrial machinery	52.8	53.3	57.0	58.4	58.8
3561	Pumps and pumping equipment	10.3	10.3	10.8	10.9	11.1
3562	Ball and roller bearings	12.7	13.0	13.2	13.7	13.8
357	Office and computing machines	105.9	108.5	125.9	128.6	129.9
3573	Electronic computing equipment	79.8	82.5	97.4	99.3	100.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry — Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
	MACHINERY, EXCEPT ELECTRICAL—Continued					
358	Refrigeration and service machinery	33.4	33.8	36.5	36.7	37.6
3585	Refrigeration and heating equipment	21.9	22.1	23.7	23.6	24.5
359	Misc. machinery, except electrical	45.4	46.2	47.0	47.8	48.4
3599	Machinery, except electrical, nec	36.5	37.0	37.6	37.5	37.9
36	ELECTRIC AND ELECTRONIC EQUIPMENT	788.3	794.5	823.1	836.3	844.8
361	Electric distributing equipment	43.2	43.8	42.9	43.0	43.4
3612	Transformers	19.4	19.6	19.9	20.2	20.4
3613	Switchgear and switchboard apparatus	23.8	24.2	23.0	22.8	23.0
362	Electrical industrial apparatus	86.4	86.9	92.2	93.7	94.3
3621	Motors and generators	47.5	47.7	50.8	52.0	52.4
3622	Industrial controls	27.6	27.9	29.3	29.4	29.5
363	Household appliances	62.3	62.6	62.2	62.7	63.0
3632	Household refrigerators and freezers	11.3	11.1	11.9	11.2	10.7
3633	Household laundry equipment	4.5	4.4	4.9	4.7	4.7
3634	Electric housewares and fans	28.4	28.6	27.1	28.5	28.8
364	Electric lighting and wiring equipment	93.9	94.6	98.8	101.6	102.4
3641	Electric lamps	24.4	24.2	23.9	24.5	24.7
3643	Current-carrying wiring devices	40.3	40.5	43.9	45.3	45.6
365	Radio and TV receiving equipment	71.3	70.9	64.2	67.2	68.4
3651	Radio and TV receiving sets	54.8	53.4	49.2	50.9	51.6
366	Communication equipment	166.7	169.2	177.0	179.3	181.4
3661	Telephone and telegraph apparatus	69.8	71.0	71.9	72.7	73.1
3662	Radio and TV communication equipment	96.9	98.2	105.1	106.6	108.3
367	Electronic components and accessories	212.4	214.3	231.1	233.2	235.9
3671-3	Electronic tubes	15.6	15.6	16.5	16.6	16.6
3674	Semiconductors and related devices	72.4	73.5	79.4	80.1	81.9
3679	Electronic components, nec	84.8	85.7	93.4	94.5	95.3
369	Misc. electrical equipment and supplies	52.1	52.2	54.7	55.6	56.0
3694	Engine electrical equipment	26.0	25.8	27.6	28.2	28.4
37	TRANSPORTATION EQUIPMENT	269.4	266.4	285.0	299.8	305.3
371	Motor vehicles and equipment	125.8	128.7	125.8	138.2	141.3
3711	Motor vehicles and car bodies	49.4	51.3	46.7	55.2	56.3
3713	Truck and bus bodies	5.4	5.3	5.7	5.8	5.7
3714	Motor vehicle parts and accessories	69.3	70.4	71.3	75.1	77.2
372	Aircraft and parts	82.0	76.5	94.7	96.9	99.4
3721	Aircraft	48.5	43.0	57.6	58.7	60.3
3724	Aircraft engines and engine parts	18.0	18.0	19.9	20.6	20.9
3728	Aircraft equipment, nec	15.5	15.5	17.2	17.6	18.2
373	Ship and boat building and repairing	22.7	23.2	21.7	22.3	22.5
3731	Ship building and repairing	14.9	15.5	14.2	14.6	14.6
374	Railroad equipment	5.0	4.6	5.1	5.1	5.3
376	Guided missiles, space vehicles, parts	15.1	14.3	16.3	16.2	16.0
3761	Guided missiles and space vehicles	12.4	11.5	13.0	12.9	12.7
379	Miscellaneous transportation equipment	12.9	13.2	15.6	15.7	15.4
38	INSTRUMENTS AND RELATED PRODUCTS	257.5	258.6	280.5	282.5	284.3
381	Engineering and scientific instruments	18.1	18.3	20.8	21.1	21.1
382	Measuring and controlling devices	84.2	84.1	93.0	93.7	93.9
3822	Environmental controls	24.0	23.9	23.7	24.3	24.2
3823	Process control instruments	14.8	14.8	15.7	15.8	16.2
3825	Instruments to measure electricity	32.1	32.2	39.5	39.2	39.3
383	Optical instruments and lenses	8.9	9.0	9.7	9.8	10.0
384	Medical instruments and supplies	69.0	69.7	77.0	77.7	78.3
3841	Surgical and medical instruments	29.6	29.7	33.4	33.5	34.0
3842	Surgical appliances and supplies	31.8	31.9	34.7	35.2	35.5
385	Ophthalmic goods	22.9	23.3	23.4	23.8	23.8
386	Photographic equipment and supplies	35.1	35.0	37.7	37.2	37.7
387	Watches, clocks, and watchcases	19.3	19.2	18.9	19.2	19.5
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	210.5	214.1	217.9	224.9	228.6
391	Jewelry, silverware, and plated ware	27.2	28.6	30.0	30.2	31.1
393	Musical instruments	11.1	11.1	12.0	12.3	12.1
394	Toys and sporting goods	69.9	69.3	64.6	68.2	69.0
3942, 4	Dolls, games, toys, and children's vehicles	38.3	37.6	35.5	38.4	39.3
3949	Sporting and athletic goods, nec	31.6	31.7	29.1	29.8	29.7
395	Pens, pencils, office and art supplies	18.5	18.7	18.9	18.9	19.2
396	Costume jewelry and notions	35.1	36.9	39.7	42.1	43.6
399	Miscellaneous manufactures	48.7	49.5	52.7	53.2	53.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
	NONDURABLE GOODS					
20	FOOD AND KINDRED PRODUCTS	541.6	503.2	526.7	536.9	508.5
201	Meat products	107.3	108.0	111.1	111.5	112.4
2011	Meat packing plants	26.3	26.7	27.5	27.6	27.6
2013	Sausages and other prepared meats	20.5	20.5	20.4	20.5	20.5
2016	Poultry dressing plants	53.7	53.8	56.3	56.3	56.8
202	Dairy products	37.9	37.6	39.7	39.1	38.6
2026	Fluid milk	20.1	20.0	20.5	20.0	19.9
203	Preserved fruits and vegetables	155.0	110.1	130.2	138.8	106.5
2032	Canned specialties	10.0	9.6	9.8	10.7	10.4
2033	Canned fruits and vegetables	86.7	42.9	67.4	70.3	38.3
2037	Frozen fruits and vegetables	22.9	22.2	17.5	21.1	21.6
204	Grain mill products	28.2	28.3	29.0	28.8	29.0
205	Bakery products	63.3	62.8	60.8	61.5	61.3
2051	Bread, cake, and related products	42.9	43.2	41.8	42.0	42.0
2052	Cookies and crackers	20.4	19.6	19.0	19.5	19.3
206	Sugar and confectionery products	39.2	44.3	37.7	41.8	45.6
207	Fats and oils	4.9	5.1	5.1	4.8	4.9
208	Beverages	35.4	36.1	36.2	35.5	35.7
2082	Malt beverages	5.5	5.5	5.8	5.8	5.6
2086	Bottled and canned soft drinks	15.5	15.4	17.0	16.8	17.0
209	Misc. foods and kindred products	70.4	70.9	76.9	75.1	74.5
21	TOBACCO MANUFACTURES	30.0	29.9	27.1	29.2	29.8
211	Cigarettes	15.6	15.4	15.1	15.0	15.1
22	TEXTILE MILL PRODUCTS	430.0	431.5	430.9	432.9	433.1
221	Weaving mills, cotton	68.1	67.7	65.0	65.1	65.4
222	Weaving mills, synthetics	50.5	50.3	48.1	48.9	49.3
223	Weaving and finishing mills, wool	7.7	7.6	7.8	8.0	8.1
224	Narrow fabric mills	14.8	14.8	15.2	15.4	15.4
225	Knitting mills	153.2	155.0	160.1	159.6	158.4
2251	Women's hosiery, except socks	21.5	21.8	22.9	23.3	23.9
2252	Hosiery, nec	25.1	25.3	26.3	26.0	26.0
2253	Knit outerwear mills	56.1	57.3	57.7	56.9	55.3
2254	Knit underwear mills	24.7	24.9	27.8	28.1	28.2
2257	Circular knit fabric mills	15.2	15.2	14.8	14.9	14.8
226	Textile finishing, except wool	24.4	24.1	23.2	23.6	23.3
2261	Finishing plants, cotton	9.9	9.9	10.2	10.2	10.3
2262	Finishing plants, synthetic	6.8	6.7	6.1	6.5	5.9
227	Floor covering mills	24.4	24.8	25.4	25.5	25.8
228	Yarn and thread mills	65.5	65.8	64.9	65.6	66.2
2281	Yarn mills, except wool	40.4	40.5	40.8	41.3	42.0
2282	Throwing and winding mills	12.0	12.4	12.2	12.4	12.5
229	Miscellaneous textile goods	21.4	21.4	21.2	21.2	21.2
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,075.7	1,078.1	1,067.9	1,076.6	1,077.0
231	Men's and boys' suits and coats	70.1	70.2	69.8	69.2	68.5
232	Men's and boys' furnishings	319.8	318.7	311.8	312.6	310.3
2321	Men's and boys' shirts and nightwear	93.7	92.9	92.5	92.4	92.7
2327	Men's and boys' separate trousers	72.7	71.6	69.7	69.6	69.3
2328	Men's and boys' work clothing	83.6	83.9	78.0	79.1	77.6
233	Women's and misses' outerwear	363.1	362.2	362.5	366.0	369.1
2331	Women's and misses' blouses and waists	49.5	50.3	50.8	52.1	52.6
2335	Women's and misses' dresses	140.3	138.6	137.4	138.9	140.4
2337	Women's and misses' suits and coats	56.3	55.1	55.4	55.7	54.4
2339	Women's and misses' outerwear, nec	117.0	118.2	118.9	119.3	121.7
234	Women's and children's undergarments	83.9	84.5	81.1	82.2	82.0
2341	Women's and children's undergarment	67.0	67.6	65.5	66.4	66.2
2342	Brassieres and allied garments	16.9	16.9	15.6	15.8	15.8
236	Children's outerwear	58.5	58.4	58.9	58.9	59.0
2361	Children's dresses and blouses	23.5	23.5	21.9	22.5	22.9
238	Misc. apparel and accessories	48.8	49.3	48.0	48.3	47.7
239	Misc. fabricated textile products	118.7	121.8	123.1	126.2	127.1
2391	Curains and draperies	24.3	24.8	24.7	24.7	24.6
2392	House furnishings, nec	32.6	33.3	33.3	33.5	33.6
2396	Automotive and apparel trimmings	18.2	18.8	17.7	19.4	19.9
26	PAPER AND ALLIED PRODUCTS	154.6	155.5	160.6	160.5	159.6
261, 26	Paper and pulp mills	25.4	25.2	26.3	25.6	24.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
	PAPER AND ALLIED PRODUCTS—Continued					
262	Paper mills, except building paper	22.9	22.7	23.7	23.0	21.9
263	Paperboard mills	5.2	5.3	6.0	5.9	5.9
264	Misc. converted paper products	72.7	73.0	76.0	76.0	75.5
265	Paperboard containers and boxes	51.3	52.0	52.3	53.0	53.7
27	PRINTING AND PUBLISHING	429.8	433.8	455.4	454.2	460.8
271	Newspapers	134.6	135.4	144.6	141.9	144.9
272	Periodicals	43.7	44.2	47.9	47.9	48.6
273	Books	51.1	51.0	53.4	52.1	53.1
274	Miscellaneous publishing	25.5	25.1	25.1	25.7	25.5
275	Commercial printing	110.0	112.6	115.6	118.2	119.8
2751	Commercial printing, letterpress	51.4	52.0	53.3	54.7	54.9
2752	Commercial printing, lithographic	53.5	55.4	57.5	58.6	59.9
276	Manifold business forms	13.3	13.3	13.9	14.2	14.2
278	Blankbooks and bookbinding	30.3	30.6	32.5	32.3	32.8
279	Printing trade services	7.6	7.6	8.2	8.2	8.4
28	CHEMICALS AND ALLIED PRODUCTS	248.6	248.1	260.8	260.9	261.4
281	Industrial inorganic chemicals	20.9	20.8	22.8	22.6	22.8
2819	Industrial inorganic chemicals, nec	14.4	14.3	15.7	15.5	15.7
282	Plastics materials and synthetics	42.9	42.2	44.8	44.3	44.0
2821	Plastics materials and resins	9.3	9.4	10.4	10.3	10.4
2824	Organic fibers, noncellulosic	25.9	25.3	26.0	25.7	25.5
283	Drugs	72.2	72.2	73.9	73.5	74.4
2834	Pharmaceutical preparations	61.7	61.7	62.9	62.4	63.2
284	Soap, cleaners, and toilet goods	52.4	52.3	56.0	57.2	56.9
2841	Soap and other detergents	8.7	8.8	9.3	9.5	9.4
2844	Toilet preparations	32.2	32.1	34.5	35.3	35.0
285	Paints and allied products	11.3	11.3	12.6	12.6	12.7
286	Industrial organic chemicals	23.2	23.4	23.8	23.5	23.6
2861,9	Gum, wood, and industrial organic chemicals, nec	18.7	18.8	19.3	19.0	19.2
287	Agricultural chemicals	8.6	8.6	9.0	9.3	9.3
289	Miscellaneous chemical products	17.1	17.3	17.9	17.9	17.7
29	PETROLEUM AND COAL PRODUCTS	23.9	23.7	25.3	25.0	24.8
291	Petroleum refining	19.1	18.8	20.3	20.0	19.7
30	RUBBER AND MISC. PLASTICS PRODUCTS	243.3	246.6	260.1	265.7	269.7
301	Tires and inner tubes	12.5	12.2	12.1	12.2	12.2
302	Rubber and plastics footwear	14.0	14.1	13.5	13.3	13.7
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.1	6.2	5.9	6.0	6.1
306	Fabricated rubber products, nec	38.5	38.4	39.0	39.1	39.7
307	Miscellaneous plastics products	172.2	175.7	189.6	195.1	198.0
31	LEATHER AND LEATHER PRODUCTS	150.3	153.7	155.1	154.1	153.2
311	Leather tanning and finishing	3.1	3.1	3.2	3.1	3.2
314	Footwear, except rubber	100.6	103.1	106.0	104.6	102.9
3143	Men's footwear, except athletic	39.3	41.0	39.7	40.0	39.4
3144	Women's footwear, except athletic	41.1	41.1	44.4	43.6	42.6
316	Luggage	9.2	9.5	9.9	10.0	9.8
317	Handbags and personal leather goods	23.8	24.2	22.1	22.2	22.7
-	TRANSPORTATION AND PUBLIC UTILITIES	1,060	1,064	1,118	1,137	1,151
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	50.3	52.0	33.4	53.6	55.1
411	Local and suburban transportation	7.7	8.3	9.3	9.6	9.4
412	Taxicabs	6.9	6.9	7.1	7.3	7.6
413	Intercity highway transportation	5.0	4.7	4.9	4.8	4.6
415	School buses	28.5	29.9	9.9	29.4	30.9
42	TRUCKING AND WAREHOUSING	130.1	129.6	139.4	139.3	141.2
421,3	Trucking and trucking terminals	115.2	113.8	124.2	123.8	124.8
422	Public warehousing	14.9	15.8	15.2	15.5	16.4
44	WATER TRANSPORTATION	17.2	15.9	18.2	18.0	18.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
45	TRANSPORTATION BY AIR	113.1	116.2	122.1	122.0	122.5
451,2	Air transportation	106.9	110.0	114.8	115.0	115.3
46	PIPE LINES, EXCEPT NATURAL GAS	2.1	2.1	1.9	2.0	2.0
47	TRANSPORTATION SERVICES	68.1	68.5	76.0	75.9	76.0
48	COMMUNICATION	535.5	536.4	572.4	572.7	580.9
481	Telephone communication	473.6	473.8	504.7	505.0	512.1
483	Radio and television broadcasting	48.0	48.4	52.8	52.8	53.5
49	ELECTRIC, GAS, AND SANITARY SERVICES	124.6	124.4	134.8	132.8	133.2
491	Electric services	55.7	55.7	59.9	59.6	60.1
492	Gas production and distribution	30.8	30.5	33.7	33.0	32.9
493	Combination utility services	29.9	29.9	31.7	30.9	30.9
495	Sanitary services	3.8	3.9	4.6	4.5	4.5
-	WHOLESALE AND RETAIL TRADE	7,871	7,911	8,239	8,348	8,413
50,51	WHOLESALE TRADE	1,159	1,170	1,216	1,227	1,258
50	WHOLESALE TRADE-DURABLE GOODS	618	623	667	669	680
501	Motor vehicles and automotive equipment	82.2	82.7	88.5	89.5	90.4
502	Furniture and home furnishings	32.4	32.8	34.6	34.8	35.1
503	Lumber and construction materials	26.3	26.3	28.8	28.8	29.2
504	Sporting goods, toys, and hobby goods	21.3	22.0	21.3	21.3	21.9
505	Metals and minerals, except petroleum	23.2	23.2	25.2	22.5	25.9
506	Electrical goods	99.1	100.3	109.8	110.9	112.0
507	Hardware, plumbing, and heating equipment	57.4	58.2	62.9	63.2	64.3
508	Machinery, equipment, and supplies	229.7	231.4	249.6	248.5	253.0
509	Miscellaneous durable goods	46.1	46.2	46.0	46.8	47.8
51	WHOLESALE TRADE-NONDURABLE GOODS	541	547	549	558	578
511	Paper and paper products	37.7	37.7	38.0	38.4	39.0
512	Drugs, proprietaries, and sundries	55.8	56.8	57.5	58.9	59.8
513	Apparel, piece goods, and notions	74.0	74.8	77.3	77.6	78.6
514	Groceries and related products	147.9	147.3	142.1	143.5	145.8
516	Chemicals and allied products	26.8	27.2	29.2	29.3	29.2
517	Petroleum and petroleum products	44.3	43.8	47.7	47.4	47.0
518	Beer, wine, and distilled beverages	18.5	18.6	19.6	19.6	19.8
519	Miscellaneous nondurable goods	99.3	101.4	103.0	102.6	107.2
52-59	RETAIL TRADE	6,712	6,741	7,023	7,121	7,155
52	BUILDING MATERIALS AND GARDEN SUPPLIES	137.9	135.5	142.9	143.5	145.5
521	Lumber and other building materials	54.4	54.6	59.0	58.6	58.5
525	Hardware stores	46.1	47.3	48.7	48.8	49.6
53	GENERAL MERCHANDISE STORES	1,485.7	1,524.8	1,530.8	1,565.9	1,590.8
531	Department stores	1,178.4	1,217.3	1,212.5	1,240.4	1,264.5
533	Variety stores	218.2	218.5	222.7	230.3	228.8
539	Misc. general merchandise stores	89.1	89.0	95.6	95.2	97.5
54	FOOD STORES	864.4	869.0	892.0	902.9	916.7
541	Grocery stores	717.9	722.6	754.4	759.3	770.3
542	Meat markets and freezer provisioners	14.1	14.0	13.5	13.4	14.3
546	Retail bakeries	74.2	72.5	67.3	70.9	70.7
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	277.5	278.9	301.5	302.2	305.9
551,2	New and used car dealers	111.4	112.7	120.7	120.9	122.3
553	Auto and home supply stores	39.2	39.6	44.7	45.3	44.7
554	Gasoline service stations	113.1	112.7	122.2	122.0	124.9
56	APPAREL AND ACCESSORY STORES	575.1	589.4	582.2	593.9	605.6
561	Men's and boys' clothing and furnishings	56.1	58.4	59.0	58.0	60.3
562	Women's ready-to-wear stores	275.3	281.6	275.2	284.2	292.3
565	Family clothing stores	113.1	115.7	116.9	117.0	117.2
566	Shoe stores	64.3	66.5	66.5	69.2	70.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry — Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
57	FURNITURE AND HOME FURNISHING STORES	175.7	179.2	181.7	184.2	186.4
571	Furniture and home furnishings	119.2	121.5	122.9	124.0	124.8
572	Household appliance stores	22.6	23.6	23.1	23.9	24.1
573	Radio, television, and music stores	33.9	34.1	35.7	36.3	37.5
58	EATING AND DRINKING PLACES	2,326.0	2,269.6	2,487.3	2,500.1	2,447.5
59	MISCELLANEOUS RETAIL	869.4	894.2	904.3	928.6	956.7
591	Drug stores and proprietary stores	275.5	276.7	295.3	298.8	302.0
592	Liquor stores	22.1	22.2	25.9	26.6	27.6
594	Miscellaneous shopping goods stores	284.4	292.9	286.5	298.3	308.4
596	Nonstore retailers	144.8	156.6	152.4	156.5	165.1
598	Fuel and ice dealers	21.0	21.6	20.8	21.2	21.8
599	Retail stores, nec	103.0	105.4	103.3	105.7	110.3
-	FINANCE, INSURANCE, AND REAL ESTATE	2,538	2,553	2,731	2,723	2,739
60	BANKING	930.3	934.1	996.8	993.4	998.3
602	Commercial and stock savings banks	855.4	859.3	917.4	914.4	918.8
61	CREDIT AGENCIES OTHER THAN BANKS	301.4	303.3	325.5	326.1	328.7
612	Savings and loan associations	143.5	144.7	157.6	157.7	159.2
614	Personal credit institutions	105.5	105.7	112.8	113.3	114.0
62	SECURITY, COMMODITY BROKERS, AND SERVICES	67.7	67.5	73.4	73.5	74.4
621	Security brokers and dealers	54.3	54.1	59.1	59.1	59.9
63	INSURANCE CARRIERS	663.8	668.8	713.1	711.9	715.5
631	Life insurance	266.2	267.0	273.5	271.5	271.3
632	Medical service and health insurance	95.9	96.2	100.8	100.8	101.4
633	Fire, marine, and casualty insurance	257.9	260.9	289.0	290.3	293.1
64	INSURANCE AGENTS, BROKERS, AND SERVICE	225.8	227.7	242.3	242.2	244.4
65	REAL ESTATE	285.1	286.7	311.1	307.9	309.6
651	Real estate operators and lessors	123.8	124.9	134.3	133.4	133.4
653	Real estate agents and managers	117.9	119.0	131.0	129.1	130.0
655	Subdividers and developers	27.5	26.8	28.4	28.4	28.2
66	COMBINED REAL ESTATE, INSURANCE, ETC.	16.8	17.4	19.1	18.9	18.6
67	HOLDING AND OTHER INVESTMENT OFFICES	46.8	47.4	50.0	49.3	49.2
-	SERVICES	8,884	8,941	9,324	9,342	9,401
70	HOTELS AND OTHER LODGING PLACES	531.0	506.2	588.3	542.6	515.8
701	Hotels, motels, and tourist courts	508.2	485.6	546.1	521.7	498.0
72	PERSONAL SERVICES	588.1	595.2	589.5	599.4	603.0
721	Laundry, cleaning, and garment services	221.1	221.9	218.4	220.1	222.5
723	Beauty shops	246.2	247.4	246.5	250.1	249.6
726	Funeral service and crematories	17.3	17.5	18.3	18.2	18.3
73	BUSINESS SERVICES	989.5	1,001.9	1,087.5	1,099.3	1,118.8
731	Advertising	57.5	58.0	65.5	65.9	65.7
732	Credit reporting and collection	61.9	61.9	64.9	65.2	65.9
733	Mailing, reproduction, stenographic	45.0	45.7	47.8	50.1	51.3
734	Services to buildings	146.0	148.9	164.0	163.7	164.2
736	Personnel supply services	223.6	225.7	236.8	242.3	247.7
737	Computer and data processing services	88.4	89.8	99.2	100.4	102.8
75	AUTO REPAIR, SERVICES, AND GARAGES	77.7	78.4	84.7	85.8	87.4
753	Automotive repair shops	35.9	35.9	38.0	38.8	39.5
76	MISCELLANEOUS REPAIR SERVICES	43.5	44.3	46.0	46.8	47.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978	Oct. 1978
78	MOTION PICTURES	84.3	79.8	88.9	84.8	82.3
781	Motion picture production and services	25.4	24.8	24.4	24.3	25.1
783	Motion picture theaters	53.3	49.5	59.0	55.0	51.6
79	AMUSEMENT AND RECREATION SERVICES	282.2	248.8	309.8	285.3	254.1
80	HEALTH SERVICES	3,743.3	3,757.2	3,896.9	3,900.8	3,914.6
801	Offices of physicians	513.7	515.8	540.6	538.5	541.5
802	Offices of dentists	245.9	244.2	245.1	247.3	247.1
805	Nursing and personal care facilities	770.0	770.3	816.9	816.1	817.7
806	Hospitals	1,992.6	2,001.9	2,059.9	2,063.1	2,069.9
81	LEGAL SERVICES	282.3	287.3	307.2	302.9	305.4
82	EDUCATIONAL SERVICES	495.8	556.4	423.8	495.8	548.4
821	Elementary and secondary schools	132.9	147.1	20.2	142.1	147.3
822	Colleges and universities	309.0	353.8	250.0	298.1	343.6
83	SOCIAL SERVICES	626.6	637.9	706.2	703.0	710.1
89	MISCELLANEOUS SERVICES	232.1	233.9	259.5	256.7	259.9
891	Engineering and architectural services	80.6	81.1	92.1	90.4	91.2
893	Accounting, auditing, and bookkeeping	104.3	105.7	113.9	114.5	116.6
-	GOVERNMENT	6,776	7,114	6,385	6,949	7,267
-	FEDERAL GOVERNMENT	841	845	886	865	866
-	STATE AND LOCAL GOVERNMENT	5,935	6,269	5,499	6,084	6,401
-	State government	1,473.6	1,538.7	1,401.6	1,469.8	1,538.0
-	Hospitals	319.5	322.5	311.0	310.8	315.3
-	State education	574.2	628.8	479.8	570.8	643.1
-	General administration including executive, legislative, and judicial functions	395.4	406.2	414.6	400.3	393.8
-	Local government	4,461.0	4,730.7	4,097.8	4,614.0	4,862.7
-	Transportation and public utilities	66.1	67.3	77.1	77.9	79.2
-	Hospitals	380.7	381.5	396.7	396.4	397.2
-	Local education	2,996.1	3,260.9	2,426.2	3,052.1	3,321.7
-	General administration including executive, legislative, and judicial functions	825.9	834.4	994.3	896.0	880.9

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-4. Employees on nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P	Dec. P
TOTAL	83,719	83,871	84,188	84,726	85,418	85,618	85,996	86,033	86,149	86,163	86,573	87,020	87,270
GOODS-PRODUCING	24,626	24,648	24,724	24,927	25,313	25,341	25,473	25,501	25,463	25,471	25,670	25,870	26,039
MINING	687	678	684	698	867	869	879	882	887	887	893	902	902
CONSTRUCTION	3,955	3,905	3,901	3,999	4,164	4,175	4,278	4,317	4,298	4,298	4,341	4,368	4,413
MANUFACTURING	19,984	20,065	20,139	20,230	20,282	20,297	20,316	20,302	20,278	20,286	20,436	20,600	20,724
DURABLE GOODS	11,851	11,917	11,986	12,041	12,076	12,093	12,109	12,138	12,146	12,166	12,305	12,409	12,490
Lumber and wood products	756	754	756	752	751	745	747	743	743	744	748	759	765
Furniture and fixtures	481	484	487	491	491	489	486	485	481	480	484	487	490
Stone, clay, and glass products	685	689	691	692	699	700	701	698	692	692	696	701	706
Primary metal industries	1,180	1,186	1,193	1,189	1,192	1,197	1,197	1,199	1,205	1,214	1,220	1,236	1,243
Fabricated metal products	1,617	1,625	1,638	1,639	1,646	1,652	1,645	1,643	1,646	1,650	1,667	1,685	1,700
Machinery, except electrical	2,251	2,259	2,271	2,289	2,309	2,311	2,332	2,345	2,351	2,358	2,391	2,404	2,422
Electric and electronic equipment	1,912	1,923	1,935	1,951	1,951	1,952	1,962	1,977	1,975	1,972	1,987	1,999	2,006
Transportation equipment	1,895	1,917	1,928	1,944	1,936	1,942	1,929	1,937	1,941	1,943	1,991	2,009	2,024
Instruments and related products	628	632	635	639	644	649	654	660	661	662	665	672	676
Miscellaneous manufacturing ind.	446	448	452	455	457	456	456	451	451	451	456	457	458
NONDURABLE GOODS	8,133	8,148	8,153	8,189	8,206	8,204	8,207	8,164	8,132	8,120	8,131	8,191	8,234
Food and kindred products	1,700	1,706	1,705	1,718	1,715	1,701	1,702	1,688	1,670	1,665	1,667	1,692	1,710
Tobacco manufactures	74	74	74	76	74	75	76	73	69	70	71	71	71
Textile mill products	917	917	917	916	911	913	908	909	903	907	907	910	911
Apparel and other textile products	1,320	1,318	1,315	1,319	1,330	1,326	1,325	1,307	1,309	1,309	1,307	1,308	1,314
Paper and allied products	697	699	699	703	706	709	709	710	698	697	692	700	701
Printing and publishing	1,156	1,159	1,163	1,171	1,174	1,180	1,186	1,187	1,188	1,178	1,185	1,198	1,208
Chemicals and allied products	1,076	1,079	1,081	1,081	1,085	1,093	1,091	1,091	1,089	1,088	1,089	1,094	1,094
Petroleum and coal products	206	207	208	209	210	207	209	207	209	209	210	210	211
Rubber and misc. plastic products	734	737	738	744	748	747	749	749	746	744	752	760	767
Leather and leather products	253	252	253	252	253	253	252	243	251	253	251	248	247
SERVICE-PRODUCING	59,093	59,223	59,464	59,799	60,105	60,277	60,523	60,532	60,686	60,692	60,903	61,150	61,231
TRANSPORTATION AND PUBLIC UTILITIES	4,749	4,758	4,782	4,817	4,847	4,847	4,881	4,827	4,846	4,855	4,922	4,945	4,965
WHOLESALE AND RETAIL TRADE	18,911	18,991	19,071	19,169	19,252	19,335	19,412	19,469	19,523	19,546	19,632	19,697	19,687
WHOLESALE TRADE	4,783	4,802	4,828	4,854	4,872	4,885	4,905	4,901	4,905	4,917	4,945	4,967	4,989
RETAIL TRADE	14,128	14,189	14,243	14,315	14,380	14,450	14,507	14,568	14,618	14,629	14,687	14,730	14,698
FINANCE, INSURANCE, AND REAL ESTATE	4,547	4,563	4,591	4,605	4,623	4,637	4,670	4,690	4,707	4,719	4,737	4,775	4,788
SERVICES	15,618	15,597	15,670	15,773	15,866	15,896	15,963	15,989	16,074	16,127	16,169	16,261	16,296
GOVERNMENT	15,268	15,314	15,350	15,435	15,517	15,562	15,597	15,557	15,536	15,445	15,443	15,472	15,495
FEDERAL	2,723	2,736	2,736	2,739	2,745	2,753	2,772	2,765	2,765	2,752	2,760	2,757	2,757
STATE AND LOCAL	12,545	12,578	12,614	12,696	12,772	12,809	12,825	12,792	12,771	12,693	12,683	12,715	12,738

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL	33,658	33,842	34,013	34,167	34,313	34,531	34,755	34,921	35,077	35,099	35,170	35,256	35,381
GOODS-PRODUCING	6,300	6,346	6,388	6,432	6,458	6,510	6,545	6,568	6,592	6,584	6,587	6,594	6,645
MINING	67	68	66	68	68	68	73	73	75	77	77	78	79
CONSTRUCTION	311	313	316	320	320	326	328	329	334	337	338	337	339
MANUFACTURING	5,922	5,965	6,006	6,044	6,070	6,116	6,114	6,166	6,183	6,170	6,172	6,179	6,227
DURABLE GOODS	2,692	2,176	2,746	2,773	2,794	2,819	2,831	2,848	2,862	2,870	2,875	2,887	2,924
Lumber and wood products	100	102	103	104	105	105	105	106	107	106	106	106	108
Furnitures and fixtures	134	135	137	139	140	141	141	142	141	142	141	141	142
Stone, clay, and glass products	125	127	127	129	130	130	130	130	129	129	130	130	130
Primary metal industries ¹	113	113	113	114	114	115	115	117	120	121	122	124	125
Fabricated metal products	321	323	327	329	332	334	336	339	339	336	337	338	343
Machinery, except electrical	397	402	407	412	414	419	426	429	433	437	437	441	448
Electric and electronic equipment	782	789	795	800	807	813	813	815	818	823	823	821	831
Transportation equipment	262	264	269	274	276	281	280	284	285	286	286	291	300
Instruments and related products	257	257	261	264	266	268	271	273	277	279	281	282	282
Miscellaneous manufacturing ind.	201	204	207	208	210	213	214	213	213	211	212	213	215
NONDURABLE GOODS	3,230	3,249	3,260	3,271	3,276	3,297	3,313	3,318	3,321	3,300	3,297	3,292	3,303
Food and kindred products	466	474	478	482	482	484	485	480	485	482	469	467	471
Tobacco manufactures	26	26	28	27	27	28	27	28	27	27	24	25	26
Textile mill products	428	430	428	430	430	431	429	430	429	430	428	429	430
Apparel and other textile products	1,062	1,065	1,067	1,066	1,065	1,069	1,078	1,076	1,074	1,059	1,064	1,064	1,061
Paper and allied products	153	153	154	155	156	157	159	161	160	159	159	158	157
Printing and publishing	432	434	434	438	440	446	447	451	452	452	456	455	459
Chemicals and allied products	245	246	247	248	249	252	253	256	256	258	257	257	258
Petroleum and coal products	24	24	24	24	24	24	25	25	25	25	25	25	25
Rubber and misc. plastics products	240	244	248	249	251	254	257	258	260	260	262	258	262
Leather and leather products	154	153	152	152	152	152	153	153	153	148	153	154	154
SERVICE-PRODUCING	27,358	27,496	27,625	27,735	27,855	28,021	28,210	28,353	28,485	28,515	28,583	28,662	28,736
TRANSPORTATION AND PUBLIC UTILITIES	1,059	1,064	1,071	1,075	1,086	1,094	1,104	1,102	1,115	1,117	1,127	1,131	1,145
WHOLESALE AND RETAIL TRADE ..	7,856	7,903	7,947	8,006	8,050	8,098	8,138	8,188	8,225	8,258	8,303	8,322	8,354
WHOLESALE TRADE	1,155	1,162	1,170	1,176	1,184	1,196	1,207	1,210	1,217	1,215	1,216	1,222	1,242
RETAIL TRADE	6,701	6,741	6,777	6,830	6,866	6,902	6,931	6,978	7,008	7,043	7,087	7,100	7,112
FINANCE, INSURANCE, AND REAL ESTATE	2,556	2,576	2,589	2,602	2,618	2,631	2,646	2,658	2,679	2,696	2,709	2,720	2,742
SERVICES	8,897	8,938	8,986	9,003	9,035	9,109	9,144	9,176	9,220	9,260	9,315	9,333	9,354
GOVERNMENT	6,990	7,015	7,032	7,049	7,066	7,089	7,178	7,229	7,246	7,184	7,129	7,156	7,141
FEDERAL	856	856	847	855	856	858	863	882	874	879	880	877	878
STATE AND LOCAL	6,134	6,159	6,185	6,194	6,210	6,231	6,315	6,347	6,372	6,305	6,249	6,279	6,263

¹ The unadjusted data are shown because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

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	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. P	Dec. P
TOTAL PRIVATE	56,095	56,114	56,348	56,744	57,263	57,428	57,653	57,704	57,771	57,861	58,151	58,548	58,732
GOODS-PRODUCING	17,976	17,954	18,016	18,198	18,541	18,565	18,660	18,675	18,619	18,629	18,795	18,974	19,128
MINING	502	493	494	509	655	659	663	667	668	671	675	684	681
CONSTRUCTION	3,099	3,021	3,023	3,122	3,288	3,303	3,401	3,439	3,419	3,422	3,465	3,487	3,517
MANUFACTURING	14,375	14,440	14,499	14,567	14,598	14,603	14,596	14,569	14,532	14,536	14,655	14,803	14,930
DURABLE GOODS	8,515	8,569	8,620	8,661	8,676	8,685	8,683	8,694	8,693	8,706	8,816	8,908	8,990
Lumber and wood products	646	650	650	647	646	639	641	637	636	636	641	648	654
Furniture and fixtures	397	399	401	405	405	404	400	398	394	395	398	400	403
Stone, clay, and glass products	549	553	551	552	558	557	558	554	549	548	551	558	561
Primary metal industries	922	929	937	933	934	939	939	942	947	953	960	977	985
Fabricated metal products	1,228	1,234	1,247	1,247	1,251	1,257	1,250	1,245	1,245	1,248	1,264	1,279	1,292
Machinery, except electrical	1,477	1,483	1,493	1,507	1,517	1,516	1,533	1,547	1,544	1,550	1,576	1,580	1,596
Electric and electronic equipment	1,258	1,267	1,276	1,288	1,284	1,283	1,284	1,293	1,293	1,290	1,301	1,310	1,318
Transportation equipment	1,312	1,326	1,332	1,342	1,337	1,344	1,327	1,328	1,336	1,337	1,370	1,393	1,412
Instruments and related products	384	386	388	391	394	397	402	407	405	406	408	414	419
Miscellaneous manufacturing ind.	342	342	345	349	350	349	349	343	344	343	347	349	350
NONDURABLE GOODS	5,860	5,871	5,879	5,906	5,922	5,918	5,913	5,875	5,839	5,830	5,839	5,895	5,940
Food and kindred products	1,151	1,156	1,158	1,168	1,167	1,154	1,152	1,142	1,124	1,122	1,122	1,147	1,165
Tobacco manufactures	59	59	59	60	59	60	61	58	54	56	57	56	57
Textile mill products	798	799	798	798	794	795	792	791	785	790	790	794	794
Apparel and other textile products	1,131	1,132	1,131	1,134	1,144	1,140	1,137	1,121	1,127	1,124	1,123	1,124	1,126
Paper and allied products	523	523	525	527	530	535	535	535	523	522	519	527	530
Printing and publishing	653	656	658	663	664	668	668	669	667	657	663	673	683
Chemicals and allied products	617	618	620	620	624	628	628	628	623	624	624	626	629
Petroleum and coal products	135	136	136	137	137	135	136	135	136	137	137	138	141
Rubber and misc. plastics products	575	576	578	583	586	586	587	587	584	581	589	598	605
Leather and leather products	218	216	216	216	217	217	217	209	216	217	215	212	210
SERVICE-PRODUCING	38,119	38,160	38,332	38,546	38,722	38,863	38,993	39,035	39,152	39,232	39,356	39,574	39,604
TRANSPORTATION AND PUBLIC UTILITIES	4,024	4,028	4,044	4,067	4,094	4,086	4,109	4,051	4,066	4,064	4,129	4,149	4,164
WHOLESALE AND RETAIL TRADE ..	16,676	16,737	16,812	16,894	16,952	17,079	17,106	17,165	17,214	17,228	17,288	17,357	17,317
WHOLESALE TRADE	3,943	3,958	3,982	4,007	4,020	4,026	4,043	4,040	4,042	4,053	4,075	4,095	4,101
RETAIL TRADE	12,733	12,779	12,830	12,887	12,932	13,053	13,063	13,125	13,172	13,175	13,213	13,262	13,216
FINANCE, INSURANCE, AND REAL ESTATE	3,453	3,472	3,494	3,500	3,516	3,523	3,546	3,565	3,579	3,591	3,603	3,636	3,647
SERVICES	13,966	13,923	13,982	14,085	14,160	14,175	14,232	14,254	14,293	14,349	14,336	14,432	14,476

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1975				
January.....	18.0	13.1	11.9	15.7
February.....	21.2	12.8	12.8	16.9
March.....	26.5	20.1	18.6	18.3
April.....	41.0	36.6	29.4	20.9
May.....	51.5	43.0	48.3	27.0
June.....	43.0	53.2	57.3	41.0
July.....	56.1	61.6	67.2	54.1
August.....	73.3	73.5	69.2	64.5
September.....	67.4	77.3	75.9	74.1
October.....	68.3	70.6	80.5	79.7
November.....	60.5	74.4	84.0	82.3
December.....	71.5	78.2	83.7	86.3
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.6
April.....	62.8	67.4	68.9	78.5
May.....	56.4	63.7	67.7	79.9p
June.....	67.2	62.5	59.6	79.4p
July.....	54.9	57.0	61.3	
August.....	51.7	49.7	72.4p	
September.....	57.6	58.7	75.9p	
October.....	70.6	76.5p		
November.....	80.8p	82.6p		
December.....	75.6p			

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			Construction			Manufacturing		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
1 ALABAMA	1,278.5	1,302.6	1,303.8	14.6	16.2	16.2	76.5	80.2	78.9	355.5	357.4	357.6
2 Birmingham	333.8	345.0	346.4	9.0	9.4	9.5	21.7	23.7	23.2	64.7	68.0	68.5
3 Huntsville	111.2	113.4	113.2	(1)	(1)	(1)	4.2	4.2	4.0	32.8	33.9	33.7
4 Mobile	142.2	142.3	142.4	(1)	(1)	(1)	11.1	11.1	11.2	30.1	29.2	29.0
5 Montgomery	97.3	98.9	99.4	(1)	(1)	(1)	6.5	6.3	6.1	15.2	15.5	15.7
6 Tuscaloosa	48.8	48.6	48.4	.9	1.0	1.0	3.6	3.7	3.6	8.9	8.8	8.7
7 ALASKA	157.6	161.2	(*)	4.4	5.1	(*)	18.0	15.3	(*)	8.3	10.7	(*)
8 ARIZONA	821.3	872.0	880.2	19.4	20.1	20.1	53.9	68.0	69.2	115.2	124.7	124.7
9 Phoenix	500.7	535.5	544.2	.6	.6	.6	33.1	43.0	44.2	86.2	91.9	93.4
10 Tucson	152.8	162.7	162.3	5.9	5.8	5.8	9.8	13.0	13.2	12.9	15.7	14.5
11 ARKANSAS	711.2	735.7	732.3	4.6	5.0	5.1	38.9	41.7	41.1	214.6	217.0	215.5
12 Fayetteville-Springdale	57.2	59.3	59.4	(1)	(1)	(1)	3.0	3.1	3.0	17.7	18.1	18.0
13 Fort Smith	63.0	65.6	65.2	.6	.8	.8	3.0	3.1	2.9	23.2	24.0	23.9
14 Little Rock-North Little Rock	167.8	169.1	169.3	(1)	(1)	(1)	9.1	10.2	9.8	31.6	30.4	30.2
15 Pine Bluff	29.2	29.7	29.5	(1)	(1)	(1)	1.0	1.2	1.1	6.3	6.1	6.0
16 CALIFORNIA	8,693.9	9,186.5	9,261.8	35.5	36.1	36.3	379.5	434.7	425.6	1,722.3	1,845.8	1,847.0
17 Anaheim-Santa Ana-Garden Grove	693.8	738.5	740.7	2.3	2.4	2.4	43.1	46.5	45.4	177.1	191.8	193.7
18 Bakersfield	113.5	117.3	118.5	9.3	9.8	9.9	5.1	6.0	6.0	9.2	9.5	9.5
19 Fresno	166.7	173.6	173.7	.8	.8	.8	9.0	10.2	10.2	23.0	23.8	23.5
20 Los Angeles-Long Beach	3,274.8	3,412.6	3,436.8	11.4	11.6	11.6	103.4	111.3	111.7	820.6	867.1	873.7
21 Modesto	80.1	85.2	85.6	.1	.1	.1	5.2	5.9	5.9	17.7	19.8	18.9
22 Oxnard-Simi Valley-Ventura	126.7	131.7	132.5	2.2	2.2	2.2	5.8	6.0	6.0	19.5	20.7	20.9
23 Riverside-San Bernardino-Ontario	376.0	395.7	400.1	2.5	2.2	2.2	18.3	21.1	21.1	57.9	62.4	62.5
24 Sacramento	359.6	373.4	375.5	.4	.4	.4	18.6	21.9	21.7	24.1	25.6	25.3
25 Salinas-Seaside-Monterey	82.8	85.1	84.2	.7	.7	.7	3.4	3.5	3.5	9.9	10.7	10.4
26 San Diego	554.8	581.5	586.0	.8	.8	.8	35.1	38.2	38.0	80.5	87.5	88.5
27 San Francisco-Oakland	1,416.3	1,442.4	1,445.8	2.0	1.9	1.9	62.8	67.1	66.4	192.9	193.7	193.7
28 San Jose	542.2	584.4	586.4	.1	.1	.1	23.0	24.8	24.8	170.8	198.1	197.1
29 Santa Barbara-Santa Maria-Lompoc	105.7	107.2	107.7	1.0	1.1	1.1	4.1	4.5	4.5	14.2	14.6	14.8
30 Santa Rosa	77.0	79.8	80.0	.3	.3	.3	4.5	4.8	4.7	11.3	12.5	12.5
31 Stockton	109.0	114.3	112.5	.1	.1	.1	4.8	5.2	5.3	18.7	20.4	19.0
32 Vallejo-Fairfield-Napa	91.1	95.2	94.9	.2	.2	.2	4.2	4.6	4.5	9.0	10.4	9.9
33 COLORADO	1,095.2	1,148.6	1,150.2	25.2	26.9	27.0	68.3	75.4	73.9	157.8	168.7	168.5
34 Denver-Boulder	696.0	723.0	724.6	13.0	14.6	14.7	42.1	45.3	44.3	107.9	114.6	114.7
35 CONNECTICUT	1,303.8	1,345.8	1,356.1	(2)	(2)	(2)	45.1	48.0	48.5	405.6	417.7	421.6
36 Bridgeport	155.9	158.6	160.5	(2)	(2)	(2)	4.5	5.2	5.1	61.2	63.6	64.2
37 Hartford	356.7	364.7	367.7	(2)	(2)	(2)	11.2	11.0	10.9	85.0	88.2	89.7
38 New Britain	57.3	58.6	59.4	(2)	(2)	(2)	1.8	1.9	1.9	27.8	28.3	28.9
39 New Haven-West Haven	176.7	181.1	181.3	(2)	(2)	(2)	6.0	6.6	6.4	44.6	44.4	44.4
40 Stamford	99.4	102.6	102.9	(2)	(2)	(2)	4.5	4.8	4.7	29.0	29.2	29.4
41 Waterbury	84.5	86.0	86.8	(2)	(2)	(2)	2.9	2.9	2.8	32.6	32.9	33.2
42 DELAWARE	242.7	246.7	243.3	(1)	(1)	(1)	16.0	16.5	15.3	69.1	69.8	69.3
43 Wilmington	215.6	218.8	215.1	(1)	(1)	(1)	15.1	15.4	14.3	65.6	66.0	65.8
44 DISTRICT OF COLUMBIA	577.9	578.0	579.5	(1)	(1)	(1)	14.6	15.5	15.3	15.0	14.9	14.9
45 Washington SMSA	1,402.0	1,429.4	1,435.2	(1)	(1)	(1)	74.3	78.6	77.6	50.3	51.2	51.6
46 FLORIDA	2,924.6	3,009.2	3,057.2	8.6	8.9	8.9	179.6	207.9	205.4	384.8	409.8	418.6
47 Fort Lauderdale-Hollywood	261.3	268.2	271.8	(1)	(1)	(1)	20.0	21.1	20.7	31.6	33.7	33.9
48 Jacksonville	266.6	271.2	273.0	(1)	(1)	(1)	14.8	14.6	14.8	32.5	33.6	33.6
49 Miami	618.6	633.6	641.4	(1)	(1)	(1)	26.1	32.3	31.4	89.4	92.9	93.9
50 Orlando	226.2	234.1	237.5	(1)	(1)	(1)	12.7	14.0	14.4	28.1	31.3	31.7
51 Pensacola	89.6	91.9	92.3	(1)	(1)	(1)	6.0	7.2	7.3	13.1	12.8	12.8
52 Tampa-St. Petersburg	447.9	460.3	464.4	(1)	(1)	(1)	28.3	33.2	33.4	61.7	65.5	66.5
53 West Palm Beach-Boca Raton	158.3	161.6	166.1	(1)	(1)	(1)	11.6	13.1	13.3	21.8	22.8	23.5
54 GEORGIA	1,919.3	1,955.2	1,962.3	7.1	7.4	7.4	91.0	99.2	98.6	489.2	506.6	507.3
55 Albany	37.9	40.5	40.9	(1)	(1)	(1)	3.0	3.9	4.4	9.5	10.4	10.6
56 Atlanta	794.9	806.2	812.4	(1)	(1)	(1)	34.0	34.9	34.7	123.7	133.7	133.1
57 Augusta	115.8	120.4	120.3	(1)	(1)	(1)	7.2	5.7	6.6	36.3	36.6	36.6
58 Columbus	80.5	80.5	81.1	(1)	(1)	(1)	5.0	5.1	5.1	20.8	20.7	20.7
59 Macon	94.7	96.4	96.4	(1)	(1)	(1)	4.5	4.7	4.4	15.9	16.0	15.4
60 Savannah	80.9	78.9	80.5	(1)	(1)	(1)	5.6	5.0	5.0	16.4	16.4	16.7

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			
NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	
66.8	69.5	69.4	262.9	266.9	268.6	56.5	57.9	58.0	179.7	182.7	182.6	266.0	271.8	272.5	1
24.9	26.8	26.9	82.2	83.5	84.5	23.0	23.7	23.8	58.3	59.5	59.4	50.0	50.4	50.6	2
2.5	2.6	2.6	21.2	21.8	21.9	3.1	3.2	3.2	16.1	16.2	16.2	31.3	31.5	31.6	3
10.9	10.9	10.8	34.9	35.1	35.5	6.5	6.6	6.6	26.1	26.2	26.1	22.6	23.2	23.2	4
4.5	4.8	4.8	24.4	24.2	24.6	5.6	5.7	5.7	17.3	17.8	17.9	23.8	24.6	24.6	5
1.8	1.7	1.7	9.5	9.4	9.5	1.6	1.7	1.7	5.5	5.4	5.3	17.0	16.9	16.9	6
14.6	14.8	(*)	27.4	28.1	(*)	7.9	7.8	(*)	24.9	26.0	(*)	52.1	53.4	(*)	7
42.3	45.3	45.5	198.1	209.5	213.3	45.9	48.6	48.9	156.5	162.1	163.6	190.0	193.7	194.9	8
25.7	27.9	28.0	130.5	137.7	140.6	35.1	37.0	37.2	95.5	101.3	102.6	94.0	96.1	97.6	9
7.8	8.1	8.1	34.8	36.9	37.4	6.9	7.3	7.4	30.9	32.3	32.8	43.8	43.6	43.1	10
38.6	42.3	42.0	153.0	161.6	160.8	29.7	30.5	30.5	98.3	102.4	102.0	133.5	135.2	135.3	11
2.8	3.0	3.1	13.7	14.5	14.7	2.0	2.2	2.1	7.0	7.7	7.8	11.0	10.7	10.7	12
2.9	3.2	3.2	13.3	13.9	13.9	2.2	2.3	2.3	10.4	10.9	10.9	7.4	7.4	7.3	13
11.4	11.9	11.8	39.4	39.6	40.0	12.0	12.2	12.2	29.9	30.8	31.2	34.4	34.0	34.1	14
3.6	3.6	3.6	6.0	5.8	5.9	1.2	1.3	1.3	4.5	4.7	4.7	6.6	7.0	6.9	15
480.2	507.1	509.5	2,025.5	2,176.0	2,203.2	505.9	533.3	536.4	1,772.0	1,906.1	1,918.6	1,773.0	1,747.4	1,785.2	16
20.9	23.4	23.3	168.4	182.4	185.1	40.6	44.3	44.9	135.9	148.0	148.4	105.5	99.7	101.5	17
7.0	7.3	7.4	29.1	29.9	30.4	4.1	4.3	4.3	18.4	19.3	19.5	31.3	31.2	31.5	18
9.3	9.7	9.7	44.0	47.7	47.3	8.9	9.4	9.4	30.3	31.4	31.6	41.4	40.6	41.2	19
179.6	189.9	192.9	763.1	788.3	798.5	198.4	204.7	205.3	702.1	738.4	740.8	496.2	501.3	502.3	20
3.5	3.7	3.6	20.2	21.8	21.9	2.6	2.7	2.7	14.6	15.3	15.4	16.2	15.9	17.1	21
5.2	5.5	5.6	29.0	32.3	32.5	5.1	5.1	5.1	22.2	22.4	22.6	37.7	37.5	37.6	22
20.5	21.8	21.9	90.5	94.7	95.9	14.8	15.5	15.6	76.2	79.5	80.6	95.3	98.5	100.3	23
18.6	19.6	19.4	81.9	85.0	86.2	17.1	18.8	18.9	61.1	64.8	65.1	137.8	137.3	138.5	24
4.8	5.0	4.9	21.2	22.1	21.8	3.7	3.8	3.8	15.9	16.9	16.8	23.2	22.4	22.3	25
24.7	25.9	26.3	128.3	137.0	139.1	30.7	32.8	33.0	114.5	120.8	120.8	140.2	138.5	139.5	26
120.4	124.4	124.2	327.9	332.6	336.3	122.3	127.4	127.8	296.5	307.5	307.6	291.5	287.8	287.9	27
18.8	19.4	19.5	106.2	111.8	113.6	21.6	22.6	22.6	116.8	124.7	124.9	84.9	82.9	83.8	28
3.8	3.8	3.8	25.5	26.1	26.1	4.5	4.5	4.5	26.6	27.6	27.8	26.0	25.0	25.1	29
3.9	4.2	4.2	18.1	19.2	19.3	4.1	4.4	4.4	14.6	15.2	15.1	20.2	19.2	19.5	30
7.9	7.9	7.8	25.1	27.4	26.8	4.5	4.7	4.7	20.3	21.3	21.3	27.6	27.3	27.5	31
3.7	3.9	3.8	17.6	19.3	19.4	3.0	3.1	3.1	16.4	17.2	17.2	37.0	36.5	36.8	32
64.1	70.4	70.4	278.1	281.9	284.4	63.4	67.0	67.2	212.3	228.1	228.2	226.0	230.1	230.7	33
44.4	48.4	48.3	177.2	177.1	179.0	45.2	47.5	47.7	140.2	149.1	149.0	125.9	126.5	127.0	34
56.9	58.4	58.0	280.2	283.9	287.9	91.4	95.9	95.1	245.6	260.7	261.2	179.0	181.2	183.8	35
5.6	5.7	5.7	32.6	32.8	33.5	6.4	6.4	6.5	28.7	28.3	28.8	16.9	16.5	16.7	36
14.5	15.1	14.8	75.4	76.0	77.0	52.9	55.2	55.3	65.5	69.0	69.4	52.4	50.3	50.7	37
1.4	1.4	1.4	9.7	9.9	10.0	1.5	1.6	1.6	8.4	9.0	9.1	6.6	6.4	6.5	38
14.7	14.9	14.9	37.8	38.3	38.8	9.6	9.9	9.9	40.3	43.5	43.3	23.7	23.6	23.5	39
3.4	3.5	3.5	23.2	23.4	23.6	6.6	6.9	6.9	22.3	23.4	23.4	10.3	11.4	11.4	40
3.0	3.1	3.1	15.6	15.7	16.0	2.9	3.1	3.1	16.2	16.9	16.9	11.3	11.5	11.9	41
12.3	12.4	12.5	53.6	52.8	53.8	11.1	11.1	11.2	39.1	41.1	41.1	41.5	43.0	40.1	42
11.3	11.5	11.5	43.9	43.3	44.0	9.9	9.9	10.0	34.7	36.6	36.4	35.1	36.1	33.1	43
25.5	25.9	25.9	65.3	66.1	66.6	33.4	32.7	32.9	151.6	153.0	153.2	272.5	269.9	270.7	44
63.3	64.5	65.0	274.6	280.2	283.5	81.1	82.6	82.6	334.1	344.0	344.2	524.3	528.3	530.7	45
185.4	183.6	186.0	759.4	768.5	785.3	201.2	211.7	213.7	638.8	649.0	662.6	566.8	569.8	576.7	46
13.5	13.6	13.7	74.9	76.9	80.7	21.8	22.5	22.3	59.4	58.6	59.0	40.1	41.8	41.5	47
21.2	22.0	22.0	69.8	70.1	70.9	27.8	28.9	29.0	48.4	49.3	49.5	52.1	52.7	53.2	48
59.9	62.6	63.0	163.5	162.0	166.0	45.1	46.6	47.0	146.5	147.8	150.3	88.1	89.4	89.8	49
11.4	11.4	12.2	62.6	61.9	63.0	15.4	16.7	16.8	57.9	60.2	60.2	38.1	38.6	39.2	50
4.4	4.5	4.5	20.5	20.7	20.7	3.7	3.6	3.6	16.5	17.0	17.1	25.4	26.1	26.3	51
25.7	25.9	26.2	127.1	126.8	128.4	33.0	34.8	35.1	96.6	97.8	98.8	75.5	76.3	76.0	52
6.9	7.0	7.0	40.9	40.9	42.3	12.2	13.1	13.3	38.5	38.1	39.5	26.4	26.6	27.2	53
121.0	125.1	125.7	444.8	446.7	449.9	99.1	101.9	102.3	283.9	287.0	287.9	383.3	381.2	383.2	54
1.8	2.0	2.0	8.6	8.7	8.6	1.8	1.8	1.8	4.7	4.8	4.7	8.5	8.9	8.9	55
72.0	75.5	75.5	227.3	225.8	230.2	56.7	57.6	57.7	146.7	146.1	146.8	134.5	132.7	134.3	56
3.8	4.0	3.9	21.3	25.3	25.4	4.2	4.3	4.3	14.6	15.2	15.1	28.5	28.4	28.2	57
3.1	3.2	3.2	17.3	17.3	17.4	4.8	5.0	5.0	11.0	10.8	10.8	18.5	18.4	18.7	58
4.4	4.4	4.4	19.0	19.1	19.7	5.7	5.6	5.7	15.1	15.6	15.8	30.2	30.9	31.1	59
8.0	7.3	8.0	18.4	18.7	19.0	3.8	3.9	4.0	13.2	12.8	12.8	15.7	14.8	14.9	60

**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			Construction			Manufacturing		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
1 HAWAII	351.6	363.0	368.6	(1)	(1)	(1)	16.3	20.5	20.6	18.8	22.5	23.1
2 Honolulu	293.8	301.6	306.6	(1)	(1)	(1)	13.2	17.5	17.6	15.2	16.5	17.0
3 IDAHO	317.3	341.1	339.0	3.6	3.8	3.7	19.9	22.8	21.5	56.3	59.3	59.4
4 Boise City	73.3	84.4	84.4	(1)	(1)	(1)	5.8	7.0	7.0	8.3	9.5	9.5
5 ILLINOIS	4,668.5	4,780.6	4,787.3	27.6	26.3	26.3	182.5	196.0	189.9	1,243.2	1,252.6	1,256.6
6 Bloomington—Normal	51.0	52.0	52.4	(2)	(2)	(2)	1.3	1.4	1.4	8.3	8.9	8.6
7 Champaign—Urbana—Rantoul	68.7	69.0	69.2	(2)	(2)	(2)	2.8	3.2	3.1	6.5	6.7	6.7
8 Chicago—Gary	3,399.7	3,473.7	(*)	4.6	4.5	(*)	135.1	153.6	(*)	948.2	963.7	(*)
9 Chicago SMSA	3,151.0	3,226.2	3,233.8	4.5	4.4	4.3	120.1	137.9	136.7	848.7	859.8	861.8
10 Davenport—Rock Island—Moline	155.9	160.6	160.6	(2)	(2)	(2)	6.9	7.2	6.8	47.1	49.3	49.9
11 Decatur	56.6	57.5	57.3	(2)	(2)	(2)	4.0	4.3	4.1	18.3	18.8	18.7
12 Peoria	149.9	154.4	154.3	(2)	(2)	(2)	8.9	9.9	9.8	51.2	53.1	52.7
13 Rockford	115.7	122.8	123.5	(2)	(2)	(2)	3.7	3.9	3.7	50.3	56.9	57.3
14 Springfield	85.9	84.9	84.8	(2)	(2)	(2)	5.1	5.0	4.9	9.7	8.3	8.2
15 INDIANA	2,129.5	2,208.8	2,212.4	8.8	9.5	9.2	93.8	107.5	107.0	719.5	743.4	743.7
16 Anderson	53.1	53.2	53.3	(1)	(1)	(1)	1.2	1.3	1.3	26.6	25.9	25.9
17 Evansville	119.1	121.2	121.3	2.5	2.4	2.4	6.8	7.5	7.5	37.0	37.9	37.8
18 Fort Wayne	164.2	171.5	172.1	(1)	(1)	(1)	6.7	7.3	7.3	59.5	62.2	61.9
19 Gary—Hammond—East Chicago	248.7	254.6	255.4	(1)	(1)	(1)	15.0	15.7	15.8	99.5	103.7	104.2
20 Indianapolis	492.7	502.5	503.9	(1)	(1)	(1)	19.9	20.4	20.0	127.3	129.1	129.3
21 Lafayette—West Lafayette	56.0	58.5	58.6	(1)	(1)	(1)	1.9	2.2	2.1	12.2	13.1	13.0
22 Muncie	50.3	50.4	50.7	(1)	(1)	(1)	2.1	2.2	2.2	14.9	14.5	14.5
23 South Bend	106.6	108.7	109.5	(1)	(1)	(1)	4.5	4.9	5.0	33.0	33.6	33.8
24 Terre Haute	61.5	63.4	63.3	1.2	1.4	1.3	2.5	2.6	2.5	16.4	16.9	16.8
25 IOWA	1,089.7	1,110.2	1,110.1	2.5	2.4	2.4	57.5	60.0	57.5	243.7	248.6	248.7
26 Cedar Rapids	81.1	83.3	83.8	(1)	(1)	(1)	3.8	4.1	4.2	28.2	29.8	29.9
27 Des Moines	171.4	173.2	173.7	(1)	(1)	(1)	7.9	7.7	7.5	24.8	24.8	24.7
28 Dubuque	43.5	44.3	44.6	(1)	(1)	(1)	1.8	2.2	2.0	16.7	16.8	17.0
29 Sioux City	53.8	52.6	52.8	(1)	(1)	(1)	4.4	4.1	4.0	11.0	9.9	9.9
30 Waterloo—Cedar Falls	64.7	63.9	64.6	(1)	(1)	(1)	2.9	2.5	2.5	22.0	21.4	21.9
31 KANSAS	876.3	902.4	907.4	12.2	13.3	13.2	45.0	47.1	46.3	170.9	187.7	188.8
32 Topeka	82.5	84.2	84.9	.2	.2	.2	3.6	3.7	3.6	11.1	11.3	11.5
33 Wichita	177.3	190.8	192.5	1.9	2.1	2.1	9.8	9.8	9.7	49.3	61.8	62.6
34 KENTUCKY	1,204.6	1,258.1	1,257.6	56.3	59.9	60.3	68.0	76.8	75.6	288.3	297.0	297.7
35 Lexington—Fayette	134.3	144.1	145.7	(1)	(1)	(1)	7.0	8.6	8.6	30.1	32.7	33.0
36 Louisville	384.3	403.3	406.1	(1)	(1)	(1)	18.9	22.0	21.7	111.2	111.9	112.3
37 Owensboro	29.5	30.5	30.6	.6	.8	.7	2.0	2.6	2.4	7.5	7.1	7.1
38 LOUISIANA	1,352.4	1,368.8	1,373.8	65.9	67.9	68.1	104.4	106.3	105.7	206.0	207.4	208.9
39 Alexandria	47.7	48.3	48.3	(1)	(1)	(1)	3.0	3.0	3.1	6.1	6.1	6.1
40 Baton Rouge	178.8	183.2	183.1	.9	.8	.8	22.8	24.1	23.9	24.4	24.4	24.5
41 Lafayette	58.0	59.9	60.0	9.5	9.9	9.9	4.7	5.4	5.6	3.6	3.7	3.7
42 Lake Charles	53.3	54.9	54.4	1.4	1.5	1.6	5.5	6.1	5.6	11.8	12.3	12.3
43 Monroe	46.7	48.3	48.3	.3	.3	.3	4.5	5.5	5.6	7.8	8.1	8.1
44 New Orleans	452.2	459.3	461.1	14.2	14.3	14.3	26.6	26.4	26.4	51.9	52.9	53.1
45 Shreveport	134.1	139.1	140.2	4.6	4.9	4.9	8.7	10.1	10.3	28.4	28.5	28.6
46 MAINE	394.7	410.5	407.1	(1)	(1)	(1)	21.5	22.3	21.2	108.8	113.2	112.2
47 Lewiston—Auburn	33.7	34.7	34.8	(1)	(1)	(1)	1.3	1.4	1.3	12.5	12.6	12.7
48 Portland	84.6	87.6	88.0	(1)	(1)	(1)	4.1	4.2	4.0	15.8	16.2	16.2
49 MARYLAND	1,558.2	1,612.6	1,617.3	1.5	1.5	1.5	91.2	98.1	97.3	237.7	247.0	247.0
50 Baltimore	873.1	903.8	907.1	(1)	(1)	(1)	44.3	48.3	47.8	163.7	168.8	168.4
51 MASSACHUSETTS	2,453.9	2,550.0	2,553.2	(1)	(1)	(1)	75.5	83.1	80.5	635.7	658.3	660.7
52 Boston	1,331.4	1,377.9	1,386.0	(1)	(1)	(1)	43.1	45.2	44.9	273.7	285.7	286.0
53 Brockton	55.6	58.5	58.6	-	-	-	1.9	2.1	2.1	11.9	12.3	12.3
54 Fall River	55.3	57.6	57.7	(1)	(1)	(1)	1.4	1.5	1.5	20.7	21.5	21.5
55 Lawrence—Haverhill	104.4	107.0	107.7	(1)	(1)	(1)	2.6	2.7	2.7	39.1	39.1	39.4
56 Lowell	68.2	69.4	69.8	(1)	(1)	(1)	2.5	2.7	2.5	22.9	23.2	23.3
57 New Bedford	61.2	63.3	63.3	(1)	(1)	(1)	1.7	2.1	2.0	24.7	25.9	26.0
58 Springfield—Chicopee—Holyoke	224.6	229.0	229.6	(1)	(1)	(1)	5.6	5.6	5.6	65.3	67.6	67.6
59 Worcester	156.1	160.0	161.0	(1)	(1)	(1)	4.5	4.2	4.2	45.7	47.0	47.4
60 MICHIGAN	3,510.4	3,611.5	3,618.9	10.5	13.5	13.4	139.0	165.8	157.7	1,137.3	1,170.2	1,168.0
61 Ann Arbor	131.5	134.4	137.1	(1)	(1)	(1)	3.0	3.3	3.3	42.3	44.2	44.7
62 Battle Creek	65.5	67.7	67.7	(1)	(1)	(1)	1.8	2.0	1.9	23.3	23.8	23.9

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			
NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	
28.1	28.4	28.5	91.2	90.9	92.8	24.8	25.5	25.8	86.1	89.1	89.8	86.3	86.1	88.0	1
23.2	23.4	23.5	76.4	75.8	77.5	22.0	22.7	23.0	70.2	72.6	73.0	73.6	73.1	75.0	2
18.5	19.8	19.7	80.0	84.0	84.4	16.9	22.1	22.0	53.3	57.9	57.3	68.8	71.4	71.0	3
4.4	4.8	4.8	19.9	21.7	21.8	5.8	9.1	9.3	12.1	13.8	13.8	17.0	18.5	18.2	4
278.1	286.3	286.4	1,078.9	1,077.6	1,086.5	270.6	279.9	280.9	851.7	886.2	884.5	735.9	775.5	776.2	5
3.0	3.0	3.0	11.7	12.2	12.3	7.1	7.3	7.3	7.7	7.7	7.7	11.9	11.5	12.0	6
2.5	2.5	2.5	15.0	15.2	15.3	2.2	2.3	2.4	9.9	9.9	10.0	29.8	29.1	29.2	7
205.3	211.4	(*)	787.8	773.9	(*)	210.5	217.9	(*)	647.7	662.7	(*)	460.5	486.0	(*)	8
190.5	197.4	197.5	739.3	724.6	730.3	201.8	209.8	210.6	615.6	631.2	630.2	430.4	461.0	462.4	9
7.5	7.7	7.6	38.9	40.0	40.1	6.5	6.6	6.6	23.7	24.1	23.9	25.1	25.7	25.7	10
4.7	4.7	4.7	12.1	12.1	12.2	2.5	2.5	2.5	9.5	9.8	9.8	5.4	5.3	5.4	11
8.0	8.3	8.3	35.2	35.4	35.7	6.9	7.2	7.2	26.1	27.5	27.4	13.6	13.1	13.2	12
4.7	4.6	4.7	24.5	24.6	24.8	3.8	3.8	3.9	16.6	16.9	16.9	12.1	12.1	12.2	13
4.9	5.0	4.9	18.6	18.5	18.9	6.5	6.9	6.8	16.5	16.5	16.5	24.6	24.7	24.6	14
106.5	109.6	109.6	466.4	477.9	482.4	92.5	95.8	95.8	292.9	302.2	301.6	349.1	362.9	363.1	15
1.4	1.5	1.6	9.9	10.5	10.6	1.6	1.6	1.6	6.5	6.7	6.6	5.9	5.7	5.7	16
6.4	6.5	6.5	28.7	28.8	29.2	4.0	4.1	4.1	21.5	21.8	21.7	12.2	12.2	12.1	17
10.1	10.7	10.6	38.6	40.2	41.0	9.2	9.6	9.7	24.7	25.9	26.1	15.4	15.6	15.5	18
14.8	14.6	14.1	48.5	49.1	49.9	8.7	8.9	8.8	32.1	32.9	32.9	30.1	29.7	29.7	19
29.9	30.2	30.2	121.0	122.7	124.3	33.8	34.4	34.3	76.0	78.5	78.6	84.8	87.2	87.2	20
1.5	1.6	1.6	10.7	11.2	11.4	2.7	2.8	2.8	7.8	8.2	8.2	19.2	19.4	19.5	21
2.0	2.1	2.1	11.6	11.7	11.9	1.5	1.5	1.5	7.0	7.3	7.3	11.2	11.1	11.2	22
5.1	5.2	5.1	25.3	25.5	25.9	4.9	5.0	5.0	22.0	22.8	22.8	11.8	11.7	11.9	23
3.9	3.8	3.8	14.9	15.6	15.9	2.0	2.0	2.0	8.7	9.0	9.0	11.9	12.1	12.0	24
54.5	54.9	54.6	277.5	279.9	281.0	52.1	53.4	53.3	190.2	198.3	198.0	211.6	212.6	214.7	25
3.8	3.8	3.8	17.4	17.3	17.6	3.9	4.1	4.1	14.3	14.0	14.0	9.8	10.2	10.1	26
10.8	10.6	10.9	46.2	46.3	46.5	18.8	18.9	19.0	34.8	35.4	35.6	28.2	29.3	29.5	27
1.6	1.6	1.6	9.5	9.6	9.8	1.2	1.2	1.2	8.8	9.0	9.1	4.0	3.9	3.8	28
3.5	3.8	3.8	13.7	13.7	13.8	2.7	2.7	2.7	11.2	11.1	11.3	7.2	7.3	7.3	29
2.5	2.5	2.5	13.8	13.7	13.9	1.8	1.9	1.8	10.4	10.3	10.4	11.2	11.6	11.6	30
58.7	59.4	59.9	213.3	217.7	220.0	43.0	44.2	44.2	151.9	157.4	157.1	181.3	175.6	177.9	31
7.6	7.6	7.7	18.3	18.5	18.7	5.7	5.7	5.7	15.1	15.8	15.8	21.0	21.4	21.7	32
10.1	10.1	10.2	40.5	41.5	41.9	9.0	9.1	9.1	34.3	34.1	34.5	22.6	22.3	22.4	33
65.9	69.4	69.1	261.1	270.4	271.8	48.3	51.5	51.7	188.6	193.5	192.8	228.1	239.6	238.6	34
6.2	6.8	6.9	31.1	33.0	33.9	6.2	6.7	6.7	23.3	24.8	25.2	30.4	31.5	31.4	35
23.7	25.4	25.4	84.5	90.6	92.3	21.1	22.2	22.3	70.2	74.6	75.5	54.6	56.6	56.7	36
2.0	2.1	2.1	7.1	7.1	7.4	1.2	1.2	1.2	4.9	5.4	5.4	4.2	4.2	4.3	37
100.1	105.7	105.8	326.9	326.3	329.5	65.5	68.1	68.3	225.2	231.5	232.0	258.4	255.6	255.5	38
2.4	2.4	2.4	11.1	11.0	11.0	2.7	2.7	2.7	8.8	9.3	9.3	13.6	13.8	13.7	39
8.4	9.1	9.1	37.3	36.9	37.4	10.6	10.8	10.8	25.8	26.0	25.6	48.6	51.1	51.0	40
4.3	4.2	4.2	15.6	15.7	15.8	1.9	2.0	2.0	9.4	9.6	9.7	9.0	9.4	9.1	41
2.9	3.1	3.0	12.6	12.6	12.7	2.2	2.3	2.3	8.3	8.3	8.3	8.6	8.7	8.6	42
2.3	2.3	2.3	12.1	12.0	12.0	3.1	3.2	3.2	6.9	7.5	7.5	9.7	9.4	9.3	43
43.8	47.5	47.8	120.4	120.3	121.6	27.3	27.6	27.6	95.4	97.5	97.7	72.6	72.8	72.6	44
9.2	9.7	9.9	34.6	35.1	35.7	6.0	6.2	6.2	21.7	23.0	23.0	20.9	21.6	21.6	45
17.7	18.0	17.8	84.5	90.3	89.2	15.1	15.7	15.5	66.0	69.7	68.4	81.1	81.3	82.7	46
1.1	1.1	1.1	7.8	8.0	8.0	1.4	1.4	1.4	6.5	7.1	7.1	3.1	3.1	3.2	47
4.9	5.0	4.9	22.1	23.8	24.5	6.5	6.8	6.8	17.3	17.8	17.9	13.9	13.8	13.7	48
79.8	84.7	84.6	375.5	382.6	385.8	84.5	87.6	87.4	305.1	323.5	322.9	382.9	387.6	390.8	49
54.5	58.5	58.4	197.0	200.0	203.0	51.6	52.9	52.9	165.0	172.4	172.3	197.0	202.9	204.3	50
114.5	116.7	116.6	549.9	573.1	577.1	138.7	143.1	143.3	545.7	581.6	578.3	393.9	394.1	396.7	51
69.0	68.3	68.1	303.9	307.0	312.3	95.0	98.4	98.9	345.1	371.8	373.5	201.6	201.5	202.3	52
4.0	4.0	3.9	14.9	15.6	15.7	2.0	2.2	2.2	8.6	8.8	8.9	12.3	13.5	13.5	53
1.9	2.0	2.0	12.1	12.6	12.9	2.5	2.8	2.7	8.8	9.3	9.2	7.9	7.9	7.9	54
4.1	4.2	4.1	21.8	23.3	23.6	3.6	3.6	3.7	15.1	15.2	15.1	18.1	18.9	19.1	55
3.1	3.1	3.1	15.0	15.2	15.4	2.1	2.1	2.1	10.4	10.3	10.4	12.2	12.8	13.0	56
2.6	2.6	2.7	12.1	12.0	12.1	1.8	1.9	1.9	8.4	8.6	8.6	9.9	10.2	10.0	57
9.5	9.7	9.8	45.5	45.3	45.5	11.2	11.6	11.6	41.7	42.4	42.6	45.8	46.8	46.9	58
7.1	6.8	7.0	34.3	34.4	34.9	8.3	8.4	8.5	29.7	31.0	30.9	26.5	28.2	28.1	59
149.6	152.0	152.5	716.9	719.0	728.3	141.1	145.5	146.3	581.6	613.2	609.8	634.4	632.3	642.9	60
2.2	2.3	2.3	18.5	17.9	19.1	3.6	3.9	3.9	18.1	17.6	17.6	43.8	45.2	46.2	61
2.1	2.3	2.3	10.9	11.2	11.4	3.5	3.6	3.6	11.4	11.9	11.9	12.5	12.9	12.8	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			Construction			Manufacturing		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
MICHIGAN—Continued												
1 Bay City	35.9	37.8	38.3	(1)	(1)	(1)	1.6	2.0	2.0	11.2	12.0	12.1
2 Detroit	1,727.8	1,772.5	1,778.2	1.3	1.2	1.2	67.4	77.1	74.5	579.0	592.2	591.1
3 Flint	199.7	208.2	209.8	(1)	(1)	(1)	6.7	8.2	8.0	88.3	92.2	93.1
4 Grand Rapids	245.5	254.3	252.3	(1)	(1)	(1)	10.5	12.8	11.9	85.8	90.0	88.3
5 Jackson	51.6	53.6	53.7	(1)	(1)	(1)	1.8	1.5	1.5	15.9	17.5	17.4
6 Kalamazoo—Portage	106.2	109.2	110.0	(1)	(1)	(1)	4.1	4.6	4.4	35.6	36.8	37.1
7 Lansing—East Lansing	187.4	193.2	195.0	(1)	(1)	(1)	5.3	6.1	5.7	43.8	45.3	45.7
8 Muskegon-Norton Shores-Musk. Hgts	60.1	62.6	62.5	(1)	(1)	(1)	2.6	3.3	3.1	22.4	23.2	23.5
9 Saginaw	90.3	93.5	94.8	(1)	(1)	(1)	2.6	3.4	3.4	37.3	38.1	38.6
10 MINNESOTA	1,642.4	1,727.6	1,730.1	5.5	18.7	18.0	79.2	93.3	88.0	343.7	366.0	365.0
11 Duluth—Superior	59.1	60.9	60.3	(1)	(1)	(1)	2.7	2.6	2.5	7.8	8.0	8.2
12 Minneapolis—St. Paul	994.9	1,031.4	1,038.3	(1)	(1)	(1)	41.9	51.0	48.7	224.4	236.1	235.9
13 MISSISSIPPI	780.1	805.9	805.7	7.8	8.1	8.1	42.1	43.8	42.9	236.3	235.5	234.6
14 Jackson	130.3	134.7	135.3	1.1	1.1	1.1	7.4	7.9	8.1	18.4	18.9	18.7
15 MISSOURI	1,874.7	1,909.2	1,907.3	8.7	7.4	7.4	78.3	84.6	80.7	445.0	451.8	453.6
16 Kansas City	598.3	605.6	606.6	.5	.6	.6	25.2	28.0	27.0	123.1	126.3	126.4
17 St. Joseph	36.5	35.7	35.9	(2)	(2)	(2)	1.9	2.0	1.8	9.5	9.2	9.3
18 St. Louis	937.1	957.8	962.0	2.7	2.7	2.7	37.0	42.4	42.3	248.4	254.9	255.8
19 Springfield	78.7	81.1	81.1	(2)	(2)	(2)	3.5	3.9	3.5	18.2	18.0	18.1
20 MONTANA	269.4	281.6	280.7	6.3	7.3	7.3	16.7	18.5	17.1	25.8	27.2	27.0
21 Billings	44.7	46.1	46.2	(1)	(1)	(1)	2.5	2.6	2.5	4.3	4.2	4.2
22 Great Falls	29.7	30.9	31.0	(1)	(1)	(1)	2.0	2.0	1.9	1.8	2.0	2.1
23 NEBRASKA	590.6	605.0	606.5	1.7	1.7	1.6	32.4	35.2	33.9	90.9	95.3	95.2
24 Lincoln	95.6	98.3	98.8				4.4	4.7	4.7	14.2	14.5	14.4
25 Omaha	255.1	256.9	256.5	(2)	(2)	(2)	12.6	12.9	12.4	35.1	36.1	36.0
26 NEVADA	318.9	352.1	352.9	4.2	3.3	3.3	21.1	25.5	25.1	15.6	17.4	17.5
27 Las Vegas	172.9	188.4	189.3	.2	.2	.2	10.5	13.2	13.1	5.7	6.1	6.2
28 Reno	93.6	107.6	107.5	.6	.7	.6	8.0	9.1	8.8	7.0	7.7	7.8
29 NEW HAMPSHIRE	350.6	373.1	372.5	.5	.4	.4	21.4	24.3	24.0	105.2	108.0	109.1
30 Manchester	69.8	73.4	74.1	(2)	(2)	(2)	3.3	3.5	3.4	19.6	19.5	19.5
31 Nashua	51.3	54.9	55.6	(2)	(2)	(2)	2.4	2.7	2.7	22.6	24.3	24.8
32 NEW JERSEY	2,901.7	2,977.0	(*)	3.1	2.8	(*)	107.5	121.0	(*)	784.8	796.4	(*)
33 Atlantic City	65.9	71.8	(*)	-	-	(*)	3.6	3.8	(*)	8.6	7.7	(*)
34 Camden	309.8	318.9	(*)	.1	.1	(*)	12.1	12.6	(*)	68.5	71.2	(*)
35 Hackensack	380.4	387.6	(*)	(1)	(1)	(*)	14.7	16.5	(*)	111.5	113.7	(*)
36 Jersey City	234.0	233.1	(*)	-	-	(*)	4.4	4.3	(*)	74.9	71.7	(*)
37 Long Branch—Asbury Park	148.4	150.5	(*)	(1)	(1)	(*)	6.1	6.5	(*)	24.4	23.8	(*)
38 New Bruns.—Perth Amboy-Sayreville	265.3	271.9	(*)	(1)	(1)	(*)	9.2	9.6	(*)	87.4	91.0	(*)
39 Newark	912.4	939.9	(*)	1.1	1.0	(*)	34.0	37.7	(*)	247.8	253.9	(*)
40 Paterson—Clifton—Passaic	185.6	190.7	(*)	(1)	(1)	(*)	5.7	6.2	(*)	65.7	67.4	(*)
41 Trenton	160.1	163.2	(*)	(1)	(1)	(*)	2.9	3.0	(*)	38.4	37.7	(*)
42 Vineland—Millville—Bridgeton	56.1	58.0	(*)	(1)	(1)	(*)	1.9	1.9	(*)	19.5	19.6	(*)
43 NEW MEXICO	426.3	455.2	455.9	24.2	25.0	25.1	32.0	35.4	34.7	32.9	34.7	34.6
44 Albuquerque	169.4	181.4	181.6	(1)	(1)	(1)	12.5	15.2	15.1	17.0	18.0	17.8
45 NEW YORK	6,927.2	7,008.3	7,034.6	7.5	7.2	7.1	208.5	222.7	216.5	1,482.9	1,494.3	1,502.5
46 Albany-Schenectady-Troy	323.6	325.0	325.1	(1)	(1)	(1)	11.3	11.8	11.4	64.3	62.0	61.7
47 Binghamton	113.3	114.6	115.6	(1)	(1)	(1)	4.7	4.6	4.4	40.8	41.6	42.1
48 Buffalo	505.5	509.5	512.1	(1)	(1)	(1)	19.5	19.9	19.4	145.0	143.8	145.4
49 Elmira	37.4	37.8	37.9	(1)	(1)	(1)	1.8	1.9	1.8	11.6	11.7	11.7
50 Monroe County	326.4	329.5	332.1	(1)	(1)	(1)	9.8	10.0	9.8	129.1	130.9	131.8
51 Nassau—Suffolk	842.2	861.6	861.4	(1)	(1)	(1)	34.4	36.0	34.4	154.6	156.9	157.4
52 New York—Northeastern New Jersey	6,422.3	6,497.8	(*)	3.7	3.5	(*)	187.5	198.2	(*)	1,373.4	1,384.3	(*)
53 New York and Nassau—Suffolk	4,444.6	4,474.7	4,497.3	1.9	1.9	1.9	119.4	123.8	122.0	786.2	786.7	793.1
54 New York SMSA	3,602.4	3,613.1	3,635.9	1.7	1.7	1.7	85.0	87.9	87.6	631.6	629.9	635.7
55 New York City	3,194.9	3,198.6	3,219.0	1.5	1.5	1.5	68.8	71.2	71.3	547.9	543.8	549.0
56 Poughkeepsie	88.8	92.3	92.5	(1)	(1)	(1)	3.0	3.0	2.9	29.0	30.9	30.9
57 Rochester	401.8	406.9	409.4	(1)	(1)	(1)	12.0	12.6	12.4	150.8	153.3	154.1
58 Rockland County	75.7	76.6	77.0	(1)	(1)	(1)	2.5	2.7	2.5	15.1	15.0	15.2
59 Syracuse	254.9	259.8	261.2	(1)	(1)	(1)	12.2	11.7	11.5	59.3	60.9	60.9
60 Utica—Rome	113.4	115.8	115.4	(1)	(1)	(1)	3.4	3.4	3.1	30.8	31.6	31.5
61 Westchester County	320.4	326.6	328.4	(1)	(1)	(1)	13.1	13.3	13.0	67.3	69.8	70.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	
2.1	2.0	2.0	8.9	8.9	9.2	1.1	1.2	1.2	6.0	6.3	6.4	5.0	5.4	5.4	1
82.0	82.9	83.6	347.4	344.2	350.3	81.9	84.0	84.2	312.7	331.1	329.0	256.1	259.8	264.3	2
6.1	6.1	6.1	38.3	39.9	40.3	5.5	5.6	5.9	26.8	28.5	28.7	28.0	27.7	27.7	3
9.6	9.8	9.9	57.1	57.5	58.3	8.5	8.8	8.8	43.5	44.7	44.3	30.5	30.7	30.8	4
4.4	4.5	4.5	10.0	10.5	10.7	1.5	1.6	1.6	9.2	9.4	9.5	8.8	8.6	8.5	5
3.5	3.4	3.4	19.8	20.3	20.6	3.5	3.8	3.8	17.6	18.2	18.4	22.1	22.1	22.3	6
4.4	4.6	4.5	34.2	34.9	35.5	8.5	9.0	9.1	24.3	25.1	25.3	66.9	68.2	69.2	7
3.0	3.1	3.1	11.2	11.6	11.7	1.7	1.8	1.8	8.6	8.8	8.5	10.6	10.8	10.8	8
4.1	4.1	4.2	18.3	18.0	18.5	3.8	3.9	4.0	11.9	12.9	12.9	12.3	13.1	13.2	9
95.2	97.1	98.9	420.9	432.7	437.0	84.4	88.8	89.2	319.7	338.4	336.6	293.7	292.6	297.3	10
6.6	7.4	7.0	16.3	16.8	16.6	2.1	2.1	2.1	11.8	12.3	12.2	11.9	11.7	11.7	11
61.4	62.0	63.9	251.0	254.5	258.6	62.2	65.2	65.6	202.9	214.0	214.2	151.1	148.7	151.4	12
37.3	38.8	38.4	153.4	158.1	159.6	30.4	31.5	31.5	109.5	117.0	117.4	163.2	173.1	173.0	13
8.2	8.2	8.2	31.4	33.6	34.1	10.0	10.3	10.3	25.5	26.1	26.1	28.4	28.5	28.6	14
130.9	134.0	134.1	449.2	457.8	459.6	95.7	97.6	97.3	338.1	346.2	342.2	328.8	329.8	332.4	15
52.1	51.3	52.8	154.3	153.3	154.4	38.8	39.9	39.9	114.9	118.7	117.7	89.4	87.5	87.8	16
2.5	2.4	2.4	8.9	8.3	8.7	1.8	1.9	1.9	6.3	6.2	6.2	5.6	5.7	5.6	17
65.8	68.9	69.0	211.3	210.2	212.5	49.8	50.9	50.9	184.1	190.3	189.9	138.0	137.5	138.9	18
5.6	5.8	5.8	22.1	22.9	23.1	3.0	3.1	3.1	15.6	16.2	16.2	10.7	11.2	11.3	19
20.5	22.7	22.7	68.1	72.3	72.2	11.4	12.3	12.3	49.0	52.1	51.5	71.6	69.2	70.6	20
4.0	4.3	4.4	14.8	15.7	15.7	2.1	2.1	2.2	8.9	9.4	9.4	8.1	7.8	7.8	21
1.8	1.9	1.9	9.8	10.2	10.2	1.9	2.0	2.0	6.2	6.6	6.7	6.2	6.2	6.2	22
42.3	44.8	44.7	155.7	157.8	159.3	38.4	39.2	39.6	101.6	105.6	104.9	127.5	125.4	126.9	23
6.5	7.1	7.0	20.9	21.9	22.1	6.7	6.8	6.9	15.3	15.4	15.5	27.6	27.9	28.2	24
22.2	23.1	23.0	64.9	65.6	66.0	22.2	22.8	22.9	53.2	53.7	53.3	45.0	42.7	42.9	25
18.9	20.7	20.9	63.5	70.3	71.2	13.3	14.5	14.6	131.0	147.1	146.8	51.3	53.3	53.5	26
10.6	11.5	11.6	35.5	39.7	40.2	7.0	7.5	7.6	80.4	86.0	86.2	23.0	24.2	24.2	27
5.9	6.6	6.8	19.7	21.4	21.6	5.0	5.4	5.5	33.1	42.0	41.6	14.3	14.7	14.8	28
12.5	13.1	13.1	76.7	82.6	83.0	16.7	18.0	18.2	63.1	69.9	67.4	54.5	56.8	57.3	29
4.1	4.2	4.2	18.0	19.3	19.8	5.0	5.5	5.5	11.8	12.8	12.9	8.0	8.6	8.8	30
1.7	1.8	1.8	10.1	11.0	11.1	1.7	1.8	1.8	7.7	8.3	8.3	5.1	5.0	5.1	31
182.8	194.1	(*)	651.4	659.1	(*)	144.6	150.8	(*)	525.8	544.4	(*)	501.3	508.4	(*)	32
3.4	3.5	(*)	17.4	18.6	(*)	4.3	4.5	(*)	14.5	19.2	(*)	14.0	14.5	(*)	33
14.9	14.9	(*)	81.9	84.8	(*)	14.7	15.5	(*)	59.9	60.9	(*)	57.7	58.9	(*)	34
18.5	18.1	(*)	113.2	113.1	(*)	14.1	14.5	(*)	65.9	69.1	(*)	42.5	42.6	(*)	35
28.5	29.2	(*)	46.0	47.0	(*)	8.8	8.9	(*)	28.5	28.6	(*)	42.9	43.4	(*)	36
6.0	6.1	(*)	37.5	39.1	(*)	6.8	7.0	(*)	34.2	35.1	(*)	33.5	32.9	(*)	37
17.5	18.0	(*)	60.5	62.4	(*)	8.4	8.5	(*)	35.4	36.9	(*)	47.0	45.5	(*)	38
67.9	70.0	(*)	176.0	177.2	(*)	61.5	64.2	(*)	173.8	183.4	(*)	150.3	152.5	(*)	39
6.7	6.8	(*)	42.8	42.6	(*)	9.1	9.4	(*)	28.3	29.0	(*)	27.2	29.3	(*)	40
5.4	5.4	(*)	24.0	25.2	(*)	6.4	6.7	(*)	38.4	38.7	(*)	44.5	46.5	(*)	41
3.0	3.0	(*)	8.8	9.4	(*)	3.1	3.2	(*)	8.1	8.1	(*)	11.7	12.8	(*)	42
25.6	27.5	27.5	98.4	105.6	106.5	18.6	20.0	20.0	81.5	88.7	88.4	113.1	118.3	119.1	43
9.5	10.7	10.8	43.9	46.8	47.5	9.5	10.2	10.1	37.9	39.8	39.8	39.1	40.7	40.5	44
427.7	426.5	426.8	1,453.6	1,462.6	1,476.9	577.7	584.4	584.2	1,496.6	1,523.1	1,522.7	1,272.6	1,287.5	1,297.9	45
15.0	14.6	14.6	65.1	66.1	66.7	14.4	14.6	14.6	62.4	62.6	62.0	91.2	93.4	94.1	46
4.7	4.6	4.6	21.3	21.9	22.2	3.6	3.7	3.7	15.4	15.6	15.7	22.9	22.6	22.9	47
27.7	28.1	28.1	113.8	112.9	114.2	21.4	22.0	22.0	91.5	93.7	93.7	86.6	89.1	89.4	48
1.4	1.4	1.4	8.3	8.6	8.6	1.0	1.0	1.0	6.3	6.4	6.4	6.9	6.9	7.1	49
10.3	10.0	10.0	61.4	62.0	62.9	14.3	14.7	14.7	62.2	62.7	62.9	39.4	39.3	40.2	50
35.2	35.5	35.5	224.8	229.2	230.1	45.5	46.3	46.5	172.5	178.6	175.9	175.3	179.1	181.6	51
453.5	453.7	(*)	1,389.0	1,389.1	(*)	580.5	588.0	(*)	1,379.0	1,412.8	(*)	1,055.7	1,068.2	(*)	52
314.4	311.6	312.4	950.4	946.9	957.2	478.6	482.6	482.8	1,048.0	1,066.5	1,067.8	745.7	754.8	760.0	53
279.3	276.1	276.8	725.6	717.6	727.1	433.1	436.2	436.3	875.7	888.0	892.1	570.3	575.7	578.4	54
257.5	254.3	255.0	629.9	620.0	628.3	414.2	416.9	417.0	780.9	791.4	795.7	494.1	499.5	501.2	55
2.9	2.8	2.7	15.2	15.4	15.6	2.4	2.5	2.4	15.3	15.6	15.7	21.0	22.3	22.4	56
13.1	13.1	13.0	78.0	78.8	79.8	15.8	16.3	16.2	72.3	73.3	73.3	59.9	59.5	60.5	57
3.6	3.5	3.5	16.1	16.4	16.5	2.2	2.2	2.2	16.1	16.5	16.5	20.3	20.3	20.6	58
14.3	14.4	14.4	56.9	57.7	57.9	14.8	15.0	15.0	49.8	51.6	51.8	47.7	48.6	49.8	59
4.0	4.0	4.0	21.1	21.8	22.0	5.3	5.4	5.4	19.3	20.3	20.0	29.5	29.2	29.5	60
17.5	17.6	17.7	76.5	78.1	79.3	16.3	16.7	16.7	76.6	78.0	77.9	53.1	53.1	53.6	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			Construction			Manufacturing		
		NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
1	NORTH CAROLINA	2,177.5	2,238.7	2,245.0	4.7	5.2	5.2	105.7	113.1	113.1	792.5	808.4	808.6
2	Asheville	65.6	68.6	68.3	(1)	(1)	(1)	3.1	3.4	3.4	20.9	21.8	21.9
3	Charlotte—Gastonia	297.7	303.2	305.1	(1)	(1)	(1)	14.7	14.8	14.9	85.7	85.5	86.1
4	Greensboro—Winston-Salem—High Pt.	359.7	366.2	367.8	(1)	(1)	(1)	15.4	15.4	15.1	143.3	143.9	144.2
5	Raleigh—Durham	234.9	243.4	244.6	(1)	(1)	(1)	11.4	12.4	12.2	37.2	38.6	38.8
6	NORTH DAKOTA	227.1	237.3	235.9	3.5	4.0	3.9	17.9	20.5	19.4	15.6	16.7	16.2
7	Fargo—Moorhead	60.6	63.2	63.1	(2)	(2)	(2)	4.7	5.3	5.0	5.2	5.2	5.1
8	OHIO	4,305.5	4,407.9	4,417.6	30.5	30.9	31.2	174.0	191.3	185.9	1,362.6	1,381.5	1,387.0
9	Akron	263.4	267.8	268.0	.4	.4	.4	8.2	9.1	8.7	85.6	84.0	83.9
10	Canton	151.9	154.6	155.3	.9	1.0	1.0	6.1	7.0	6.9	56.1	56.4	56.5
11	Cincinnati	573.2	593.6	593.6	.5	.5	.5	25.7	28.2	27.7	164.9	170.3	170.9
12	Cleveland	893.9	911.5	913.5	1.5	1.6	1.6	31.4	33.7	33.0	275.4	280.5	281.1
13	Columbus	482.0	491.3	495.4	.8	.9	.9	20.1	22.2	21.7	101.0	101.0	101.7
14	Dayton	352.1	361.3	362.9	.4	.4	.4	13.8	15.9	15.5	111.2	110.7	111.6
15	Toledo	300.4	310.9	312.3	.6	.7	.7	12.0	13.1	12.8	89.8	91.9	92.1
16	Youngstown—Warren	212.4	215.3	215.7	.3	.3	.3	7.9	9.2	8.9	82.4	81.0	80.9
17	OKLAHOMA	998.4	1,041.4	1,042.2	50.5	54.4	54.8	50.8	57.7	56.1	166.2	171.4	172.4
18	Oklahoma City	346.6	375.0	375.4	11.9	13.9	14.0	18.7	25.0	24.7	45.2	48.6	49.1
19	Tulsa	260.4	267.3	268.5	16.1	16.6	16.7	14.1	15.3	15.0	54.6	55.6	56.1
20	OREGON	956.9	1,016.3	1,012.5	1.8	2.1	2.1	43.9	53.0	52.2	210.7	225.1	220.6
21	Eugene—Springfield	99.7	101.9	101.8	(1)	(1)	(1)	5.7	5.5	5.3	20.2	20.6	20.4
22	Jackson County	-	-	-	-	-	-	-	-	-	7.9	7.9	7.4
23	Portland	499.7	528.8	529.5	(1)	(1)	(1)	23.0	28.4	27.8	102.0	108.2	106.9
24	Salem	83.3	87.6	84.3	(1)	(1)	(1)	5.3	5.6	5.3	14.5	16.0	13.4
25	PENNSYLVANIA	4,630.9	4,660.1	4,684.5	49.0	47.2	47.6	194.0	203.1	195.7	1,343.7	1,367.5	1,371.4
26	Allentown—Bethlehem—Easton	262.2	266.2	266.6	(1)	(1)	(1)	10.3	9.8	9.4	106.8	108.2	108.4
27	Altoona	52.1	52.2	52.0	(1)	(1)	(1)	2.7	2.4	2.2	12.9	12.9	12.9
28	Delaware Valley ¹⁰	1,541.5	1,549.5	1,561.4	(1)	(1)	(1)	54.6	57.5	56.0	382.9	382.2	385.3
29	Erie	112.9	116.0	115.9	(1)	(1)	(1)	3.5	4.4	4.3	43.6	45.2	45.1
30	Harrisburg	206.5	211.0	210.8	(1)	(1)	(1)	8.6	10.3	9.7	40.1	41.4	41.7
31	Johnstown	87.6	86.9	87.6	9.0	9.4	9.5	3.8	2.7	2.6	19.5	18.9	19.2
32	Lancaster	144.7	146.5	147.2	(1)	(1)	(1)	6.9	7.8	8.0	58.5	58.9	59.1
33	Northeast Pennsylvania	233.0	232.1	232.5	1.5	1.4	1.4	13.4	10.1	10.0	69.7	70.6	70.0
34	Philadelphia SMSA	1,846.2	1,868.5	1,882.8	(1)	(1)	(1)	65.8	70.2	68.7	450.4	453.0	456.8
35	Philadelphia City ¹¹	802.5	807.1	812.3	(1)	(1)	(1)	16.5	18.1	17.3	156.5	155.4	155.7
36	Pittsburgh	917.7	928.4	934.8	12.0	11.4	11.6	47.2	50.6	49.4	243.3	248.7	250.8
37	Reading	135.5	138.5	139.5	(1)	(1)	(1)	5.1	5.5	5.5	52.4	53.0	54.4
38	Scranton ¹²	83.2	82.3	82.9	(1)	(1)	(1)	2.8	2.1	2.0	26.0	27.1	27.0
39	Wilkes-Barre—Hazleton ¹³	124.1	121.8	122.4	1.3	1.2	1.2	9.5	7.0	6.9	39.1	38.4	38.3
40	Williamsport	47.1	48.6	48.6	(1)	(1)	(1)	1.8	2.1	2.1	18.0	18.2	18.2
41	York	143.8	150.3	148.3	(1)	(1)	(1)	6.4	6.8	6.6	60.7	65.2	63.1
42	RHODE ISLAND	389.6	406.4	408.8	(1)	(1)	(1)	13.1	14.9	15.0	132.2	139.0	138.9
43	Providence—Warwick—Pawtucket	400.5	419.0	422.3	(1)	(1)	(1)	13.2	15.1	15.2	149.6	155.9	155.9
44	SOUTH CAROLINA	1,101.1	1,127.8	1,129.0	1.8	1.9	1.9	68.8	72.4	72.0	385.6	387.7	388.3
45	Charleston—North Charleston	132.8	135.0	134.8	(1)	(1)	(1)	10.7	9.6	9.3	18.3	18.8	18.7
46	Columbia	167.5	171.9	173.2	(1)	(1)	(1)	8.2	8.3	8.4	25.0	25.8	25.9
47	Greenville—Spartanburg	246.6	250.8	251.4	(1)	(1)	(1)	14.9	16.9	16.2	101.6	102.5	102.9
48	SOUTH DAKOTA ¹⁴	230.8	236.2	236.8	2.7	2.6	2.6	13.8	14.3	13.9	24.1	24.7	25.1
49	Rapid City ¹⁴	27.5	29.2	28.9	(2)	(2)	(2)	2.7	3.2	2.9	2.7	2.7	2.7
50	Sioux Falls ¹⁴	51.6	53.5	53.3	(2)	(2)	(2)	3.4	4.0	3.9	7.1	7.1	7.2
51	TENNESSEE	1,676.8	1,716.6	1,726.1	9.4	8.4	8.8	80.2	90.8	91.2	521.0	526.1	528.8
52	Chattanooga	162.8	163.6	164.6	1.1	1.2	1.2	5.9	5.8	5.9	55.8	54.8	55.0
53	Knoxville	185.9	188.3	189.5	1.6	1.6	1.6	11.9	11.6	11.5	52.3	52.1	53.3
54	Memphis	343.9	348.8	349.8	.1	.2	.2	14.7	13.6	13.7	61.6	63.8	63.3
55	Nashville—Davidson	332.7	345.0	(*)	(1)	(1)	(*)	17.4	21.3	(*)	82.1	83.0	(*)
56	TEXAS	4,971.7	5,180.0	5,204.8	160.3	172.6	173.4	347.3	364.1	364.9	916.8	958.9	963.2
57	Amarillo	69.8	72.2	72.0	(1)	(1)	(1)	4.7	5.6	5.5	8.7	9.1	9.1
58	Austin	204.7	216.0	217.4	(1)	(1)	(1)	11.6	13.3	13.3	23.6	26.3	26.4
59	Baumont—Port Arthur—Orange	143.7	144.0	143.9	(1)	(1)	(1)	16.2	15.0	15.2	41.3	41.6	41.7
60	Corpus Christi	104.5	107.7	107.9	4.2	4.3	4.3	9.5	11.5	11.6	13.0	13.3	13.2
61	Dallas-Fort Worth	1,205.1	1,261.8	1,265.4	14.2	16.5	16.6	55.7	61.0	60.7	270.8	285.7	287.0
62	El Paso	140.5	144.8	146.2	(1)	(1)	(1)	8.2	8.4	8.6	28.1	29.5	30.1
63	Galveston—Texas City	69.1	72.6	72.5	(1)	(1)	(1)	5.0	5.9	5.9	11.8	12.0	12.0

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			
NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	
105.5	110.0	109.9	423.0	435.2	439.5	84.4	84.4	84.2	298.0	312.6	311.3	363.7	369.8	373.2	1
3.3	3.4	3.5	13.4	14.2	14.3	2.3	2.4	2.4	11.1	11.3	10.9	11.5	12.1	11.9	2
27.2	27.8	27.9	71.1	72.2	73.6	18.6	18.7	18.7	43.9	46.3	45.7	36.5	37.9	38.2	3
20.2	21.2	21.2	72.0	73.5	74.9	16.2	16.6	16.5	50.4	52.7	52.6	42.2	42.9	43.3	4
10.7	11.7	11.7	47.3	48.0	49.1	13.7	13.9	13.9	48.9	51.4	51.6	65.7	67.4	67.3	5
14.1	15.2	15.2	63.9	65.7	65.9	10.1	10.7	10.8	42.8	44.9	44.7	59.2	59.6	59.8	6
3.7	3.9	3.9	19.1	20.2	20.3	3.5	3.7	3.7	12.4	12.7	12.8	12.0	12.2	12.3	7
224.2	230.4	230.9	942.6	962.2	970.2	185.5	192.8	193.2	735.4	771.9	766.5	650.8	646.8	652.8	8
14.7	14.7	14.6	58.9	61.3	62.1	9.1	9.3	9.4	45.1	47.7	46.8	41.6	41.4	42.1	9
7.6	7.7	7.7	32.6	33.5	33.9	5.7	5.9	5.9	25.1	26.2	26.1	17.7	17.0	17.3	10
32.8	34.3	34.4	134.2	135.8	137.0	29.9	30.2	30.2	104.5	112.5	110.6	80.7	81.9	82.2	11
47.4	48.3	48.4	206.3	209.1	210.9	45.4	45.8	45.7	167.5	177.4	177.3	119.1	115.1	115.6	12
23.6	25.2	25.1	117.1	118.3	121.0	31.8	33.6	33.9	90.9	94.8	94.4	96.6	95.3	96.6	13
12.6	13.5	13.4	73.6	75.2	76.4	12.0	12.7	12.6	64.0	67.2	67.2	64.5	65.7	65.9	14
20.1	21.3	21.5	68.1	70.1	70.8	10.0	10.5	10.6	54.2	57.7	57.5	45.7	45.7	46.5	15
10.1	10.4	10.5	45.2	45.9	46.3	6.9	6.9	7.0	34.0	35.6	35.5	25.7	26.0	26.4	16
59.7	60.9	61.4	237.7	245.1	247.2	49.5	51.3	51.4	163.0	173.8	173.5	221.0	226.8	225.4	17
20.6	21.4	21.4	86.6	89.7	91.2	21.7	23.1	23.1	57.3	63.3	63.7	84.6	90.0	88.2	18
19.6	19.9	19.9	64.1	63.9	64.4	13.3	13.8	14.0	50.7	53.8	53.9	27.9	28.4	28.5	19
54.8	58.5	58.6	231.8	243.5	244.2	58.5	63.0	62.9	165.2	175.1	174.3	190.2	196.0	197.6	20
4.9	5.1	5.1	24.5	24.6	24.6	4.8	4.8	4.8	17.7	18.2	17.9	21.9	23.1	23.7	21
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
32.7	34.7	34.8	129.2	135.0	136.7	38.3	40.3	40.2	96.0	102.5	102.1	78.5	79.7	81.0	23
3.1	3.3	3.3	16.9	17.8	17.8	4.9	5.1	5.1	12.8	13.1	13.0	25.8	26.7	26.4	24
259.9	261.2	261.5	954.2	946.8	964.0	220.0	227.1	228.2	879.0	903.6	900.2	731.1	703.6	715.9	25
12.9	13.5	13.5	45.9	46.9	47.4	7.9	8.1	8.1	40.3	41.3	41.3	38.1	38.4	38.5	26
8.2	8.2	8.1	11.6	11.4	11.4	1.4	1.4	1.4	7.8	8.1	8.1	7.5	7.8	7.9	27
81.8	82.2	82.5	330.5	327.5	334.5	99.7	101.4	101.7	351.7	367.8	368.4	240.3	230.9	233.0	28
5.3	5.4	5.5	21.7	22.1	22.3	4.5	4.7	4.5	19.8	19.8	19.9	14.5	14.4	14.3	29
15.1	14.9	14.9	40.8	41.3	41.4	11.6	12.0	12.2	35.2	35.5	35.2	55.1	55.6	55.7	30
5.6	5.6	5.6	16.5	16.1	16.3	3.7	3.8	3.8	15.3	15.3	15.5	14.2	15.1	15.1	31
6.3	6.8	6.7	31.7	31.1	31.7	4.4	4.6	4.6	22.3	22.5	22.4	14.6	14.8	14.7	32
12.2	12.9	12.9	49.4	49.0	50.0	8.8	9.2	9.3	40.3	40.5	40.1	37.7	38.4	38.8	33
97.2	97.0	97.2	412.6	411.7	419.5	113.8	117.1	117.6	408.8	429.1	430.2	297.6	290.4	292.8	34
55.2	54.9	55.1	159.5	160.4	163.6	65.9	67.0	67.1	201.2	209.4	211.0	147.7	141.9	142.5	35
57.2	56.6	56.5	202.0	204.2	208.1	41.9	42.9	43.0	188.1	188.3	187.6	126.0	125.7	127.8	36
6.4	6.5	6.5	25.3	25.3	25.5	5.2	5.6	5.6	21.7	22.4	22.4	19.4	20.2	19.6	37
4.2	4.5	4.6	19.2	18.3	18.8	3.3	3.4	3.4	16.5	16.2	16.2	11.2	10.7	10.9	38
6.1	6.5	6.5	25.6	25.9	26.5	4.7	5.0	5.0	17.8	17.5	17.4	20.0	20.3	20.6	39
2.3	2.4	2.4	9.3	10.2	10.2	1.8	2.0	2.0	7.8	7.8	7.8	6.1	5.9	5.9	40
6.5	6.7	6.6	30.2	31.1	31.7	3.6	3.9	3.8	19.3	19.5	19.5	17.1	17.1	17.0	41
13.4	13.7	13.6	79.3	81.2	83.1	19.4	20.1	20.2	72.8	77.6	77.3	59.4	59.9	60.7	42
13.3	13.6	13.5	78.9	81.7	84.4	19.3	20.6	20.7	69.9	75.2	74.9	56.3	56.9	57.7	43
45.6	49.9	49.6	204.0	209.1	211.0	41.5	44.2	44.2	133.5	139.7	138.4	220.3	222.9	223.6	44
7.4	8.5	8.6	28.6	28.5	28.8	5.6	5.9	5.9	19.8	20.4	20.5	42.4	43.3	43.0	45
8.5	9.0	9.0	35.7	35.9	36.9	12.3	13.3	13.3	25.1	26.2	25.9	52.7	53.4	53.8	46
9.6	9.8	9.9	46.9	47.4	48.0	8.8	9.1	9.1	32.2	33.0	33.1	32.6	32.1	32.2	47
13.2	13.5	13.8	63.0	63.8	64.4	10.3	11.1	10.9	46.9	48.9	48.9	56.8	57.3	57.2	48
1.8	1.9	1.9	7.9	8.3	8.3	1.3	1.4	1.3	5.6	6.2	6.2	5.5	5.5	5.6	49
4.6	5.0	5.1	15.8	15.2	15.3	3.2	3.2	2.9	11.1	12.2	12.2	6.4	6.8	6.7	50
78.6	82.2	82.4	360.1	370.3	375.2	70.3	71.2	70.9	255.6	258.5	257.7	301.6	309.1	311.1	51
6.3	6.2	6.2	29.9	29.8	30.1	8.3	8.6	8.7	25.7	25.9	26.0	29.8	31.3	31.5	52
7.6	7.7	7.7	38.1	38.3	38.4	6.8	7.0	7.0	27.7	27.9	27.8	39.9	42.1	42.2	53
23.9	25.1	25.2	92.2	91.5	92.8	18.6	18.7	18.7	66.8	68.1	67.6	66.0	67.8	68.3	54
17.7	18.6	(*)	74.2	77.8	(*)	19.8	20.1	(*)	60.3	60.8	(*)	61.2	63.4	(*)	55
313.7	331.9	331.9	1,222.8	1,259.9	1,273.4	277.0	290.2	290.2	856.2	885.1	886.5	877.6	917.3	921.3	56
6.7	6.9	6.9	20.9	21.2	21.2	3.5	3.6	3.6	13.3	13.3	13.3	12.0	12.5	12.4	57
6.5	6.8	6.8	42.7	44.1	44.8	11.7	12.7	12.7	34.2	35.2	35.3	74.4	77.6	78.1	58
10.7	11.3	11.2	29.7	29.4	29.4	5.2	5.4	5.4	22.0	22.4	22.1	18.6	18.9	18.9	59
6.2	6.2	6.2	25.4	25.6	25.7	5.4	5.6	5.6	17.3	17.6	17.6	23.5	23.6	23.7	60
79.5	85.1	85.0	323.3	332.8	336.1	90.6	95.1	95.3	207.3	220.3	219.2	163.7	165.3	165.5	61
9.3	9.2	9.2	36.1	36.1	36.6	6.8	7.2	7.2	24.1	25.0	24.9	27.9	29.4	29.6	62
6.9	7.3	7.2	12.7	13.3	13.3	4.6	4.9	4.9	10.2	10.9	10.8	17.9	18.3	18.4	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			Construction			Manufacturing		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
TEXAS—Continued												
1 Houston	1,197.8	1,255.8	1,260.3	51.2	53.2	53.1	129.3	140.4	140.8	195.8	205.2	205.8
2 Lubbock	85.7	87.9	88.2	(1)	(1)	(1)	5.0	5.6	5.5	14.2	13.5	13.4
3 San Antonio	344.8	357.0	357.8	1.8	1.8	1.7	22.0	24.4	24.2	43.1	45.5	45.4
4 Waco	65.0	66.7	66.7	(1)	(1)	(1)	3.2	3.9	3.7	15.9	16.0	16.0
5 Wichita Falls	48.4	49.2	49.3	2.6	2.5	2.6	2.5	2.6	2.5	8.5	9.0	9.1
6 UTAH ¹⁴	508.8	544.5	548.3	15.9	16.3	16.5	34.1	39.0	38.4	77.3	81.8	82.1
7 Salt Lake City—Ogden ¹⁴	361.6	385.3	388.5	6.8	7.1	7.1	23.4	26.7	26.2	51.7	54.3	54.8
8 VERMONT	179.0	188.8	187.0	.7	.7	.7	9.0	9.5	9.1	44.7	48.5	48.3
9 Burlington ¹⁵	47.7	51.1	51.1	-	-	-	-	-	-	11.0	12.6	12.7
10 Springfield ¹⁵	13.3	14.1	13.8	-	-	-	-	-	-	5.6	6.0	6.0
11 VIRGINIA	1,954.4	2,037.9	2,040.8	22.7	22.9	22.8	117.1	128.0	125.5	407.7	413.0	412.5
12 Bristol	25.1	26.2	26.3	(1)	(1)	(1)	1.0	1.3	1.2	8.5	9.3	9.3
13 Lynchburg	64.7	66.0	66.0	(1)	(1)	(1)	3.1	3.5	3.4	28.4	28.7	28.7
14 Newport News—Hampton	136.4	140.4	139.6	(1)	(1)	(1)	5.8	6.9	6.8	35.3	32.9	32.8
15 Norfolk—Virginia Beach—Portsmouth	260.9	269.8	269.3	(1)	(1)	(1)	15.6	18.3	18.2	28.0	29.0	28.5
16 Northern Virginia ¹⁶	381.3	398.3	401.0	.4	.4	.4	25.4	27.4	27.2	14.4	15.2	15.2
17 Petersburg-Colonial Heights-Hopewell	44.8	44.8	45.1	(1)	(1)	(1)	2.4	2.2	2.1	12.6	12.2	12.3
18 Richmond	303.0	312.8	314.5	.4	.4	.4	18.3	18.9	18.6	53.0	54.5	54.5
19 Roanoke	99.9	102.7	102.8	.2	.2	.2	5.6	5.8	5.6	21.5	21.7	21.6
20 WASHINGTON	1,373.4	1,491.6	(*)	2.2	2.5	(*)	79.3	93.1	(*)	258.2	298.1	(*)
21 Seattle—Everett	634.2	712.7	(*)	(1)	(1)	(*)	34.1	43.8	(*)	115.6	150.7	(*)
22 Spokane	114.5	120.2	(*)	(1)	(1)	(*)	6.7	7.7	(*)	15.7	16.5	(*)
23 Tacoma	126.2	132.2	(*)	(1)	(1)	(*)	6.8	8.3	(*)	21.1	21.1	(*)
24 WEST VIRGINIA ¹⁷	626.4	637.6	639.7	75.3	73.6	75.6	38.7	44.0	42.3	124.8	126.7	126.5
25 Charleston	108.9	108.6	108.9	6.6	6.7	6.8	7.5	7.7	7.5	19.4	19.3	19.3
26 Huntington—Ashland	99.3	100.4	101.2	1.0	1.0	1.0	6.4	6.2	6.5	27.5	28.4	28.3
27 Parkersburg—Marietta	52.8	54.3	54.9	.5	.5	.5	2.9	3.3	3.5	15.8	16.9	16.9
28 Wheeling	65.4	66.4	66.6	7.3	7.1	7.2	3.4	3.8	3.9	14.1	13.9	13.9
29 WISCONSIN	1,836.7	1,924.3	1,925.7	2.5	2.7	2.6	82.4	100.2	96.2	542.4	562.2	562.6
30 Appleton—Oshkosh	113.1	119.0	119.1	(1)	(1)	(1)	5.0	5.9	5.8	44.5	47.2	47.1
31 Eau Claire	41.7	42.1	42.4	(1)	(1)	(1)	1.8	1.6	1.6	8.7	8.5	8.4
32 Green Bay	71.3	74.0	73.3	(1)	(1)	(1)	3.6	3.8	3.7	20.8	21.3	21.1
33 Kenosha	40.7	43.1	43.1	(1)	(1)	(1)	1.2	1.4	1.3	16.1	18.0	18.0
34 La Crosse	40.3	42.0	41.9	(1)	(1)	(1)	1.9	2.1	2.2	10.1	10.5	10.5
35 Madison	154.7	156.6	155.9	(1)	(1)	(1)	7.9	7.9	7.4	18.4	18.1	17.8
36 Milwaukee	630.8	649.4	652.8	(1)	(1)	(1)	23.6	26.4	26.1	203.2	209.5	211.3
37 Racine	67.2	68.8	68.8	(1)	(1)	(1)	2.5	2.8	2.7	28.5	29.7	29.8
38 WYOMING	171.7	188.9	188.1	26.7	30.0	30.3	17.6	20.3	20.2	9.4	9.9	9.3
39 Casper	31.4	35.5	36.4	6.0	7.2	7.8	3.1	4.1	4.0	1.7	1.8	1.8
40 Cheyenne	24.5	27.3	27.1	(1)	(1)	(1)	1.7	2.0	2.0	1.6	1.6	1.6

1 Combined with services.
2 Combined with construction.
3 Area included in Chicago-Gary Standard Consolidated Statistical Area.
4 Revised to 1977 benchmark; not strictly comparable with previously published data.
5 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
6 Subarea of New York-Northeastern New Jersey.
7 Subarea of Rochester Standard Metropolitan Statistical Area.
8 Area included in New York and Nassau-Suffolk combined SMSA's.
9 Subarea of New York Standard Metropolitan Statistical Area.
10 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
11 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.
12 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
13 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
14 Revised to 1977 benchmark; not strictly comparable with previously published data.
15 Total includes data for industry divisions not shown separately.
16 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Stafford Counties, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
17 Revised to December, 1977 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			
NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	
87.6	92.9	93.1	297.2	310.8	313.4	70.4	76.7	76.8	230.9	239.2	239.7	135.4	137.4	137.6	1
4.7	4.8	4.8	26.4	27.0	27.4	4.0	4.2	4.1	13.8	14.4	14.5	17.6	18.4	18.5	2
15.1	16.2	16.2	86.4	87.7	88.5	23.2	24.5	24.4	64.6	66.9	66.9	88.6	90.0	90.5	3
3.2	3.2	3.2	15.2	15.6	15.7	3.6	3.8	3.8	13.0	13.2	13.4	10.9	11.0	10.9	4
2.5	2.5	2.5	12.4	12.4	12.4	2.2	2.3	2.3	7.3	7.5	7.5	10.4	10.4	10.4	5
30.1	33.2	33.2	123.7	131.8	135.0	23.0	24.9	25.1	85.1	93.7	92.9	119.5	123.7	125.1	6
23.8	26.3	26.4	92.6	98.2	100.9	18.9	20.2	20.4	57.5	63.8	63.2	86.8	88.8	89.5	7
8.4	8.8	8.8	37.6	39.7	39.7	7.1	7.3	7.3	39.1	41.7	40.1	32.6	32.7	33.0	8
2.0	2.2	2.1	10.2	10.8	11.1	-	-	-	10.1	10.9	10.5	-	-	-	9
.8	.8	.8	2.1	2.3	2.2	-	-	-	2.5	2.6	2.5	-	-	-	10
107.7	110.3	110.9	412.8	426.1	430.9	91.3	93.8	94.1	327.6	347.2	344.7	467.5	496.6	499.4	11
.9	.8	.8	6.2	6.0	6.1	.8	.9	.9	3.1	3.1	3.1	4.6	4.8	4.9	12
2.5	2.3	2.3	10.9	10.8	11.0	2.8	2.9	2.9	8.7	8.8	8.7	8.3	9.0	9.0	13
4.7	4.8	4.8	24.7	26.0	26.2	4.3	4.5	4.4	24.1	26.3	25.2	37.5	39.0	39.4	14
17.0	17.4	17.2	64.7	65.4	65.9	12.9	13.3	13.2	44.8	46.2	46.0	77.9	80.2	80.3	15
26.4	27.4	27.6	92.4	96.4	97.9	23.9	25.3	25.3	88.2	93.5	94.2	110.2	112.7	113.2	16
1.3	1.4	1.4	8.2	8.1	8.3	1.1	1.1	1.1	5.2	5.2	5.2	14.0	14.6	14.7	17
18.3	18.7	18.9	70.6	70.6	72.3	23.1	23.4	23.4	50.7	52.1	51.6	68.6	74.2	74.8	18
9.9	10.1	10.1	24.0	24.8	25.3	5.5	5.8	5.8	17.6	18.1	17.9	15.6	16.2	16.3	19
78.3	85.7	(*)	341.8	368.2	(*)	77.3	83.9	(*)	250.2	274.0	(*)	286.1	286.1	(*)	20
44.7	47.8	(*)	161.3	174.4	(*)	45.6	49.1	(*)	121.4	134.4	(*)	111.5	112.5	(*)	21
7.5	8.1	(*)	31.8	33.6	(*)	7.3	7.9	(*)	25.6	27.5	(*)	19.9	18.9	(*)	22
5.8	6.4	(*)	30.1	31.6	(*)	6.2	6.5	(*)	25.8	28.6	(*)	30.4	29.7	(*)	23
41.3	41.6	42.0	125.3	126.6	128.5	19.9	20.5	20.5	87.5	89.5	88.9	113.6	115.0	115.5	24
9.0	9.2	9.3	24.7	24.4	24.8	4.6	4.7	4.7	18.2	18.3	18.3	18.7	18.4	18.2	25
9.5	9.3	9.4	20.8	21.1	21.6	3.6	3.6	3.7	13.7	13.9	14.0	17.0	16.9	16.8	26
2.4	2.5	2.4	11.5	11.6	11.7	1.8	1.9	1.9	8.1	8.1	8.4	9.8	9.6	9.6	27
3.6	3.7	3.7	14.5	15.3	15.5	2.4	2.4	2.4	12.3	12.5	12.3	7.6	7.6	7.7	28
87.4	91.0	90.4	421.0	442.9	446.4	80.4	84.5	84.8	323.3	342.8	339.8	297.2	297.9	303.0	29
4.1	4.1	4.1	23.2	24.3	24.5	4.4	4.6	4.6	17.2	18.1	17.9	14.7	14.9	15.1	30
2.4	2.4	2.5	10.4	11.0	11.0	1.3	1.3	1.3	7.9	8.2	8.1	9.1	9.0	9.5	31
4.4	4.5	4.5	16.8	18.0	17.7	2.4	2.6	2.6	13.3	13.7	13.7	10.1	10.0	10.0	32
1.6	1.6	1.5	7.9	8.1	8.2	.8	.8	.8	7.2	7.3	7.4	5.9	5.9	5.9	33
2.2	2.1	2.2	10.7	11.5	11.5	.9	.9	.9	8.2	8.5	8.4	6.3	6.3	6.3	34
5.4	5.4	5.4	34.1	35.2	35.5	10.5	11.3	11.3	25.0	25.9	25.8	53.4	52.8	52.7	35
32.4	33.5	33.5	138.5	142.5	144.5	32.3	33.3	33.4	124.3	130.1	129.8	76.4	74.2	74.3	36
2.7	2.4	2.5	12.3	12.8	12.8	2.1	2.2	2.2	10.1	10.4	10.3	9.1	8.4	8.5	37
13.3	14.3	14.4	37.9	42.0	42.9	5.7	6.2	6.2	22.5	24.9	23.9	38.6	41.3	40.9	38
2.2	2.3	2.4	8.1	9.8	10.3	1.3	1.3	1.3	4.5	4.6	4.5	4.5	4.4	4.3	39
3.4	3.7	3.7	5.9	6.5	6.6	1.4	1.4	1.4	3.9	4.0	3.7	6.6	8.1	8.1	40

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
-	TOTAL PRIVATE	\$193.86	\$195.48	\$210.37	\$210.15	\$212.40	\$5.40	\$5.40	\$5.86	\$5.87	\$5.90
-	MINING	317.80	289.08	348.29	351.35	352.59	7.19	6.77	7.97	8.04	8.05
10	METAL MINING	309.10	318.37	360.29	364.04	-	7.67	7.69	8.64	8.73	-
101	Iron ores	331.67	309.60	371.60	379.38	-	7.47	7.74	8.89	8.99	-
102	Copper ores	296.29	311.64	367.69	371.96	-	7.88	7.95	8.86	8.92	-
11, 12	COAL MINING	374.41	270.68	397.13	412.57	-	8.49	8.08	9.83	9.87	-
12	BITUMINOUS COAL AND LIGNITE MINING	375.29	269.10	399.33	413.82	-	8.51	8.13	9.86	9.90	-
13	OIL AND GAS EXTRACTION	293.40	294.54	326.95	323.73	-	6.52	6.56	7.17	7.21	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	299.21	307.23	336.58	336.15	-	7.28	7.35	8.13	8.10	-
138	Oil and gas field services	290.78	289.54	323.74	318.08	-	6.20	6.24	6.83	6.87	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	269.25	261.76	302.15	298.88	-	6.01	5.99	6.54	6.54	-
142	Crushed and broken stone	262.48	250.13	302.10	294.51	-	5.82	5.75	6.32	6.32	-
-	CONSTRUCTION	298.19	299.27	336.55	323.60	328.99	8.26	8.29	8.88	8.89	8.94
15	GENERAL BUILDING CONTRACTORS	279.00	276.02	300.82	293.59	-	7.75	7.71	8.31	8.27	-
152	Residential building construction	262.43	263.16	284.76	277.02	-	7.31	7.31	7.91	7.87	-
153	Operative builders	243.89	240.08	259.19	253.82	-	6.87	6.84	7.24	7.17	-
154	Nonresidential building construction	304.08	298.21	327.57	319.34	-	8.40	8.33	8.95	8.92	-
16	HEAVY CONSTRUCTION CONTRACTORS	286.48	287.28	350.70	324.87	-	7.66	7.56	8.35	8.33	-
161	Highway and street construction	271.32	262.39	348.83	301.09	-	7.14	6.78	7.91	7.76	-
162	Heavy construction, except highway	294.57	298.21	352.97	336.57	-	7.94	7.91	8.63	8.63	-
17	SPECIAL TRADE CONTRACTORS	314.16	316.48	349.65	339.97	-	8.80	8.89	9.45	9.47	-
171	Plumbing, heating, air conditioning	328.19	340.86	367.10	360.96	-	8.87	8.97	9.61	9.60	-
172	Painting, paper hanging, decorating	275.22	278.56	312.02	305.01	-	8.24	8.34	8.74	8.79	-
173	Electrical work	365.02	373.16	403.01	400.14	-	9.76	9.82	10.55	10.53	-
174	Masonry, stonework, and plastering	292.56	285.36	325.33	314.50	-	8.63	8.70	9.19	9.25	-
175	Carpentering and flooring	274.92	268.60	305.09	293.94	-	7.90	7.90	8.57	8.52	-
176	Roofing and sheet metal work	247.62	234.96	277.70	269.78	-	7.69	7.78	8.12	8.25	-
-	MANUFACTURING	238.10	243.31	256.59	260.53	265.74	5.85	5.92	6.32	6.37	6.45
24, 25, 32-39	DURABLE GOODS	258.75	265.86	279.19	283.30	290.07	6.25	6.33	6.76	6.81	6.89
20-23, 26-31	NONDURABLE GOODS	208.03	211.47	222.78	226.46	229.43	5.24	5.30	5.64	5.69	5.75
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	208.95	210.80	233.11	228.05	227.48	5.25	5.27	5.77	5.73	5.73
241	Logging camps and logging contractors	258.00	255.13	321.30	287.47	-	6.88	6.84	7.56	7.39	-
242	Sawmills and planing mills	222.77	226.19	243.54	240.17	-	5.46	5.49	5.94	5.93	-
2421	Sawmills and planing mills, general	234.36	238.71	257.70	252.72	-	5.73	5.78	6.27	6.24	-
2426	Hardwood dimension and flooring	151.10	155.74	165.64	166.87	-	3.74	3.78	4.04	4.10	-
243	Millwork, plywood, and structural members	207.08	211.70	224.07	225.44	-	5.19	5.24	5.63	5.65	-
2431	Millwork	196.12	197.78	209.91	211.62	-	4.94	4.92	5.41	5.44	-
2434	Wood kitchen cabinets	180.69	183.74	201.17	205.65	-	4.73	4.81	5.08	5.18	-
2435	Hardwood veneer and plywood	171.74	176.35	182.96	184.68	-	4.23	4.27	4.54	4.56	-
2436	Softwood veneer and plywood	273.97	282.63	290.90	292.93	-	6.57	6.65	7.13	7.11	-
244	Wooden containers	146.69	150.15	161.20	162.86	-	3.85	3.85	4.22	4.23	-
245	Wood buildings and mobile homes	188.07	182.57	211.68	207.90	-	4.81	4.83	5.40	5.40	-
2451	Mobile homes	187.89	185.65	207.13	203.52	-	4.83	4.86	5.38	5.37	-
249	Miscellaneous wood products	176.14	177.80	188.47	189.81	-	4.36	4.39	4.70	4.71	-
25	FURNITURE AND FIXTURES	177.91	182.66	189.29	189.21	194.57	4.47	4.51	4.78	4.79	4.84
251	Household furniture	164.30	170.91	176.46	176.79	-	4.17	4.22	4.49	4.51	-
2511	Wood household furniture	154.33	158.62	166.38	168.00	-	3.82	3.85	4.17	4.20	-
2512	Upholstered household furniture	172.97	184.86	187.11	187.60	-	4.54	4.61	4.81	4.86	-
2514	Metal household furniture	167.35	171.35	174.65	171.97	-	4.28	4.36	4.56	4.49	-
2515	Mattresses and bedsprings	185.96	190.81	196.21	193.67	-	4.83	4.88	5.07	5.07	-
252	Office furniture	209.99	213.27	212.05	212.98	-	5.06	5.09	5.21	5.22	-
253	Public building and related furniture	205.42	205.13	211.04	212.22	-	5.11	5.09	5.16	5.24	-
254	Partitions and fixtures	216.00	215.60	230.00	227.26	-	5.40	5.39	5.75	5.71	-
259	Miscellaneous furniture and fixtures	198.58	198.00	205.80	208.69	-	4.82	4.95	5.25	5.27	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p
-	TOTAL PRIVATE	35.9	36.2	35.9	35.8	36.0	-	-	-	-	-
-	MINING	44.2	42.7	43.7	43.7	43.8	-	-	-	-	-
10	METAL MINING	40.3	41.4	41.7	41.7	-	-	-	-	-	-
101	Iron ores	44.4	40.0	41.8	42.2	-	-	-	-	-	-
102	Copper ores	37.6	39.2	41.5	41.7	-	-	-	-	-	-
11, 12	COAL MINING	44.1	33.5	40.4	41.8	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	44.1	33.1	40.5	41.8	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.0	44.9	45.6	44.9	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.1	41.8	41.4	41.5	-	-	-	-	-	-
138	Oil and gas field services	46.9	46.4	47.4	46.3	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.8	43.7	46.2	45.7	-	-	-	-	-	-
142	Crushed and broken stone	45.1	43.5	47.8	46.6	-	-	-	-	-	-
-	CONSTRUCTION	36.1	36.1	37.9	36.4	36.8	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.0	35.8	36.2	35.5	-	-	-	-	-	-
152	Residential building construction	35.9	36.0	36.0	35.2	-	-	-	-	-	-
153	Operative builders	35.5	35.1	35.8	35.4	-	-	-	-	-	-
154	Nonresidential building construction	36.2	35.8	36.6	35.8	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	37.4	38.0	42.0	39.0	-	-	-	-	-	-
161	Highway and street construction	38.0	38.7	44.1	38.8	-	-	-	-	-	-
162	Heavy construction, except highway	37.1	37.7	40.9	39.0	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	35.7	35.6	37.0	35.9	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.0	38.0	38.2	37.6	-	-	-	-	-	-
172	Painting, paper hanging, decorating	33.4	33.4	35.7	34.7	-	-	-	-	-	-
173	Electrical work	37.4	38.0	38.2	38.0	-	-	-	-	-	-
174	Masonry, stonework, and plastering	33.9	32.8	35.4	34.0	-	-	-	-	-	-
175	Carpentering and flooring	34.8	34.0	35.6	34.5	-	-	-	-	-	-
176	Roofing and sheet metal work	32.2	30.2	34.2	32.7	-	-	-	-	-	-
-	MANUFACTURING	40.7	41.1	40.6	40.9	41.2	3.6	3.7	3.8	3.8	3.9
24, 25, 32-39	DURABLE GOODS	41.4	42.0	41.3	41.6	42.1	3.9	4.0	4.1	4.1	4.3
20-23, 26-31	NONDURABLE GOODS	39.7	39.9	39.5	39.8	39.9	3.3	3.3	3.4	3.3	3.4
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.8	40.0	40.4	39.8	39.7	3.6	3.6	4.0	3.7	-
241	Logging camps and logging contractors	37.5	37.3	42.5	38.9	-	3.4	3.5	5.7	4.0	-
242	Sawmills and planing mills	40.8	41.2	41.0	40.5	-	4.4	4.5	4.8	4.5	-
2421	Sawmills and planing mills, general	40.9	41.3	41.1	40.5	-	4.5	4.6	5.0	4.8	-
2426	Hardwood dimension and flooring	40.4	41.2	41.0	40.7	-	3.8	4.2	3.9	3.6	-
243	Millwork, plywood, and structural members	39.9	40.4	39.8	39.9	-	3.3	3.5	3.3	3.4	-
2431	Millwork	39.7	40.2	38.8	38.9	-	2.6	2.8	2.3	2.3	-
2434	Wood kitchen cabinets	38.2	38.2	39.6	39.7	-	2.3	2.5	2.4	2.6	-
2435	Hardwood veneer and plywood	40.6	41.3	40.3	40.5	-	4.0	4.3	3.8	3.9	-
2436	Softwood veneer and plywood	41.7	42.5	40.8	41.2	-	4.9	5.0	5.0	5.3	-
244	Wooden containers	38.1	39.0	38.2	38.5	-	2.8	3.2	3.1	3.1	-
245	Wood buildings and mobile homes	39.1	37.8	39.2	38.5	-	2.5	2.1	2.7	2.4	-
2451	Mobile homes	38.9	38.2	38.5	37.9	-	2.5	2.2	2.1	1.9	-
249	Miscellaneous wood products	40.4	40.5	40.1	40.3	-	3.6	3.5	3.6	3.7	-
25	FURNITURE AND FIXTURES	39.8	40.5	39.6	39.5	40.2	2.9	3.1	2.8	2.7	-
251	Household furniture	39.4	40.5	39.3	39.2	-	2.8	3.1	2.8	2.6	-
2511	Wood household furniture	40.4	41.2	39.9	40.0	-	3.4	3.5	3.4	3.4	-
2512	Upholstered household furniture	38.1	40.1	38.9	38.6	-	2.1	2.8	2.2	1.9	-
2514	Metal household furniture	39.1	39.3	38.3	38.3	-	1.7	1.6	1.8	1.5	-
2515	Mattresses and bedspreads	38.5	39.1	38.7	38.2	-	2.8	3.4	3.2	2.1	-
252	Office furniture	41.5	41.9	40.7	40.8	-	3.6	3.8	2.7	2.8	-
253	Public building and related furniture	40.2	40.3	40.9	40.5	-	3.3	3.3	2.6	2.9	-
254	Partitions and fixtures	40.0	40.0	40.0	39.8	-	2.9	2.8	3.4	2.9	-
259	Miscellaneous furniture and fixtures	41.2	40.0	39.2	39.6	-	2.8	2.3	2.2	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	\$249.37	\$249.00	\$274.10	\$274.72	\$275.14	\$5.98	\$6.00	\$6.48	\$6.51	\$6.52
321	Flat glass	327.82	345.80	357.47	372.86	-	7.40	7.60	8.18	8.36	-
322	Glass and glassware, pressed or blown	250.88	252.10	272.83	273.78	-	6.21	6.24	6.72	6.76	-
3221	Glass containers	261.39	261.79	286.71	284.72	-	6.47	6.48	7.01	7.03	-
3229	Pressed and blown glass, nec	236.34	238.36	254.47	259.20	-	5.85	5.90	6.33	6.40	-
323	Products of purchased glass	243.79	248.21	276.68	279.72	-	5.99	6.01	6.51	6.49	-
324	Cement, hydraulic	345.56	342.32	377.40	404.36	-	8.15	8.17	8.88	9.19	-
325	Structural clay products	198.65	199.55	214.61	220.06	-	4.81	4.82	5.26	5.29	-
326	Pottery and related products	195.42	198.97	209.22	212.53	-	4.91	5.05	5.27	5.30	-
327	Concrete, gypsum, and plaster products	256.71	247.63	287.30	277.56	-	5.97	5.91	6.50	6.47	-
3271	Concrete block and brick	236.03	228.11	263.14	258.98	-	5.34	5.38	5.90	5.94	-
3272	Concrete products, nec	231.63	224.35	245.23	243.49	-	5.45	5.38	5.77	5.77	-
3273	Ready-mixed concrete	277.02	264.71	324.27	302.57	-	6.58	6.52	7.19	7.17	-
329	Misc. nonmetallic mineral products	247.87	254.40	272.00	278.21	-	5.93	6.00	6.40	6.44	-
3291	Abrasive products	239.78	248.40	255.19	261.02	-	5.75	6.00	6.27	6.32	-
3292	Asbestos products	271.06	276.95	293.26	293.91	-	6.26	6.28	6.59	6.59	-
33	PRIMARY METAL INDUSTRIES	319.19	325.14	352.80	360.82	364.23	7.71	7.76	8.42	8.51	8.55
331	Blast furnace and basic steel products	352.15	357.69	400.75	412.16	-	8.76	8.81	9.68	9.79	-
3312	Blast furnaces and steel mills	359.00	365.52	411.18	423.19	-	9.02	9.07	9.98	10.10	-
3317	Steel pipe and tubes	313.34	312.28	326.70	331.33	-	7.39	7.40	7.76	7.87	-
332	Iron and steel foundries	294.68	308.62	315.78	319.60	-	6.95	7.03	7.43	7.52	-
3321	Gray iron foundries	306.16	326.31	322.06	324.28	-	7.17	7.30	7.56	7.63	-
3322	Malleable iron foundries	305.14	308.45	331.64	336.20	-	7.30	7.14	8.03	8.20	-
3325	Steel foundries, nec	267.07	269.19	300.48	308.02	-	6.42	6.44	7.07	7.18	-
333	Primary nonferrous metals	343.48	339.04	370.86	374.36	-	8.12	8.15	8.83	8.85	-
3334	Primary aluminum	365.44	362.64	397.71	390.31	-	8.87	8.91	9.38	9.30	-
335	Nonferrous rolling and drawing	296.34	295.64	322.07	329.18	-	6.94	6.94	7.49	7.55	-
3351	Copper rolling and drawing	259.79	277.76	300.40	301.53	-	6.23	6.40	6.89	6.90	-
3353	Aluminum sheet, plate, and foil	358.09	363.10	391.19	399.81	-	8.27	8.29	9.14	9.17	-
3357	Nonferrous wire drawing and insulating	279.97	269.21	299.34	310.03	-	6.65	6.55	7.06	7.16	-
336	Nonferrous foundries	247.70	256.88	262.26	264.16	-	5.94	6.03	6.35	6.35	-
3361	Aluminum foundries	257.46	266.45	272.33	276.05	-	6.13	6.24	6.61	6.62	-
34	FABRICATED METAL PRODUCTS	251.10	257.04	266.09	270.10	277.62	6.08	6.12	6.49	6.54	6.61
341	Metal cans and shipping containers	304.38	320.68	354.75	357.40	-	7.37	7.51	8.25	8.37	-
3411	Metal cans	311.88	331.27	365.93	368.94	-	7.57	7.74	8.51	8.62	-
342	Cutlery, hand tools, and hardware	248.53	247.38	249.27	251.53	-	5.96	5.89	6.17	6.18	-
3423, 5	Hand and edge tools, and hand saws and blades	225.50	232.39	237.60	240.99	-	5.50	5.52	5.94	5.98	-
3429	Hardware, nec	267.13	262.48	260.89	260.71	-	6.33	6.22	6.41	6.39	-
343	Plumbing and heating, except electric	210.94	222.09	226.46	230.35	-	5.30	5.43	5.69	5.73	-
3432	Plumbing fittings and brass goods	199.68	208.55	222.56	227.26	-	5.12	5.24	5.55	5.57	-
3433	Heating equipment, except electric	208.24	220.37	221.43	224.53	-	5.18	5.31	5.62	5.67	-
344	Fabricated structural metal products	235.48	239.61	249.46	252.32	-	5.80	5.83	6.19	6.23	-
3441	Fabricated structural metal	244.22	248.05	264.55	271.58	-	6.03	6.05	6.50	6.56	-
3442	Metal doors, sash, and trim	184.00	189.72	195.92	195.22	-	4.60	4.65	4.96	4.98	-
3443	Fabricated plate work (boiler shops)	263.49	266.85	273.78	276.76	-	6.38	6.43	6.76	6.80	-
3444	Sheet metal work	239.99	244.22	252.49	251.70	-	5.97	6.03	6.36	6.34	-
3446	Architectural metal work	228.83	230.74	241.38	246.65	-	5.65	5.56	6.08	6.09	-
345	Screw machine products, bolts, etc.	246.67	251.87	263.34	269.19	-	5.71	5.79	6.11	6.16	-
3451	Screw machine products	230.37	232.09	242.65	247.66	-	5.37	5.41	5.75	5.80	-
3452	Bolts, nuts, rivets, and washers	262.74	271.83	284.89	290.55	-	6.04	6.15	6.46	6.50	-
346	Metal forgings and stampings	300.04	310.31	318.02	326.40	-	7.11	7.15	7.59	7.68	-
3462	Iron and steel forgings	329.22	350.47	350.65	356.87	-	7.82	8.02	8.27	8.28	-
3465	Automotive stampings	362.90	374.40	382.12	396.20	-	8.42	8.32	8.97	9.15	-
3469	Metal stampings, nec	222.73	227.27	237.56	239.29	-	5.38	5.45	5.78	5.78	-
347	Metal services, nec	204.50	203.53	211.93	212.74	-	5.00	4.94	5.22	5.24	-
3471	Plating and polishing	192.78	195.23	203.52	205.74	-	4.76	4.75	5.05	5.08	-
3479	Metal coating and allied services	232.41	224.93	232.37	231.65	-	5.56	5.42	5.64	5.65	-
348	Ordnance and accessories, nec	236.34	248.05	256.94	257.44	-	5.85	5.92	6.36	6.42	-
3483	Ammunition, exc. for small arms, nec	218.44	229.77	231.00	233.55	-	5.53	5.51	6.00	6.13	-
349	Misc. fabricated metal products	237.31	243.02	251.94	255.23	-	5.76	5.80	6.16	6.18	-
3494	Valves and pipe fittings	261.01	269.18	270.17	277.53	-	6.07	6.09	6.51	6.53	-
3496	Misc. fabricated wire products	207.36	210.83	219.35	221.65	-	5.12	5.18	5.47	5.50	-
35	MACHINERY, EXCEPT ELECTRICAL	272.61	281.22	291.48	297.50	305.86	6.46	6.54	6.94	7.00	7.08
351	Engines and turbines	330.17	338.34	344.42	351.90	-	7.59	7.76	8.22	8.28	-
3511	Turbines and turbine generator sets	288.23	294.89	320.46	316.58	-	7.03	7.21	7.63	7.61	-
3519	Internal combustion engines, nec	348.33	354.57	353.64	364.23	-	7.81	7.95	8.44	8.51	-
352	Farm and garden machinery	279.30	302.45	308.33	315.18	-	7.00	7.15	7.67	7.65	-
3523	Farm machinery and equipment	284.57	309.94	316.76	324.21	-	7.15	7.31	7.86	7.85	-
353	Construction and related machinery	290.37	298.78	316.30	317.90	-	6.93	7.03	7.46	7.48	-

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	41.7	41.5	42.3	42.2	42.2	4.6	4.4	5.2	4.9	-
321	Flat glass	44.3	45.5	43.7	44.6	-	7.2	6.7	5.8	6.4	-
322	Glass and glassware, pressed or blown	40.4	40.4	40.6	40.5	-	4.1	4.1	4.2	4.1	-
3221	Glass containers	40.4	40.4	40.9	40.5	-	4.5	4.7	4.8	4.5	-
3229	Pressed and blown glass, nec	40.4	40.4	40.2	40.5	-	3.6	3.3	3.4	3.5	-
323	Products of purchased glass	40.7	41.3	42.5	43.1	-	3.7	3.7	5.6	6.1	-
324	Cement, hydraulic	42.4	41.9	42.5	44.0	-	4.2	4.0	4.4	3.9	-
325	Structural clay products	41.3	41.4	40.8	41.6	-	4.3	4.5	4.4	4.2	-
326	Pottery and related products	39.8	39.4	39.7	40.1	-	2.8	2.6	2.9	3.0	-
327	Concrete, gypsum, and plaster products	43.0	41.9	44.2	42.9	-	6.0	5.3	7.2	6.2	-
3271	Concrete block and brick	44.2	42.4	44.6	43.6	-	6.5	5.6	7.7	7.0	-
3272	Concrete products, nec	42.5	41.7	42.5	42.2	-	5.2	4.7	6.0	5.6	-
3273	Ready-mixed concrete	42.1	40.6	45.1	42.2	-	6.1	5.1	7.7	6.0	-
329	Misc. nonmetallic mineral products	41.8	42.4	42.5	43.2	-	3.9	4.3	4.6	4.7	-
3291	Abrasive products	41.7	41.4	40.7	41.3	-	3.5	3.8	3.6	3.9	-
3292	Asbestos products	43.3	44.1	44.5	44.6	-	4.2	4.7	5.3	4.7	-
33	PRIMARY METAL INDUSTRIES	41.4	41.9	41.9	42.4	42.6	3.8	4.1	4.3	4.4	-
331	Blast furnace and basic steel products	40.2	40.6	41.4	42.1	-	2.4	2.8	3.6	3.6	-
3312	Blast furnaces and steel mills	39.8	40.3	41.2	41.9	-	2.2	2.6	3.5	3.5	-
3317	Steel pipe and tubes	42.4	42.2	42.1	42.1	-	4.4	4.2	4.4	4.4	-
332	Iron and steel foundries	42.4	43.9	42.5	42.5	-	5.4	6.0	5.2	5.3	-
3321	Gray iron foundries	42.7	44.7	42.6	42.5	-	5.9	6.6	5.6	5.7	-
3322	Malleable iron foundries	41.8	43.2	41.3	41.0	-	4.9	4.9	5.1	5.1	-
3325	Steel foundries, nec	41.6	41.8	42.5	42.9	-	4.2	4.7	4.4	4.7	-
333	Primary nonferrous metals	42.3	41.6	42.0	42.3	-	3.8	3.7	3.6	3.7	-
3334	Primary aluminum	41.2	40.7	42.4	41.7	-	4.6	4.3	3.8	3.9	-
335	Nonferrous rolling and drawing	42.7	42.6	43.0	43.6	-	5.2	5.1	5.6	5.7	-
3351	Copper rolling and drawing	41.7	43.4	43.6	43.7	-	4.0	5.0	6.1	5.1	-
3353	Aluminum sheet, plate and foil	43.3	43.8	42.8	43.6	-	7.5	7.2	7.1	7.3	-
3357	Nonferrous wire drawing and insulating	42.1	41.1	42.4	43.3	-	4.4	4.0	4.8	5.4	-
336	Nonferrous foundries	41.7	42.6	41.3	41.6	-	3.8	4.4	3.8	3.9	-
3361	Aluminum foundries	42.0	42.7	41.2	41.7	-	4.0	4.4	3.9	4.3	-
34	FABRICATED METAL PRODUCTS	41.3	42.0	41.0	41.3	42.0	3.8	4.0	3.9	3.9	-
341	Metal cans and shipping containers	41.3	42.7	43.0	42.7	-	3.2	3.7	4.2	4.3	-
3411	Metal cans	41.2	42.8	43.0	42.8	-	2.9	3.4	3.8	4.0	-
342	Cutlery, hand tools, and hardware	41.7	42.0	40.4	40.7	-	4.2	3.8	3.3	3.3	-
3423, 5	Hand and edge tools, and hand saws and blades	41.0	42.1	40.0	40.3	-	3.3	4.1	3.1	2.9	-
3429	Hardware, nec	42.2	42.2	40.7	40.8	-	4.8	3.7	3.6	3.4	-
343	Plumbing and heating, except electric	39.8	40.9	39.8	40.2	-	2.7	3.4	3.1	3.0	-
3432	Plumbing fittings and brass goods	39.0	39.8	40.1	40.8	-	1.7	2.3	3.2	3.5	-
3433	Heating equipment, except electric	40.2	41.5	39.4	39.6	-	3.4	3.9	2.9	2.6	-
344	Fabricated structural metal products	40.6	41.1	40.3	40.5	-	3.4	3.5	3.2	3.2	-
3441	Fabricated structural metal	40.5	41.0	40.7	41.4	-	3.2	3.4	3.9	4.1	-
3442	Metal doors, sash, and trim	40.0	40.8	39.5	39.2	-	3.2	3.5	2.7	2.6	-
3443	Fabricated plate work (boiler shops)	41.3	41.5	40.5	40.7	-	3.8	3.8	3.0	3.1	-
3444	Sheet metal work	40.2	40.5	39.7	39.7	-	3.5	3.5	3.5	3.1	-
3446	Architectural metal work	40.5	41.5	39.7	40.5	-	2.6	2.5	2.3	2.3	-
345	Screw machine products, bolts, etc.	43.2	43.5	43.1	43.7	-	5.1	5.4	5.7	5.8	-
3451	Screw machine products	42.9	42.9	42.2	42.7	-	5.2	5.3	5.7	5.8	-
3452	Bolts, nuts, rivets, and washers	43.5	44.2	44.1	44.7	-	5.0	5.4	5.8	5.9	-
346	Metal forgings and stampings	42.2	43.4	41.9	42.5	-	4.9	5.0	5.0	5.2	-
3462	Iron and steel forgings	42.1	43.7	42.4	43.1	-	5.1	5.7	5.7	6.0	-
3465	Automotive stampings	43.1	45.0	42.6	43.3	-	6.2	5.8	5.8	6.2	-
3469	Metal stampings, nec	41.4	41.7	41.1	41.4	-	3.4	3.8	3.7	3.7	-
347	Metal services, nec	40.9	41.2	40.6	40.6	-	3.9	4.2	3.9	3.9	-
3471	Plating and polishing	40.5	41.1	40.3	40.5	-	4.0	4.2	3.7	3.7	-
3479	Metal coating and allied services	41.8	41.5	41.2	41.0	-	3.8	4.3	4.6	4.5	-
348	Ordnance and accessories, nec	40.4	41.9	40.4	40.1	-	2.5	3.3	2.9	3.0	-
3483	Ammunition, exc. for small arms, nec	39.5	41.7	38.5	38.1	-	2.0	2.9	1.6	1.5	-
349	Misc. fabricated metal products, nec	41.2	41.9	40.9	41.3	-	3.2	3.7	3.6	3.6	-
3494	Valves and pipe fittings	43.0	44.2	41.5	42.5	-	4.1	4.8	3.7	4.0	-
3496	Misc. fabricated wire products	40.5	40.7	40.1	40.3	-	2.7	2.9	3.3	3.2	-
35	MACHINERY, EXCEPT ELECTRICAL	42.2	43.0	42.0	42.5	43.2	4.2	4.7	4.4	4.5	-
351	Engines and turbines	43.5	43.6	41.9	42.5	-	4.5	4.8	4.2	4.3	-
3511	Turbines and turbine generator sets	41.0	40.9	42.0	41.6	-	4.1	5.2	5.2	4.5	-
3519	Internal combustion engines, nec	44.6	44.6	41.9	42.8	-	4.6	4.7	3.8	4.2	-
352	Farm and garden machinery	39.9	42.3	40.2	41.2	-	2.8	3.5	4.2	4.4	-
3523	Farm machinery and equipment	39.8	42.4	40.3	41.3	-	2.9	3.5	4.4	4.5	-
353	Construction and related machinery	41.9	42.5	42.4	42.5	-	3.5	4.2	4.1	3.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$317.95	\$324.73	\$345.69	\$346.94	—	\$7.68	\$7.75	\$8.29	\$8.30	—
3532	Mining machinery	269.12	274.73	315.66	310.60	—	6.58	6.75	7.29	7.24	—
3533	Oil field machinery	277.93	290.70	300.56	303.70	—	6.36	6.46	6.80	6.84	—
3535	Conveyers and conveying equipment	249.95	253.73	256.85	264.15	—	5.84	5.97	6.13	6.23	—
3537	Industrial trucks and tractors	255.22	267.97	279.75	279.60	—	6.24	6.32	6.79	6.77	—
354	Metalworking machinery	296.59	305.10	316.24	324.56	—	6.68	6.75	7.22	7.31	—
3541	Machine tools, metal cutting types	311.21	321.08	332.57	339.14	—	6.87	6.98	7.44	7.47	—
3542	Machine tools, metal forming types	293.78	304.23	322.39	335.16	—	6.88	6.93	7.48	7.60	—
3544	Special dies, tools, jigs, and fixtures	328.19	334.54	347.08	357.63	—	7.15	7.21	7.73	7.86	—
3545	Machine tool accessories	261.97	271.39	275.14	281.39	—	6.05	6.14	6.52	6.59	—
3546	Power driven hand tools	221.08	232.52	230.77	238.71	—	5.34	5.42	5.67	5.78	—
355	Special industry machinery	256.43	266.79	271.17	279.30	—	6.12	6.19	6.55	6.65	—
3551	Food products machinery	266.80	275.18	286.35	295.96	—	6.46	6.49	6.90	7.03	—
3552	Textile machinery	210.63	216.06	220.19	226.74	—	5.10	5.12	5.41	5.49	—
3555	Printing trades machinery	269.24	284.27	274.90	287.22	—	6.38	6.52	6.64	6.79	—
356	General industrial machinery	268.36	275.80	285.52	292.74	—	6.42	6.52	6.88	6.97	—
3561	Pumps and pumping equipment	275.18	284.00	283.04	289.82	—	6.49	6.62	6.87	6.95	—
3562	Ball and roller bearings	268.55	274.49	291.35	295.26	—	6.44	6.52	6.97	7.03	—
3563	Air and gas compressors	286.89	292.03	301.75	311.61	—	6.58	6.76	7.10	7.18	—
3564	Blowers and fans	237.86	242.78	248.44	258.54	—	5.83	5.85	6.18	6.26	—
3566	Speed changers, drives, and gears	284.50	309.32	322.51	326.92	—	6.79	7.03	7.38	7.43	—
3568	Power transmission equipment, nec	252.56	268.98	283.75	289.49	—	6.16	6.27	6.74	6.86	—
357	Office and computing machines	225.06	227.81	235.00	241.38	—	5.41	5.45	5.69	5.72	—
3573	Electronic computing equipment	227.94	230.54	233.19	240.54	—	5.44	5.45	5.66	5.70	—
358	Refrigeration and service machinery	245.86	255.26	258.08	260.65	—	5.91	5.95	6.31	6.42	—
3585	Refrigeration and heating equipment	253.98	261.87	263.86	266.59	—	5.99	6.02	6.42	6.55	—
359	Misc. machinery, except electrical	260.18	266.02	285.24	288.77	—	6.18	6.23	6.68	6.70	—
3592	Carburetors, pistons, rings, valves	309.64	312.18	325.71	336.93	—	7.39	7.26	7.61	7.71	—
3599	Machinery, except electrical, nec	250.92	257.30	277.98	280.36	—	5.96	6.04	6.51	6.52	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	226.44	233.35	240.78	243.39	\$249.48	5.55	5.65	5.96	5.98	\$6.07
361	Electric distributing equipment	229.45	238.05	243.41	247.64	—	5.61	5.75	6.01	6.04	—
3612	Transformers	210.71	214.20	230.52	235.15	—	5.19	5.25	5.65	5.68	—
3613	Switchgear and switchboard apparatus	245.55	258.10	254.87	258.62	—	5.96	6.16	6.34	6.37	—
362	Electrical industrial apparatus	231.24	238.21	244.22	251.93	—	5.64	5.74	6.03	6.10	—
3621	Motors and generators	238.79	248.89	250.70	256.88	—	5.81	5.94	6.19	6.25	—
3622	Industrial controls	208.15	213.46	229.39	237.06	—	5.23	5.31	5.65	5.74	—
363	Household appliances	220.70	225.84	233.63	231.48	—	5.49	5.59	5.87	5.89	—
3632	Household refrigerators and freezers	237.80	249.99	255.10	247.29	—	5.80	5.91	6.33	6.39	—
3633	Household laundry equipment	245.36	271.88	266.81	267.88	—	6.44	6.68	6.93	6.94	—
3634	Electric housewares and fans	189.54	190.24	203.00	203.00	—	4.68	4.78	5.00	5.00	—
364	Electric lighting and wiring equipment	209.56	218.48	223.51	226.95	—	5.20	5.29	5.56	5.59	—
3641	Electric lamps	226.32	230.16	247.61	251.40	—	5.52	5.60	6.01	6.00	—
3643	Current-carrying wiring devices	198.13	204.26	206.92	210.94	—	4.88	4.91	5.16	5.17	—
3644	Noncurrent-carrying wiring devices	221.81	218.70	224.80	228.42	—	5.41	5.40	5.62	5.64	—
3645	Residential lighting fixtures	161.83	161.68	168.66	166.73	—	4.27	4.30	4.45	4.47	—
365	Radio and TV receiving equipment	204.53	210.48	216.78	214.82	—	5.05	5.21	5.53	5.48	—
3651	Radio and TV receiving sets	202.27	214.12	219.63	216.55	—	5.16	5.38	5.69	5.61	—
366	Communication equipment	264.13	269.22	280.71	284.28	—	6.38	6.41	6.83	6.85	—
3661	Telephone and telegraph apparatus	268.51	273.46	278.20	283.91	—	6.47	6.48	6.99	7.01	—
3662	Radio and TV communication equipment	260.19	265.85	281.82	284.01	—	6.30	6.36	6.71	6.73	—
367	Electronic components and accessories	185.78	190.88	201.40	205.22	—	4.61	4.69	5.01	5.03	—
3671-3	Electronic tubes	248.67	253.73	263.96	266.49	—	5.81	5.97	6.33	6.30	—
3674	Semiconductors and related devices	208.69	217.35	226.70	230.33	—	5.09	5.25	5.57	5.55	—
3679	Electronic components, nec	169.49	175.77	185.07	190.01	—	4.28	4.34	4.65	4.68	—
369	Misc. electrical equipment and supplies	282.32	292.58	292.74	294.28	—	6.69	6.82	7.14	7.16	—
3691	Storage batteries	305.27	305.06	313.96	306.71	—	6.86	6.84	7.37	7.32	—
3694	Engine electrical equipment	313.83	330.48	321.18	325.19	—	7.49	7.65	7.95	7.99	—
37	TRANSPORTATION EQUIPMENT	323.24	337.48	350.57	355.18	367.00	7.57	7.67	8.21	8.26	8.36
371	Motor vehicles and equipment	359.86	379.86	389.39	395.60	—	8.16	8.24	8.87	8.91	—
3711	Motor vehicles and car bodies	381.33	400.76	412.83	422.55	—	8.55	8.60	9.34	9.39	—
3713	Truck and bus bodies	260.00	272.30	277.60	279.05	—	6.50	6.53	6.94	6.89	—
3714	Motor vehicle parts and accessories	357.58	380.94	391.16	394.26	—	8.09	8.21	8.81	8.84	—
3715	Truck trailers	214.52	224.13	222.66	224.62	—	5.39	5.48	5.68	5.88	—
372	Aircraft and parts	302.60	309.60	329.45	335.91	—	7.12	7.20	7.77	7.83	—
3721	Aircraft	305.11	311.58	337.50	345.40	—	7.23	7.28	7.96	8.07	—
3724	Aircraft engines and engine parts	309.33	319.27	334.05	340.00	—	7.33	7.53	8.03	8.00	—
3728	Aircraft equipment, nec	288.61	293.05	302.40	306.24	—	6.65	6.63	7.00	7.04	—
373	Ship and boat building and repairing	245.07	245.78	267.30	267.30	—	6.22	6.27	6.75	(*)	—
3731	Shipbuilding and repairing	257.68	257.40	283.14	283.14	—	6.54	6.60	7.15	(*)	—
3732	Boat building and repairing	198.29	201.39	212.51	213.55	—	5.02	5.06	5.38	5.42	—
374	Railroad equipment	309.37	324.66	329.11	336.36	—	7.62	7.73	8.29	8.43	—

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	41.4	41.9	41.7	41.8	—	3.0	3.7	3.2	3.0	—
3532	Mining machinery	40.9	40.7	43.3	42.9	—	3.1	2.7	3.8	3.3	—
3533	Oil field machinery	43.7	45.0	44.2	44.4	—	4.8	5.9	5.9	5.5	—
3535	Conveyers and conveying equipment	42.8	42.5	41.9	42.4	—	4.8	4.5	4.1	4.2	—
3537	Industrial trucks and tractors	40.9	42.4	41.2	41.3	—	3.1	4.2	3.9	3.8	—
354	Metalworking machinery	44.4	45.2	43.8	44.4	—	6.2	6.6	5.9	6.3	—
3541	Machine tools, metal cutting types	45.3	46.0	44.7	45.4	—	6.4	7.0	6.8	7.2	—
3542	Machine tools, metal forming types	42.7	43.9	43.1	44.1	—	5.2	6.1	5.9	6.7	—
3544	Special dies, tools, jigs, and fixtures	45.9	46.4	44.9	45.5	—	7.8	7.8	6.8	7.2	—
3545	Machine tool accessories	43.3	44.2	42.2	42.7	—	4.6	5.3	4.9	5.2	—
3546	Power driven hand tools	41.4	42.9	40.7	41.3	—	3.9	4.7	3.3	3.7	—
355	Special industry machinery	41.9	43.1	41.4	42.0	—	3.8	4.8	4.0	4.2	—
3551	Food products machinery	41.3	42.4	41.5	42.1	—	3.4	3.8	3.5	3.8	—
3552	Textile machinery	41.3	42.2	40.7	41.3	—	2.8	3.6	3.0	3.1	—
3555	Printing trades machinery	42.2	43.6	41.4	42.3	—	4.3	5.8	4.3	4.5	—
356	General industrial machinery	41.8	42.3	41.5	42.0	—	3.9	4.6	4.4	4.5	—
3561	Pumps and pumping equipment	42.4	42.9	41.2	41.7	—	4.4	4.8	4.1	4.2	—
3562	Ball and roller bearings	41.7	42.1	41.8	42.0	—	4.6	4.6	5.2	5.2	—
3563	Air and gas compressors	43.6	43.2	42.5	43.4	—	4.6	5.8	4.1	4.3	—
3564	Blowers and fans	40.8	41.5	40.2	41.3	—	3.0	3.9	3.5	3.7	—
3566	Speed changers, drives, and gears	41.9	44.0	43.7	44.0	—	3.5	5.4	5.1	5.2	—
3568	Power transmission equipment, nec	41.0	42.9	42.1	42.2	—	3.7	5.1	4.8	4.8	—
357	Office and computing machines	41.6	41.8	41.3	42.2	—	3.4	3.7	3.2	3.3	—
3573	Electronic computing equipment	41.9	42.3	41.2	42.2	—	3.7	3.9	3.1	3.4	—
358	Refrigeration and service machinery	41.6	42.9	40.9	40.6	—	3.6	3.7	3.2	3.1	—
3585	Refrigeration and heating equipment	42.4	43.5	41.1	40.7	—	4.0	3.7	3.3	3.3	—
359	Misc. machinery, except electrical	42.1	42.7	42.7	43.1	—	4.8	4.9	5.1	5.2	—
3592	Carburetors, pistons, rings, valves	41.9	43.0	42.8	43.7	—	3.4	3.9	4.0	4.7	—
3599	Machinery, except electrical, nec	42.1	42.6	42.7	43.0	—	5.0	5.1	5.3	5.3	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.8	41.3	40.4	40.7	41.1	2.9	3.1	2.9	3.1	—
361	Electric distributing equipment	40.9	41.4	40.5	41.0	—	2.7	3.4	2.9	3.1	—
3612	Transformers	40.6	40.8	40.8	41.4	—	2.3	2.6	3.0	3.2	—
3613	Switchgear and switchboard apparatus	41.2	41.9	40.2	40.6	—	3.0	4.0	2.9	3.0	—
362	Electrical industrial apparatus	41.0	41.5	40.5	41.3	—	3.1	3.6	3.1	3.3	—
3621	Motors and generators	41.1	41.9	40.5	41.1	—	3.4	4.0	3.2	3.4	—
3622	Industrial controls	39.8	40.2	40.6	41.3	—	2.2	2.5	2.5	2.9	—
363	Household appliances	40.2	40.4	39.8	39.3	—	2.4	2.3	2.3	2.2	—
3632	Household refrigerators and freezers	41.0	42.3	40.3	38.7	—	1.1	1.5	1.6	1.5	—
3633	Household laundry equipment	38.1	40.7	38.5	38.6	—	1.3	2.7	.8	1.6	—
3634	Electric housewares and fans	40.5	39.8	40.6	40.6	—	2.9	2.3	3.4	2.8	—
364	Electric lighting and wiring equipment	40.3	41.3	40.2	40.6	—	2.6	2.8	3.0	3.1	—
3641	Electric lamps	41.0	41.1	41.2	41.9	—	2.3	2.2	2.9	3.3	—
3643	Current-carrying wiring devices	40.6	41.6	40.1	40.8	—	2.8	3.3	3.0	3.0	—
3644	Noncurrent-carrying wiring devices	41.0	40.5	40.0	40.5	—	2.5	2.3	3.0	3.1	—
3645	Residential lighting fixtures	37.9	37.6	37.9	37.3	—	1.9	1.9	2.2	2.0	—
365	Radio and TV receiving equipment	40.5	40.4	39.2	39.2	—	2.7	2.4	2.4	2.2	—
3651	Radio and TV receiving sets	39.2	39.8	38.6	38.6	—	1.5	2.1	1.8	1.6	—
366	Communication equipment	41.4	42.0	41.1	41.5	—	3.1	3.3	3.0	3.3	—
3661	Telephone and telegraph apparatus	41.5	42.2	39.8	40.5	—	3.1	3.3	2.9	3.4	—
3662	Radio and TV communication equipment	41.3	41.8	42.0	42.2	—	3.0	3.3	3.1	3.3	—
367	Electronic components and accessories	40.3	40.7	40.2	40.8	—	2.6	2.9	2.8	3.0	—
3671-3	Electronic tubes	42.8	42.5	41.7	42.3	—	2.7	2.8	2.1	2.7	—
3674	Semiconductors and related devices	41.0	41.4	40.7	41.5	—	3.6	3.6	3.6	3.8	—
3679	Electronic components, nec	39.6	40.5	39.8	40.6	—	2.3	2.7	2.7	2.9	—
369	Misc. electrical equipment and supplies	42.2	49.9	41.0	41.1	—	4.3	4.3	4.0	3.9	—
3691	Storage batteries	44.5	44.6	42.6	41.9	—	5.2	5.4	5.4	5.0	—
3694	Engine electrical equipment	41.9	43.2	40.4	40.7	—	4.7	4.5	3.8	3.9	—
37	TRANSPORTATION EQUIPMENT	42.7	44.0	42.7	43.0	43.9	5.3	5.0	5.5	5.6	—
371	Motor vehicles and equipment	44.1	46.1	43.9	44.4	—	6.5	5.9	7.0	7.2	—
3711	Motor vehicles and car bodies	44.6	46.6	44.2	45.0	—	7.2	5.9	7.4	7.9	—
3713	Truck and bus bodies	40.0	41.7	40.0	40.5	—	3.2	3.0	3.7	3.5	—
3714	Motor vehicle parts and accessories	44.2	46.4	44.4	44.6	—	6.5	6.4	7.2	7.2	—
3715	Truck trailers	39.8	40.9	39.2	38.2	—	2.7	3.5	2.7	3.1	—
372	Aircraft and parts	42.5	43.0	42.4	42.9	—	4.4	4.6	4.6	4.7	—
3721	Aircraft	42.2	42.8	42.4	42.8	—	3.4	3.7	4.0	4.0	—
3724	Aircraft engines and engine parts	42.2	42.4	41.6	42.5	—	5.0	5.0	5.2	5.3	—
3728	Aircraft equipment, nec	43.4	44.2	43.2	43.5	—	5.5	5.9	5.6	5.9	—
373	Ship and boat building and repairing	39.4	39.2	39.6	(*)	—	2.7	3.0	2.8	(*)	—
3731	Ship building and repairing	39.4	39.0	39.6	(*)	—	2.8	3.1	2.8	(*)	—
3732	Boat building and repairing	39.5	39.8	39.5	39.4	—	2.5	2.4	2.8	2.4	—
374	Railroad equipment	40.6	42.0	39.7	39.9	—	3.7	4.4	3.6	3.6	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$296.94	\$315.25	\$335.82	\$346.84	-	\$7.35	\$7.56	\$7.72	\$7.83	-
3761	Guided missiles and space vehicles	299.02	323.75	331.55	346.80	-	7.57	7.82	7.97	8.16	-
379	Miscellaneous transportation equipment	217.49	213.88	223.91	224.87	-	5.52	5.47	5.64	5.65	-
3792	Travel trailers and campers	188.86	181.28	196.72	192.53	-	4.97	4.86	5.07	5.04	-
38	INSTRUMENTS AND RELATED PRODUCTS	222.63	227.56	237.39	240.20	\$247.28	5.43	5.51	5.79	5.83	\$5.93
381	Engineering and scientific instruments	242.76	252.59	261.69	260.53	-	5.78	5.82	6.10	6.13	-
382	Measuring and controlling devices	224.81	227.00	241.13	245.14	-	5.51	5.55	5.91	5.95	-
3822	Environmental controls	208.43	216.36	224.87	231.13	-	5.25	5.29	5.58	5.61	-
3823	Process control instruments	234.92	233.79	254.28	260.15	-	5.62	5.62	6.04	6.05	-
3825	Instruments to measure electricity	234.60	236.64	249.48	250.48	-	5.75	5.80	6.16	6.20	-
383	Optical instruments and lenses	256.36	261.22	271.92	280.86	-	5.80	5.87	6.18	6.34	-
384	Medical instruments and supplies	186.80	189.41	201.10	201.80	-	4.67	4.70	4.99	5.02	-
3841	Surgical and medical instruments	179.45	184.26	197.41	195.50	-	4.42	4.44	4.78	4.78	-
3842	Surgical appliances and supplies	192.06	193.16	204.46	207.36	-	4.85	4.89	5.15	5.21	-
385	Ophthalmic goods	168.60	169.60	179.41	185.50	-	4.29	4.36	4.66	4.72	-
386	Photographic equipment and supplies	291.21	306.56	306.68	307.52	-	6.82	7.08	7.27	7.25	-
387	Watches, clocks, and watchcases	170.83	174.84	176.71	178.75	-	4.26	4.36	4.44	4.48	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES					193.25					4.88
391	Jewelry, silverware, and plated ware	176.12	177.51	186.51	188.64	-	4.47	4.54	4.77	4.80	4.88
3911	Jewelry, precious metal	192.98	191.70	191.69	197.20	-	4.65	4.71	4.89	4.93	-
393	Musical instruments	196.88	193.66	184.89	191.58	-	4.71	4.77	4.84	4.85	-
393	Musical instruments	173.32	175.85	184.61	187.78	-	4.29	4.31	4.65	4.73	-
394	Toys and sporting goods	154.31	158.50	168.58	168.52	-	4.05	4.16	4.39	4.40	-
3942, 4	Dolls, games, toys, and children's vehicles	142.09	144.08	160.40	160.40	-	3.83	3.98	4.21	4.21	-
3949	Sporting and athletic goods, nec	164.58	167.38	176.79	176.33	-	4.22	4.27	4.58	4.58	-
395	Pens, pencils, office and art supplies	186.05	191.32	198.05	201.06	-	4.56	4.61	4.89	4.94	-
396	Costume jewelry and notions	149.77	148.14	156.15	155.45	-	3.89	3.94	4.12	4.08	-
3961	Costume jewelry	139.43	137.27	144.20	140.21	-	3.65	3.70	3.94	3.81	-
399	Miscellaneous manufactures	198.69	198.35	213.07	217.74	-	5.03	5.06	5.34	5.43	-
3993	Signs and advertising displays	216.46	212.31	222.61	229.20	-	5.48	5.43	5.65	5.73	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	222.31	225.68	235.60	239.20	241.80	5.53	5.60	5.89	5.98	6.03
201	Meat products	228.10	228.23	238.60	243.79	-	5.66	5.72	6.01	6.11	-
2011	Meat packing plants	286.62	285.02	301.07	309.33	-	6.76	6.77	7.22	7.33	-
2013	Sausages and other prepared meats	261.23	265.58	267.34	272.52	-	6.45	6.59	6.82	6.83	-
2016	Poultry dressing plants	134.23	132.11	145.88	146.49	-	3.57	3.59	3.89	3.97	-
202	Dairy products	231.26	234.34	247.39	250.06	-	5.48	5.54	5.99	6.04	-
2022	Cheese, natural and processed	215.97	216.63	226.63	225.50	-	5.13	5.22	5.68	5.68	-
2026	Fluid milk	241.79	246.78	258.07	263.08	-	5.61	5.66	6.13	6.19	-
203	Preserved fruits and vegetables	181.16	184.02	199.25	195.58	-	4.73	4.83	5.07	5.08	-
2032	Canned specialties	218.51	224.17	245.27	255.09	-	5.24	5.35	5.91	5.96	-
2033	Canned fruits and vegetables	174.19	178.00	193.05	186.90	-	4.67	4.85	4.95	4.88	-
2037	Frozen fruits and vegetables	176.79	173.45	195.62	177.88	-	4.58	4.65	4.94	4.86	-
204	Grain mill products	264.72	270.50	286.18	284.68	-	6.03	6.12	6.46	6.47	-
2041	Flour and other grain mill products	305.28	295.22	335.12	340.82	-	6.40	6.39	7.07	7.16	-
2048	Prepared feeds, nec	206.35	216.23	228.51	225.85	-	4.81	4.87	5.17	5.18	-
205	Bakery products	228.10	228.49	237.39	242.35	-	5.76	5.77	6.15	6.23	-
2051	Bread, cake, and related products	225.98	227.34	236.31	240.24	-	5.75	5.77	6.17	6.24	-
2052	Cookies and crackers	235.89	234.67	241.35	248.00	-	5.81	5.78	6.11	6.20	-
206	Sugar and confectionery products	201.50	208.82	227.03	228.97	-	5.18	5.26	5.69	5.71	-
2061-3	Cane and beet sugar	230.88	256.80	261.62	277.55	-	5.86	6.00	6.59	6.64	-
2065	Confectionery products	176.87	174.55	200.30	193.44	-	4.63	4.63	5.02	4.96	-
207	Fats and oils	251.43	259.45	268.32	278.13	-	5.65	5.74	6.14	6.25	-
208	Beverages	269.99	274.03	282.40	286.63	-	6.65	6.70	7.06	7.13	-
2082	Malt beverages	380.61	390.28	395.65	410.73	-	8.79	8.87	9.65	9.71	-
2086	Bottled and canned soft drinks	189.47	194.39	205.15	201.76	-	4.96	5.01	5.22	5.20	-
209	Misc. foods and kindred products	184.99	188.57	193.91	200.31	-	4.83	4.86	5.13	5.23	-
21	TOBACCO MANUFACTURES	226.69	224.46	224.63	238.55	246.91	5.71	5.80	5.99	6.18	6.38
211	Cigarettes	279.10	277.11	273.04	288.79	-	6.96	6.98	7.46	7.56	-
22	TEXTILE MILL PRODUCTS	168.51	169.33	178.13	180.67	182.78	4.12	4.14	4.42	4.45	4.48
221	Weaving mills, cotton	177.57	176.73	190.81	194.84	-	4.31	4.30	4.62	4.65	-
222	Weaving mills, synthetics	181.38	182.23	195.67	198.34	-	4.36	4.37	4.67	4.70	-
223	Weaving and finishing mills, wool	172.03	177.57	184.87	187.32	-	4.29	4.31	4.52	4.58	-
224	Narrow fabric mills	153.95	157.67	162.37	167.27	-	3.82	3.84	4.09	4.13	-
225	Knitting mills	150.11	147.44	155.90	157.06	-	3.81	3.80	4.06	4.09	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	40.4	41.7	43.5	44.3	—	3.3	3.3	5.4	5.8	—
3761	Guided missiles and space vehicles	39.5	41.4	41.6	42.5	—	3.0	3.0	4.0	4.5	—
379	Miscellaneous transportation equipment	39.4	39.1	39.7	39.8	—	2.3	2.3	2.3	2.1	—
3792	Travel trailers and campers	38.0	37.3	38.8	38.2	—	2.0	2.1	2.2	1.9	—
	INSTRUMENTS AND RELATED PRODUCTS	41.0	41.3	41.0	41.2	41.7	2.6	2.8	2.9	2.8	—
381	Engineering and scientific instruments	42.0	43.4	42.9	42.5	—	3.2	3.6	3.7	3.5	—
382	Measuring and controlling devices	40.8	40.9	40.8	41.2	—	2.4	2.7	2.5	2.6	—
3822	Environmental controls	39.7	40.9	40.3	41.2	—	1.8	2.5	1.6	2.2	—
3823	Process control instruments	41.8	41.6	42.1	43.0	—	3.1	3.3	3.7	3.7	—
3825	Instruments to measure electricity	40.8	40.8	40.5	40.4	—	2.1	2.4	2.0	2.0	—
383	Optical instruments and lenses	44.2	44.5	44.0	44.3	—	3.8	4.3	3.5	4.0	—
384	Medical instruments and supplies	40.0	40.3	40.3	40.2	—	2.1	2.1	3.2	2.6	—
3841	Surgical and medical instruments	40.6	41.5	41.3	40.9	—	1.9	2.0	4.3	3.2	—
3842	Surgical appliances and supplies	39.6	39.5	39.7	39.8	—	2.5	2.4	2.4	2.2	—
385	Ophthalmic goods	39.3	38.9	38.5	39.3	—	1.4	1.5	1.8	1.9	—
386	Photographic equipment and supplies	42.7	43.3	42.3	42.3	—	3.4	3.7	3.5	3.5	—
387	Watches, clocks, and watchcases	40.1	40.1	39.8	39.9	—	2.3	2.3	2.4	2.1	—
	MISCELLANEOUS MANUFACTURING	39.4	39.1	39.1	39.3	39.6	2.7	2.5	2.8	2.5	—
	INDUSTRIES	39.4	39.1	39.1	39.3	39.6	2.7	2.5	2.8	2.5	—
391	Jewelry, silverware, and plated ware	41.5	40.7	39.2	40.0	—	4.6	4.0	3.2	3.7	—
3911	Jewelry, precious metal	41.8	40.6	38.2	39.5	—	5.3	4.6	2.8	3.8	—
393	Musical instruments	40.4	40.8	39.7	39.7	—	2.0	2.3	2.1	2.1	—
394	Toys and sporting goods	38.1	38.1	38.4	38.3	—	1.8	1.8	2.3	1.8	—
3942, 4	Dolls, games, toys, and children's vehicles	37.1	36.2	38.1	38.1	—	1.4	1.3	2.8	1.8	—
3949	Sporting and athletic goods, nec	39.0	39.2	38.6	38.5	—	2.1	2.1	1.9	1.8	—
396	Pens, pencils, office and art supplies	40.8	41.5	40.5	40.7	—	3.3	3.3	2.6	2.9	—
396	Costume jewelry and notions	38.5	37.6	37.9	38.1	—	3.0	2.5	3.1	2.7	—
3961	Costume jewelry	38.2	37.1	36.6	36.8	—	3.2	2.6	3.1	2.3	—
399	Miscellaneous manufactures	39.5	39.2	39.9	40.1	—	2.6	2.3	2.9	2.6	—
3993	Signs and advertising displays	39.5	39.1	39.4	40.0	—	2.9	2.6	2.8	2.6	—
	NONDURABLE GOODS										
	FOOD AND KINDRED PRODUCTS	40.2	40.3	40.0	40.0	40.1	4.1	4.1	4.1	4.0	—
201	Meat products	40.3	39.9	39.7	39.9	—	4.4	4.2	4.0	4.0	—
2011	Meat packing plants	42.4	42.1	41.7	42.2	—	5.1	5.1	5.0	4.8	—
2013	Sausages and other prepared meats	40.5	40.3	39.2	39.9	—	3.6	4.0	3.2	3.4	—
2016	Poultry dressing plants	37.6	36.8	37.5	36.9	—	3.9	3.0	3.1	3.2	—
202	Dairy products	42.2	42.3	41.3	41.4	—	4.0	4.2	4.0	3.9	—
2022	Cheese, natural and processed	42.1	41.5	39.9	39.7	—	4.8	4.4	3.9	3.3	—
2026	Fluid milk	43.1	43.6	42.1	42.5	—	4.2	4.5	4.2	4.3	—
203	Preserved fruits and vegetables	38.3	38.1	39.3	38.5	—	3.1	3.0	4.1	3.4	—
2032	Canned specialties	41.7	41.9	41.5	42.8	—	4.3	4.8	5.9	7.2	—
2033	Canned fruits and vegetables	37.3	36.7	39.0	38.3	—	3.3	2.6	4.7	3.4	—
2037	Frozen fruits and vegetables	38.6	37.3	39.6	36.6	—	2.9	2.8	3.9	2.4	—
204	Grain mill products	43.9	44.2	44.3	44.0	—	6.4	6.3	6.9	6.3	—
2041	Flour and other grain mill products	47.7	46.2	47.4	47.6	—	7.8	6.7	8.6	8.2	—
2048	Prepared feeds, nec	42.9	44.4	44.2	43.6	—	6.3	6.8	6.8	5.9	—
205	Bakery products	39.6	39.6	38.6	38.9	—	3.6	3.6	3.3	3.4	—
2051	Bread, cake, and related products	39.3	39.4	38.3	38.5	—	3.8	3.8	3.5	3.7	—
2052	Cookies and crackers	40.6	40.6	39.5	40.0	—	2.8	2.8	2.4	2.2	—
206	Sugar and confectionery products	38.9	39.7	39.9	40.1	—	3.7	3.7	3.6	3.6	—
2061-3	Cane and beet sugar	39.4	42.8	39.7	41.8	—	5.5	6.1	5.0	5.2	—
2065	Confectionery products	38.2	37.7	39.9	39.0	—	2.7	2.3	3.0	2.9	—
207	Fats and oils	44.5	45.2	43.7	44.5	—	6.5	6.6	6.1	6.1	—
208	Beverages	40.6	40.9	40.0	40.2	—	4.2	4.0	4.0	3.8	—
2082	Malt beverages	43.3	44.0	41.0	42.3	—	5.9	5.1	4.8	5.7	—
2086	Bottled and canned soft drinks	38.2	38.8	39.3	38.8	—	3.1	3.5	3.4	2.8	—
209	Misc. foods and kindred products	38.3	38.8	37.8	38.3	—	3.7	3.6	3.4	3.7	—
	TOBACCO MANUFACTURES	39.7	38.7	37.5	38.6	38.7	2.8	2.7	1.5	2.1	—
211	Cigarettes	40.1	39.7	36.6	38.2	—	2.9	3.0	1.3	2.2	—
	TEXTILE MILL PRODUCTS	40.9	40.9	40.3	40.6	40.8	3.7	3.6	3.6	3.8	—
221	Weaving mills, cotton	41.2	41.1	41.3	41.9	—	4.2	4.1	4.1	4.7	—
222	Weaving mills, synthetics	41.6	41.7	41.9	42.2	—	3.8	3.6	4.2	4.5	—
223	Weaving and finishing mills, wool	40.1	41.2	40.9	40.9	—	3.6	3.9	4.0	3.8	—
224	Narrow fabric mills	40.3	40.8	39.7	40.5	—	3.4	3.6	3.1	3.0	—
225	Knitting mills	39.4	38.8	38.4	38.4	—	2.9	2.6	2.8	2.7	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$142.91	\$139.91	\$153.22	\$152.86		\$3.52	\$3.56	\$3.84	\$3.86	
2252	Hosiery, nec	141.02	134.17	141.26	140.84		3.57	3.54	3.87	3.88	
2253	Knit outerwear mills	144.02	141.75	147.17	147.50		3.80	3.79	4.01	4.03	
2254	Knit underwear mills	139.32	137.92	143.25	144.02		3.60	3.62	3.75	3.78	
2257	Circular knit fabric mills	170.05	170.10	184.91	187.58		4.23	4.20	4.51	4.52	
226	Textile finishing, except wool	184.29	189.16	189.88	194.68		4.43	4.43	4.70	4.76	
2261	Finishing plants, cotton	191.56	194.79	194.25	199.48		4.55	4.53	4.82	4.83	
2262	Finishing plants, synthetics	191.27	194.54	200.64	202.46		4.62	4.61	4.87	4.95	
227	Floor covering mills	177.66	183.18	189.28	193.28		4.21	4.30	4.55	4.58	
228	Yarn and thread mills	159.01	158.26	168.90	168.87		3.85	3.86	4.16	4.18	
2281	Yarn mills, except wool	162.39	162.09	168.90	169.30		3.83	3.85	4.16	4.17	
2282	Throwing and winding mills	147.73	142.86	162.78	163.61		3.74	3.73	3.98	4.07	
229	Miscellaneous textile goods	187.65	188.58	198.77	200.16		4.50	4.49	4.86	4.87	
23	APPAREL AND OTHER TEXTILE PRODUCTS	133.93	135.74	142.76	145.44	\$146.52	3.71	3.76	4.01	4.04	\$4.07
231	Men's and boys' suits and coats	161.82	164.16	175.29	180.68		4.52	4.51	4.91	4.95	
232	Men's and boys' furnishings	122.28	123.08	128.88	131.77		3.35	3.40	3.61	3.65	
2321	Men's and boys' shirts and nightwear	118.13	119.68	127.76	131.38		3.21	3.27	3.51	3.57	
2327	Men's and boys' separate trousers	123.53	122.85	131.65	132.38		3.47	3.51	3.74	3.75	
2328	Men's and boys' work clothing	121.32	121.51	126.73	131.38		3.27	3.32	3.53	3.57	
233	Women's and misses' outerwear	126.79	125.74	134.06	136.40		3.74	3.72	3.99	4.00	
2331	Women's and misses' blouses and waists	121.09	120.01	128.00	129.80		3.52	3.54	3.71	3.73	
2335	Women's and misses' dresses	124.69	124.64	132.43	135.88		3.79	3.80	4.10	4.13	
2337	Women's and misses' suits and coats	135.96	133.17	140.48	141.14		4.12	4.06	4.27	4.29	
2339	Women's and misses' outerwear, nec	126.73	126.02	135.14	137.45		3.59	3.58	3.85	3.85	
234	Women's and children's undergarments	123.50	121.61	130.68	131.77		3.32	3.35	3.61	3.63	
2341	Women's and children's underwear	121.60	118.74	128.16	128.52		3.26	3.28	3.56	3.57	
2342	Brassieres and allied garments	131.01	131.40	143.23	146.65		3.56	3.60	3.84	3.89	
236	Children's outerwear	121.66	125.15	127.09	131.77		3.37	3.41	3.58	3.63	
2361	Children's dresses and blouses	122.64	120.55	126.38	130.31		3.36	3.33	3.54	3.57	
238	Misc. apparel and accessories	134.25	133.56	142.40	143.93		3.58	3.60	3.88	3.89	
239	Misc. fabricated textile products	167.42	181.35	183.22	186.05		4.26	4.50	4.71	4.71	
2391	Curtains and draperies	126.44	124.41	129.48	134.82		3.31	3.30	3.49	3.52	
2392	House furnishing, nec	145.36	146.92	157.97	162.41		3.68	3.71	4.03	4.05	
2396	Automotive and apparel trimmings	274.03	341.42	316.92	315.40		6.92	7.39	7.60	7.60	
26	PAPER AND ALLIED PRODUCTS	265.31	272.06	285.90	292.28	296.24	6.17	6.24	6.68	6.75	6.81
261, 2, 6	Paper and pulp mills	315.06	322.08	347.85	351.72		7.08	7.11	7.73	7.73	
262	Paper mills, except building paper	315.58	323.05	350.49	354.49		7.06	7.10	7.72	7.74	
263	Paperboard mills	327.52	336.26	356.80	363.78		7.23	7.31	8.00	8.12	
264	Misc. converted paper products	226.87	234.92	242.13	248.95		5.48	5.58	5.92	5.97	
2641	Paper coating and glazing	269.24	284.21	294.19	298.28		6.35	6.43	6.81	6.81	
2642	Envelopes	208.79	212.16	221.05	232.25		5.13	5.20	5.54	5.61	
2643	Bags, except textile bags	221.01	231.12	234.48	235.75		5.30	5.40	5.65	5.64	
265	Paperboard containers and boxes	232.94	237.28	253.80	257.98		5.52	5.57	6.00	6.07	
2651	Folding paperboard boxes	245.10	251.41	264.12	268.55		5.70	5.74	6.20	6.26	
2653	Corrugated and solid fiber boxes	246.96	251.12	271.10	274.34		5.77	5.84	6.29	6.38	
2654	Sanitary food containers	216.83	222.79	226.55	236.70		5.25	5.33	5.58	5.69	
27	PRINTING AND PUBLISHING	237.88	239.51	248.72	251.56	255.46	6.26	6.27	6.58	6.62	6.67
271	Newspapers	232.49	234.20	232.90	242.55		6.70	6.73	6.79	6.93	
272	Periodicals	214.70	219.82	232.02	237.68		5.85	5.80	5.98	6.11	
273	Books	220.09	225.48	232.85	232.07		5.53	5.54	5.91	5.89	
2731	Book publishing	218.59	216.68	223.47	222.87		5.52	5.39	5.73	5.70	
2732	Book printing	221.05	233.60	241.38	240.37		5.54	5.67	6.08	6.07	
274	Miscellaneous publishing	217.40	205.42	209.20	213.58		5.49	5.42	5.86	5.90	
275	Commercial printing	251.41	253.09	266.85	267.93		6.43	6.44	6.86	6.87	
2751	Commercial printing, letterpress	236.90	239.34	247.42	246.79		6.09	6.09	6.46	6.41	
2752	Commercial printing, lithographic	259.23	261.86	278.64	280.13		6.63	6.68	7.09	7.11	
276	Manifold business forms	244.08	254.66	258.96	262.29		5.91	5.95	6.24	6.26	
278	Blankbooks and bookbinding	189.21	189.44	197.73	198.74		4.79	4.87	5.07	5.07	
279	Printing trade services	308.32	310.01	331.58	332.35		8.05	7.99	8.68	8.61	
28	CHEMICALS AND ALLIED PRODUCTS	279.05	283.58	301.26	304.26	305.95	6.66	6.72	7.19	7.21	7.25
281	Industrial inorganic chemicals	308.13	309.64	334.54	339.40		7.25	7.32	7.89	7.93	
2819	Industrial inorganic chemicals, nec	305.41	307.33	328.22	333.06		7.22	7.30	7.89	7.93	
282	Plastics materials and synthetics	273.84	279.03	299.20	302.87		6.52	6.55	7.04	7.06	
2821	Plastics materials and resins	307.98	310.87	335.92	342.66		7.08	7.13	7.74	7.77	
2824	Organic fibers, noncellulosic	246.22	255.97	273.19	274.03		6.02	6.08	6.52	6.54	
283	Drugs	254.61	261.24	271.00	271.00		6.21	6.22	6.53	6.53	
2834	Pharmaceutical preparations	246.04	251.93	262.22	262.17		6.09	6.10	6.38	6.41	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	40.6	39.3	39.9	39.6	-	3.4	2.7	3.1	2.9	-
2252	Hosiery, nec	39.5	37.9	36.5	36.3	-	2.7	1.7	2.3	2.1	-
2253	Knit outerwear mills	37.9	37.4	36.7	36.6	-	2.5	2.2	1.9	1.9	-
2254	Knit underwear mills	38.7	38.1	38.2	38.1	-	2.1	2.2	2.1	2.2	-
2257	Circular knit fabric mills	40.2	40.5	41.0	41.5	-	3.5	3.5	4.6	4.6	-
226	Textile finishing, except wool	41.6	42.7	40.4	40.9	-	4.5	4.6	3.7	4.0	-
2261	Finishing plants, cotton	42.1	43.0	40.3	41.3	-	5.4	5.1	3.8	4.0	-
2262	Finishing plants, synthetics	41.4	42.2	41.2	40.9	-	4.4	4.4	4.2	4.7	-
227	Floor covering mills	42.2	42.6	41.6	42.2	-	4.3	5.0	4.3	4.6	-
228	Yarn and thread mills	41.3	41.0	40.6	40.4	-	3.9	3.7	3.7	3.4	-
2281	Yarn mills, except wool	42.4	42.1	40.6	40.6	-	4.4	4.2	3.8	3.6	-
2282	Throwing and winding mills	39.5	38.3	40.9	40.2	-	3.1	2.8	3.7	3.5	-
229	Miscellaneous textile goods	41.7	42.0	40.9	41.1	-	4.1	3.8	4.2	3.7	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	36.1	36.1	35.6	36.0	36.0	1.5	1.3	1.4	1.4	-
231	Men's and boys' suits and coats	35.8	36.4	35.7	36.5	-	.8	.9	1.0	.9	-
232	Men's and boys' furnishings	36.5	36.2	35.7	36.1	-	1.2	1.0	1.0	1.0	-
2321	Men's and boys' shirts and nightwear	36.8	36.6	36.4	36.8	-	1.2	1.0	1.1	1.1	-
2327	Men's and boys' separate trousers	35.6	35.0	35.2	35.3	-	1.2	1.0	.7	.7	-
2328	Men's and boys' work clothing	37.1	36.6	35.9	36.8	-	1.1	.8	.9	1.1	-
233	Women's and misses' outerwear	33.9	33.8	33.6	34.1	-	1.3	1.2	1.2	1.2	-
2331	Women's and misses' blouses and waists	34.4	33.9	34.5	34.8	-	1.1	1.0	1.0	1.2	-
2335	Women's and misses' dresses	32.9	32.8	32.3	32.9	-	1.2	1.2	1.2	1.2	-
2337	Women's and misses' suits and coats	33.0	32.8	32.9	32.9	-	1.3	1.3	.9	.8	-
2339	Women's and misses' outerwear, nec	35.3	35.2	35.1	35.7	-	1.5	1.1	1.4	1.4	-
234	Women's and children's undergarments	37.2	36.3	36.2	36.3	-	1.5	1.0	1.3	1.1	-
2341	Women's and children's underwear	37.3	36.2	36.0	36.0	-	1.5	1.0	1.3	1.1	-
2342	Brassieres and allied garments	36.8	36.5	37.3	37.7	-	1.3	1.1	1.1	1.1	-
236	Children's outerwear	36.1	36.7	35.5	36.3	-	1.5	1.4	1.2	1.4	-
2361	Children's dresses and blouses	36.5	36.2	35.7	36.5	-	2.0	1.9	1.8	1.6	-
238	Misc. apparel and accessories	37.5	37.1	36.7	37.0	-	1.9	1.4	1.7	1.7	-
239	Misc. fabricated textile products	39.3	40.3	38.9	39.5	-	2.6	2.6	2.8	2.8	-
2391	Curtains and draperies	38.2	37.7	37.1	38.3	-	2.2	1.3	1.7	2.2	-
2392	House furnishings, nec	39.5	39.6	39.2	40.1	-	2.7	2.5	2.6	2.8	-
2396	Automotive and apparel trimmings	39.6	46.2	41.7	41.5	-	2.9	4.3	5.1	4.6	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	43.0	43.6	42.8	43.3	43.5	4.9	5.2	5.3	5.3	-
261, 2, 6	Paper and pulp mills	44.5	45.3	45.0	45.5	-	6.5	6.6	6.9	6.9	-
262	Paper mills, except building paper	44.7	45.5	45.4	45.8	-	6.5	6.6	7.0	7.1	-
263	Paperboard mills	45.3	46.0	44.6	44.8	-	6.9	7.6	7.4	7.5	-
264	Misc. converted paper products	41.4	42.1	40.9	41.7	-	3.7	4.0	4.0	4.1	-
2641	Paper coating and glazing	42.4	44.2	43.2	43.8	-	5.1	5.8	5.8	5.5	-
2642	Envelopes	40.7	40.8	39.9	41.4	-	2.8	3.0	3.4	3.6	-
2643	Bags, except textile bags	41.7	42.8	41.5	41.8	-	3.9	4.6	3.8	4.0	-
265	Paperboard containers and boxes	42.2	42.6	42.3	42.5	-	3.9	4.0	4.5	4.3	-
2651	Folding paperboard boxes	43.0	43.8	42.6	42.9	-	4.1	4.5	4.9	4.4	-
2653	Corrugated and solid fiber boxes	42.8	43.0	43.1	43.0	-	4.5	4.5	5.2	4.8	-
2654	Sanitary food containers	41.3	41.8	40.6	41.6	-	2.7	3.0	3.1	3.4	-
PRINTING AND PUBLISHING											
27	Newspapers	38.0	38.2	37.8	38.0	38.3	3.0	3.2	3.3	3.2	-
271	Newspapers	34.7	34.8	34.3	35.0	-	2.1	2.1	2.2	2.3	-
272	Periodicals	36.7	37.9	38.8	38.9	-	3.0	3.4	3.6	3.0	-
273	Books	39.8	40.7	39.4	39.4	-	3.6	4.2	3.9	3.7	-
2731	Book publishing	39.6	40.2	39.0	39.1	-	3.0	3.3	2.1	2.1	-
2732	Book printing	39.9	41.2	39.7	39.6	-	4.1	5.0	5.6	5.2	-
274	Miscellaneous publishing	39.6	37.9	35.7	36.2	-	2.9	2.1	2.5	2.4	-
275	Commercial printing	39.1	39.3	38.9	39.0	-	3.5	3.8	3.9	3.7	-
2751	Commercial printing, letterpress	38.9	39.3	38.3	38.5	-	3.2	3.3	3.2	2.9	-
2752	Commercial printing, lithographic	39.1	39.2	39.3	39.4	-	3.7	4.1	4.2	4.1	-
276	Manifold business forms	41.3	42.8	41.5	41.9	-	3.9	4.9	3.9	4.0	-
278	Blankbooks and bookbinding	39.5	38.9	39.0	39.2	-	2.4	2.3	2.5	2.4	-
279	Printing trade service	38.3	38.8	38.2	38.6	-	3.1	3.2	3.9	3.4	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	41.9	42.2	41.9	42.2	42.2	3.2	3.4	3.7	3.6	-
281	Industrial inorganic chemicals	42.5	42.3	42.4	42.8	-	3.6	3.7	4.0	4.0	-
2819	Industrial inorganic chemicals, nec	42.3	42.1	41.6	42.0	-	3.3	3.3	3.4	3.3	-
282	Plastics materials and synthetics	42.0	42.6	42.5	42.9	-	3.0	3.2	3.5	3.6	-
2821	Plastics materials and resins	43.5	43.6	43.4	44.1	-	4.5	4.4	4.9	5.0	-
2824	Organic fibers, noncellulosic	40.9	42.1	41.9	41.9	-	2.0	2.4	2.2	2.2	-
283	Drugs	41.0	42.0	41.5	41.5	-	2.9	3.0	2.9	3.0	-
2834	Pharmaceutical preparations	40.4	41.3	41.1	40.9	-	2.7	2.9	2.9	2.9	-

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$260.35	\$261.58	\$271.62	\$275.95	-	\$6.35	\$6.38	\$6.74	\$6.78	-
2841	Soap and other detergents	349.80	353.22	378.44	376.28	-	8.06	8.12	8.66	8.69	-
2842, 3	Polishing, sanitation, and finishing preparations	228.42	229.80	245.43	244.42	-	5.64	5.66	6.09	6.08	-
2844	Toilet preparations	210.00	210.79	212.42	218.23	-	5.33	5.35	5.59	5.61	-
285	Paints and allied products	247.61	252.34	264.27	268.51	-	6.01	6.11	6.43	6.47	-
286	Industrial organic chemicals	324.19	334.19	359.54	365.04	-	7.61	7.79	8.44	8.45	-
2865	Cyclic crudes and intermediates	307.55	315.92	322.63	329.30	-	7.07	7.33	7.70	7.73	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	329.94	340.26	372.36	378.01	-	7.80	7.95	8.70	8.71	-
287	Agricultural chemicals	268.60	272.84	300.61	300.33	-	6.38	6.45	7.04	7.05	-
289	Miscellaneous chemical products	262.06	266.07	280.06	282.66	-	6.21	6.29	6.70	6.73	-
29	PETROLEUM AND COAL PRODUCTS	340.92	348.00	384.08	384.12	\$388.07	7.91	8.00	8.67	8.73	\$8.86
291	Petroleum refining	367.65	371.95	407.09	411.65	-	8.55	8.61	9.38	9.42	-
295	Paving and roofing materials	268.62	277.86	333.20	313.72	-	6.05	6.08	6.87	6.82	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	215.78	218.48	233.76	236.55	244.76	5.25	5.29	5.66	5.70	5.80
301	Tires and inner tubes	313.54	314.08	362.37	372.22	-	7.36	7.39	8.18	8.29	-
302	Rubber and plastics footwear	141.31	142.72	148.61	150.93	-	3.68	3.65	3.84	3.87	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	277.10	223.31	238.71	245.53	-	5.42	5.46	5.78	5.86	-
306	Fabricated rubber products, nec	205.41	209.99	221.40	221.40	-	5.01	5.06	5.40	5.40	-
307	Miscellaneous plastics products	196.32	199.26	210.12	210.94	-	4.80	4.86	5.15	5.17	-
31	LEATHER AND LEATHER PRODUCTS	138.37	138.01	146.17	147.66	148.40	3.68	3.69	3.94	3.98	4.00
311	Leather tanning and finishing	199.79	200.29	202.93	205.27	-	4.97	4.97	5.19	5.21	-
314	Footwear, except rubber	132.77	132.79	139.85	140.91	-	3.55	3.56	3.79	3.85	-
3143	Men's footwear, except athletic	141.66	142.43	148.97	148.14	-	3.67	3.69	3.91	3.94	-
3144	Women's footwear, except athletic	122.82	123.84	132.10	135.66	-	3.45	3.44	3.69	3.80	-
316	Luggage	138.70	127.97	156.46	160.76	-	3.80	3.72	4.24	4.31	-
317	Handbags and personal leather goods	132.30	130.50	138.73	145.54	-	3.50	3.48	3.78	3.81	-
-	TRANSPORTATION AND PUBLIC UTILITIES	291.45	293.06	309.57	309.20	312.76	7.25	7.29	7.72	7.73	7.78
4011	RAILROAD TRANSPORTATION: Class I railroads ^{2, **}	337.57	330.81	357.21	(*)	-	7.62	7.64	8.10	(*)	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	177.14	180.58	196.31	196.18	-	5.21	5.28	5.74	5.67	-
411	Local and suburban transportation	263.74	272.90	289.95	286.86	-	6.48	6.64	6.97	6.83	-
413	Intercity highway transportation	270.82	263.77	312.42	313.01	-	7.44	7.43	8.20	8.13	-
42	TRUCKING AND WAREHOUSING	294.19	304.79	320.76	318.39	-	7.30	7.38	7.92	7.94	-
421, 3	Trucking and trucking terminals	301.38	311.74	328.45	324.81	-	7.46	7.53	8.09	8.10	-
422	Public warehousing	207.90	211.60	218.12	225.10	-	5.25	5.29	5.55	5.67	-
46	PIPE LINES, EXCEPT NATURAL GAS	337.43	348.19	368.40	376.74	-	8.23	8.31	8.92	8.97	-
48	COMMUNICATION	289.98	285.68	302.91	301.36	-	7.16	7.16	7.63	7.61	-
481	Telephone communication	301.84	295.07	313.98	311.24	-	7.38	7.34	7.83	7.82	-
4817	Switchboard operating employees ³	231.25	222.12	222.33	220.38	-	6.25	6.17	6.52	6.52	-
4818	Line construction employees ⁴	413.52	404.50	426.82	424.65	-	8.97	8.89	9.57	9.50	-
483	Radio and television broadcasting	234.32	240.41	256.36	257.26	-	6.15	6.36	6.80	6.77	-
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	305.24	308.28	326.51	329.80	-	7.32	7.34	7.83	7.89	-
491	Electric services	306.29	312.80	327.76	333.80	-	7.31	7.36	7.86	7.91	-
492	Gas production and distribution	279.48	281.26	302.91	299.80	-	6.85	6.86	7.37	7.33	-
493	Combination utility services	341.51	341.90	365.43	370.44	-	8.17	8.16	8.68	8.82	-
495	Sanitary services	251.39	256.22	269.03	262.89	-	5.86	5.89	6.33	6.35	-
-	WHOLESALE AND RETAIL TRADE	144.10	146.29	156.31	156.48	158.07	4.38	4.38	4.78	4.80	4.79
50, 51	WHOLESALE TRADE	215.34	218.79	236.34	236.51	239.68	5.55	5.61	6.06	6.08	6.13
50	WHOLESALE TRADE-DURABLE GOODS	218.51	222.39	239.55	239.55	-	5.56	5.63	6.08	6.08	-
501	Motor vehicles and automotive equipment	198.39	205.27	217.32	219.61	-	5.10	5.21	5.63	5.66	-
502	Furniture and home furnishings	185.37	190.88	206.72	209.34	-	4.93	5.01	5.44	5.48	-
503	Lumber and construction materials	221.20	221.82	243.97	244.16	-	5.60	5.63	6.13	6.15	-
504	Sporting goods, toys, and hobby goods	220.96	229.46	230.49	231.48	-	5.83	5.96	6.13	6.14	-

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	41.0	41.0	40.3	40.7	-	3.0	3.1	3.3	3.0	-
2841	Soap and other detergents	43.4	43.5	43.7	43.3	-	4.7	4.8	5.4	4.9	-
2842, 3	Polishing, sanitation, and finishing preparations	40.5	40.6	40.3	40.2	-	2.5	2.8	3.5	2.9	-
2844	Toilet preparations	39.4	39.4	38.0	38.9	-	1.9	1.9	1.8	1.7	-
285	Paints and allied products	41.2	41.3	41.1	41.5	-	2.9	2.9	3.4	3.2	-
286	Industrial organic chemicals	42.6	42.9	42.6	43.2	-	3.3	3.8	3.9	3.8	-
2865	Cyclic crudes and intermediates	43.5	43.1	41.9	42.6	-	4.2	4.3	3.9	4.0	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.3	42.8	42.8	43.4	-	3.0	3.6	3.9	3.7	-
287	Agricultural chemicals	42.1	42.3	42.7	42.6	-	4.5	4.6	5.4	4.8	-
289	Miscellaneous chemical products	42.2	42.3	41.8	42.0	-	3.4	3.4	3.8	3.7	-
29	PETROLEUM AND COAL PRODUCTS	43.1	43.5	44.3	44.0	43.8	4.1	4.1	4.8	4.4	-
291	Petroleum refining	43.0	43.2	43.4	43.7	-	3.7	3.7	3.7	3.7	-
295	Paving and roofing materials	44.4	45.7	48.5	46.0	-	5.7	6.2	8.9	6.9	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	41.1	41.3	41.3	41.5	42.2	3.5	3.5	4.0	3.8	-
301	Tires and inner tubes	42.6	42.5	44.3	44.9	-	4.2	4.4	6.1	5.8	-
302	Rubber and plastics footwear	38.4	39.1	38.7	39.0	-	1.9	2.4	2.3	2.1	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.9	40.9	41.3	41.9	-	4.3	4.0	4.4	4.7	-
306	Fabricated rubber products, nec	41.0	41.5	41.0	41.0	-	3.1	3.2	3.6	3.5	-
307	Miscellaneous plastics products	40.9	41.0	40.8	40.8	-	3.5	3.4	3.6	3.5	-
31	LEATHER AND LEATHER PRODUCTS	37.6	37.4	37.1	37.1	37.1	2.0	1.9	1.7	1.6	-
311	Leather tanning and finishing	40.2	40.3	39.1	39.4	-	3.4	3.1	2.8	2.8	-
314	Footwear, except rubber	37.4	37.3	36.9	36.6	-	1.8	1.8	1.4	1.2	-
3143	Men's footwear, except athletic	38.6	38.6	38.1	37.6	-	2.0	2.2	1.3	1.1	-
3144	Women's footwear, except athletic	35.6	36.0	35.8	35.7	-	1.3	1.5	1.6	1.4	-
316	Luggage	36.5	34.4	36.9	37.3	-	1.9	1.3	2.0	2.1	-
317	Handbags and personal leather goods	37.8	37.5	36.7	38.2	-	2.1	1.8	2.3	2.6	-
-	TRANSPORTATION AND PUBLIC UTILITIES	40.2	40.2	40.1	40.0	40.2	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ² ***	44.3	43.3	44.1	(*)	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.0	34.2	34.2	34.6	-	-	-	-	-	-
411	Local and suburban transportation	40.7	41.1	41.6	42.0	-	-	-	-	-	-
413	Intercity highway transportation	36.4	35.5	38.1	38.5	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	40.3	41.3	40.5	40.1	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	40.4	41.4	40.6	40.1	-	-	-	-	-	-
422	Public warehousing	39.6	40.0	39.3	39.7	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.0	41.9	41.3	42.0	-	-	-	-	-	-
48	COMMUNICATION	40.5	39.9	39.7	39.6	-	-	-	-	-	-
481	Telephone communication	40.9	40.2	40.1	39.8	-	-	-	-	-	-
4817	Switchboard operating employees ³	37.0	36.0	34.1	33.8	-	-	-	-	-	-
4818	Line construction employees ⁴	46.1	45.5	44.6	44.7	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	37.8	37.7	38.0	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.7	42.0	41.7	41.8	-	-	-	-	-	-
491	Electric services	41.9	42.5	41.7	42.2	-	-	-	-	-	-
492	Gas production and distribution	40.8	41.0	41.1	40.9	-	-	-	-	-	-
493	Combination utility services	41.8	41.9	42.1	42.0	-	-	-	-	-	-
495	Sanitary services	42.9	43.5	42.5	41.4	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.9	33.4	32.7	32.6	33.0	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.8	39.0	39.0	38.9	39.1	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.3	39.5	39.4	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.9	39.4	38.6	38.8	-	-	-	-	-	-
502	Furniture and home furnishings	37.6	38.1	38.0	38.2	-	-	-	-	-	-
503	Lumber and construction materials	39.5	39.4	39.8	39.7	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.9	38.5	37.6	37.7	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	
	WHOLESALE TRADE-DURABLE GOODS—Continued											
505	Metals and minerals, except petroleum	\$254.40	\$256.48	\$272.55	\$274.91	-	\$6.36	\$6.38	\$6.90	\$6.89	-	
506	Electrical goods	221.55	230.08	243.04	240.17	-	5.71	5.81	6.20	6.19	-	
507	Hardware, plumbing, and heating equipment	210.06	211.62	222.53	220.99	-	5.40	5.44	5.78	5.77	-	
508	Machinery, equipment, and supplies	230.62	233.42	254.87	254.23	-	5.78	5.85	6.34	6.34	-	
509	Miscellaneous durable goods	184.42	187.79	202.01	205.67	-	4.79	4.84	5.22	5.22	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	210.31	213.71	230.95	232.64	-	5.52	5.58	6.03	6.09	-	
511	Paper and paper products	233.68	235.69	265.35	266.45	-	6.35	6.37	7.31	7.28	-	
512	Drugs, proprietaries, and sundries	219.82	223.29	238.13	238.08	-	5.68	5.74	6.25	6.20	-	
513	Apparel, piece goods, and notions	182.16	183.32	203.69	207.75	-	5.06	5.05	5.55	5.63	-	
514	Groceries and related products	215.81	219.82	232.86	235.78	-	5.62	5.68	6.08	6.14	-	
516	Chemicals and allied products	237.93	243.57	271.55	267.53	-	6.18	6.31	6.84	6.79	-	
517	Petroleum and petroleum products	248.22	252.49	284.40	288.29	-	6.30	6.36	7.20	7.28	-	
518	Beer, wine, and distilled beverages	248.16	258.70	262.22	273.33	-	6.60	6.79	7.03	7.25	-	
519	Miscellaneous nondurable goods	175.10	176.78	190.96	190.12	-	4.62	4.64	4.96	4.99	-	
52-59	RETAIL TRADE	122.53	124.58	131.82	131.58	\$133.42	3.94	3.93	4.28	4.30	\$4.29	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	166.50	166.50	181.54	181.71	-	4.44	4.44	4.79	4.82	-	
521	Lumber and other building materials	185.72	185.50	201.60	202.29	-	4.69	4.72	5.04	5.07	-	
525	Hardware stores	129.18	132.85	136.46	136.96	-	3.67	3.67	3.99	4.04	-	
53	GENERAL MERCHANDISE STORES	109.88	115.18	118.90	117.50	-	3.75	3.68	4.10	4.08	-	
531	Department stores	114.95	120.26	123.83	122.11	-	3.91	3.83	4.27	4.24	-	
533	Variety stores	84.92	91.79	97.41	95.50	-	2.99	2.99	3.43	3.41	-	
539	Misc. general merchandise stores	89.40	92.65	94.28	94.72	-	2.97	2.96	3.24	3.20	-	
54	FOOD STORES	158.72	159.71	169.69	172.36	-	4.96	4.96	5.37	5.42	-	
541	Grocery stores	165.38	165.89	176.96	179.68	-	5.12	5.12	5.53	5.58	-	
546	Retail bakeries	107.53	110.70	116.51	117.56	-	3.67	3.69	3.99	4.04	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	171.75	173.50	187.62	188.00	-	4.58	4.59	4.99	5.00	-	
551, 2	New and used car dealers	212.46	212.62	231.39	231.17	-	5.49	5.48	6.01	6.02	-	
553	Auto and home supply stores	172.60	176.35	183.56	184.50	-	4.09	4.13	4.51	4.50	-	
554	Gasoline service stations	119.71	122.15	130.59	131.67	-	3.48	3.51	3.71	3.73	-	
56	APPAREL AND ACCESSORY STORES	104.02	110.45	112.99	110.87	-	3.55	3.54	3.83	3.81	-	
561	Men's and boys' clothing and furnishings	128.79	137.16	140.51	139.00	-	4.05	4.07	4.31	4.29	-	
562	Women's ready-to-wear stores	92.30	99.10	97.65	95.63	-	3.25	3.26	3.50	3.49	-	
565	Family clothing stores	95.37	101.99	109.56	106.86	-	3.30	3.29	3.64	3.61	-	
566	Shoe stores	114.27	120.26	124.68	121.80	-	3.90	3.93	4.27	4.20	-	
57	FURNITURE AND HOME FURNISHINGS STORES	158.10	167.61	172.48	173.68	-	4.53	4.63	4.90	4.92	-	
571	Furniture and home furnishings	165.90	173.88	175.90	179.01	-	4.74	4.83	5.04	5.10	-	
572	Household appliance stores	173.26	172.89	185.13	188.27	-	4.67	4.66	5.10	5.13	-	
573	Radio, television, and music stores	128.54	148.01	155.67	150.77	-	3.86	4.10	4.41	4.32	-	
58	EATING AND DRINKING PLACES⁵	81.35	81.87	88.29	87.25	-	2.98	3.01	3.27	3.28	-	
59	MISCELLANEOUS RETAIL	125.00	129.31	133.66	133.56	-	3.87	3.86	4.19	4.20	-	
591	Drug stores and proprietary stores	111.81	114.98	120.26	120.96	-	3.69	3.65	3.93	3.94	-	
594	Miscellaneous shopping goods stores	110.72	118.19	121.37	118.04	-	3.56	3.56	3.89	3.87	-	
596	Nonstore retailers	152.06	155.22	164.22	163.68	-	4.32	4.36	4.83	4.80	-	
598	Fuel and ice dealers	206.52	222.71	216.61	221.43	-	5.15	5.29	5.54	5.62	-	
599	Retail stores, nec	123.00	123.70	131.88	132.72	-	3.82	3.76	4.20	4.20	-	
-	FINANCE, INSURANCE, AND REAL ESTATE⁶	168.53	169.99	183.73	182.59	183.32	4.63	4.67	5.02	5.03	5.05	
60	BANKING	146.00	146.73	156.65	155.73	-	4.00	4.02	4.28	4.29	-	
602	Commercial and stock savings banks	142.72	143.45	153.72	152.82	-	3.91	3.93	4.20	4.21	-	
61	CREDIT AGENCIES OTHER THAN BANKS	152.99	153.35	166.05	163.80	-	4.18	4.19	4.50	4.50	-	
612	Savings and loan associations	146.25	145.89	157.98	153.51	-	4.04	4.03	4.34	4.30	-	
614	Personal credit institutions	148.27	149.41	162.80	162.58	-	4.04	4.06	4.40	4.43	-	
63	INSURANCE CARRIERS	185.13	186.74	198.97	199.60	-	4.99	5.02	5.32	5.38	-	
631	Life insurance	186.48	187.45	196.31	197.25	-	5.04	5.08	5.32	5.36	-	
632	Medical service and health insurance	179.55	180.78	191.52	195.56	-	4.75	4.77	5.04	5.16	-	
633	Fire, marine, and casualty insurance	185.61	187.73	202.54	202.76	-	5.03	5.06	5.43	5.48	-	

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	40.0	40.2	39.5	39.9	-	-	-	-	-	-
506	Electrical goods	38.8	39.6	39.2	38.8	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment	38.9	38.9	38.5	38.3	-	-	-	-	-	-
508	Machinery, equipment, and supplies	39.9	39.9	40.2	40.1	-	-	-	-	-	-
509	Miscellaneous durable goods	38.5	38.8	38.7	39.4	-	-	-	-	-	-
51	WHOLESALE TRADE-NONDURABLE GOODS	38.1	38.3	38.3	38.2	-	-	-	-	-	-
511	Paper and paper products	36.8	37.0	36.3	36.6	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries	38.7	38.9	38.1	38.4	-	-	-	-	-	-
513	Apparel, piece goods, and notions	36.0	36.3	36.7	36.9	-	-	-	-	-	-
514	Groceries and related products	38.4	38.7	38.3	38.4	-	-	-	-	-	-
516	Chemicals and allied products	38.5	38.6	39.7	39.4	-	-	-	-	-	-
517	Petroleum and petroleum products	39.4	39.7	39.5	39.6	-	-	-	-	-	-
518	Beer, wine, and distilled beverages	37.6	38.1	37.3	37.7	-	-	-	-	-	-
519	Miscellaneous nondurable goods	37.9	38.1	38.5	38.1	-	-	-	-	-	-
52-59	RETAIL TRADE	31.1	31.7	30.8	30.6	31.1	-	-	-	-	-
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.5	37.5	37.9	37.7	-	-	-	-	-	-
521	Lumber and other building materials	39.6	39.3	40.0	39.9	-	-	-	-	-	-
525	Hardware stores	35.2	36.2	34.2	33.9	-	-	-	-	-	-
53	GENERAL MERCHANDISE STORES	29.3	31.3	29.0	28.8	-	-	-	-	-	-
531	Department stores	29.4	31.4	29.0	28.8	-	-	-	-	-	-
533	Variety stores	28.4	30.7	28.4	28.3	-	-	-	-	-	-
539	Misc. general merchandise stores	30.1	31.3	29.1	29.6	-	-	-	-	-	-
54	FOOD STORES	32.0	32.2	31.6	31.8	-	-	-	-	-	-
541	Grocery stores	32.3	32.4	32.0	32.2	-	-	-	-	-	-
546	Retail bakeries	29.3	30.0	29.2	29.1	-	-	-	-	-	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.5	37.8	37.6	37.6	-	-	-	-	-	-
551, 2	New and used car dealers	38.7	38.8	38.5	38.4	-	-	-	-	-	-
553	Auto and home supply stores	42.2	42.7	40.7	41.0	-	-	-	-	-	-
554	Gasoline service stations	34.4	34.8	35.2	35.3	-	-	-	-	-	-
56	APPAREL AND ACCESSORY STORES	29.3	31.2	29.5	29.1	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings	31.8	33.7	32.6	32.4	-	-	-	-	-	-
562	Women's ready-to-wear stores	28.4	30.4	27.9	27.4	-	-	-	-	-	-
565	Family clothing stores	28.9	31.0	30.1	29.6	-	-	-	-	-	-
566	Shoe stores	29.3	30.6	29.2	29.0	-	-	-	-	-	-
57	FURNITURE AND HOME FURNISHINGS STORES	34.9	36.2	35.2	35.3	-	-	-	-	-	-
571	Furniture and home furnishings	35.0	36.0	34.9	35.1	-	-	-	-	-	-
572	Household appliance stores	37.1	37.1	36.3	36.7	-	-	-	-	-	-
573	Radio, television, and music stores	33.3	36.1	35.3	34.9	-	-	-	-	-	-
58	EATING AND DRINKING PLACES ⁵	27.3	27.2	27.0	26.6	-	-	-	-	-	-
59	MISCELLANEOUS RETAIL	32.3	33.5	31.9	31.8	-	-	-	-	-	-
591	Drug stores and proprietary stores	30.3	31.5	30.6	30.7	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	31.1	33.2	31.2	30.5	-	-	-	-	-	-
596	Nonstore retailers	35.2	35.6	34.0	34.1	-	-	-	-	-	-
598	Fuel and ice dealers	40.1	42.1	39.1	39.4	-	-	-	-	-	-
599	Retail stores, nec	32.2	32.9	31.4	31.6	-	-	-	-	-	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	36.4	36.4	36.6	36.3	36.3	-	-	-	-	-
60	BANKING	36.5	36.5	36.6	36.3	-	-	-	-	-	-
602	Commercial and stock savings banks	36.5	36.5	36.6	36.3	-	-	-	-	-	-
61	CREDIT AGENCIES OTHER THAN BANKS	36.6	36.6	36.9	36.4	-	-	-	-	-	-
612	Savings and loan associations	36.2	36.2	36.4	35.7	-	-	-	-	-	-
614	Personal credit institutions	36.7	36.8	37.0	36.7	-	-	-	-	-	-
63	INSURANCE CARRIERS	37.1	37.2	37.4	37.1	-	-	-	-	-	-
631	Life insurance	37.0	36.9	36.9	36.8	-	-	-	-	-	-
632	Medical service and health insurance	37.8	37.9	38.0	37.9	-	-	-	-	-	-
633	Fire, marine, and casualty insurance	36.9	37.1	37.3	37.0	-	-	-	-	-	-

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
-	SERVICES	\$157.26	\$158.40	\$167.42	\$167.24	\$168.22	\$4.78	\$4.80	\$5.12	\$5.13	\$5.16
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	104.38	105.10	116.24	114.20	-	3.40	3.48	3.69	3.72	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	121.45	122.48	131.86	132.86	-	3.51	3.54	3.80	3.84	-
723	Beauty shops	121.28	121.27	119.45	120.65	-	3.79	3.72	3.78	3.83	-
73	BUSINESS SERVICES	160.06	162.68	170.69	170.17	-	4.88	4.90	5.22	5.22	-
731	Advertising	245.07	247.20	259.17	259.55	-	6.77	6.81	7.28	7.17	-
734	Services to buildings	119.14	118.44	124.85	124.12	-	4.24	4.20	4.59	4.53	-
737	Computer and data processing services	199.65	202.58	219.25	215.62	-	5.44	5.49	6.04	5.94	-
75	AUTO REPAIR, SERVICES, AND GARAGES ...	176.06	178.29	188.47	189.30	-	4.72	4.78	5.08	5.13	-
753	Automotive repair shops	201.61	205.65	212.14	215.95	-	5.13	5.18	5.51	5.58	-
76	MISCELLANEOUS REPAIR SERVICES	230.84	236.70	251.54	254.82	-	5.80	5.83	6.15	6.20	-
78	MOTION PICTURES	179.76	179.47	208.03	200.44	-	6.22	6.21	7.51	7.21	-
781	Motion picture production and services	321.86	311.71	401.94	376.09	-	8.77	8.54	10.69	10.11	-
79	AMUSEMENT AND RECREATION SERVICES ...	138.15	137.86	148.15	148.35	-	4.50	4.52	4.81	4.88	-
80	HEALTH SERVICES	147.93	148.91	161.53	161.70	-	4.51	4.54	4.88	4.90	-
801	Offices of physicians	155.57	157.74	168.81	170.01	-	4.70	4.78	5.10	5.09	-
802	Offices of dentists	132.31	134.21	138.36	136.59	-	4.61	4.66	4.69	4.71	-
805	Nursing and personal care facilities	102.28	103.56	113.20	113.15	-	3.31	3.33	3.64	3.65	-
806	Hospitals	161.90	162.10	176.64	177.14	-	4.79	4.81	5.18	5.21	-
81	LEGAL SERVICES	203.65	205.71	218.32	217.90	-	5.92	5.98	6.44	6.39	-
89	MISCELLANEOUS SERVICES	264.65	266.81	281.96	280.42	-	6.91	6.93	7.42	7.36	-
891	Engineering and architectural services	287.17	288.75	301.84	302.64	-	7.27	7.31	7.84	7.78	-
893	Accounting, auditing, and bookkeeping	226.42	227.02	245.05	239.14	-	5.99	5.99	6.50	6.36	-

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

² Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 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 1977, such employees made up 20 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 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Money payments only; tips, not included.

⁶ Data for nonoffice sales agents excluded from all series in this division.

* Not available.

p=preliminary.

** Data for class I Railroads (SIC 4011) are: August 1978—\$342.27, \$7.64 and 44.8. September 1978—\$324.41, \$8.01 and 40.5.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
-	SERVICES	32.9	33.0	32.7	32.6	32.6	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	30.7	30.2	31.5	30.7	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.6	34.6	34.7	34.6	-	-	-	-	-	
723	Beauty shops	32.0	32.6	31.6	31.5	-	-	-	-	-	
	BUSINESS SERVICES										
73	Advertising	32.8	33.2	32.7	32.6	-	-	-	-	-	
731	Services to buildings	36.2	36.3	35.6	36.2	-	-	-	-	-	
734	Computer and data processing services	28.1	28.2	27.2	27.4	-	-	-	-	-	
737	Computer and data processing services	36.7	36.9	36.3	36.3	-	-	-	-	-	
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	37.3	37.3	37.1	36.9	-	-	-	-	-	
753	Automotive repair shops	39.3	39.7	38.5	38.7	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	39.8	40.6	40.9	41.1	-	-	-	-	-	
	MOTION PICTURES										
78	Motion picture production and services	28.9	28.9	27.7	27.8	-	-	-	-	-	
781	Motion picture production and services	36.7	36.5	37.6	37.2	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	30.7	30.5	30.8	30.4	-	-	-	-	-	
	HEALTH SERVICES										
80	Offices of physicians	32.8	32.8	33.1	33.0	-	-	-	-	-	
801	Offices of physicians	33.1	33.0	33.1	33.4	-	-	-	-	-	
802	Offices of dentists	28.7	28.8	29.5	29.0	-	-	-	-	-	
805	Nursing and personal care facilities	30.9	31.1	31.1	31.0	-	-	-	-	-	
806	Hospitals	33.8	33.7	34.1	34.0	-	-	-	-	-	
81	LEGAL SERVICES	34.4	34.4	33.9	34.1	-	-	-	-	-	
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	38.3	38.5	38.0	38.1	-	-	-	-	-	
891	Engineering and architectural services	39.5	39.5	38.5	38.9	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.8	37.9	37.7	37.6	-	-	-	-	-	

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	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Executive Branch													
Total employment	2,662.5	2,664.3	2,673.1	2,659.5	2,668.2	2,672.9	2,686.7	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5
Average weekly hours	39.8	39.4	40.0	39.6	39.9	39.9	39.6	39.5	39.6	39.8	39.7	39.5	39.9
Average overtime hours	1.2	1.1	1.6	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3
Indexes (1967=100):													
Average weekly earnings	226.9	225.9	230.5	229.0	230.2	227.4	226.5	226.0	226.5	227.7	226.8	230.0	242.0
Average hourly earnings	224.6	225.9	227.0	227.8	227.3	226.2	225.4	225.4	225.4	225.4	225.1	229.5	238.9
Department of Defense													
Total employment	907.8	909.8	907.7	906.4	906.0	905.6	905.4	911.3	924.8	927.1	918.6	905.4	905.8
Average weekly hours	39.9	39.8	40.0	39.9	40.1	40.0	40.1	40.0	40.0	40.1	40.1	39.7	39.9
Average overtime hours .....	.9	.9	.8	.7	.8	.9	.9	.9	1.0	.9	1.0	1.2	1.0
Indexes (1967=100):													
Average weekly earnings	217.4	220.9	220.4	221.8	222.3	221.5	222.1	222.0	221.5	220.4	221.2	223.3	232.5
Average hourly earnings	219.6	223.7	222.1	224.0	223.4	223.2	223.2	223.7	223.2	221.5	222.3	226.7	234.9
Postal Service													
Total employment	649.2	650.2	668.2	645.6	646.9	647.6	647.9	648.3	648.3	647.5	649.0	651.9	646.9
Average weekly hours	41.2	39.8	41.8	41.1	41.5	40.4	40.1	39.9	40.0	40.2	39.9	39.7	41.5
Average overtime hours	2.0	1.5	3.5	2.5	2.1	1.7	1.5	1.5	1.6	1.8	1.5	1.8	2.3
Indexes (1967=100):													
Average weekly earnings	259.0	253.4	271.7	253.9	266.5	258.5	256.2	254.3	259.7	261.9	260.3	259.3	278.7
Average hourly earnings	242.7	245.7	250.9	249.9	247.0	246.6	246.0	246.0	250.6	251.5	251.8	252.1	259.5
Other Agencies													
Total employment	1,105.5	1,104.3	1,097.2	1,107.5	1,115.3	1,119.7	1,133.4	1,143.3	1,174.4	1,185.7	1,170.9	1,134.6	1,141.8
Average weekly hours	38.8	38.9	38.8	38.5	38.9	38.8	38.9	38.8	39.0	39.3	39.3	39.1	39.0
Average overtime hours	1.1	1.1	1.0	.9	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.1
Indexes (1967=100):													
Average weekly earnings	216.6	215.4	216.1	216.6	217.6	215.1	214.1	213.4	212.0	214.6	213.4	218.3	229.1
Average hourly earnings	216.6	214.9	216.1	218.3	217.1	215.1	213.6	213.4	210.9	211.9	210.6	216.6	228.0

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from agencies with 2500 or more employees in 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 super-

visory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers. The total employment levels shown include all workers in the Executive Branch regardless of the size of the agency.

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p
MANUFACTURING	\$5.60	\$5.67	\$6.04	\$6.09	\$6.16
DURABLE GOODS	5.97	6.04	6.44	6.49	6.56
Lumber and wood products	5.03	5.04	5.49	5.47	-
Furniture and fixtures	4.32	4.35	4.61	4.64	-
Stone, clay, and glass products	5.67	5.70	6.11	6.16	-
Primary metal industries	7.37	7.40	8.01	8.09	-
Fabricated metal products	5.81	5.84	6.19	6.24	-
Machinery, except electrical	6.15	6.20	6.60	6.64	-
Electric and electronic equipment	5.36	5.44	5.75	5.76	-
Transportation equipment	7.13	7.26	7.71	7.75	-
Instruments and related products	5.26	5.33	5.59	5.64	-
Miscellaneous manufacturing industries	4.32	4.40	4.60	4.65	-
NONDURABLE GOODS	5.03	5.09	5.41	5.46	5.52
Food and kindred products	5.25	5.33	5.61	5.69	-
Tobacco manufactures	5.51	5.61	5.87	6.02	-
Textile mill products	3.94	3.96	4.23	4.25	-
Apparel and other textile products	3.63	3.70	3.94	3.95	-
Paper and allied products	5.84	5.89	6.29	6.36	-
Printing and publishing	(²)	(²)	(²)	(²)	-
Chemicals and allied products	6.41	6.46	6.89	6.92	-
Petroleum and coal products	7.56	7.63	8.23	8.32	-
Rubber and misc. plastics products	5.03	5.08	5.40	5.45	-
Leather and leather products	3.59	3.60	3.85	3.90	-

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 ²					
				Worker with no dependents			Married worker with 3 dependents		
	Nov. 1977	Oct. 1978	Nov. 1978 ^P	Nov. 1977	Oct. 1978	Nov. 1978 ^P	Nov. 1977	Oct. 1978	Nov. 1978 ^P
TOTAL PRIVATE:									
Current dollars	\$193.86	\$210.37	\$210.15	\$160.21	\$170.19	\$170.03	\$176.53	\$185.71	\$185.55
1967 dollars	104.56	104.82	104.14	86.41	84.80	84.26	95.22	92.53	91.95
MINING:									
Current dollars	317.80	348.29	351.35	242.55	262.51	264.62	268.02	288.08	290.42
1967 dollars	171.41	173.54	174.11	130.83	130.80	131.13	144.56	143.54	143.91
CONSTRUCTION:									
Current dollars	298.19	336.55	323.60	229.74	254.64	246.44	254.33	279.15	269.83
1967 dollars	160.84	167.69	160.36	123.92	126.88	122.12	137.18	139.09	133.71
MANUFACTURING:									
Current dollars	238.10	256.59	260.53	190.93	202.30	204.93	209.76	220.42	223.45
1967 dollars	128.43	127.85	129.10	102.98	100.80	101.55	113.14	109.83	110.73
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	291.45	309.57	309.20	225.35	237.33	237.09	249.59	259.74	259.47
1967 dollars	157.20	154.25	153.22	121.55	118.25	117.49	134.62	129.42	128.58
WHOLESALE AND RETAIL TRADE:									
Current dollars	144.10	156.31	156.48	123.27	130.82	130.95	135.67	144.18	144.31
1967 dollars	77.72	77.88	77.54	66.49	65.18	64.89	73.18	71.84	71.51
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	168.53	183.73	182.59	141.76	151.02	150.20	156.54	165.50	164.62
1967 dollars	90.90	91.54	90.48	76.46	75.25	74.43	84.43	82.46	81.58
SERVICES:									
Current dollars	157.26	167.42	167.24	133.16	139.15	139.02	147.67	152.84	152.70
1967 dollars	84.82	83.42	82.87	71.82	69.33	68.89	79.65	76.15	75.67
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W). All items, 1967=100	185.4	200.7	201.8	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

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

² Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned this amount (see Explanatory Notes for the establishment data in the back of this publication).

The data for spendable earnings for the seven month period June-December 1977 are calcu-

lated from formulas which concentrate the full year's effect of tax reduction in those seven months. A technical note on the calculation and uses of the spendable earnings series is available on request.

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	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^p	Dec. 1978 ^p
	Hours				
TOTAL PRIVATE	118.2	119.3	123.1	123.2	124.5
GOODS-PRODUCING	103.7	102.7	110.1	109.8	109.8
MINING	141.7	106.5	148.3	149.7	148.4
CONSTRUCTION	112.3	106.4	136.5	128.1	123.2
MANUFACTURING	100.8	101.9	104.1	105.1	106.1
DURABLE GOODS	102.1	104.1	107.2	108.5	110.3
Lumber and wood products.....	111.0	112.3	116.7	113.6	113.0
Furniture and fixtures.....	109.3	111.9	110.9	111.0	112.9
Stone, clay, and glass products.....	110.4	108.1	114.7	114.7	112.4
Primary metal industries.....	90.8	92.2	96.5	98.7	100.2
Fabricated metal products.....	101.7	103.4	105.1	106.5	108.8
Machinery, except electrical.....	106.4	110.1	113.3	115.8	119.5
Electric and electronic equipment.....	100.4	101.7	103.0	104.8	106.0
Transportation equipment.....	95.8	100.8	102.6	104.6	108.2
Instruments and related products.....	117.0	118.8	125.1	127.9	131.0
Miscellaneous manufacturing industries.....	102.4	98.3	107.2	106.5	101.8
NONDURABLE GOODS	99.0	98.6	99.5	100.2	100.0
Food and kindred products.....	96.0	94.0	97.8	95.9	94.6
Tobacco manufactures.....	87.0	86.1	84.0	84.1	82.9
Textile mill products.....	94.3	93.8	92.0	93.0	93.2
Apparel and other textile products.....	92.7	91.1	91.1	92.0	90.4
Paper and allied products.....	99.8	101.3	99.4	102.3	102.5
Printing and publishing.....	97.9	99.6	99.1	101.3	104.3
Chemicals and allied products.....	104.2	105.2	106.6	107.4	107.4
Petroleum and coal products.....	118.8	117.6	126.0	125.0	124.0
Rubber and misc. plastics products.....	143.8	144.2	150.6	152.5	155.0
Leather and leather products.....	71.1	69.6	68.5	68.1	66.9
SERVICE-PRODUCING	128.3	130.9	132.1	132.5	134.7
TRANSPORTATION AND PUBLIC UTILITIES	107.7	108.1	110.5	110.7	111.8
WHOLESALE AND RETAIL TRADE	124.9	130.5	128.2	129.4	133.8
WHOLESALE TRADE	122.9	124.0	128.4	128.6	129.3
RETAIL TRADE	125.7	133.0	128.2	129.7	135.6
FINANCE, INSURANCE, AND REAL ESTATE	133.0	133.4	140.3	140.2	140.8
SERVICES	141.0	141.3	145.1	144.8	144.7

¹ For 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	Nov. 1977	Dec. 1977	Oct. 1978	Nov. 1978 ^P	Dec. 1978 ^P
	Payrolls				
TOTAL PRIVATE	238.1	240.6	269.2	270.0	273.9
GOODS-PRODUCING	215.5	214.2	249.4	249.4	251.5
MINING	319.7	226.2	370.8	377.7	374.7
CONSTRUCTION	225.7	214.5	294.6	276.8	268.0
MANUFACTURING	208.8	213.7	233.0	237.3	242.5
DURABLE GOODS	212.9	219.9	241.6	246.5	253.5
Lumber and wood products	248.4	250.2	284.6	275.1	273.8
Furniture and fixtures	210.6	217.5	227.8	228.6	234.8
Stone, clay, and glass products	234.2	230.4	263.8	265.1	259.9
Primary metal industries	209.6	214.2	243.3	251.3	256.7
Fabricated metal products	207.7	212.5	228.9	233.8	241.5
Machinery, except electrical	215.5	226.0	246.6	254.1	265.4
Electric and electronic equipment	201.0	207.1	221.2	225.8	232.1
Transportation equipment	211.2	225.2	245.1	251.7	263.3
Instruments and related products	223.4	230.4	254.1	261.6	272.7
Miscellaneous manufacturing industries	194.9	190.3	217.5	217.8	211.7
NONDURABLE GOODS	201.7	203.1	218.4	221.7	223.7
Food and kindred products	201.0	199.5	218.5	217.3	216.1
Tobacco manufactures	221.1	222.3	221.6	229.2	233.2
Textile mill products	189.3	188.7	197.6	201.2	202.8
Apparel and other textile products	169.2	169.0	180.0	183.0	181.4
Paper and allied products	214.7	220.2	231.2	240.3	243.1
Printing and publishing	186.9	190.6	198.9	204.5	212.0
Chemicals and allied products	223.9	228.2	246.9	249.4	250.9
Petroleum and coal products	264.3	264.3	305.4	305.2	307.1
Rubber and misc. plastics products	275.4	278.5	310.2	316.6	327.8
Leather and leather products	126.9	124.4	130.6	131.3	129.3
SERVICE-PRODUCING	257.7	263.3	286.2	287.8	293.2
TRANSPORTATION AND PUBLIC UTILITIES	241.5	243.6	263.8	264.5	269.1
WHOLESALE AND RETAIL TRADE	243.0	253.7	272.1	275.4	284.8
WHOLESALE TRADE	237.0	241.9	270.3	271.8	275.7
RETAIL TRADE	246.5	260.4	273.0	277.5	289.8
FINANCE, INSURANCE, AND REAL ESTATE	238.5	241.0	272.8	273.0	275.2
SERVICES	294.2	296.3	324.4	324.6	326.3

¹ For 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 workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

Industry	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
TOTAL PRIVATE	35.9	35.5	35.7	36.0	36.1	35.9	35.9	35.9	35.8	35.8	35.9	35.8	35.8
MINING	42.9	42.8	43.2	43.7	44.0	43.4	43.4	43.0	43.6	43.0	43.0	43.2	44.0
CONSTRUCTION	36.2	34.3	35.6	36.9	37.3	36.6	37.3	37.3	37.1	37.0	36.9	36.7	36.9
MANUFACTURING	40.5	39.8	40.1	40.6	40.8	40.4	40.5	40.5	40.3	40.4	40.5	40.7	40.6
<i>Overtime hours</i>	3.6	3.5	3.7	3.7	3.8	3.5	3.6	3.6	3.4	3.6	3.6	3.6	3.8
DURABLE GOODS	41.2	40.4	40.7	41.3	41.4	41.0	41.2	41.2	41.0	41.1	41.2	41.4	41.3
<i>Overtime hours</i>	3.8	3.7	4.0	3.9	4.0	3.7	3.7	3.8	3.6	3.8	3.9	4.0	4.1
Lumber and wood products	40.0	39.3	39.6	39.9	40.2	39.5	40.0	39.8	39.3	39.6	40.1	40.0	39.7
Furniture and fixtures	39.6	38.4	40.0	40.1	40.1	39.4	39.5	39.3	39.0	38.8	39.0	39.2	39.3
Stone, clay, and glass products	41.3	40.0	40.9	41.8	42.0	41.6	41.9	41.7	41.6	41.8	41.8	42.0	42.0
Primary metal industries	41.6	41.4	41.6	41.5	41.5	41.7	41.8	41.8	42.0	41.8	42.1	42.5	42.3
Fabricated metal products	41.2	40.3	40.7	41.3	41.4	41.1	41.0	41.0	40.9	40.9	40.8	41.0	41.2
Machinery, except electrical	41.9	41.1	41.8	42.3	42.3	42.1	42.3	42.2	41.8	41.9	42.0	42.2	42.1
Electric and electronic equipment	40.5	39.7	40.0	40.6	40.4	40.2	40.2	40.7	40.4	40.1	40.3	40.4	40.3
Transportation equipment	42.4	41.6	40.9	42.1	42.4	41.8	42.0	42.1	41.8	42.5	42.6	42.9	42.3
Instruments and related products	40.5	40.4	40.6	41.3	41.4	40.8	40.8	40.7	41.0	40.9	40.9	40.8	40.9
Miscellaneous manufacturing ind	38.6	38.0	38.3	39.0	39.1	38.8	38.8	38.8	39.0	39.0	38.8	38.8	39.1
NONDURABLE GOODS	39.4	38.8	39.1	39.7	39.8	39.5	39.4	39.4	39.3	39.4	39.3	39.5	39.5
<i>Overtime hours</i>	3.3	3.2	3.3	3.3	3.4	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.4
Food and kindred products	39.9	39.7	39.7	40.0	40.1	39.8	39.6	39.8	39.5	39.5	39.9	39.9	39.7
Tobacco manufactures	38.0	37.6	38.3	38.9	38.7	38.7	39.6	38.6	37.7	37.9	36.7	37.4	38.0
Textile mill products	40.5	40.3	40.3	40.8	40.9	40.5	40.3	40.2	40.4	40.4	40.3	40.4	40.4
Apparel and other textile products	35.9	33.7	35.5	36.0	36.3	35.9	35.8	35.8	35.6	35.7	35.2	35.7	35.8
Paper and allied products	42.9	42.5	42.5	43.4	43.5	42.9	42.9	42.9	42.7	42.7	42.6	43.1	42.8
Printing and publishing	37.6	37.4	37.4	38.0	37.9	37.3	37.5	37.6	37.4	37.8	37.7	37.8	37.7
Chemicals and allied products	41.7	41.6	41.6	42.1	42.0	41.9	41.9	41.8	41.9	41.8	41.9	42.0	41.7
Petroleum and coal products	43.4	43.1	42.8	43.3	43.6	42.9	43.4	43.9	44.3	43.8	43.9	43.7	43.7
Rubber and misc. plastics products	40.6	40.2	39.8	40.7	41.3	41.1	41.1	40.9	40.9	41.0	41.0	41.2	41.5
Leather and leather products	37.0	36.5	36.4	37.1	38.1	37.6	37.4	37.2	37.1	37.2	37.1	36.9	36.7
TRANSPORTATION AND PUBLIC UTILITIES	40.0	40.0	40.1	40.4	40.0	40.2	40.1	39.6	39.9	40.1	40.1	40.0	40.0
WHOLESALE AND RETAIL TRADE	33.1	32.7	32.7	33.0	33.0	32.9	32.8	32.9	32.8	32.8	32.9	32.8	32.7
WHOLESALE TRADE	38.8	38.7	38.7	38.9	39.0	38.7	38.8	38.7	38.8	39.0	38.9	38.9	38.9
RETAIL TRADE	31.4	30.9	30.9	31.2	31.2	31.1	31.0	31.1	30.9	30.9	31.0	30.9	30.8
FINANCE, INSURANCE, AND REAL ESTATE	36.4	36.3	36.3	36.3	36.7	36.3	36.5	36.6	36.5	36.5	36.6	36.3	36.3
SERVICES	33.0	33.0	32.9	33.0	33.0	32.9	32.8	32.8	32.7	32.8	32.8	32.7	32.6

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

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED

**C-8. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

[1967=100]

Industry division and group	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
TOTAL PRIVATE	117.5	116.2	117.1	119.1	120.4	120.0	120.6	120.6	120.4	120.8	121.6	122.3	122.5
GOODS-PRODUCING	101.6	99.3	100.9	103.6	106.0	105.1	106.0	106.1	105.4	105.5	106.5	107.9	108.7
MINING	107.8	105.6	106.8	111.3	144.2	143.1	144.0	143.5	145.7	144.4	145.2	147.8	149.9
CONSTRUCTION	108.6	100.3	104.2	111.5	118.8	117.1	122.8	124.2	122.8	122.6	123.8	123.9	125.7
MANUFACTURING	100.2	98.9	100.1	102.0	102.5	101.6	101.7	101.6	101.0	101.2	102.1	103.7	104.3
DURABLE GOODS	101.7	100.5	101.9	103.9	104.2	103.5	103.8	104.0	103.5	103.9	105.5	107.1	107.8
Lumber and wood products	114.5	113.2	114.0	114.3	115.0	111.8	113.6	112.3	110.7	111.6	113.9	114.8	115.0
Furniture and fixtures	108.9	106.1	111.1	112.5	112.5	110.3	109.5	108.3	106.4	106.2	107.5	108.6	109.7
Stone, clay, and glass products	109.0	106.4	108.4	111.0	112.7	111.4	112.4	111.1	109.8	110.1	110.8	112.7	113.3
Primary metal industries	91.9	92.2	93.4	92.8	92.9	93.9	94.1	94.4	95.3	95.5	96.9	99.5	99.9
Fabricated metal products	101.1	99.4	101.4	102.9	103.5	103.3	102.4	102.0	101.8	102.0	103.1	104.8	106.4
Machinery, except electrical	106.2	104.6	107.1	109.4	110.1	109.5	111.3	112.1	110.8	111.5	113.6	114.4	115.3
Electric and electronic equipment	98.6	97.3	98.8	101.2	100.4	99.8	99.8	101.8	101.1	100.1	101.4	102.4	102.8
Transportation equipment	95.7	94.9	93.7	97.2	97.5	96.6	95.8	96.2	96.1	97.7	100.4	102.8	102.7
Instruments and related products	116.0	116.3	117.5	120.5	121.7	120.8	122.4	123.6	123.9	123.9	124.5	126.0	127.8
Miscellaneous manufacturing ind	99.0	97.4	99.0	102.0	102.6	101.5	101.4	99.8	100.6	100.3	100.9	101.5	102.6
NONDURABLE GOODS	97.9	96.5	97.4	99.2	99.9	98.9	98.7	98.1	97.2	97.2	97.2	98.7	99.3
Food and kindred products	94.6	94.5	94.7	96.2	96.4	94.6	94.0	93.6	91.4	91.3	92.2	94.3	95.3
Tobacco manufactures	78.7	77.9	79.4	82.0	80.2	81.5	84.1	78.6	71.5	74.5	73.5	73.5	76.1
Textile mill products	93.0	92.6	92.5	93.7	93.4	92.6	91.8	91.5	91.2	91.8	91.6	92.3	92.3
Apparel and other textile products	91.1	85.6	90.1	91.6	93.2	91.9	91.4	90.1	90.1	90.1	88.7	90.1	90.5
Paper and allied products	99.6	98.7	99.1	101.6	102.4	101.9	101.9	101.9	99.2	99.0	98.2	100.9	100.7
Printing and publishing	96.7	96.7	96.9	99.3	99.1	98.2	98.6	99.1	98.3	97.8	98.5	100.2	101.4
Chemicals and allied products	104.5	104.4	104.8	106.0	106.5	106.9	106.9	106.6	106.0	106.0	106.2	106.8	106.6
Petroleum and coal products	119.8	119.9	119.0	121.3	122.1	118.4	120.4	121.2	123.2	122.7	123.0	123.3	126.0
Rubber and misc. plastics products	142.1	141.0	140.1	144.5	147.3	146.6	147.0	146.2	145.4	145.0	147.0	150.0	152.9
Leather and leather products	69.6	68.0	67.8	69.1	71.3	70.4	70.1	67.1	69.1	69.6	68.8	67.5	66.5
SERVICE-PRODUCING	128.5	127.9	128.4	129.8	130.5	130.5	130.7	130.7	130.8	131.4	132.0	132.3	132.2
TRANSPORTATION AND PUBLIC UTILITIES	106.9	107.0	107.7	109.1	108.7	109.0	109.4	106.5	107.7	108.2	109.9	110.2	110.6
WHOLESALE AND RETAIL TRADE	124.7	123.7	124.2	125.9	126.4	126.8	126.8	127.4	127.2	127.5	128.2	128.4	127.8
WHOLESALE TRADE	123.0	123.1	123.9	125.3	126.0	125.2	126.1	125.7	126.1	127.1	127.4	128.0	128.2
RETAIL TRADE	125.4	123.9	124.4	126.1	126.6	127.3	127.0	128.0	127.7	127.7	128.5	128.5	127.7
FINANCE, INSURANCE, AND REAL ESTATE	133.9	134.3	135.1	135.4	137.5	136.2	137.9	139.0	139.2	139.6	140.5	140.6	141.0
SERVICES	142.1	141.7	141.8	143.3	144.1	143.8	143.9	144.1	144.1	145.1	145.0	145.5	145.5

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

^p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

C-9. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
Average hourly earnings													
TOTAL PRIVATE	\$5.41	\$5.46	\$5.49	\$5.54	\$5.61	\$5.62	\$5.66	\$5.71	\$5.73	\$5.77	\$5.82	\$5.86	\$5.90
MINING	6.75	6.84	6.92	6.94	7.63	7.66	7.71	7.85	7.88	7.88	7.99	8.02	8.03
CONSTRUCTION	8.24	8.30	8.35	8.47	8.47	8.59	8.65	8.66	8.72	8.75	8.77	8.83	8.89
MANUFACTURING	5.88	5.93	5.98	6.01	6.05	6.08	6.12	6.18	6.20	6.25	6.32	6.37	6.41
TRANSPORTATION AND PUBLIC UTILITIES	7.28	7.34	7.38	7.40	7.49	7.50	7.52	7.53	7.58	7.65	7.66	7.69	7.77
WHOLESALE AND RETAIL TRADE	4.42	4.51	4.50	4.55	4.60	4.60	4.63	4.67	4.70	4.73	4.77	4.81	4.83
FINANCE, INSURANCE, AND REAL ESTATE	4.68	4.72	4.71	4.75	4.84	4.84	4.89	4.95	4.92	4.98	5.03	5.06	5.06
SERVICES	4.78	4.86	4.87	4.90	4.95	4.94	4.96	5.01	5.02	5.05	5.10	5.11	5.14
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	194.22	193.83	195.99	199.44	202.52	201.76	203.19	204.99	205.13	206.57	208.94	209.79	211.22
1967 dollars ²	104.42	103.38	103.86	104.86	105.59	104.21	104.04	104.43	103.92	103.91	104.26	104.11	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ³	95.06	92.41	92.70	93.33	93.76	92.59	92.33	92.55	92.09	91.98	92.14	91.95	-

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

² See footnote 2, table C-5.

³ A major revision in the CPI was introduced beginning with the January 1978 data (see note on table C-5, and Explanatory Notes).

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		
	OCTOBER 1978	NOVEMBER 1978 ^p	DECEMBER 1978 ^p	Dec. 1977 to Dec. 1978	Oct. 1978 to Nov. 1978	Nov. 1978 to Dec. 1978
TOTAL	163,684	165,135	165,266	4.2	0.9	0.1
PRIVATE SECTOR	133,509	134,162	134,601	4.6	0.5	0.3
MINING	2,010	2,050	2,066	36.3	1.9	0.8
CONSTRUCTION	8,315	8,303	8,505	13.7	-0.1	2.4
MANUFACTURING	42,598	43,120	43,410	4.0	1.2	0.7
DURABLE GOODS	26,046	26,388	26,573	5.7	1.3	0.7
NONDURABLE GOODS	16,552	16,732	16,837	1.4	1.1	0.6
TRANSPORTATION AND PUBLIC UTILITIES	10,211	10,263	10,318	4.4	0.5	0.5
WHOLESALE AND RETAIL TRADE	33,662	33,652	33,497	2.9	0.0	-0.5
FINANCE, INSURANCE, AND REAL ESTATE	9,010	9,024	9,042	5.2	0.2	0.2
SERVICES	27,703	27,751	27,763	3.1	0.2	0.0
GOVERNMENT	30,175	30,973	30,665	2.3	2.6	-1.0

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Surveys and 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										
			1976				1977				1978		
	1976	1977	I	II	III	IV	I	II	III	IV	I	II	III
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	116.4	118.4	115.4	116.1	117.1	117.2	117.9	117.4	118.9	119.0	117.6	118.0	119.0
Output	126.5	133.2	126.0	126.2	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.7	139.7
Hours	108.7	112.6	108.3	108.7	108.5	108.9	110.7	112.9	113.9	115.0	117.6	117.4	117.4
Compensation per hour	197.0	213.0	190.9	194.8	199.3	203.6	207.5	210.5	215.3	218.8	225.2	229.6	235.3
Real compensation per hour	115.6	117.4	114.1	115.0	116.1	117.3	117.2	116.4	117.6	118.2	119.3	118.6	119.0
Unit labor costs	169.3	180.2	165.4	167.7	170.1	173.8	176.0	179.3	181.1	183.9	191.4	194.6	197.8
Unit nonlabor payments	158.1	164.7	156.7	158.3	159.0	158.4	160.3	164.0	167.0	167.8	162.1	171.3	175.3
Implicit price deflator	165.4	174.9	162.4	164.5	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.6	190.0
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	114.4	115.8	113.0	114.4	115.2	114.9	115.6	115.2	116.2	116.4	115.5	116.0	116.6
Output	127.0	133.6	125.2	126.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.8	140.5
Hours	111.0	115.4	110.8	110.9	110.9	111.5	113.3	115.5	115.8	116.7	117.8	120.6	120.5
Compensation per hour	193.7	209.3	187.6	191.7	195.8	199.9	203.9	207.1	211.2	215.1	221.4	225.8	231.0
Real compensation per hour	113.6	115.3	112.1	113.1	114.1	115.1	115.1	114.5	115.3	116.2	117.3	116.6	116.9
Unit labor costs	169.4	180.8	166.0	167.5	170.1	173.9	176.4	179.8	181.7	184.8	191.7	194.7	198.1
Unit nonlabor payments	156.0	162.6	153.7	155.5	157.4	157.2	157.7	161.7	166.1	165.1	159.2	167.1	171.7
Implicit price deflator	164.8	174.6	161.8	163.4	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.3	189.1
MANUFACTURING:													
Output per hour of all persons	123.2	126.1	121.8	123.3	124.1	123.9	123.7	125.6	127.6	127.5	125.9	128.4	131.6
Output	119.3	126.9	117.8	119.2	120.0	120.3	122.6	126.6	128.6	129.8	129.7	134.1	137.1
Hours	96.8	100.6	96.7	96.7	96.7	97.1	99.1	100.7	100.8	101.8	103.1	104.5	104.2
Compensation per hour	195.1	212.2	189.1	193.7	196.9	200.9	205.6	209.7	214.4	218.9	225.0	229.1	235.0
Real compensation per hour	114.4	116.9	113.0	114.4	114.7	115.7	116.1	116.0	117.1	118.2	119.2	118.3	118.8
Unit labor costs	158.3	168.3	155.3	157.1	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.5	178.6
DURABLE GOODS													
Output per hour of all persons	118.3	120.5	116.6	118.6	119.5	118.4	117.9	120.4	121.9	121.6	119.4	122.7	125.6
Output	113.3	121.4	110.8	113.3	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.5	133.4
Hours	95.8	100.8	95.0	95.5	96.1	96.6	98.7	100.5	101.3	102.7	104.1	105.6	106.2
Compensation per hour	196.9	214.3	191.5	195.8	198.5	201.7	207.1	211.8	216.4	221.5	227.0	231.2	237.0
Real compensation per hour	115.5	118.0	114.4	115.6	115.7	116.2	116.9	117.1	118.2	119.6	120.3	119.4	119.9
Unit labor costs	166.5	177.9	164.2	165.1	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.4	188.7
NONDURABLE GOODS													
Output per hour of all persons	131.3	135.3	130.1	130.9	131.5	132.7	133.1	134.1	136.9	137.3	136.4	137.7	141.4
Output	129.1	135.7	129.2	128.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.5	143.0
Hours	98.4	100.3	99.3	98.4	97.7	97.9	99.7	101.0	100.0	100.5	101.4	102.8	101.1
Compensation per hour	192.7	208.6	185.9	190.8	194.5	199.7	203.4	206.3	210.6	214.0	221.0	224.8	230.1
Real compensation per hour	113.0	115.0	111.1	112.6	113.3	115.0	114.8	114.1	115.0	115.6	117.1	116.1	116.4
Unit labor costs	146.8	154.2	142.9	145.8	147.9	150.5	152.8	153.9	153.8	155.9	162.1	163.3	162.8
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	115.5	116.9	114.9	115.8	116.2	115.5	116.0	116.5	117.7	117.6	116.9	118.1	118.5
Output	133.8	141.0	132.3	134.1	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.8	149.3
Hours	115.8	120.6	115.2	115.8	115.7	116.3	118.5	120.7	120.9	122.1	122.9	126.0	126.0
Compensation per hour	192.4	208.0	186.3	190.2	194.5	198.8	202.2	205.9	210.2	213.8	220.2	224.7	229.8
Real compensation per hour	112.9	114.6	111.3	112.3	113.3	114.5	114.1	113.9	114.8	115.5	116.7	116.0	116.3
Total unit costs	172.0	182.0	168.0	169.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.6	196.2
Unit labor costs	166.5	177.9	162.2	164.3	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.2	194.0
Unit nonlabor costs	188.8	194.5	186.1	186.9	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.1	203.3
Unit profits	112.7	120.2	114.9	115.5	114.7	105.6	108.8	120.1	128.3	122.9	104.5	127.8	130.8
Implicit price deflator	163.2	172.8	160.1	161.7	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0	186.5

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					
	I 1977	II 1977	III 1977	IV 1977	I 1978	II 1978	II 1976	III 1976	IV 1976	I 1977	II 1977	III 1977
	to II 1977	to III 1977	to IV 1977	to I 1978	to II 1978	to III 1978	to II 1977	to III 1977	to IV 1977	to I 1978	to II 1978	to III 1978
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-1.7	5.1	0.4	-4.5	1.2	3.4	1.1	1.5	1.5	-0.2	0.5	0.1
Output	6.5	5.0	4.0	-0.6	10.5	2.9	5.0	5.6	6.2	3.7	4.6	4.1
Hours	8.3	-0.1	3.7	4.0	9.2	-0.5	3.9	4.0	4.6	3.9	4.1	4.0
Compensation per hour	5.8	9.5	6.7	12.1	8.1	10.4	8.1	8.0	7.5	8.5	9.1	9.3
Real compensation per hour	-2.7	4.3	1.9	4.0	-2.5	1.6	1.2	1.3	0.7	1.8	1.9	1.2
Unit labor costs	7.6	4.2	6.3	17.4	6.8	6.7	6.9	6.5	5.8	8.8	8.5	9.2
Unit nonlabor payments	9.5	7.4	2.0	-13.1	24.8	9.7	3.6	5.0	5.9	1.1	4.4	5.0
Implicit price deflator	8.2	5.2	4.9	6.7	12.1	7.7	5.8	6.0	5.9	6.3	7.2	7.8
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-1.4	3.7	0.5	-3.1	1.7	2.3	0.7	0.9	1.3	-0.1	0.7	0.3
Output	6.2	5.0	3.5	0.7	11.6	2.0	4.8	5.4	6.0	3.8	5.2	4.4
Hours	7.7	1.3	3.0	3.9	9.8	-0.3	4.1	4.4	4.7	3.9	4.5	4.0
Compensation per hour	6.5	8.1	7.6	12.2	8.2	9.5	8.1	7.8	7.6	8.6	9.0	9.4
Real compensation per hour	-2.1	2.9	2.8	4.0	-2.4	0.9	1.2	1.1	0.9	1.9	1.8	1.3
Unit labor costs	8.0	4.2	7.1	15.7	6.4	7.1	7.3	6.8	6.3	8.7	8.3	9.0
Unit nonlabor payments	10.3	11.5	-2.4	-13.1	21.3	11.6	4.0	5.5	5.0	0.9	3.4	3.4
Implicit price deflator	8.7	6.5	4.0	5.8	10.8	8.5	6.2	6.4	5.9	6.2	6.7	7.2
MANUFACTURING:												
Output per hour of all persons	6.4	6.5	-0.3	-5.1	8.3	10.4	1.9	2.9	2.9	1.8	2.2	3.1
Output	13.7	6.6	4.0	-0.5	14.3	9.2	6.1	7.1	7.9	5.8	6.0	6.6
Hours	6.8	0.1	4.3	4.9	5.6	-1.1	4.2	4.1	4.8	4.0	3.7	3.4
Compensation per hour	8.2	9.2	8.8	11.6	7.4	10.6	8.3	8.9	9.0	9.4	9.2	9.6
Real compensation per hour	-0.6	3.9	4.0	3.5	-3.1	1.9	1.4	2.1	2.2	2.7	2.0	1.5
Unit labor costs	1.6	2.5	9.1	17.7	-0.8	0.2	6.2	5.8	5.9	7.6	6.9	6.3
DURABLE GOODS												
Output per hour of all persons	8.9	5.0	-1.1	-6.8	11.3	10.0	1.6	2.0	2.6	1.3	1.9	3.1
Output	17.1	8.3	4.5	-1.5	17.7	12.5	6.9	7.5	9.1	6.9	7.0	8.1
Hours	7.6	3.1	5.7	5.7	5.7	2.3	5.2	5.4	6.3	5.5	5.1	4.9
Compensation per hour	9.4	9.0	9.8	10.4	7.5	10.5	8.2	9.0	9.8	9.6	9.2	9.5
Real compensation per hour	0.5	3.8	4.9	2.4	-3.0	1.8	1.3	2.2	2.9	2.9	1.9	1.4
Unit labor costs	0.5	3.8	11.0	18.5	-3.4	0.5	6.5	6.8	7.0	8.2	7.1	6.3
NONDURABLE GOODS												
Output per hour of all persons	3.1	8.6	1.0	-2.6	3.9	11.2	2.4	4.1	3.5	2.5	2.6	3.2
Output	9.0	4.1	3.2	1.1	9.4	4.3	5.1	6.6	6.2	4.3	4.4	4.5
Hours	5.7	-4.2	2.2	3.8	5.3	-6.2	2.6	2.4	2.7	1.8	1.7	1.2
Compensation per hour	6.0	8.5	6.7	13.6	7.2	9.7	8.1	8.3	7.2	8.7	9.0	9.3
Real compensation per hour	-2.6	3.3	1.9	5.3	-3.3	1.0	1.3	1.5	0.5	2.0	1.8	1.2
Unit labor costs	2.8	-0.1	5.6	16.6	3.2	-1.3	5.6	4.7	3.6	6.0	6.1	5.8
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	1.7	4.4	-0.5	-2.5	4.4	1.3	0.6	1.3	1.8	0.8	1.4	0.7
Output	9.2	5.2	3.6	0.0	15.2	1.5	4.8	5.9	7.0	4.5	5.9	4.9
Hours	7.4	0.7	4.2	2.5	10.4	0.2	4.2	4.5	5.0	3.7	4.4	4.2
Compensation per hour	7.7	8.5	7.2	12.5	8.3	9.5	8.3	8.0	7.5	8.9	9.1	9.4
Real compensation per hour	-1.0	3.3	2.4	4.3	-2.3	0.8	1.4	1.3	0.8	2.2	1.9	1.3
Total unit costs	4.6	3.9	6.8	13.6	2.3	7.7	6.5	5.6	4.7	7.1	6.6	7.5
Unit labor costs	5.8	3.9	7.7	15.3	3.8	8.1	7.6	6.6	5.6	8.1	7.6	8.7
Unit nonlabor costs	1.0	3.9	4.3	8.5	-2.0	6.5	3.3	3.0	2.1	4.4	3.6	4.3
Unit profits	48.2	30.4	-15.8	-47.8	123.6	9.9	3.9	11.9	16.4	-4.0	6.4	1.9
Implicit price deflator	8.3	6.4	4.2	5.5	10.2	7.9	6.2	6.3	5.8	6.1	6.5	6.9

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
ALABAMA	\$206.23	\$228.22	\$230.27	41.0	40.9	40.9	\$5.03	\$5.58	\$5.63
Birmingham	237.01	270.40	264.54	39.7	40.6	39.9	5.97	6.66	6.63
Mobile	256.76	272.95	(*)	42.3	41.8	(*)	6.07	6.53	(*)
ALASKA	445.55	422.73	(*)	42.8	42.7	(*)	10.41	9.90	(*)
ARIZONA	231.66	249.08	254.40	40.5	40.5	40.9	5.72	6.15	6.22
Phoenix	231.18	253.99	266.45	40.7	40.9	42.7	5.68	6.21	6.24
Tucson	222.48	227.94	(*)	39.1	38.7	(*)	5.69	5.89	(*)
ARKANSAS	177.24	191.27	193.26	40.1	39.6	39.2	4.42	4.83	4.93
Fayetteville-Springdale	164.83	178.85	174.83	40.9	40.1	39.2	4.03	4.46	4.46
Fort Smith	181.57	190.61	194.14	39.3	38.9	39.3	4.62	4.90	4.94
Little Rock-North Little Rock	206.34	222.71	226.73	40.3	40.2	40.2	5.12	5.54	5.64
Pine Bluff	220.90	263.08	257.51	42.4	42.5	41.4	5.21	6.19	6.22
CALIFORNIA	247.65	264.77	268.52	40.4	40.3	40.5	6.13	6.57	6.63
Anaheim-Santa Ana-Garden Grove	230.57	246.60	249.26	41.1	41.1	41.2	5.61	6.00	6.05
Bakersfield	251.10	275.80	279.03	40.5	38.9	39.3	6.20	7.09	7.10
Fresno	225.89	244.21	241.00	40.7	40.1	39.9	5.55	6.09	6.04
Los Angeles-Long Beach	232.23	248.47	251.53	40.6	40.8	41.1	5.72	6.09	6.12
Modesto	247.66	252.98	260.80	40.8	38.8	40.0	6.07	6.52	6.52
Oxnard-Simi Valley-Ventura	210.81	229.20	230.98	39.7	40.0	40.1	5.31	5.73	5.76
Riverside-San Bernardino-Ontario	246.76	275.93	277.26	39.8	40.4	40.3	6.20	6.83	6.88
Sacramento	265.28	289.28	286.89	39.3	39.9	39.3	6.75	7.25	7.30
Salinas-Seaside-Monterey	232.79	268.40	251.54	38.1	40.0	37.6	6.11	6.71	6.69
San Diego	237.37	248.29	245.25	39.3	39.1	38.5	6.04	6.35	6.37
San Francisco-Oakland	301.90	318.00	319.59	40.2	39.8	39.8	7.51	7.99	8.03
San Jose	266.18	276.61	286.82	40.7	39.8	40.8	6.54	6.95	7.03
Santa Barbara-Santa Maria-Lompoc	222.77	228.13	215.94	40.8	38.6	36.6	5.46	5.91	5.90
Santa Rosa	219.70	239.27	235.59	37.3	38.1	37.1	5.89	6.28	6.35
Stockton	271.86	282.03	291.40	39.4	38.9	39.7	6.90	7.25	7.34
Vallejo-Fairfield-Napa	244.78	279.66	282.08	37.2	39.5	38.8	6.58	7.08	7.27
COLORADO	230.30	247.59	248.29	39.3	39.3	39.6	5.86	6.30	6.27
Denver-Boulder	231.64	246.41	248.58	39.8	39.3	39.9	5.82	6.27	6.23
CONNECTICUT	238.98	257.98	260.47	42.0	42.5	42.7	5.69	6.07	6.10
Bridgeport	245.38	270.07	274.74	43.2	43.7	44.1	5.68	6.18	6.23
Hartford	261.32	286.89	292.38	42.7	43.8	44.1	6.12	6.55	6.63
New Britain	246.87	264.69	269.33	42.2	42.9	43.3	5.85	6.17	6.22
New Haven-West Haven	235.34	263.08	265.20	41.0	42.5	42.5	5.74	6.19	6.24
Stamford	245.92	266.54	261.84	42.4	43.2	42.3	5.80	6.17	6.19
Waterbury	203.04	226.31	229.27	42.3	42.3	42.3	4.80	5.35	5.42
DELAWARE	256.31	258.95	263.07	40.3	39.9	39.5	6.36	6.49	6.66
Wilmington	293.35	292.39	292.55	40.8	39.3	38.8	7.19	7.44	7.54
DISTRICT OF COLUMBIA:									
Washington SMSA	213.17	214.56	214.18	38.9	38.8	38.8	5.48	5.53	5.52
FLORIDA	192.44	209.51	212.16	40.6	41.0	41.6	4.74	5.11	5.10
Fort Lauderdale-Hollywood	187.80	195.77	196.58	40.3	40.2	40.2	4.66	4.87	4.89
Jacksonville	219.51	248.81	253.54	40.5	41.4	41.7	5.42	6.01	6.08
Miami	163.53	177.51	184.37	39.5	39.8	40.7	4.14	4.46	4.53
Orlando	203.12	225.42	235.66	41.2	41.9	43.4	4.93	5.38	5.43
Pensacola	251.60	281.84	282.88	42.5	43.9	44.2	5.92	6.40	6.40
Tampa-St. Petersburg	191.09	217.46	214.53	40.4	41.5	41.9	4.73	5.24	5.12
West Palm Beach-Boca Raton	244.40	241.83	252.15	43.8	42.5	43.7	5.58	5.69	5.77
GEORGIA	184.42	206.74	209.39	40.8	40.3	40.5	4.52	5.13	5.17
Atlanta	215.59	232.83	242.38	40.6	39.0	39.8	5.31	5.97	6.09
Savannah	249.26	280.36	279.48	43.2	43.4	43.6	5.77	6.46	6.41
HAWAII	199.86	242.42	244.28	34.4	39.1	39.4	5.81	6.20	6.20
Honolulu	223.23	240.77	243.20	37.9	38.4	39.1	5.89	6.27	6.22
IDAHO	231.55	251.94	257.54	38.4	39.0	39.2	6.03	6.46	6.57
Borise City	216.84	241.16	256.49	39.0	37.8	39.4	5.56	6.38	6.51

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
ILLINOIS	\$264.00	\$273.47	\$280.93	40.8	39.8	40.3	\$6.46	\$6.87	\$6.97
Bloomington—Normal	207.39	253.44	260.64	38.3	41.3	42.0	5.42	6.13	6.21
Champaign—Urbana—Rantoul	265.02	262.95	263.85	41.6	39.9	39.6	6.37	6.59	6.66
Chicago SMSA	262.43	272.05	274.80	41.5	40.4	40.7	6.32	6.73	6.75
Davenport—Rock Island—Moline	287.90	275.57	281.40	41.4	36.9	37.4	6.95	7.47	7.52
Decatur	310.20	319.18	328.72	43.9	41.8	43.0	7.07	7.63	7.64
Peoria	276.80	341.15	352.91	35.5	39.3	40.5	7.80	8.69	8.72
Rockford	272.56	288.11	292.57	43.8	42.4	42.8	6.22	6.80	6.84
Springfield	303.93	310.56	320.86	42.9	42.0	42.8	7.09	7.40	7.50
INDIANA	280.28	302.09	304.38	41.4	41.1	41.3	6.77	7.35	7.37
Gary—Hammond—East Chicago	357.06	402.78	(*)	40.9	42.0	(*)	8.73	9.59	(*)
Indianapolis	294.80	304.20	(*)	43.1	41.5	(*)	6.84	7.33	(*)
IOWA	264.14	294.35	293.71	39.9	40.6	40.4	6.62	7.25	7.27
Cedar Rapids	265.06	299.11	305.87	40.1	41.2	41.9	6.61	7.26	7.30
Des Moines	268.05	301.02	298.35	37.7	39.4	39.0	7.11	7.64	7.65
Dubuque	325.56	365.79	346.06	39.8	41.1	40.1	8.18	8.90	8.63
Sioux City	183.17	285.32	291.72	31.8	43.1	44.0	5.76	6.62	6.63
Waterloo—Cedar Falls	325.99	379.85	376.79	40.8	40.8	41.0	7.99	9.31	9.19
KANSAS	226.32	257.51	255.23	41.0	41.4	41.1	5.52	6.22	6.21
Topeka	247.25	286.54	283.92	40.6	42.2	42.0	6.09	6.79	6.76
Wichita	233.54	274.80	278.30	40.9	41.7	41.6	5.71	6.59	6.69
KENTUCKY	236.37	257.20	260.50	40.2	40.0	40.2	5.88	6.43	6.48
Louisville	268.94	294.84	292.53	40.2	40.5	39.8	6.69	7.28	7.35
LOUISIANA	251.93	275.28	279.03	42.7	41.9	42.6	5.90	6.57	6.55
Baton Rouge	304.16	345.54	349.77	42.9	44.3	44.9	7.09	7.80	7.79
New Orleans	239.72	257.80	263.34	40.7	39.6	39.6	5.89	6.51	6.65
Shreveport	229.32	246.56	242.00	42.0	41.3	40.2	5.46	5.97	6.02
MAINE	187.31	202.10	205.74	39.6	40.1	40.5	4.73	5.04	5.08
Lewiston—Auburn	146.12	160.18	166.80	36.9	37.6	38.7	3.96	4.26	4.31
Portland	189.77	202.40	198.90	39.7	40.0	39.7	4.78	5.06	5.01
MARYLAND	254.52	272.02	274.19	40.4	40.6	40.5	6.30	6.70	6.77
Baltimore	267.55	287.71	289.48	40.6	40.9	40.9	6.59	7.03	7.08
MASSACHUSETTS	211.60	224.53	231.99	40.0	39.6	40.7	5.29	5.67	5.70
Boston	233.56	245.96	258.54	40.2	39.8	41.3	5.81	6.18	6.26
Brockton	163.88	176.61	180.30	37.5	37.9	38.2	4.37	4.66	4.72
Fall River	143.72	157.88	162.72	34.8	35.4	36.0	4.13	4.46	4.52
Lawrence—Haverhill	204.62	223.28	219.01	39.2	39.8	38.9	5.22	5.61	5.63
Lowell	182.35	200.40	203.20	39.3	40.0	40.0	4.64	5.01	5.08
New Bedford	167.87	191.01	204.62	36.1	37.6	40.2	4.65	5.08	5.09
Springfield—Chicopee—Holyoke	221.73	233.19	240.78	41.6	41.2	41.3	5.33	5.66	5.83
Worcester	223.44	231.42	243.02	40.7	39.9	41.4	5.49	5.80	5.87
MICHIGAN	339.78	374.87	371.65	43.4	44.4	43.6	7.83	8.44	8.52
Ann Arbor	385.10	416.90	420.78	45.3	45.3	45.5	8.50	9.20	9.25
Battle Creek	316.46	349.78	353.38	41.4	41.8	41.8	7.64	8.37	8.45
Bay City	370.75	323.89	323.59	49.1	42.3	41.9	7.55	7.66	7.72
Detroit	363.88	400.52	402.35	43.5	44.1	44.2	8.37	9.09	9.10
Flint	407.66	437.49	436.76	46.6	46.8	46.4	8.75	9.35	9.41
Grand Rapids	272.82	283.35	287.69	42.2	41.7	41.7	6.47	6.80	6.90
Jackson	283.37	319.20	327.43	42.2	43.5	44.5	6.72	7.34	7.36
Kalamazoo—Portage	293.50	315.21	313.29	42.2	41.9	41.6	6.96	7.52	7.53
Lansing—East Lansing	346.44	393.56	392.94	43.1	43.7	43.4	8.04	9.01	9.05
Muskegon—Norton Shores—Muskegon Heights	292.86	294.30	294.17	43.1	41.3	41.2	6.80	7.13	7.14
Saginaw	418.63	439.40	441.32	46.9	45.9	45.6	8.93	9.57	9.68
MINNESOTA	244.33	266.90	267.71	39.6	40.5	40.5	6.17	6.59	6.61
Duluth—Superior	220.61	239.27	253.23	38.5	37.8	39.2	5.73	6.33	6.46
Minneapolis—St. Paul	264.37	284.78	285.31	40.3	40.8	40.7	6.56	6.98	7.01
MISSISSIPPI	172.10	186.19	189.14	40.4	40.3	40.5	4.26	4.62	4.67
Jackson	196.88	207.09	210.92	41.8	41.5	42.1	4.71	4.99	5.01

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
MISSOURI	\$244.55	\$255.60	\$265.36	41.1	40.0	40.7	\$5.95	\$6.39	\$6.52
Kansas City	279.64	298.39	297.56	41.8	41.1	41.1	6.69	7.26	7.24
St. Joseph	223.85	238.27	237.41	40.7	40.8	39.7	5.50	5.84	5.98
St. Louis	282.83	299.21	306.59	41.9	41.1	41.6	6.75	7.28	7.37
Springfield	196.95	212.69	216.28	39.0	38.6	38.9	5.05	5.51	5.56
MONTANA	303.30	337.42	355.18	42.9	41.3	43.0	7.07	8.17	8.26
NEBRASKA	220.64	250.62	249.45	39.4	41.7	41.3	5.60	6.01	6.04
Lincoln	211.30	250.97	252.05	37.2	39.9	40.2	5.68	6.29	6.27
Omaha	237.01	268.27	269.51	39.9	41.4	41.4	5.94	6.48	6.51
NEVADA	249.55	250.61	258.52	39.8	37.8	38.7	6.27	6.63	6.68
Las Vegas	322.82	311.65	(*)	41.6	39.3	(*)	7.76	7.93	(*)
NEW HAMPSHIRE	189.88	204.42	206.86	40.4	40.4	40.8	4.70	5.06	5.07
Manchester	167.42	179.54	179.33	39.3	39.2	38.9	4.26	4.58	4.61
Nashua	212.49	225.35	229.61	41.1	41.5	41.9	5.17	5.43	5.48
NEW JERSEY	247.16	260.60	(*)	41.4	41.3	(*)	5.97	6.31	(*)
Atlantic City	208.43	176.18	(*)	39.4	38.3	(*)	5.29	4.60	(*)
Camden ¹	234.99	254.82	(*)	40.1	41.3	(*)	5.86	6.17	(*)
Hackensack ²	229.22	249.55	(*)	41.6	43.1	(*)	5.51	5.79	(*)
Jersey City ²	240.78	253.03	(*)	40.4	40.1	(*)	5.96	6.31	(*)
New Brunswick—Perth Amboy—Sayreville ²	273.92	288.70	(*)	42.6	41.6	(*)	6.43	6.94	(*)
Newark ²	254.71	261.88	(*)	42.1	41.7	(*)	6.05	6.28	(*)
Paterson—Clifton—Passaic ²	233.54	246.24	(*)	40.9	40.5	(*)	5.71	6.08	(*)
Trenton	276.49	270.03	(*)	43.0	41.1	(*)	6.43	6.57	(*)
NEW MEXICO	186.35	192.61	198.40	40.6	38.6	39.6	4.59	4.99	5.01
Albuquerque	187.27	192.45	190.64	40.8	38.8	39.8	4.59	4.96	4.79
NEW YORK	234.37	244.99	253.13	40.2	39.9	40.5	5.83	6.14	6.25
Albany—Schenectady—Troy	257.26	269.33	279.39	40.9	40.5	41.7	6.29	6.65	6.70
Binghamton	213.72	231.84	232.82	41.1	41.4	41.5	5.20	5.60	5.61
Buffalo	317.67	334.85	346.01	42.3	41.7	42.3	7.51	8.03	8.18
Elmira	230.28	246.24	255.02	40.4	40.5	41.0	5.70	6.08	6.22
Monroe County ³	309.87	320.30	331.19	42.8	42.2	42.9	7.24	7.59	7.72
Nassau—Suffolk ⁴	225.52	229.28	234.77	40.2	39.6	40.2	5.61	5.79	5.84
New York—Northeastern New Jersey	224.64	232.06	(*)	39.9	39.6	(*)	5.63	5.86	(*)
New York and Nassau—Suffolk ²	205.44	208.62	218.27	38.4	38.0	38.7	5.35	5.49	5.64
New York SMSA ⁴	204.22	203.79	214.10	38.1	37.6	38.3	5.36	5.42	5.59
New York City ⁵	199.66	198.65	210.52	37.6	37.2	38.0	5.31	5.34	5.54
Poughkeepsie	251.14	247.57	254.98	43.6	41.4	41.8	5.76	5.98	6.10
Rochester	289.93	300.17	308.98	42.7	42.1	42.5	6.79	7.13	7.27
Rockland County ⁵	237.54	244.80	246.38	42.8	40.8	41.2	5.55	6.00	5.98
Syracuse	262.06	281.11	284.08	41.4	42.4	42.4	6.33	6.63	6.70
Utica—Rome	224.13	233.34	238.32	40.9	40.3	40.6	5.48	5.79	5.87
Westchester County ⁵	241.26	255.07	246.93	42.7	42.3	41.5	5.65	6.03	5.95
NORTH CAROLINA	170.07	183.26	186.24	40.3	40.1	40.4	4.22	4.57	4.61
Asheville	173.46	184.37	189.74	41.3	40.7	41.7	4.20	4.53	4.55
Charlotte—Gastonia	175.09	189.11	189.88	41.1	41.2	41.1	4.26	4.59	4.62
Greensboro—Winston-Salem—High Point	185.44	198.30	201.50	40.4	39.9	40.3	4.59	4.97	5.00
Raleigh—Durham	193.59	206.74	207.06	40.5	40.3	40.6	4.78	5.13	5.10
NORTH DAKOTA	195.04	232.15	224.70	36.8	40.8	39.7	5.30	5.69	5.66
Fargo—Moorhead	212.29	248.18	244.97	35.8	38.9	38.7	5.93	6.38	6.33
OHIO	295.53	317.34	319.70	42.4	42.2	42.4	6.97	7.52	7.54
Akron	292.72	309.86	316.63	42.3	42.1	42.5	6.92	7.36	7.45
Canton	287.12	307.69	318.61	40.1	39.6	40.9	7.16	7.77	7.79
Cincinnati	277.77	296.52	300.76	42.8	42.3	42.6	6.49	7.01	7.06
Cleveland	303.30	330.42	337.65	42.9	42.8	43.4	7.07	7.72	7.78
Columbus	249.48	273.10	273.91	40.5	40.4	40.4	6.16	6.76	6.78
Dayton	312.61	325.80	327.85	43.6	42.7	42.8	7.17	7.63	7.66
Toledo	308.42	333.91	327.83	42.6	42.7	42.3	7.24	7.82	7.75
Youngstown—Warren	335.37	362.34	370.44	41.2	41.6	42.0	8.14	8.71	8.82

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
OKLAHOMA	\$225.22	\$240.40	\$244.82	40.8	40.2	40.4	\$5.52	\$5.98	\$6.06
Oklahoma City	220.73	235.62	239.78	40.8	39.8	40.3	5.41	5.92	5.95
Tulsa	240.76	253.29	259.60	40.6	39.7	40.0	5.93	6.38	6.49
OREGON	264.41	286.30	287.54	38.6	38.9	38.7	6.85	7.36	7.43
Eugene—Springfield	292.13	325.54	314.34	39.8	41.0	39.0	7.34	7.94	8.06
Jackson County	266.57	302.91	(*)	38.3	39.7	(*)	6.96	7.63	(*)
Portland	254.76	269.80	(*)	38.6	38.0	(*)	6.60	7.10	(*)
PENNSYLVANIA	242.61	262.10	272.54	40.1	40.2	40.8	6.05	6.52	6.68
Allentown—Bethlehem—Easton	236.84	258.34	263.84	38.7	38.5	38.8	6.12	6.71	6.80
Altoona	186.66	211.69	211.50	36.6	37.6	37.5	5.10	5.63	5.64
Delaware Valley ⁶	249.20	272.03	278.12	40.0	40.3	40.9	6.23	6.75	6.80
Erie	257.46	270.90	271.97	42.0	42.0	42.1	6.13	6.45	6.46
Harrisburg	211.60	239.40	242.59	39.7	40.1	39.9	5.33	5.97	6.08
Johnstown	265.93	279.70	286.94	40.6	39.9	40.3	6.55	7.01	7.12
Lancaster	214.80	231.49	239.09	40.3	40.4	40.8	5.33	5.73	5.86
Northeast Pennsylvania	172.56	189.35	191.25	36.1	37.2	37.5	4.78	5.09	5.10
Philadelphia SMSA	(*)	269.06	275.11	(*)	40.4	41.0	(*)	6.66	6.71
Pittsburgh	308.48	321.12	327.13	41.8	40.7	41.2	7.38	7.89	7.94
Reading	221.09	229.90	238.34	39.2	38.9	39.2	5.64	5.91	6.08
Scranton	178.93	200.04	199.64	37.2	39.3	39.3	4.81	5.09	5.08
Wilkes-Barre—Hazleton ⁸	166.25	180.85	184.98	35.0	35.6	36.2	4.75	5.08	5.11
Williamsport	210.65	234.21	233.64	39.3	39.9	39.4	5.36	5.87	5.93
York	225.84	244.70	246.96	41.9	41.9	42.0	5.39	5.84	5.88
RHODE ISLAND	176.79	187.50	191.84	39.2	38.9	39.8	4.51	4.82	4.82
Providence—Warwick—Pawtucket	177.30	190.79	194.57	39.4	39.5	40.2	4.50	4.83	4.84
SOUTH CAROLINA	181.66	195.84	198.03	41.1	40.8	41.0	4.42	4.80	4.83
Charleston—North Charleston	202.95	225.72	230.03	41.0	41.8	41.9	4.95	5.40	5.49
Columbia	180.63	188.97	192.48	40.5	39.7	40.1	4.46	4.76	4.80
Greenville—Spartanburg	180.81	192.44	196.32	41.0	40.6	40.9	4.41	4.74	4.80
SOUTH DAKOTA	179.69	226.31	223.44	36.3	42.3	42.0	4.95	5.35	5.32
Rapid City	151.32	175.76	225.14	39.1	33.8	42.4	3.87	5.20	5.31
Sioux Falls	232.37	297.18	297.98	38.6	46.8	47.6	6.02	6.35	6.26
TENNESSEE	196.25	211.00	213.03	40.8	40.5	40.5	4.81	5.21	5.26
Chattanooga	206.23	216.60	220.54	41.0	41.1	41.3	5.03	5.27	5.34
Knoxville	233.45	253.37	251.53	41.1	41.4	41.1	5.68	6.12	6.12
Memphis	224.68	238.00	249.28	41.0	40.0	41.0	5.48	5.95	6.08
Nashville—Davidson	212.74	228.48	231.20	40.6	40.8	40.0	5.24	5.60	5.78
TEXAS	231.85	247.64	252.32	41.7	41.0	41.5	5.56	6.04	6.08
Amarillo	256.85	239.78	228.73	45.3	41.2	38.9	5.67	5.82	5.88
Austin	179.96	191.78	197.03	40.9	41.6	42.1	4.40	4.61	4.68
Beaumont—Port Arthur—Orange	319.80	355.47	361.09	41.0	41.0	41.6	7.80	8.67	8.68
Corpus Christi	265.65	283.71	292.58	42.1	41.6	41.5	6.31	6.82	7.05
Dallas—Fort Worth	217.46	228.02	233.70	41.5	40.5	41.0	5.24	5.63	5.70
El Paso	159.19	175.31	181.83	39.5	40.3	41.8	4.03	4.35	4.35
Galveston—Texas City	348.89	410.77	411.04	42.6	42.7	41.9	8.19	9.62	9.81
Houston	287.00	321.47	325.70	42.9	43.5	44.8	6.69	7.39	7.27
Lubbock	165.23	183.15	183.56	41.0	40.7	40.7	4.03	4.50	4.51
San Antonio	170.52	181.31	181.82	40.6	39.5	39.1	4.20	4.59	4.65
Waco	191.16	206.06	208.28	40.5	39.4	39.9	4.72	5.23	5.22
Wichita Falls	204.67	215.74	222.63	42.2	40.1	41.0	4.85	5.38	5.43
UTAH	212.50	229.70	239.95	40.1	38.8	40.6	5.30	5.92	5.91
Salt Lake City—Ogden	199.24	221.48	230.87	40.0	39.2	41.3	4.98	5.65	5.59
VERMONT	193.18	214.35	212.98	40.5	41.3	40.8	4.77	5.19	5.22
Burlington	217.76	245.38	238.29	41.4	43.2	42.4	5.26	5.68	5.62
Springfield	219.60	243.67	244.32	41.2	41.3	41.2	5.33	5.90	5.93
VIRGINIA	196.34	211.41	214.37	40.4	40.5	40.6	4.86	5.22	5.28
Bristol	174.98	182.02	178.12	39.5	38.0	37.5	4.43	4.79	4.75
Lynchburg	202.37	220.72	226.97	40.8	40.5	41.8	4.96	5.45	5.43
Norfolk—Virginia Beach—Portsmouth	212.26	237.38	235.39	40.2	41.5	40.1	5.28	5.72	5.87
Northern Virginia ⁹	213.46	247.57	242.98	39.9	41.4	40.7	5.35	5.98	5.97
Petersburg-Colonial Heights-Hopewell	237.58	247.68	255.56	40.2	38.7	39.5	5.91	6.40	6.47

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
VIRGINIA—Continued									
Richmond	\$235.89	\$254.97	\$256.66	40.6	40.6	41.0	\$5.81	\$6.28	\$6.26
Roanoke	168.73	192.23	193.04	38.7	40.3	40.3	4.36	4.77	4.79
WASHINGTON	269.18	(*)	(*)	38.4	(*)	(*)	7.01	(*)	(*)
Seattle—Everett	270.59	(*)	(*)	38.6	(*)	(*)	7.01	(*)	(*)
Spokane	241.70	(*)	(*)	39.3	(*)	(*)	6.15	(*)	(*)
Tacoma	280.08	(*)	(*)	38.9	(*)	(*)	7.20	(*)	(*)
WEST VIRGINIA	248.69	272.23	281.99	39.6	39.8	40.4	6.28	6.84	6.98
Charleston	290.60	313.12	317.86	42.3	42.2	42.1	6.87	7.42	7.55
Huntington—Ashland	269.30	302.40	303.20	39.2	40.0	40.0	6.87	7.56	7.58
Parkersburg—Marietta	272.39	285.01	300.96	40.9	40.6	41.8	6.66	7.02	7.20
Wheeling	271.51	288.15	299.80	41.2	40.3	40.9	6.59	7.15	7.33
WISCONSIN	264.11	285.26	285.77	41.3	41.3	41.2	6.40	6.91	6.94
Appleton—Oshkosh	261.90	273.97	276.23	42.9	41.8	41.8	6.10	6.56	6.61
Eau Claire	257.67	276.12	264.29	40.9	40.2	39.4	6.30	6.87	6.71
Green Bay	264.07	293.25	295.07	42.5	42.6	42.8	6.21	6.89	6.90
Kenosha	288.63	333.05	325.59	38.9	40.5	40.2	7.43	8.23	8.10
La Crosse	224.39	219.44	227.01	41.0	39.5	40.3	5.47	5.56	5.63
Madison	273.59	276.06	274.89	39.7	39.6	39.4	6.90	6.98	6.97
Milwaukee	289.27	310.49	314.13	41.4	41.2	41.4	6.99	7.53	7.59
Racine	285.39	299.02	298.94	41.6	41.1	40.8	6.87	7.27	7.33
WYOMING	227.70	242.26	234.60	39.6	38.7	37.9	5.75	6.26	6.19
Casper	277.31	292.30	271.22	39.9	39.5	38.2	6.95	7.40	7.10
Cheyenne	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

² Subarea of New York—Northeastern New Jersey.

³ Subarea of Rochester Standard Metropolitan Statistical Area.

⁴ Area included in New York and Nassau—Suffolk combined SMSA's.

⁵ Subarea of New York Standard Metropolitan Statistical Area.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁷ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

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

⁹ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing, 1969 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	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	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.2	4.6	3.9	3.1	2.3
1978	-	3.8	3.2	3.7	4.0	4.7	4.8	4.3	5.3	4.8	4.3	P3.3	
1979													
New hires													
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	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	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	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	2.9	2.2	1.6
1978	-	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.1	3.9	3.5	P2.5	
1979													
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	-	1.0	.7	.8	.8	.8	.7	.8	.9	.8	.5	P.5	
1979													
Total separations													
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	4.3	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	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.5	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.2	5.1	4.8	3.8	3.4	3.3
1978	-	3.6	3.1	3.5	3.6	3.6	2.8	4.1	5.2	4.8	4.0	P3.6	
1979													
Quits													
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	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	-	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.4	3.0	2.3	P1.7	
1979													
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	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	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.4	1.0	1.1	1.1	1.1	1.4
1978	-	1.2	.9	.9	.7	.7	.7	1.0	.7	.8	.9	P1.0	
1979													

P=preliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P
-	MANUFACTURING	4.3	3.3	3.5	2.5	0.5	0.5	4.0	3.6	2.3	1.7	0.9	1.0
24, 25, 32-39	DURABLE GOODS	4.0	3.1	3.3	2.4	.4	.4	3.6	3.1	1.9	1.5	.6	.8
20-23, 26-31	NONDURABLE GOODS	4.7	3.6	3.8	2.7	.7	.7	4.8	4.3	2.7	2.1	1.2	1.5
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.7	4.5	5.1	3.9	.4	.4	6.4	5.1	4.0	3.0	1.1	1.1
242	Sawmills and planing mills	4.6	-	4.0	-	.4	-	4.6	-	3.0	-	.5	-
2421	Sawmills and planing mills, general	3.8	-	3.3	-	.4	-	4.0	-	2.5	-	.5	-
243	Millwork, plywood, and structural members	5.8	-	5.1	-	.5	-	6.6	-	3.9	-	1.5	-
2431	Millwork	4.7	-	4.2	-	.4	-	7.0	-	3.4	-	2.5	-
244	Wooden containers	9.2	-	8.5	-	.4	-	9.6	-	7.4	-	1.1	-
245	Wood buildings and mobile homes	9.8	-	9.1	-	.6	-	10.9	-	7.4	-	1.3	-
2451	Mobile homes	11.8	-	11.2	-	.4	-	12.3	-	8.3	-	1.3	-
249	Miscellaneous wood products	5.7	-	5.1	-	.4	-	5.6	-	3.8	-	.8	-
25	FURNITURE AND FIXTURES	6.7	5.0	6.1	4.3	.4	.4	6.0	5.0	4.1	3.1	.5	.7
251	Household furniture	7.2	-	6.5	-	.4	-	6.3	-	4.5	-	.4	-
2511	Wood household furniture	7.6	-	7.0	-	.2	-	6.8	-	5.2	-	.2	-
2512	Upholstered household furniture	6.5	-	5.9	-	.3	-	5.2	-	4.0	-	.2	-
2515	Mattresses and bedsprings	6.3	-	5.6	-	.6	-	6.3	-	3.7	-	.8	-
252	Office furniture	4.9	-	4.6	-	.1	-	3.3	-	2.2	-	.2	-
254	Partitions and fixtures	6.9	-	6.4	-	.4	-	7.9	-	4.0	-	1.8	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.8	2.8	3.2	2.3	.5	.3	3.9	3.5	2.1	1.7	.8	1.0
322	Glass and glassware, pressed or blown	2.6	-	1.6	-	.7	-	3.2	-	1.1	-	1.0	-
3221	Glass containers	2.7	-	1.8	-	.6	-	3.4	-	1.2	-	1.3	-
3229	Pressed and blown glass, nec	2.5	-	1.4	-	.8	-	2.9	-	1.1	-	.6	-
323	Products of purchased glass	5.6	-	4.5	-	1.0	-	4.0	-	2.5	-	.6	-
324	Cement, hydraulic	1.3	-	1.2	-	.1	-	1.2	-	.6	-	.1	-
325	Structural clay products	6.6	-	6.1	-	.5	-	6.0	-	4.3	-	.6	-
326	Pottery and related products	4.0	-	3.3	-	.3	-	4.2	-	2.6	-	.5	-
327	Concrete, gypsum, and plaster products	4.5	-	4.0	-	.4	-	4.7	-	2.7	-	1.0	-
329	Misc. nonmetallic mineral products	3.2	-	2.8	-	.3	-	3.1	-	1.6	-	.6	-
33	PRIMARY METAL INDUSTRIES	2.7	2.3	1.9	1.5	.6	.6	2.6	2.2	1.0	.8	.7	.6
331	Blast furnace and basic steel products	2.0	-	.8	-	.8	-	2.2	-	.5	-	.9	-
3312	Blast furnaces and steel mills	1.7	-	.6	-	.8	-	2.1	-	.3	-	.9	-
332	Iron and steel foundries	4.0	-	3.4	-	.4	-	3.7	-	1.9	-	.6	-
3321	Gray iron foundries	3.8	-	3.2	-	.3	-	3.5	-	1.9	-	.5	-
3325	Steel foundries, nec	4.4	-	3.5	-	.7	-	3.7	-	1.8	-	.6	-
333	Primary nonferrous metals	1.4	-	1.1	-	.1	-	1.4	-	.5	-	.3	-
335	Nonferrous rolling and drawing	2.1	-	1.7	-	.2	-	1.7	-	.8	-	.2	-
3351	Copper rolling and drawing	2.0	-	1.8	-	.2	-	1.8	-	.8	-	.3	-
3353	Aluminum sheet, plate, and foil	1.5	-	.9	-	.4	-	1.1	-	.2	-	.5	-
3357	Nonferrous wire drawing and insulating	2.2	-	1.6	-	.3	-	1.4	-	.8	-	.1	-
336	Nonferrous foundries	5.6	-	4.5	-	.7	-	4.4	-	2.3	-	.8	-
3361	Aluminum foundries	5.5	-	4.5	-	.7	-	3.4	-	2.0	-	.3	-
34	FABRICATED METAL PRODUCTS	4.5	3.4	3.9	2.8	.4	.4	4.2	3.7	2.3	1.8	.8	1.0
341	Metal cans and shipping containers	2.8	-	1.4	-	.7	-	6.7	-	.8	-	4.4	-
3411	Metal cans	2.7	-	1.1	-	.8	-	7.3	-	.6	-	5.1	-
342	Cutlery, hand tools, and hardware	4.1	-	3.7	-	.3	-	3.6	-	2.0	-	.7	-
3423, 5	Hand and edge tools, and hand saws and blades	3.6	-	3.1	-	.4	-	3.1	-	2.0	-	.4	-
3429	Hardware, nec	4.4	-	4.1	-	.2	-	3.8	-	2.1	-	.9	-
343	Plumbing and heating, except electric	4.7	-	3.9	-	.7	-	4.1	-	2.1	-	.9	-
344	Fabricated structural metal products	5.2	-	4.6	-	.5	-	4.7	-	2.8	-	.7	-
3441	Fabricated structural metal	6.0	-	5.1	-	.8	-	5.1	-	3.1	-	.7	-
3442	Metal doors, sash, and trim	7.1	-	6.6	-	.4	-	6.5	-	4.3	-	.7	-
3443	Fabricated plate work (boiler shops)	2.9	-	2.4	-	.4	-	2.5	-	1.5	-	.2	-
3444	Sheet metal work	6.0	-	5.4	-	.5	-	5.2	-	3.1	-	1.0	-
345	Screw machine products, bolts, etc.	4.5	-	4.2	-	.2	-	3.2	-	2.2	-	.1	-
3451	Screw machine products	5.3	-	5.1	-	.1	-	4.0	-	2.9	-	.1	-
3452	Bolts, nuts, rivets, and washers	3.8	-	3.4	-	.2	-	2.5	-	1.6	-	.2	-
346	Metal forgings and stampings	3.7	-	3.0	-	.4	-	3.6	-	1.7	-	.9	-
3462	Iron and steel forgings	3.1	-	2.8	-	.2	-	1.9	-	.9	-	.1	-
3465	Automotive stampings	2.9	-	1.8	-	.6	-	3.3	-	1.0	-	1.3	-
3469	Metal stampings, nec	4.8	-	4.4	-	.3	-	4.6	-	2.7	-	.8	-
347	Metal services, nec	7.7	-	7.0	-	.6	-	7.0	-	4.2	-	1.2	-
349	Ordnance and accessories, nec	2.6	-	1.9	-	.5	-	1.7	-	1.0	-	.2	-
3494	Misc. fabricated metal products	4.3	-	3.8	-	.3	-	3.5	-	2.3	-	.3	-
3494	Valves and pipe fittings	2.8	-	2.4	-	.3	-	2.2	-	1.4	-	.2	-
3496	Misc. fabricated wire products	6.3	-	5.9	-	.2	-	5.7	-	4.3	-	.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P
35	MACHINERY, EXCEPT ELECTRICAL	3.4	2.6	2.8	2.2	0.3	0.2	2.5	2.2	1.4	1.1	0.3	0.4
351	Engines and turbines	2.1	-	1.3	-	.3	-	1.6	-	.6	-	.1	-
3511	Turbines and turbine generator sets	1.2	-	.4	-	(1)	-	2.1	-	.4	-	.2	-
3519	Internal combustion engines, nec	2.5	-	1.7	-	.5	-	1.3	-	.7	-	.1	-
352	Farm and garden machinery	5.0	-	3.0	-	1.2	-	3.8	-	1.5	-	1.1	-
3523	Farm machinery and equipment	4.8	-	2.7	-	1.3	-	4.0	-	1.5	-	1.2	-
353	Construction and related machinery	3.0	-	2.8	-	.1	-	2.3	-	1.3	-	.3	-
3531	Construction machinery	2.5	-	2.3	-	.1	-	1.8	-	.9	-	.4	-
3533	Oil field machinery	4.3	-	4.0	-	.1	-	2.9	-	1.9	-	(1)	-
354	Metalworking machinery	3.3	-	2.7	-	.4	-	2.4	-	1.4	-	.2	-
3541	Machine tools, metal cutting types	2.7	-	2.5	-	.2	-	1.3	-	.7	-	.1	-
3544	Special dies, tools, jigs, and fixtures	3.9	-	2.8	-	.7	-	3.1	-	1.8	-	.3	-
3545	Machine tool accessories	3.3	-	3.1	-	.1	-	2.3	-	1.5	-	.1	-
355	Special industry machinery	2.8	-	2.4	-	.2	-	2.0	-	1.2	-	.2	-
3551	Food products machinery	2.5	-	2.2	-	.2	-	2.3	-	1.4	-	.1	-
3552	Textile machinery	3.8	-	3.0	-	.6	-	2.7	-	1.6	-	.1	-
356	General industrial machinery	2.8	-	2.3	-	.2	-	2.3	-	1.2	-	.4	-
3561	Pumps and pumping equipment	2.4	-	2.2	-	.1	-	2.0	-	1.1	-	.3	-
3562	Ball and roller bearings	3.1	-	2.3	-	.2	-	1.8	-	.8	-	.2	-
3564	Blowers and fans	2.8	-	2.5	-	.2	-	2.8	-	1.6	-	.5	-
357	Office and computing machines	3.5	-	3.0	-	.1	-	2.1	-	1.3	-	.1	-
3573	Electronic computing equipment	3.4	-	2.9	-	.1	-	1.8	-	1.2	-	(1)	-
358	Refrigeration and service machinery	3.2	-	2.6	-	.4	-	3.4	-	1.3	-	.6	-
3585	Refrigeration and heating equipment	3.3	-	2.5	-	.5	-	3.6	-	1.2	-	.7	-
359	Misc. machinery, except electrical	4.9	-	4.5	-	.2	-	3.6	-	2.4	-	.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.9	2.8	3.0	2.2	.3	.3	3.4	2.7	1.7	1.3	.6	.5
361	Electric distributing equipment	3.4	-	2.4	-	.3	-	3.5	-	1.6	-	.5	-
3612	Transformers	3.8	-	2.7	-	.2	-	3.6	-	1.9	-	.3	-
3613	Switchgear and switchboard apparatus	3.0	-	2.1	-	.3	-	3.5	-	1.4	-	.7	-
362	Electrical industrial apparatus	2.3	-	1.7	-	.3	-	2.0	-	1.0	-	.4	-
3621	Motors and generators	1.8	-	1.2	-	.2	-	1.6	-	.8	-	.3	-
3622	Industrial controls	2.6	-	1.6	-	.5	-	2.5	-	.9	-	.7	-
363	Household appliances	4.3	-	2.7	-	.7	-	6.0	-	2.0	-	2.3	-
3632	Household refrigerators and freezers	3.5	-	1.1	-	.7	-	6.4	-	1.1	-	2.5	-
3633	Household laundry equipment	1.6	-	.6	-	.3	-	6.6	-	.7	-	5.1	-
3634	Electric housewares and fans	6.6	-	5.2	-	.8	-	7.8	-	3.4	-	3.0	-
364	Electric lighting and wiring equipment	4.2	-	3.5	-	.3	-	3.7	-	2.1	-	.5	-
3641	Electric lamps	2.8	-	1.6	-	.4	-	2.1	-	.8	-	.1	-
3643	Current-carrying wiring devices	3.7	-	3.2	-	.2	-	3.5	-	2.1	-	.5	-
365	Radio and TV receiving equipment	6.3	-	4.3	-	.6	-	5.7	-	2.4	-	1.0	-
3651	Radio and TV receiving sets	6.7	-	4.1	-	.7	-	6.3	-	2.4	-	1.2	-
366	Communication equipment	2.7	-	2.3	-	.1	-	1.8	-	1.1	-	.2	-
3661	Telephone and telegraph apparatus	2.3	-	1.9	-	.2	-	1.7	-	.9	-	.1	-
3662	Radio and TV communication equipment	2.9	-	2.4	-	.1	-	1.8	-	1.1	-	.2	-
367	Electronic components and accessories	5.0	-	4.2	-	.4	-	3.9	-	2.5	-	.3	-
3671-3	Electronic tubes	3.0	-	2.0	-	.1	-	2.6	-	.9	-	.2	-
3674	Semiconductors and related devices	3.8	-	3.3	-	.4	-	2.4	-	1.5	-	.1	-
3679	Electronic components, nec	6.1	-	5.4	-	.5	-	5.2	-	3.5	-	.5	-
369	Misc. electrical equipment and supplies	4.1	-	3.4	-	.3	-	3.3	-	1.7	-	.5	-
3694	Engine electrical equipment	4.2	-	3.4	-	.3	-	3.7	-	1.8	-	.6	-
37	TRANSPORTATION EQUIPMENT	3.5	-	2.5	-	.6	-	2.8	-	1.3	-	.6	-
371	Motor vehicles and equipment	3.0	-	2.2	-	.4	-	2.7	-	1.1	-	.4	-
3711	Motor vehicles and car bodies	2.3	-	1.6	-	.2	-	2.5	-	.9	-	.5	-
3713	Truck and bus bodies	3.0	-	2.8	-	.2	-	4.0	-	2.1	-	.9	-
3714	Motor vehicle parts and accessories	3.4	-	2.4	-	.5	-	2.5	-	1.0	-	.3	-
3715	Truck trailers	7.0	-	6.5	-	.3	-	7.4	-	3.6	-	1.1	-
372	Aircraft and parts	3.0	-	2.4	-	.3	-	1.3	-	.8	-	.1	-
3721	Aircraft	2.8	-	2.1	-	.3	-	1.2	-	.6	-	.1	-
3724	Aircraft engines and engine parts	2.4	-	2.0	-	.1	-	1.0	-	.5	-	(1)	-
3728	Aircraft equipment, nec	4.2	-	3.8	-	.2	-	2.3	-	1.6	-	.1	-
373	Ship and boat building and repairing	6.9	-	4.3	-	2.5	-	6.0	-	2.7	-	2.2	-
3731	Ship building and repairing	6.9	-	3.8	-	3.0	-	6.3	-	2.3	-	2.7	-
3732	Boat building and repairing	6.7	-	6.1	-	.5	-	5.2	-	3.9	-	.4	-
374	Railroad equipment	4.3	-	2.0	-	1.5	-	2.6	-	.8	-	.4	-
376	Guided missiles, space vehicles, parts	2.6	-	1.2	-	.9	-	1.2	-	.5	-	.2	-
3761	Guided missiles and space vehicles	2.8	-	1.1	-	1.1	-	1.1	-	.4	-	.2	-
379	Miscellaneous transportation equipment	6.0	-	5.1	-	.6	-	6.7	-	3.7	-	1.8	-
38	INSTRUMENTS AND RELATED PRODUCTS	3.1	3.0	2.7	2.5	.1	.2	2.8	2.3	1.8	1.4	.3	.3
381	Engineering and scientific instruments	2.8	-	2.6	-	.1	-	1.9	-	1.3	-	.2	-
382	Measuring and controlling devices	3.1	-	2.6	-	.2	-	2.8	-	1.8	-	.1	-
3822	Environmental controls	3.3	-	2.5	-	.4	-	2.8	-	1.7	-	.1	-
3823	Process control instruments	3.3	-	2.7	-	.2	-	2.5	-	1.1	-	.1	-
3825	Instruments to measure electricity	2.9	-	2.5	-	.1	-	3.4	-	2.6	-	.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.0	—	2.8	—	(¹)	—	1.7	—	1.3	—	(¹)	—
384	Medical instruments and supplies	4.2	—	3.8	—	.2	—	3.0	—	1.9	—	.3	—
3841	Surgical and medical instruments	4.9	—	4.6	—	.1	—	3.7	—	2.5	—	.3	—
3842	Surgical appliances and supplies	4.0	—	3.5	—	.3	—	2.6	—	1.6	—	.3	—
385	Ophthalmic goods	3.6	—	3.4	—	.2	—	5.3	—	2.7	—	1.8	—
386	Photographic equipment and supplies	1.5	—	1.3	—	(¹)	—	1.7	—	1.3	—	.1	—
387	Watches, clocks, and watchcases	3.8	—	3.1	—	.2	—	5.8	—	2.6	—	1.7	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.5	4.3	5.6	3.7	.7	0.5	6.4	6.5	3.8	2.7	1.2	2.5
391	Jewelry, silverware, and plated ware	6.6	—	5.6	—	.8	—	5.4	—	3.8	—	.9	—
393	Musical instruments	5.8	—	5.0	—	.4	—	4.3	—	3.0	—	.4	—
394	Toys and sporting goods	8.8	—	7.6	—	.9	—	10.0	—	5.8	—	1.5	—
3942,4	Dolls, games, toys, and children's vehicles	11.6	—	10.9	—	.4	—	13.8	—	8.4	—	1.5	—
3949	Sporting and athletic goods, nec	5.8	—	4.0	—	1.4	—	6.0	—	3.1	—	1.4	—
395	Pens, pencils, office and art supplies	4.2	—	3.8	—	.2	—	3.9	—	2.2	—	.4	—
396	Costume jewelry and notions	7.0	—	6.0	—	1.0	—	6.6	—	4.4	—	1.4	—
399	Miscellaneous manufactures	5.1	—	4.2	—	.6	—	4.8	—	2.5	—	1.3	—
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	6.6	4.8	4.9	3.4	1.5	1.2	7.5	6.5	3.6	2.8	3.0	3.0
201	Meat products	7.0	—	5.7	—	.8	—	6.9	—	4.6	—	1.3	—
2011	Meat packing plants	4.1	—	2.5	—	1.1	—	4.7	—	1.7	—	2.1	—
2013	Sausages and other prepared meats	3.6	—	3.0	—	.5	—	4.7	—	2.4	—	1.5	—
2016	Poultry dressing plants	13.0	—	11.5	—	.6	—	11.8	—	10.6	—	.1	—
202	Dairy products	3.4	—	2.9	—	.3	—	3.7	—	2.3	—	.7	—
203	Preserved fruits and vegetables	13.0	—	7.9	—	4.9	—	19.7	—	6.8	—	11.6	—
204	Grain mill products	4.4	—	3.7	—	.5	—	4.5	—	2.5	—	1.1	—
205	Bakery products	2.8	—	2.5	—	.2	—	3.7	—	2.1	—	.9	—
2051	Bread, cake, and related products	2.9	—	2.7	—	.2	—	3.4	—	2.3	—	.6	—
2052	Cookies and crackers	2.4	—	1.9	—	.3	—	5.0	—	1.5	—	2.6	—
206	Sugar and confectionery products	10.8	—	7.2	—	3.2	—	6.3	—	2.6	—	2.7	—
207	Fats and oils	5.3	—	4.1	—	1.1	—	3.3	—	2.0	—	.7	—
208	Beverages	4.7	—	3.4	—	1.1	—	5.5	—	2.6	—	2.0	—
2082	Malt beverages	3.1	—	1.1	—	2.0	—	4.6	—	.6	—	3.7	—
2086	Bottled and canned soft drinks	5.0	—	4.4	—	.3	—	5.7	—	3.8	—	.9	—
209	Misc. foods and kindred products	7.1	—	5.7	—	1.2	—	8.0	—	4.1	—	3.2	—
21	TOBACCO MANUFACTURES	3.3	—	2.3	—	.5	—	3.1	—	1.4	—	.8	—
211	Cigarettes	1.9	—	1.0	—	.2	—	1.0	—	.2	—	(¹)	—
22	TEXTILE MILL PRODUCTS	5.1	4.1	4.2	3.3	.5	.6	5.1	4.6	3.5	2.6	.7	1.0
221	Weaving mills, cotton	4.5	—	3.4	—	.3	—	4.3	—	3.1	—	.2	—
222	Weaving mills, synthetics	5.0	—	4.3	—	.3	—	4.8	—	3.5	—	.2	—
223	Weaving and finishing mills, wool	5.3	—	4.6	—	.4	—	5.2	—	3.3	—	1.0	—
224	Narrow fabric mills	5.1	—	4.5	—	.4	—	4.7	—	3.1	—	.7	—
225	Knitting mills	5.4	—	4.6	—	.6	—	5.8	—	3.8	—	1.2	—
2251	Women's hosiery, except socks	7.5	—	6.7	—	.7	—	5.5	—	4.4	—	.3	—
2252	Hosiery, nec	5.8	—	5.4	—	.3	—	5.1	—	4.1	—	.3	—
2253	Knit outerwear mills	4.8	—	4.2	—	.4	—	6.2	—	3.7	—	1.9	—
2254	Knit underwear mills	5.6	—	5.0	—	.5	—	5.4	—	4.3	—	.5	—
2257	Circular knit fabric mills	4.6	—	3.5	—	.9	—	5.1	—	3.1	—	1.0	—
226	Textile finishing, except wool	3.6	—	2.6	—	.7	—	4.5	—	2.2	—	1.4	—
227	Floor covering mills	4.9	—	4.3	—	.4	—	4.4	—	3.2	—	.2	—
228	Yarn and thread mills	6.8	—	5.8	—	.6	—	6.5	—	4.7	—	.6	—
229	Miscellaneous textile goods	4.1	—	3.3	—	.5	—	4.0	—	2.3	—	.6	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.8	4.4	4.4	3.1	1.1	1.0	5.7	5.5	3.6	2.6	1.2	2.0
231	Men's and boys' suits and coats	3.5	—	2.5	—	.8	—	3.9	—	1.9	—	1.5	—
232	Men's and boys' furnishings	5.6	—	4.4	—	.9	—	5.8	—	4.2	—	1.0	—
2321	Men's and boys' shirts and nightwear	5.3	—	4.3	—	.7	—	5.3	—	4.0	—	.6	—
2327	Men's and boys' separate trousers	5.4	—	4.3	—	1.0	—	5.1	—	3.9	—	.8	—
2328	Men's and boys' work clothing	6.9	—	5.7	—	1.1	—	6.8	—	5.2	—	.9	—
233	Women's and misses' outerwear	5.8	—	4.0	—	1.5	—	5.6	—	3.1	—	1.5	—
234	Women's and children's undergarments	5.9	—	5.2	—	.5	—	5.4	—	4.0	—	.5	—
2341	Women's and children's underwear	6.3	—	5.4	—	.6	—	5.6	—	4.3	—	.4	—
2342	Brassieres and allied garments	4.6	—	4.2	—	.2	—	4.7	—	2.6	—	.8	—
236	Children's outerwear	5.5	—	4.3	—	1.0	—	5.6	—	3.6	—	1.1	—
238	Misc. apparel and accessories	6.0	—	4.8	—	.9	—	5.7	—	3.8	—	1.2	—
239	Misc. fabricated textile products	6.9	—	5.7	—	1.1	—	6.7	—	3.9	—	1.4	—
26	PAPER AND ALLIED PRODUCTS	2.9	2.2	2.4	1.7	.3	.3	2.8	2.4	1.4	1.2	.5	.6
261,2,6	Paper and pulp mills	1.2	—	1.0	—	.1	—	1.3	—	.5	—	.3	—
262	Paper mills, except building paper	1.1	—	.9	—	.1	—	1.1	—	.5	—	.3	—

See footnotes at end of table.

ESTABLISHMENT DATA
LABOR TURNOVER

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P	Oct. 1978	Nov. 1978 ^P
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	2.0	-	1.5	-	0.1	-	1.7	-	1.0	-	0.2	-
264	Misc. converted paper products	3.6	-	2.9	-	.5	-	3.7	-	1.9	-	.8	-
265	Paperboard containers and boxes	3.8	-	3.3	-	.3	-	3.6	-	1.9	-	.6	-
2651	Folding paperboard boxes	3.1	-	2.8	-	.3	-	2.9	-	1.3	-	.6	-
2653	Corrugated and solid fiber boxes	3.7	-	3.3	-	.2	-	3.2	-	1.9	-	.3	-
27	PRINTING AND PUBLISHING	3.9	3.3	3.4	2.8	.3	0.5	3.3	3.0	2.2	1.9	.5	0.5
271	Newspapers	3.9	-	3.6	-	.1	-	3.2	-	2.6	-	.2	-
272	Periodicals	3.7	-	3.3	-	.3	-	2.8	-	2.1	-	.2	-
273	Books	3.3	-	2.6	-	.6	-	2.7	-	1.6	-	.7	-
274	Miscellaneous publishing	4.9	-	3.5	-	.4	-	3.3	-	1.9	-	.7	-
275	Commercial printing	3.6	-	3.2	-	.3	-	3.3	-	1.8	-	.8	-
2751	Commercial printing, letterpress	3.8	-	3.4	-	.3	-	3.7	-	2.0	-	1.0	-
2752	Commercial printing, lithographic	3.7	-	3.2	-	.4	-	3.1	-	1.7	-	.7	-
278	Blankbooks and bookbinding	4.5	-	4.1	-	.3	-	4.5	-	2.9	-	.8	-
28	CHEMICALS AND ALLIED PRODUCTS	1.7	1.3	1.4	1.0	.2	.2	1.6	1.3	.7	.6	.4	.4
281	Industrial inorganic chemicals	1.3	-	1.0	-	.1	-	1.2	-	.6	-	.2	-
2819	Industrial inorganic chemicals, nec	1.2	-	.9	-	.1	-	1.0	-	.4	-	.2	-
282	Plastics materials and synthetics	1.1	-	.8	-	.2	-	1.0	-	.5	-	.2	-
2821	Plastics materials and resins	1.3	-	1.0	-	.1	-	1.3	-	.6	-	.2	-
2824	Organic fibers, noncellulosic .....	.7	-	.5	-	.1	-	.6	-	.3	-	.1	-
283	Drugs	1.9	-	1.7	-	.1	-	1.3	-	.8	-	.1	-
2834	Pharmaceutical preparations	2.1	-	1.9	-	.1	-	1.5	-	.9	-	.2	-
284	Soap, cleaners, and toilet goods	2.5	-	1.9	-	.5	-	3.2	-	1.0	-	1.6	-
2841	Soap and other detergents	2.5	-	1.5	-	.9	-	2.8	-	.6	-	1.7	-
2844	Toilet preparations	2.5	-	1.9	-	.5	-	4.1	-	1.1	-	2.1	-
285	Paints and allied products	2.2	-	1.9	-	.2	-	2.2	-	1.2	-	.4	-
286	Industrial organic chemicals	1.1	-	.8	-	.1	-	1.0	-	.4	-	.2	-
287	Agricultural chemicals	2.5	-	1.9	-	.5	-	2.1	-	1.1	-	.4	-
289	Miscellaneous chemical products	2.2	-	1.8	-	.3	-	2.0	-	1.0	-	.4	-
29	PETROLEUM AND COAL PRODUCTS	1.9	1.1	1.7	.9	.1	(¹)	1.6	2.1	.8	.6	.2	.9
291	Petroleum refining	1.5	-	1.2	-	(¹)	-	1.0	-	.4	-	.1	-
295	Paving and roofing materials	3.5	-	3.1	-	.2	-	3.7	-	2.1	-	.7	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	5.7	4.2	4.9	3.3	.5	.6	5.1	4.5	3.2	2.4	.7	1.0
301	Tires and inner tubes	2.2	-	1.3	-	.3	-	1.8	-	.6	-	.4	-
302	Rubber and plastics footwear	9.7	-	8.2	-	1.1	-	7.7	-	5.9	-	.6	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.1	-	4.4	-	.4	-	4.0	-	2.4	-	.6	-
306	Fabricated rubber products, nec	5.1	-	4.3	-	.4	-	4.1	-	2.4	-	.5	-
307	Miscellaneous plastics products	6.6	-	5.8	-	.6	-	6.1	-	3.9	-	.9	-
31	LEATHER AND LEATHER PRODUCTS	7.1	5.4	5.7	4.1	1.0	1.1	8.2	6.9	5.0	3.8	2.1	2.0
311	Leather tanning and finishing	5.3	-	3.5	-	1.6	-	7.2	-	2.9	-	3.4	-
314	Footwear, except rubber	7.4	-	6.0	-	1.0	-	8.8	-	5.6	-	2.0	-
3143	Men's footwear, except athletic	7.7	-	6.6	-	.7	-	8.3	-	6.1	-	1.1	-
3144	Women's footwear, except athletic	7.5	-	5.2	-	1.6	-	9.8	-	5.3	-	3.1	-
NONMANUFACTURING:													
-	MINING	4.5	4.2	3.7	3.0	.5	.6	4.1	4.0	2.8	2.4	.4	.7
10	METAL MINING	2.9	3.5	2.4	2.1	.2	1.0	3.0	2.3	1.5	1.2	.8	.6
101	Iron ores	1.4	-	.7	-	.2	-	3.1	-	.2	-	2.1	-
102	Copper ores	1.5	-	1.0	-	.1	-	1.3	-	.6	-	.2	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.8	1.5	1.1	1.0	.3	.3	1.4	1.7	.8	.6	.1	.6
13	OIL AND GAS EXTRACTION	6.9	6.4	5.8	4.7	.7	.9	6.3	5.6	4.6	4.0	.4	.4
131, 2	Crude petroleum, natural gas, and natural gas liquids	1.9	-	1.3	-	.3	-	1.5	-	.9	-	.2	-
138	Oil and gas field services	10.6	-	9.1	-	1.0	-	9.7	-	7.3	-	.5	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	3.1	2.4	2.8	2.0	.3	.3	3.1	4.3	1.8	1.6	.6	1.9
142	Crushed and broken stone	2.8	-	2.5	-	.2	-	2.9	-	1.8	-	.6	-
144	Sand and gravel	3.8	-	3.2	-	.6	-	4.3	-	2.3	-	1.0	-
-	COMMUNICATION:												
481	Telephone communication	1.4	-	1.1	-	0	-	.8	-	.4	-	.1	-

¹ Less than 0.05.

^Ppreliminary.
* = not available.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total occasions												
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	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974	4.7	4.6	4.5	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.8	3.6	3.8	4.0	4.0	3.8	3.9	3.9	3.9
1976	4.2	4.2	4.2	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	4.0
1977	4.0	4.4	4.1	3.9	3.9	3.9	3.9	3.7	3.9	4.0	4.1	4.4
1978	4.2	4.0	3.9	4.2	4.0	3.9	3.8	3.8	4.1	4.4	p 4.5	
1979												
New hires												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	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	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974	3.8	3.7	3.6	3.5	3.5	3.3	3.2	3.1	3.0	2.7	2.3	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.3	2.4	2.5	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.5	2.5	2.6
1977	2.7	2.8	2.9	2.8	3.0	2.8	2.7	2.7	2.7	2.8	2.9	3.3
1978	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8	3.1	3.4	p 3.4	
1979												
Total separations												
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	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974	5.1	5.0	4.9	4.7	4.5	4.5	4.6	4.7	4.5	4.8	5.1	4.9
1975	5.2	5.0	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976	3.6	3.6	3.9	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.7	3.7
1977	4.0	4.1	3.7	3.7	3.8	3.8	3.9	3.9	3.8	3.7	3.9	3.9
1978	3.8	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.7	3.9	p 4.0	
1979												
Quits												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	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	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.3	2.3	2.0	1.8	1.7
1975	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976	1.6	1.7	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7
1977	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0
1978	2.0	2.0	2.0	2.2	2.1	2.1	2.0	1.9	2.0	2.3	p 2.2	
1979												
Layoffs												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	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	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.4	1.3	1.8	2.4	2.5
1975	2.9	2.9	2.7	2.6	2.5	2.2	1.7	1.7	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.3	1.2
1977	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1.3	1.1	1.1	1.0	1.0
1978	.9	.9	1.0	.9	1.0	1.0	.9	.9	.8	.9	p .8	
1979												

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		Recalls		Total		Quits		Layoffs	
	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P
ALABAMA:												
Birmingham	3.0	2.8	2.2	1.9	0.5	0.5	3.4	2.7	1.7	1.2	0.6	0.6
Mobile ¹	5.4	8.8	2.2	1.3	3.0	7.3	7.2	6.3	2.4	1.5	3.6	4.0
ALASKA	13.9	12.4	12.3	11.7	1.4	.5	32.8	27.1	11.5	8.0	20.7	16.2
ARIZONA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Phoenix	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
ARKANSAS	7.2	6.6	6.2	5.4	.6	1.1	7.7	7.1	5.5	4.6	1.0	1.3
Fort Smith	8.1	7.1	6.9	6.0	.4	.1	8.4	9.8	6.0	5.3	1.0	3.0
Little Rock—North Little Rock	5.8	4.9	4.9	3.8	.5	.9	7.9	6.4	3.6	3.2	2.7	2.3
Pine Bluff	4.5	4.4	3.4	3.5	.8	.6	4.6	3.8	3.2	2.6	.9	.6
COLORADO²	6.3	10.6	5.8	6.7	.4	3.8	5.9	4.6	5.2	2.8	.6	1.0
Denver—Boulder ²	6.4	5.4	6.0	5.0	.2	.3	6.0	4.0	4.6	2.9	.3	.2
CONNECTICUT	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Hartford	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
DELAWARE	2.8	2.4	1.5	1.6	.4	.2	2.5	2.0	1.2	.9	.7	.5
Wilmington	2.4	1.8	1.2	1.0	.4	.1	2.5	1.7	1.1	.7	.9	.6
FLORIDA	6.8	6.7	5.5	5.5	1.1	1.1	5.8	5.1	4.0	3.4	.7	.6
Fort Lauderdale—Hollywood	7.1	5.9	6.5	5.6	.5	.2	6.5	5.3	5.0	3.6	.4	.6
Jacksonville												
Miami	6.2	6.1	5.2	5.5	.8	.5	4.9	5.3	3.4	3.7	.5	.5
Orlando	4.6	6.2	4.0	5.9	.5	.3	4.5	4.7	3.2	2.6	.4	.6
Pensacola	1.5	1.7	1.5	1.3	(³)	.4	2.1	1.4	1.1	.8	.8	.2
Tampa—St. Petersburg	8.1	7.7	7.0	7.0	.9	.5	7.5	7.3	5.4	5.3	.9	.7
West Palm Beach—Boca Raton	4.7	5.2	4.4	4.4	.3	.8	4.1	2.5	3.0	1.8	.7	(³)
GEORGIA	4.8	4.5	4.1	3.8	.5	.4	5.0	4.1	3.6	2.9	.4	.3
Atlanta ⁴	4.5	3.7	3.8	3.1	.4	.4	4.2	3.2	2.6	1.9	.4	.4
HAWAII⁵	3.1	3.1	1.5	1.6	1.5	1.4	2.7	1.6	1.2	.8	.8	.2
IDAHO⁶	6.4	5.2	5.5	4.7	.5	.4	6.7	5.1	4.5	3.8	1.2	.5
ILLINOIS:												
Chicago SMSA	4.0	4.0	3.4	3.3	.2	.2	4.0	3.7	2.6	2.1	.2	.3
INDIANA	3.7	3.5	2.8	2.5	.5	.5	4.3	3.3	2.2	1.7	1.3	.8
Indianapolis ⁷	3.6	3.2	2.7	2.1	.2	.3	3.0	3.0	1.8	1.3	.3	.6
IOWA	4.4	3.7	3.5	3.0	.7	.4	4.0	3.2	2.7	2.0	.6	.5
Cedar Rapids	3.2	2.6	2.6	2.0	.4	.4	2.9	3.8	1.6	1.3	.6	1.8
Des Moines	5.7	5.5	4.1	3.7	.9	.1	5.0	3.9	3.3	2.6	.4	.2
KANSAS	6.7	5.4	6.1	4.7	.3	.5	5.9	4.2	4.2	3.0	.6	.3
Topeka	2.0	3.2	1.9	2.2	.1	1.0	4.4	1.9	2.0	1.2	1.9	.7
Wichita	7.8	6.3	6.9	5.5	.4	.5	5.4	4.0	4.1	2.5	.1	.1
KENTUCKY	3.8	3.8	2.7	2.6	.6	.6	4.0	3.3	2.0	1.7	.9	.7
Louisville	3.2	3.1	1.8	1.5	.2	.8	4.5	3.0	1.7	1.1	1.2	.4
LOUISIANA												
New Orleans	5.1	5.7	4.4	5.0	.5	.4	4.6	5.0	3.1	2.9	.4	1.0
MAINE	6.7	6.3	5.6	5.0	.8	1.0	8.4	5.5	5.6	3.5	1.7	1.1
Portland	5.4	5.0	4.8	4.6	.4	.2	7.9	5.7	6.1	3.2	.8	1.7
MARYLAND	3.9	2.9	2.3	2.0	1.4	.6	3.3	2.6	1.7	1.3	.9	.7
Baltimore	4.0	2.5	1.9	1.8	1.9	.6	2.9	2.3	1.3	1.1	.9	.6
MASSACHUSETTS	4.7	(*)	4.0	(*)	.5	(*)	4.5	(*)	3.0	(*)	.6	(*)
Boston	4.1	(*)	3.4	(*)	.4	(*)	4.0	(*)	2.5	(*)	.5	(*)
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Flint	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Grand Rapids	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Lansing—East Lansing	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

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		Recalls		Total		Quits		Layoffs	
	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P	Sept. 1978	Oct. 1978 ^P
MINNESOTA	5.3	4.6	4.6	3.9	0.5	0.5	5.9	4.9	4.5	2.7	0.8	1.6
Minneapolis—St. Paul	4.3	3.7	3.8	3.3	.3	.2	4.1	3.6	3.2	2.2	.3	.6
MISSISSIPPI:												
Jackson	6.2	5.5	5.2	4.6	.7	.5	4.5	6.1	2.7	3.1	.3	1.5
MISSOURI	3.9	3.6	3.2	2.8	.4	.6	4.0	3.7	2.5	2.0	.7	.8
Kansas City	3.7	3.8	3.2	3.2	.3	.5	3.7	3.4	2.4	2.1	.4	.5
St. Louis	3.1	2.8	2.4	2.1	.4	.5	3.1	2.9	1.5	1.2	.7	.8
MONTANA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
NEBRASKA	5.9	5.0	5.4	4.5	.4	.2	5.3	4.9	4.2	3.3	.2	.8
NEVADA	9.0	9.4	8.5	9.0	.4	.2	8.9	7.4	6.6	5.7	.4	.4
NEW HAMPSHIRE	5.3	5.3	4.7	4.8	.4	.3	5.5	4.6	4.1	3.5	.5	.3
NEW JERSEY:												
Camden	3.4	3.8	2.7	3.0	.3	.6	4.1	3.2	2.0	1.3	.6	.9
Hackensack	5.1	4.6	4.3	3.8	.6	.6	4.9	5.0	3.0	2.5	.8	1.3
Jersey City	3.3	2.7	2.4	2.1	.7	.5	3.6	3.6	1.7	1.2	1.0	1.5
Newark	3.9	3.0	2.8	2.4	.8	.3	3.7	2.7	2.0	1.2	.6	.5
New Brunswick—Perth Amboy—Sayreville	4.6	3.9	4.1	3.5	.3	.2	5.0	4.0	2.9	1.9	.5	.6
Paterson—Clifton—Passaic	4.4	3.3	3.2	2.8	.8	.3	4.0	3.6	2.3	1.5	.6	1.0
Trenton	3.2	3.2	2.4	2.2	.6	.6	3.1	3.1	1.5	1.1	.7	1.0
NEW YORK	4.5	3.9	3.1	2.6	1.2	1.1	4.2	3.6	2.2	1.4	1.1	1.4
Albany—Schenectady—Troy	2.9	2.5	1.7	1.5	.6	.4	3.8	3.3	1.6	1.0	1.2	1.2
Binghamton	3.4	3.0	3.0	2.7	.2	.2	3.1	2.3	2.1	1.5	.2	.2
Buffalo	4.0	2.5	2.0	1.5	1.7	.7	3.1	3.1	1.5	.8	1.0	1.4
Elmira	4.0	2.5	1.8	1.6	2.0	.6	3.5	2.5	1.5	1.3	.5	.2
Monroe County	2.5	2.0	1.8	1.7	.6	.1	2.9	1.9	2.3	1.3	.1	.2
Nassau—Suffolk ¹⁰	6.1	6.2	4.8	4.8	1.1	1.3	5.9	4.5	4.1	2.8	.7	.6
New York and Nassau—Suffolk	5.3	5.0	3.6	3.2	1.5	1.8	4.9	4.3	2.2	1.6	1.6	2.0
New York SMSA ¹⁰	5.1	4.8	3.3	2.7	1.6	1.9	4.6	4.3	1.7	1.3	1.9	2.3
New York City ¹¹	5.4	5.0	3.4	2.8	1.8	2.1	4.8	4.6	1.7	1.3	2.1	2.6
Rochester	3.8	2.7	2.8	2.1	.8	.4	3.9	3.0	2.9	1.7	.4	.8
Syracuse	2.8	3.2	2.4	2.5	.3	.5	3.5	2.4	1.7	1.1	1.1	.6
Utica—Rome	2.9	2.8	2.3	2.0	.5	.7	3.0	2.5	1.6	1.1	.7	.9
Westchester County ¹¹	3.5	3.5	2.7	2.6	.6	.4	3.4	2.2	2.0	1.0	.6	.5
NORTH CAROLINA	5.8	5.3	5.0	4.6	.5	.4	5.2	4.6	4.0	3.5	.2	.2
Charlotte—Gastonia	5.9	6.2	5.3	5.4	.4	.6	6.0	5.3	5.0	4.3	.1	(³)
Greensboro—Winston-Salem—High Point	5.0	4.8	4.6	4.3	.1	.2	4.5	4.0	3.6	3.0	.1	.2
NORTH DAKOTA	11.1	8.7	7.4	6.0	3.5	1.9	7.2	6.4	6.0	4.0	.3	1.7
Fargo—Moorhead	8.7	6.2	5.5	5.5	2.9	.1	7.2	4.5	3.7	3.6	2.5	.1
OHIO	3.3	2.8	2.5	2.1	(*)	(*)	3.6	3.2	2.1	1.4	.6	.9
Akron	2.1	2.1	1.3	1.7	(*)	(*)	2.3	1.5	1.0	.8	.7	.2
Canton	3.4	2.7	2.2	1.7	(*)	(*)	3.8	2.5	2.3	1.1	.4	.7
Cincinnati	2.9	2.8	2.3	2.5	(*)	(*)	3.2	2.5	2.0	1.3	.5	.4
Cleveland	3.5	3.4	2.9	2.7	(*)	(*)	3.4	3.0	2.1	1.4	.2	.6
Columbus	3.0	2.6	2.5	2.1	(*)	(*)	3.6	3.0	2.0	1.7	.7	.6
Dayton	2.6	2.2	2.1	1.8	(*)	(*)	2.7	2.9	1.7	1.0	.2	.6
Toledo	3.4	3.0	1.8	2.0	(*)	(*)	3.5	2.4	1.2	.9	1.2	.3
Youngstown—Warren	2.5	2.8	.9	.9	(*)	(*)	3.2	2.7	1.1	.5	1.1	1.2
OKLAHOMA	7.4	6.9	6.7	6.3	.5	.5	6.8	6.1	5.2	4.5	.6	.6
Oklahoma City	7.2	7.0	6.5	6.4	.6	.5	6.7	6.0	5.3	4.5	.4	.5
Tulsa ¹²	7.5	7.0	7.0	6.5	.3	.3	7.4	5.9	4.9	4.1	1.3	.4
OREGON ¹	4.7	4.8	4.0	4.1	.5	.5	6.0	4.2	4.0	2.6	1.1	.8
Portland ¹	5.2	6.3	4.5	5.3	.5	.9	6.2	5.4	3.8	2.9	1.5	1.4
PENNSYLVANIA	3.2	3.0	2.3	2.1	.7	.6	3.4	2.7	1.9	1.2	.8	.8
Allentown—Bethlehem—Easton	2.9	1.7	1.9	1.2	.8	.3	3.1	1.9	1.7	1.0	.7	.5
Altoona	1.9	1.5	1.0	.9	.7	.3	2.7	2.5	1.2	1.0	1.1	1.0
Erie	3.5	3.4	2.8	2.0	.3	.7	3.4	2.8	2.0	1.3	.5	.6
Harrisburg	3.1	2.4	2.5	1.8	.3	.3	3.9	2.6	2.5	1.5	.8	.4
Johnstown	3.0	3.5	1.2	.8	1.8	2.6	4.0	3.0	1.2	.9	2.2	1.7
Lancaster	3.6	3.5	3.3	3.1	.1	.2	4.3	3.6	3.0	2.4	.5	.6

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		Recalls		Total		Quits		Layoffs	
	Sept. 1978	Oct. 1978 ^p	Sept. 1978	Oct. 1978 ^p	Sept. 1978	Oct. 1978 ^p	Sept. 1978	Oct. 1978 ^p	Sept. 1978	Oct. 1978 ^p	Sept. 1978	Oct. 1978 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	3.9	3.5	2.5	2.3	1.1	1.0	4.1	3.7	1.9	1.5	1.5	1.7
Philadelphia SMSA	3.2	2.9	2.4	2.2	.6	.6	3.5	2.7	1.8	1.2	.9	.8
Pittsburgh	2.2	2.0	1.2	1.1	.7	.5	2.4	2.4	1.1	.6	.7	1.1
Reading	4.5	4.0	3.3	3.2	1.0	.7	3.4	2.9	2.2	1.8	.4	.4
Scranton	4.0	4.1	2.6	2.7	1.3	1.3	4.5	3.1	1.7	1.3	2.0	1.4
Wilkes-Barre—Hazleton ¹³	3.4	2.5	2.0	1.6	1.0	.6	3.6	3.8	1.8	1.4	.9	2.0
Williamsport	2.5	3.4	1.9	2.2	.5	1.1	3.8	3.5	1.8	1.3	1.5	1.7
York	6.3	5.7	4.7	4.3	1.5	1.2	4.3	4.1	3.2	2.6	.5	.8
RHODE ISLAND												
Providence—Warwick—Pawtucket	7.8	6.0	6.9	5.1	.5	.6	7.3	5.5	5.3	3.8	.7	1.0
.....	7.5	6.3	6.6	5.5	.5	.6	6.5	5.7	4.7	4.1	.7	.9
SOUTH CAROLINA												
Charleston—North Charleston	4.6	4.5	3.9	3.8	.4	.3	4.4	3.9	3.2	2.7	.2	.3
Columbia	6.5	5.8	5.0	5.0	1.4	.7	4.6	5.4	3.0	2.9	.2	.7
Greenville—Spartanburg	4.5	4.5	4.1	4.1	.2	.3	4.6	3.7	3.4	2.6	.2	.3
.....	5.1	4.8	4.6	4.3	.3	.2	4.9	4.5	3.6	3.0	.2	.3
SOUTH DAKOTA												
Sioux Falls	6.7	5.2	6.4	4.9	.2	.1	5.8	4.3	4.6	3.3	.2	.1
.....	5.6	4.4	5.4	4.2	.2	.2	5.1	3.7	3.9	2.7	.2	.1
TENNESSEE:												
Memphis	3.7	3.2	3.3	2.7	.2	.3	3.9	3.6	2.5	1.8	.6	.8
TEXAS:												
Dallas—Fort Worth	7.3	6.1	5.9	5.6	1.3	.3	6.0	5.3	4.6	4.0	.3	.3
Houston	5.4	4.9	5.2	4.7	.2	.2	5.0	4.6	3.8	3.2	.1	.2
San Antonio	4.9	5.1	4.5	4.7	.4	.2	5.2	4.6	3.9	3.3	.2	.4
UTAH⁴												
Salt Lake City—Ogden ⁴	6.9	7.2	6.2	6.9	.5	.1	7.6	6.0	5.8	4.2	.6	.7
.....	6.1	9.2	5.8	9.1	.3	.1	7.1	6.1	5.4	4.3	.7	.8
VERMONT												
Burlington	4.3	4.0	3.8	3.5	.3	.3	4.5	3.2	2.9	1.8	.9	.8
Springfield	2.5	3.2	2.2	2.9	.1	.1	3.4	1.9	1.4	.8	1.4	.9
.....	2.8	4.1	4	3.6	.4	.5	3.5	2.7	1.8	.8	1.1	1.4
VIRGINIA												
Richmond	4.4	3.9	3.5	3.1	.5	.5	4.3	3.6	2.9	2.2	.4	.5
.....	2.9	2.7	2.3	2.2	.2	(³)	2.4	2.3	1.4	1.0	.1	.4
WASHINGTON:												
Seattle—Everett ¹⁴	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
WISCONSIN												
Milwaukee	3.9	3.1	3.1	2.5	.4	.3	4.6	3.4	2.5	1.4	1.2	1.1
.....	3.4	3.4	2.6	2.7	.3	.3	3.4	2.7	1.8	1.2	.5	.4
WYOMING												
.....	8.5	12.0	7.3	7.3	1.2	4.3	10.0	5.6	6.7	3.7	.9	1.2

¹ Excludes canning and preserving.

² Based on the 1967 Standard Industrial Classification Manual.

³ Less than 0.05.

⁴ Excludes agricultural chemicals, and miscellaneous manufacturing.

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

⁶ Excludes canning and preserving, and sugar.

⁷ Excludes canning and preserving, and newspapers.

⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁹ Subarea of Rochester Standard Metropolitan Statistical Area.

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

¹¹ Subarea of New York Standard Metropolitan Statistical Area.

¹² Excludes new-hire rate for transportation equipment.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹⁴ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
ALABAMA	1,536.1	1,598.7	1,596.3	107.9	91.3	93.9	7.0	5.7	5.9
Birmingham	359.3	375.7	377.0	24.1	19.5	19.7	6.7	5.2	5.2
Huntsville	126.2	132.7	132.2	8.3	7.6	7.9	6.6	5.7	6.0
Mobile	174.7	179.3	178.9	13.6	11.5	11.3	7.8	6.4	6.3
Montgomery	108.6	114.2	114.5	6.2	6.2	6.3	5.7	5.5	5.5
Tuscaloosa	53.0	52.3	52.5	4.0	2.8	3.3	7.6	5.4	6.3
ALASKA	169.0	185.5	182.7	16.0	18.9	21.1	9.4	10.2	11.5
ARIZONA	993.6	1,030.2	1,045.5	71.6	53.7	59.1	7.2	5.2	5.7
Phoenix	587.0	616.9	627.6	36.1	28.0	29.8	6.2	4.5	4.8
Tucson	184.6	191.2	192.5	13.5	9.1	9.8	7.3	4.7	5.1
ARKANSAS	928.6	938.0	931.0	56.9	63.2	74.5	6.1	6.7	8.0
Fayetteville-Springdale	69.7	70.5	71.3	3.1	3.5	4.4	4.5	5.0	6.2
Fort Smith ¹	80.5	83.1	84.4	5.3	6.9	8.9	6.6	8.3	10.5
Little Rock-North Little Rock	177.7	176.7	177.4	7.2	9.4	10.7	4.1	5.3	6.0
Pine Bluff	35.8	36.7	36.2	1.9	3.1	3.1	5.3	8.4	8.5
CALIFORNIA ²	10,331.0	10,639.2	10,618.9	820.6	632.6	642.1	7.9	5.9	6.0
Anaheim-Santa Ana-Garden Grove	951.0	997.7	999.7	54.7	42.8	37.3	5.8	4.3	3.7
Bakersfield	169.5	167.6	168.9	17.0	13.6	13.2	10.0	8.1	7.8
Fresno	243.1	255.6	247.2	25.6	19.3	19.2	10.5	7.6	7.8
Los Angeles-Long Beach ³	3,409.0	3,532.0	3,521.0	251.0	192.0	224.0	7.4	5.4	6.3
Modesto	125.7	129.1	128.3	16.3	10.2	12.4	13.0	7.9	9.6
Oxnard-Simi Valley-Ventura	197.8	204.5	202.2	18.0	16.1	13.2	9.1	7.9	6.5
Riverside-San Bernardino-Ontario	521.8	536.3	543.3	42.8	34.5	30.7	8.2	6.4	5.6
Sacramento	432.7	441.8	445.7	36.7	28.4	28.1	8.5	6.4	6.3
Salinas-Seaside-Monterey	122.8	126.6	124.5	10.3	7.0	8.7	8.4	5.5	7.0
San Diego	666.1	677.1	682.5	54.7	43.8	37.5	8.2	6.5	5.5
San Francisco-Oakland	1,539.4	1,537.5	1,553.0	108.1	86.2	79.8	7.0	5.6	5.1
San Jose	627.2	658.7	664.5	41.3	32.6	31.1	6.6	4.9	4.7
Santa Barbara-Santa Maria-Lompoc	131.9	131.8	134.5	9.0	7.5	7.2	6.8	5.7	5.4
Santa Rosa	113.5	117.1	115.8	9.6	7.0	6.7	8.5	6.0	5.8
Stockton	153.9	167.9	153.5	18.8	13.2	14.0	12.2	7.9	9.1
Vallejo-Fairfield-Napa	117.5	121.4	120.4	9.5	6.5	6.8	8.1	5.3	5.6
COLORADO	1,251.5	1,327.1	1,324.2	71.7	62.8	65.3	5.7	4.7	4.9
Denver-Boulder	737.2	771.7	775.7	39.6	34.0	34.8	5.4	4.4	4.5
CONNECTICUT	1,497.9	1,514.5	1,532.4	81.4	66.7	69.3	5.4	4.4	4.5
Bridgeport	184.2	185.3	188.0	10.8	9.1	9.6	5.9	4.9	5.1
Hartford	355.7	362.4	367.0	17.0	14.8	15.4	4.8	4.1	4.2
New Britain	71.1	69.9	71.6	3.9	2.9	3.1	5.5	4.1	4.4
New Haven-West Haven	197.2	195.7	197.9	12.5	8.5	8.2	6.3	4.4	4.1
Stamford	111.2	118.2	119.1	4.4	4.6	4.7	4.0	3.9	4.0
Waterbury	105.8	106.1	107.4	6.7	5.1	5.3	6.3	4.8	5.0
DELAWARE	272.6	278.0	277.4	19.8	18.3	18.7	7.3	6.6	6.8
Wilmington ¹	240.9	243.0	243.2	17.5	14.9	15.1	7.3	6.1	6.2
DISTRICT OF COLUMBIA	327.4	331.3	336.3	28.8	27.3	26.8	8.8	8.2	8.0
Washington SMSA ¹	1,550.3	1,568.4	1,578.3	71.1	70.1	71.2	4.6	4.5	4.5
FLORIDA ²	3,642.8	3,764.2	3,742.7	275.4	264.5	233.0	7.6	7.0	6.2
Fort Lauderdale-Hollywood	363.6	374.4	370.6	30.4	26.4	22.7	8.4	7.0	6.1
Jacksonville	304.1	314.6	310.0	19.0	20.4	17.6	6.3	6.5	5.7
Miami	703.7	724.1	716.8	58.3	51.6	45.5	8.3	7.1	6.3
Orlando	282.0	293.8	292.0	20.8	19.3	17.3	7.4	6.6	5.9
Pensacola	109.8	115.2	113.1	6.2	7.0	6.1	5.6	6.1	5.4
Tampa-St. Petersburg	561.7	582.8	576.5	38.8	35.9	32.5	6.9	6.2	5.6
West Palm Beach-Boca Raton	202.2	208.5	211.9	15.9	16.8	14.6	7.9	8.1	6.9
GEORGIA	2,280.1	2,353.0	2,350.7	151.3	137.3	142.7	6.6	5.8	6.1
Atlanta	868.8	879.2	888.7	59.6	49.9	51.8	6.9	5.7	5.8
Augusta ¹	123.1	128.4	127.9	8.6	8.3	8.1	7.0	6.5	6.3
Columbus ¹	87.5	88.5	89.5	6.3	5.7	6.0	7.2	6.4	6.7
Macon	106.1	105.8	106.5	10.4	7.0	7.6	9.8	6.6	7.1
Savannah	89.4	88.1	89.8	6.9	6.1	6.4	7.7	6.9	7.1

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
HAWAII	401.3	405.1	410.2	30.2	34.4	32.3	7.5	8.5	7.9
Honolulu	318.1	320.1	324.2	23.5	26.8	24.6	7.4	8.4	7.6
IDAHO	390.2	420.5	404.5	19.9	18.0	22.0	5.1	4.3	5.4
Boise City	78.5	90.7	89.3	2.5	2.7	3.2	3.2	3.0	3.6
ILLINOIS ²	5,275.4	5,416.4	5,423.5	330.8	288.9	280.8	6.3	5.3	5.2
Bloomington—Normal	61.4	63.8	64.2	2.2	2.0	2.2	3.6	3.2	3.4
Champaign—Urbana—Rantoul	76.3	78.2	78.5	3.3	3.3	3.3	4.3	4.2	4.2
Chicago	3,357.7	3,443.4	3,456.8	206.3	183.9	173.8	6.1	5.3	5.0
Davenport—Rock Island—Moline ¹	174.4	184.3	183.0	9.3	7.5	7.4	5.4	4.1	4.0
Decatur	61.4	62.2	61.9	4.3	3.6	3.5	7.0	5.8	5.7
Peoria	172.7	178.7	179.0	9.3	7.7	7.9	5.4	4.3	4.4
Rockford	132.4	139.0	139.5	9.9	6.9	6.5	7.5	5.0	4.7
Springfield	97.0	97.7	97.6	5.3	5.5	5.4	5.4	5.6	5.5
INDIANA	2,471.0	2,587.3	2,597.9	122.9	128.8	133.8	5.0	5.0	5.2
Evansville ¹	134.5	138.8	139.4	6.0	6.6	7.0	4.5	4.8	5.0
Fort Wayne	176.0	187.8	189.2	7.3	8.3	8.2	4.1	4.4	4.3
Gary—Hammond—East Chicago	282.7	289.5	292.2	17.6	15.2	15.7	6.2	5.2	5.4
Indianapolis	554.4	572.8	576.7	27.7	26.4	27.3	5.0	4.6	4.7
Muncie	56.2	57.6	58.0	3.1	3.5	3.5	5.6	6.1	6.0
South Bend	132.4	138.0	138.8	6.6	7.1	6.9	5.0	5.2	5.0
Terre Haute	77.1	80.4	80.5	3.9	3.7	3.7	5.0	4.6	4.5
IOWA	1,390.5	1,433.6	1,411.2	48.0	37.3	44.9	3.4	2.6	3.2
Cedar Rapids	83.7	86.3	86.3	2.4	1.9	2.2	2.8	2.2	2.6
Des Moines	172.5	177.0	176.9	5.9	4.8	5.5	3.4	2.7	3.1
Dubuque	44.3	45.4	45.2	2.0	1.7	1.8	4.5	3.7	4.1
Sioux City ¹	59.5	58.7	58.7	2.9	2.8	3.2	4.9	4.8	5.4
Waterloo—Cedar Falls	66.5	66.8	67.3	2.4	2.6	3.0	3.6	3.9	4.4
KANSAS	1,123.0	1,170.3	1,167.0	44.1	29.3	28.5	3.9	2.5	2.4
Topeka	94.5	95.6	96.8	4.3	3.1	3.1	4.6	3.3	3.2
Wichita	208.0	215.5	218.9	9.5	6.0	5.8	4.6	2.8	2.6
KENTUCKY	1,562.9	1,591.1	1,580.0	67.5	75.0	74.0	4.3	4.7	4.7
Lexington—Fayette	158.9	164.4	164.5	5.0	5.0	5.0	3.1	3.1	3.0
Louisville ¹	405.8	418.8	420.6	19.0	20.9	19.6	4.7	5.0	4.7
LOUISIANA	1,553.4	1,617.3	1,606.4	97.9	96.6	94.8	6.3	6.0	5.9
Baton Rouge	197.8	201.3	200.8	13.3	11.2	11.4	6.7	5.6	5.7
Lake Charles	64.4	63.5	62.5	4.4	4.3	4.0	6.8	6.8	6.4
Monroe	51.1	53.0	52.6	3.3	3.4	3.2	6.5	6.4	6.0
New Orleans	456.8	457.6	459.6	32.0	27.4	28.1	7.0	6.0	6.1
Shreveport	143.9	149.4	149.6	8.2	8.0	7.8	5.7	5.4	5.2
MAINE	467.0	473.8	471.4	34.5	24.2	24.9	7.4	5.1	5.3
Lewiston—Auburn	37.0	36.9	37.2	2.4	1.5	1.5	6.6	4.1	4.1
Portland	84.5	86.4	87.0	5.5	3.6	3.5	6.5	4.2	4.0
MARYLAND	1,962.9	2,051.3	2,058.4	103.9	94.7	100.8	5.3	4.6	4.9
Baltimore	979.0	1,055.8	1,059.8	58.1	53.5	55.1	5.9	5.1	5.2
MASSACHUSETTS ²	2,799.6	2,805.1	2,843.0	193.8	120.6	148.5	6.9	4.3	5.2
Boston	1,350.2	1,364.6	1,382.1	91.5	55.7	63.8	6.8	4.1	4.6
Brockton	78.6	82.6	83.8	5.5	3.6	4.5	7.0	4.4	5.4
Fall River ¹	76.5	78.2	79.3	5.6	3.8	4.9	7.4	4.9	6.2
Lawrence—Haverhill ¹	N.A.	138.0	140.1	N.A.	7.3	9.0	N.A.	5.3	6.4
Lowell	109.6	111.8	113.0	7.6	5.2	6.1	6.9	4.6	5.4
New Bedford	82.5	80.0	80.7	7.6	4.4	6.0	9.2	5.5	7.4
Springfield—Chicopee—Holyoke	275.5	272.6	277.3	16.9	11.1	13.6	6.1	4.1	4.9
Worcester	195.4	196.0	200.4	10.7	6.7	9.1	5.5	3.4	4.5
MICHIGAN ²	4,183.2	4,182.0	4,228.8	323.4	229.3	279.4	7.7	5.5	6.6
Ann Arbor	134.8	136.8	139.9	7.6	5.9	6.9	5.6	4.3	4.9
Battle Creek	81.5	81.3	82.2	6.7	4.5	5.2	8.2	5.5	6.3
Bay City	53.7	54.0	54.8	4.4	2.8	3.1	8.3	5.1	5.7
Detroit	1,993.5	1,984.0	2,008.0	147.2	105.5	125.6	7.4	5.3	6.3
Flint	220.8	226.1	230.0	16.4	14.0	16.5	7.4	6.2	7.2

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
MICHIGAN—Continued									
Grand Rapids	287.1	289.7	291.9	17.2	11.8	14.8	6.0	4.1	5.1
Jackson	65.4	66.0	65.7	4.9	3.2	3.7	7.5	4.9	5.7
Kalamazoo—Portage	131.4	131.8	132.7	8.4	6.2	7.1	6.4	4.7	5.3
Lansing—East Lansing	228.8	229.1	232.8	15.6	10.6	12.4	6.8	4.6	5.3
Muskegon—Norton Shores—Muskegon Heights	75.9	75.6	76.9	6.9	4.6	6.2	9.1	6.1	8.1
Saginaw	102.6	103.3	105.4	6.7	4.7	5.8	6.6	4.5	5.5
MINNESOTA	1,947.7	2,039.1	2,033.5	83.9	59.6	71.4	4.3	2.9	3.5
Duluth—Superior ¹	113.8	121.4	118.5	9.2	4.9	6.0	8.1	4.0	5.1
Minneapolis—St. Paul	1,046.6	1,072.5	1,070.8	37.4	27.9	30.8	3.6	2.6	2.9
MISSISSIPPI	974.8	978.3	969.7	68.5	65.5	61.8	7.0	6.7	6.4
Jackson	138.5	140.2	141.0	8.0	7.4	6.7	5.8	5.3	4.7
MISSOURI	2,210.1	2,257.9	2,245.4	116.3	97.5	101.7	5.3	4.3	4.5
Kansas City ¹	661.5	677.1	677.9	35.2	25.2	25.1	5.3	3.7	3.7
St. Joseph	45.0	43.6	44.2	2.7	2.1	2.3	5.9	4.8	5.3
St. Louis ¹	1,063.8	1,076.0	1,082.2	64.1	51.4	53.4	6.0	4.8	4.9
Springfield	98.3	101.7	101.6	4.4	3.8	4.0	4.5	3.8	4.0
MONTANA	342.0	363.5	360.8	20.4	16.0	18.6	6.0	4.4	5.2
Billings	53.8	53.3	54.0	2.3	1.6	2.3	4.2	3.0	4.2
Great Falls	35.4	35.2	35.5	2.0	1.9	2.3	5.7	5.5	6.6
NEBRASKA	752.7	785.4	780.6	27.9	21.7	22.5	3.7	2.8	2.9
Lincoln	107.3	113.6	114.4	3.1	3.0	3.1	2.9	2.6	2.7
Omaha ¹	276.3	281.9	282.0	13.1	10.2	10.2	4.7	3.6	3.6
NEVADA	329.0	334.9	332.3	21.7	13.4	14.6	6.6	4.0	4.4
Las Vegas	178.2	178.5	177.4	13.6	7.7	8.0	7.6	4.3	4.5
Reno	93.9	100.8	99.7	4.2	2.6	2.8	4.4	2.6	2.8
NEW HAMPSHIRE	420.8	432.2	429.7	21.4	15.6	14.8	5.1	3.6	3.4
Manchester	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY²	3,420.4	3,538.1	3,592.4	271.3	219.6	219.7	7.9	6.2	6.1
Atlantic City	82.6	88.4	88.3	9.7	7.4	7.5	11.7	8.4	8.5
Jersey City	259.6	259.3	260.2	27.8	24.0	24.1	10.7	9.3	9.3
Long Branch—Asbury Park	220.7	226.6	232.0	17.1	14.8	16.2	7.8	6.5	7.0
Newark	956.8	995.7	1,012.0	73.6	57.4	55.5	7.7	5.8	5.5
New Brunswick—Perth Amboy—Sayreville	304.7	325.1	332.0	19.6	18.3	17.8	6.4	5.6	5.3
Paterson—Clifton—Passaic	215.1	222.6	228.2	19.8	16.3	15.7	9.2	7.3	6.9
Trenton	160.6	164.7	166.3	9.1	7.9	7.3	5.7	4.8	4.4
Vineland—Millville—Bridgeton	58.2	63.4	63.8	5.9	5.6	5.7	10.2	8.9	9.0
NEW MEXICO	511.0	540.0	536.0	33.8	31.8	33.0	6.6	5.9	6.2
Albuquerque	188.6	196.7	197.1	12.5	11.4	11.8	6.6	5.8	6.0
NEW YORK²	7,779.5	7,937.7	7,961.5	704.2	623.6	569.8	9.1	7.9	7.2
Albany—Schenectady—Troy	357.9	367.7	373.1	23.4	21.5	22.1	6.5	5.9	5.9
Binghamton ¹	132.7	138.2	140.5	9.1	8.2	8.4	6.9	5.9	6.0
Buffalo	572.9	579.1	583.9	50.8	45.0	39.8	8.9	7.8	6.8
Elmira	40.2	41.0	41.4	3.4	2.7	2.6	8.5	6.5	6.2
Nassau—Suffolk	1,234.7	1,274.4	1,284.4	100.4	84.8	79.0	8.1	6.7	6.1
New York	3,588.4	3,625.7	3,604.7	368.0	336.2	286.4	10.3	9.3	7.9
New York City ²	3,022.0	3,044.0	3,015.0	329.0	304.0	256.0	10.9	10.0	8.5
Poughkeepsie	98.7	103.4	104.2	5.6	5.1	4.6	5.7	4.9	4.4
Rochester	456.0	464.5	473.5	29.3	25.0	25.8	6.4	5.4	5.4
Syracuse	294.9	303.6	308.8	21.7	18.6	18.5	7.4	6.1	6.0
Utica—Rome	136.5	138.8	139.7	11.6	9.4	9.6	8.5	6.8	6.9
NORTH CAROLINA	2,608.3	2,681.9	2,675.4	138.7	91.6	98.5	5.3	3.4	3.7
Asheville	80.4	83.2	82.4	4.6	3.0	2.9	5.8	3.6	3.5
Charlotte—Gastonia	321.8	326.5	328.2	12.9	8.9	9.0	4.0	2.7	2.8
Greensboro—Winston-Salem—High Point	403.8	408.3	408.5	18.5	12.0	12.4	4.6	2.9	3.0
Raleigh—Durham	261.6	271.5	272.3	8.9	7.0	7.1	3.4	2.6	2.6
NORTH DAKOTA	282.9	305.6	291.2	13.2	9.8	14.0	4.7	3.2	4.8
Fargo—Moorehead ¹	70.3	72.8	71.3	3.1	2.2	2.3	4.4	3.0	3.2

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
OHIO ²	4,910.0	5,086.2	5,087.6	297.9	240.5	250.1	6.1	4.7	4.9
Akron.....	298.4	306.3	306.6	18.2	14.7	15.1	6.1	4.8	4.9
Canton.....	177.1	181.3	183.0	11.7	8.8	9.7	6.6	4.8	5.3
Cincinnati ¹	632.6	657.5	658.7	33.6	30.0	31.6	5.3	4.6	4.8
Cleveland.....	921.2	948.0	949.6	51.3	39.5	40.2	5.6	4.2	4.2
Columbus.....	524.1	540.8	543.8	27.3	23.1	23.1	5.2	4.3	4.2
Dayton.....	378.1	392.4	393.3	19.0	16.1	16.2	5.0	4.1	4.1
Toledo ¹	365.2	378.7	380.0	25.5	20.4	21.1	7.0	5.4	5.6
Youngstown—Warren.....	240.8	242.4	242.9	20.4	14.2	14.4	8.5	5.9	5.9
OKLAHOMA	1,233.5	1,244.5	1,244.4	53.3	34.7	38.9	4.3	2.8	3.1
Oklahoma City.....	370.7	388.2	388.2	14.4	9.7	10.4	3.9	2.5	2.7
Tulsa.....	295.2	292.0	294.0	13.0	7.7	8.9	4.4	2.7	3.0
OREGON	1,137.6	1,204.2	1,207.9	72.1	66.3	76.4	6.3	5.5	6.3
Eugene—Springfield.....	120.7	123.9	124.8	8.5	8.6	9.0	7.0	6.9	7.2
Portland ¹	548.0	580.7	586.7	31.9	28.9	31.3	5.8	5.0	5.3
Salem.....	106.8	113.6	111.8	5.8	5.3	7.6	5.5	4.7	6.8
PENNSYLVANIA ²	5,158.5	5,342.1	5,350.0	345.9	370.6	353.6	6.7	6.9	6.6
Allentown—Bethlehem—Easton ¹	297.1	305.3	305.8	17.0	16.9	15.7	5.7	5.5	5.1
Altoona.....	56.2	58.3	58.2	3.8	4.8	4.8	6.7	8.2	8.2
Erie.....	120.1	126.6	126.2	7.7	9.0	8.7	6.4	7.1	6.9
Harrisburg.....	205.5	214.8	214.4	9.9	10.7	10.3	4.8	5.0	4.8
Johnstown.....	106.0	107.3	107.1	9.9	9.3	8.8	9.3	8.7	8.2
Lancaster.....	166.0	173.2	173.0	6.5	7.5	7.2	3.9	4.3	4.2
Northeast Pennsylvania.....	269.0	275.3	275.1	82.4	24.9	23.5	8.3	9.0	8.5
Philadelphia ¹	2,069.0	2,127.4	2,135.0	157.7	160.0	145.8	7.6	7.5	6.8
Pittsburgh.....	969.5	998.6	1,005.0	54.9	59.7	58.2	5.7	6.0	5.8
Reading.....	145.4	152.2	153.1	7.1	7.2	6.9	4.9	4.8	4.5
Williamsport.....	50.9	53.5	53.5	4.2	4.2	4.3	8.2	7.8	8.0
York.....	156.9	167.0	166.9	7.9	7.4	7.5	5.1	4.5	4.5
RHODE ISLAND	443.8	433.7	437.5	31.3	20.9	22.4	7.1	4.8	5.1
Providence—Warwick—Pawtucket ¹	447.4	438.9	444.3	31.3	20.9	22.4	7.0	4.8	5.1
SOUTH CAROLINA	1,287.9	1,318.3	1,294.7	87.0	79.5	72.4	6.8	6.0	5.6
Charleston—North Charleston.....	147.1	148.9	146.5	11.1	10.0	9.2	7.6	6.7	6.3
Columbia.....	170.4	174.2	173.2	9.2	8.2	7.4	5.4	4.7	4.3
Greenville—Spartanburg.....	255.1	256.8	253.8	15.3	12.2	10.7	6.0	4.7	4.2
SOUTH DAKOTA	309.1	326.2	319.7	7.5	7.9	8.2	2.4	2.4	2.6
Sioux Falls.....	55.6	57.2	58.5	1.1	0.9	0.7	2.1	1.5	1.2
TENNESSEE	1,926.8	1,983.0	1,984.3	104.2	115.1	116.5	5.4	5.8	5.9
Chattanooga ¹	183.9	186.0	187.3	9.7	10.5	10.7	5.3	5.7	5.7
Knoxville.....	199.9	204.1	203.5	8.7	12.4	10.1	4.4	6.1	5.0
Memphis ¹	378.6	382.2	384.4	21.3	23.5	23.7	5.6	6.1	6.2
Nashville—Davidson.....	385.6	398.4	402.8	14.5	16.3	18.2	3.8	4.1	4.5
TEXAS ²	5,870.7	6,079.5	6,111.7	291.4	260.4	292.5	5.0	4.3	4.8
Amarillo.....	85.5	88.6	88.7	3.0	2.9	3.3	3.5	3.3	3.7
Austin.....	229.8	241.7	244.0	9.3	7.5	8.1	4.1	3.1	3.3
Beaumont—Port Arthur—Orange.....	166.4	168.3	168.2	10.6	10.0	11.2	6.4	6.0	6.7
Corpus Christi.....	125.6	130.5	131.4	7.6	6.5	7.0	6.1	5.0	5.3
Dallas—Fort Worth.....	1,345.8	1,407.6	1,410.6	58.9	49.5	53.4	4.4	3.5	3.8
El Paso.....	162.3	164.8	166.9	17.0	13.6	14.7	10.5	8.3	8.8
Galveston—Texas City.....	87.3	90.7	91.3	5.7	4.8	5.5	6.6	5.3	6.0
Houston.....	1,306.4	1,374.6	1,385.5	52.1	48.5	56.8	4.0	3.5	4.1
Lubbock.....	102.6	104.2	104.8	3.5	3.1	3.4	3.4	3.0	3.3
San Antonio.....	394.5	408.8	411.0	26.0	24.2	26.1	6.6	5.9	6.4
Waco.....	77.2	79.5	79.9	3.6	3.3	3.9	4.7	4.2	4.9
Wichita Falls.....	59.3	60.7	61.4	2.1	2.1	2.6	3.5	3.4	4.2
UTAH	534.6	558.0	555.6	24.8	18.0	20.3	4.6	3.2	3.6
Salt Lake City—Ogden.....	357.2	369.3	371.6	16.7	12.1	13.2	4.7	3.3	3.5
VERMONT	228.9	241.0	238.0	15.1	9.6	11.9	6.6	4.0	5.0

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		
	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P	NOV. 1977	OCT. 1978	NOV. 1978P
VIRGINIA	2,393.2	2,493.9	2,496.6	106.0	116.0	123.9	4.4	4.7	5.0
Lynchburg	69.7	72.2	72.3	2.5	2.8	3.0	3.6	3.9	4.2
Newport News—Hampton	154.1	160.7	159.5	7.9	9.6	9.4	5.1	5.9	5.9
Norfolk—Virginia Beach—Portsmouth ¹	309.9	322.4	322.2	16.6	18.7	19.4	5.4	5.8	6.0
Richmond	315.1	327.8	329.5	9.8	10.8	11.2	3.1	3.3	3.4
Roanoke	108.5	112.8	113.2	4.1	4.7	5.1	3.8	4.1	4.5
WASHINGTON	1,646.6	1,754.2	1,735.8	124.2	91.0	100.8	7.5	5.2	5.8
Seattle—Everett	711.8	767.7	770.0	50.7	34.9	37.1	7.1	4.5	4.8
Spokane	132.2	139.1	138.0	8.9	6.9	7.4	6.7	5.0	5.4
Tacoma	156.7	161.8	161.5	13.7	9.8	10.0	8.7	6.1	6.2
WEST VIRGINIA	696.6	736.2	754.0	39.8	33.0	37.9	5.7	4.5	5.0
Charleston	113.7	119.2	121.0	4.4	3.3	3.8	3.9	2.8	3.1
Huntington—Ashland ¹	114.4	115.8	117.7	6.0	4.7	5.4	5.2	4.1	4.6
Parkersburg—Marietta ¹	63.8	66.7	68.2	3.4	2.5	3.1	5.3	3.8	4.6
Wheeling ¹	79.3	81.5	82.3	5.8	3.4	3.8	7.3	4.2	4.7
WISCONSIN	2,241.1	2,341.4	2,358.4	94.9	102.8	116.3	4.2	4.4	4.9
Appleton—Oshkosh	139.1	144.0	145.5	6.1	6.4	7.7	4.4	4.4	5.3
Green Bay	86.4	87.0	86.7	3.8	4.5	4.8	4.4	5.1	5.6
Kenosha	61.3	61.9	61.1	2.9	3.2	2.8	4.8	5.1	4.6
La Crosse	44.0	46.0	46.3	2.0	2.1	2.4	4.5	4.5	5.3
Madison	177.7	174.0	174.1	5.6	6.2	6.7	3.2	3.6	3.9
Milwaukee	724.3	716.6	723.7	27.1	26.8	28.7	3.7	3.7	4.0
Racine	89.3	89.0	89.4	4.1	3.9	4.2	4.6	4.4	4.7
WYOMING	195.6	212.7	208.1	7.7	6.2	8.5	3.9	2.9	4.1

¹ Includes interstate portion of area located in adjacent State.

² Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

NOTE: Estimates for 1977 have been benchmarked to 1977 Current Population Survey annual averages. Except in the 10 largest States designated by footnote 2, estimates for 1978

are provisional and will be revised when new benchmark information becomes available. Data refer to place of residence.

p=preliminary.

N.A.=not available.

SOURCE: Current Population Survey and 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," "State, County, and Selected City Employment and Unemployment," or "Unemployment Rates for States and Local Governments, Second Quarter 1978." 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.

HOUSEHOLD DATA HISTORICAL ANNUAL AVERAGES

1. Employment status of the noninstitutional population, 1929 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	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
Persons 14 years of age and over										
1929.....	(1)	49,440	(1)	49,180	47,630	10,450	37,180	1,550	3.2	(1)
1930.....	(1)	50,080	(1)	49,820	45,480	10,340	35,140	4,340	8.7	(1)
1931.....	(1)	50,680	(1)	50,420	42,400	10,290	32,110	8,020	15.9	(1)
1932.....	(1)	51,250	(1)	51,000	38,940	10,170	28,770	12,060	23.6	(1)
1933.....	(1)	51,840	(1)	51,590	38,760	10,090	28,670	12,830	24.9	(1)
1934.....	(1)	52,490	(1)	52,230	40,890	9,900	30,990	11,340	21.7	(1)
1935.....	(1)	53,140	(1)	52,870	42,260	10,110	32,150	10,610	20.1	(1)
1936.....	(1)	53,740	(1)	53,440	44,410	10,000	34,410	9,030	16.9	(1)
1937.....	(1)	54,320	(1)	54,000	46,300	9,820	36,480	7,700	14.3	(1)
1938.....	(1)	54,950	(1)	54,610	44,220	9,690	34,530	10,390	19.0	(1)
1939.....	(1)	55,600	(1)	55,230	45,750	9,610	36,140	9,480	17.2	(1)
1940.....	100,380	56,180	56.0	55,640	47,520	9,540	37,980	8,120	14.6	44,200
1941.....	101,520	57,530	56.7	55,910	50,350	9,100	41,250	5,560	9.9	43,990
1942.....	102,610	60,380	58.8	56,410	53,750	9,250	44,500	2,660	4.7	42,230
1943.....	103,660	64,560	62.3	55,540	54,470	9,080	45,390	1,070	1.9	39,100
1944.....	104,630	66,040	63.1	54,630	53,960	8,950	45,010	670	1.2	38,590
1945.....	105,530	65,300	61.9	53,860	52,820	8,580	44,240	1,040	1.9	40,230
1946.....	106,520	60,970	57.2	57,520	55,250	8,320	46,930	2,270	3.9	45,550
1947.....	107,608	61,758	57.4	60,168	57,812	8,256	49,557	2,356	3.9	45,850
Persons 16 years of age and over										
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 ²	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 ²	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 ²	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 ²	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ²	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
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ²	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521

¹ Not available.

² 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.

HOUSEHOLD DATA HISTORICAL ANNUAL AVERAGES

2. Employment status of the noninstitutional population, 16 years and over by sex, 1947 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										
1947.....	50,968	44,258	86.8	42,686	40,995	6,643	34,352	1,692	4.0	6,710
1948.....	51,439	44,729	87.0	43,286	41,725	6,358	35,367	1,559	3.6	6,710
1949.....	51,922	45,097	86.9	43,498	40,925	6,343	34,583	2,572	5.9	6,825
1950.....	52,352	45,446	86.8	43,819	41,578	6,002	35,576	2,239	5.1	6,906
1951.....	52,788	46,063	87.3	43,001	41,780	5,534	36,246	1,221	2.8	6,725
1952.....	53,248	46,416	87.2	42,869	41,682	5,390	36,293	1,185	2.8	6,832
1953.....	54,248	47,131	86.9	43,633	42,430	5,253	37,177	1,202	2.8	7,117
1954.....	54,706	47,275	86.4	43,965	41,619	5,200	36,418	2,344	5.3	7,431
1955.....	55,122	47,488	86.2	44,475	42,621	5,265	37,356	1,854	4.2	7,634
1956.....	55,547	47,914	86.3	45,091	43,379	5,040	38,339	1,711	3.8	7,633
1957.....	56,082	47,964	85.5	45,197	43,357	4,824	38,532	1,841	4.1	8,118
1958.....	56,640	48,126	85.0	45,521	42,423	4,596	37,827	3,098	6.8	8,514
1959.....	57,312	48,405	84.5	45,886	43,466	4,532	38,934	2,420	5.2	8,907
1960 ¹	58,144	48,870	84.0	46,388	43,904	4,472	39,431	2,486	5.4	9,274
1961.....	58,826	49,193	83.6	46,653	43,656	4,298	39,359	2,997	6.4	9,633
1962 ¹	59,626	49,395	82.8	46,600	44,177	4,069	40,108	2,423	5.2	10,231
1963.....	60,627	49,835	82.2	47,129	44,657	3,809	40,849	2,472	5.2	10,792
1964.....	61,556	50,387	81.9	47,679	45,474	3,691	41,782	2,205	4.6	11,169
1965.....	62,473	50,946	81.5	48,255	46,340	3,547	42,792	1,914	4.0	11,527
1966.....	63,351	51,560	81.4	48,471	46,919	3,243	43,675	1,551	3.2	11,792
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973.....	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
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
FEMALES										
1947.....	52,450	16,683	31.8	16,664	16,045	1,248	14,797	619	3.7	35,767
1948.....	53,088	17,351	32.7	17,335	16,617	1,271	15,346	717	4.1	35,737
1949.....	53,689	17,806	33.2	17,788	16,723	1,315	15,409	1,065	6.0	35,883
1950.....	54,293	18,412	33.9	18,389	17,340	1,159	16,181	1,049	5.7	35,881
1951.....	54,933	19,054	34.7	19,016	18,181	1,193	16,988	834	4.4	35,879
1952.....	55,575	19,314	34.8	19,269	18,568	1,111	17,458	698	3.6	36,261
1953 ¹	56,353	19,429	34.5	19,382	18,749	1,006	17,743	632	3.3	36,924
1954.....	56,965	19,718	34.6	19,678	18,490	1,006	17,486	1,188	6.0	37,247
1955.....	57,610	20,584	35.7	20,548	19,551	1,184	18,366	998	4.9	37,026
1956.....	58,264	21,495	36.9	21,461	20,419	1,244	19,175	1,039	4.8	36,769
1957.....	58,983	21,765	36.9	21,732	20,714	1,123	19,591	1,018	4.7	37,218
1958.....	59,723	22,149	37.1	22,118	20,613	990	19,623	1,504	6.8	37,574
1959.....	60,569	22,516	37.2	22,483	21,164	1,033	20,131	1,320	5.9	38,053
1960 ¹	61,615	23,272	37.8	23,240	21,874	986	20,887	1,366	5.9	38,343
1961.....	62,517	23,838	38.1	23,806	22,090	902	21,187	1,717	7.2	38,679
1962 ¹	63,355	24,047	38.0	24,014	22,525	875	21,651	1,488	6.2	39,308
1963.....	64,527	24,736	38.3	24,704	23,105	878	22,227	1,598	6.5	39,791
1964.....	65,668	25,443	38.7	25,412	23,831	832	23,000	1,581	6.2	40,225
1965.....	66,763	26,232	39.3	26,200	24,748	814	23,934	1,452	5.5	40,531
1966.....	67,829	27,333	40.3	27,299	25,976	736	25,240	1,324	4.8	40,496
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
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887

¹ See footnote 2, table 1.

HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Sex, age, and race	1978										
	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	60,535	78.4	58,542	55,491	3,051	5.2	16,634	335	3,713	1,724	10,862
16 to 21 years	8,924	70.0	8,242	7,100	1,141	13.8	3,833	20	3,029	34	750
16 to 19 years	5,383	63.5	5,078	4,279	799	15.7	3,093	15	2,494	14	569
16 to 17 years	2,208	52.2	2,185	1,767	418	19.2	2,024	9	1,654	5	356
18 to 19 years	3,175	74.8	2,893	2,512	381	13.2	1,069	6	840	9	213
20 to 64 years	53,229	89.8	51,541	49,370	2,171	4.2	6,070	138	1,218	1,251	3,463
20 to 24 years	8,811	87.1	8,063	7,330	733	9.1	1,309	12	890	47	360
25 to 54 years	37,330	94.4	36,392	35,149	1,243	3.4	2,201	69	325	667	1,140
25 to 29 years	8,405	94.9	8,033	7,619	415	5.2	452	6	201	47	198
30 to 34 years	7,495	96.3	7,251	7,010	241	3.3	291	14	68	70	139
35 to 39 years	6,074	96.4	5,880	5,710	170	2.9	224	5	21	75	123
40 to 44 years	5,196	95.1	5,106	4,968	138	2.7	269	10	16	99	143
45 to 49 years	5,103	93.0	5,071	4,934	137	2.7	387	17	12	148	210
50 to 54 years	5,058	89.7	5,051	4,908	143	2.8	579	17	6	229	327
55 to 64 years	7,088	73.5	7,087	6,892	195	2.7	2,560	57	3	537	1,963
55 to 59 years	4,390	82.9	4,389	4,266	123	2.8	904	26	2	282	594
60 to 64 years	2,698	62.0	2,698	2,626	72	2.7	1,656	31	1	255	1,369
65 years and over	1,923	20.5	1,923	1,842	81	4.2	7,471	182	1	458	6,830
65 to 69 years	1,120	30.1	1,120	1,068	52	4.7	2,607	53	--	169	2,385
70 years and over	803	14.2	803	774	29	3.6	4,864	129	1	290	4,444
White											
16 years and over	53,867	79.1	52,258	49,893	2,365	4.5	14,204	276	2,980	1,397	9,550
16 to 21 years	7,849	72.3	7,308	6,451	857	11.7	3,015	16	2,414	23	562
16 to 19 years	4,767	66.3	4,525	3,916	609	13.5	2,427	13	1,970	10	435
16 to 17 years	1,988	55.6	1,969	1,637	332	16.9	1,588	8	1,295	4	281
18 to 19 years	2,779	76.8	2,556	2,279	277	10.8	839	5	675	6	153
20 to 64 years	47,375	90.4	46,008	44,319	1,690	3.7	5,039	109	1,009	1,010	2,909
20 to 24 years	7,688	88.1	7,100	6,560	540	7.6	1,038	8	737	34	258
25 to 54 years	33,232	95.1	32,454	31,472	983	3.0	1,724	53	270	522	879
25 to 29 years	14,074	96.1	13,570	13,064	505	3.7	572	14	224	92	241
30 to 34 years	10,033	96.4	9,794	9,545	249	2.5	375	11	30	136	198
35 to 44 years	9,125	92.2	9,091	8,862	228	2.5	777	28	16	294	439
55 to 64 years	6,455	73.9	6,454	6,287	167	2.6	2,277	49	3	453	1,773
55 to 59 years	3,993	83.6	3,992	3,889	102	2.6	781	22	2	235	522
60 to 64 years	2,463	62.2	2,462	2,398	65	2.6	1,496	27	1	218	1,251
65 years and over	1,725	20.4	1,725	1,658	67	3.9	6,738	154	1	378	6,206
Black and other											
16 years and over	6,667	73.3	6,284	5,599	686	10.9	2,430	59	733	326	1,312
16 to 21 years	1,074	56.8	934	649	285	30.5	818	4	615	11	188
16 to 19 years	616	48.0	553	363	190	34.4	666	3	524	4	134
16 to 17 years	220	33.5	216	130	87	40.0	436	1	359	1	75
18 to 19 years	396	63.2	337	233	104	30.8	230	1	165	3	60
20 to 64 years	5,854	85.0	5,533	5,052	481	8.7	1,033	29	208	242	554
20 to 24 years	1,124	80.5	963	770	193	20.0	272	4	153	13	102
25 to 54 years	4,098	89.6	3,938	3,678	261	6.6	478	16	55	145	262
25 to 29 years	1,826	91.4	1,714	1,564	150	8.8	171	5	45	25	96
30 to 34 years	1,236	91.3	1,192	1,134	59	4.9	118	4	8	38	68
35 to 44 years	1,035	84.6	1,031	979	52	5.0	188	6	2	82	98
55 to 64 years	632	69.1	632	605	28	4.4	283	8	1	84	190
55 to 59 years	397	76.5	397	376	20	5.1	122	4	--	47	71
60 to 64 years	236	59.4	236	228	8	3.2	161	5	--	37	119
65 years and over	198	21.3	198	184	14	7.1	732	28	--	80	624

HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Sex, age, and race	1978										
	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	42,002	50.1	41,878	38,882	2,996	7.2	41,887	32,788	3,626	1,042	4,432
16 to 21 years	7,293	58.4	7,243	6,161	1,082	14.9	5,204	1,458	3,021	21	704
16 to 19 years	4,482	54.0	4,462	3,702	760	17.0	3,814	725	2,523	14	553
16 to 17 years	1,866	45.5	1,865	1,502	363	19.5	2,233	218	1,676	5	333
18 to 19 years	2,616	62.3	2,597	2,200	397	15.3	1,582	507	848	8	219
20 to 64 years	36,401	58.5	36,296	34,103	2,193	6.0	25,798	22,342	1,095	458	1,903
20 to 24 years	6,926	68.5	6,860	6,168	692	10.1	3,181	2,122	740	24	295
25 to 54 years	25,007	60.5	24,968	23,609	1,359	5.4	16,350	14,734	345	241	581
25 to 29 years	5,804	64.3	5,777	5,372	405	7.0	3,224	2,852	156	26	190
30 to 34 years	4,776	59.8	4,769	4,471	298	6.2	3,215	2,941	79	26	166
35 to 39 years	4,035	60.9	4,032	3,820	212	5.3	2,593	2,365	48	33	146
40 to 44 years	3,610	62.5	3,609	3,439	169	4.7	2,169	1,967	33	38	130
45 to 49 years	3,463	59.8	3,462	3,319	143	4.1	2,331	2,113	21	45	151
50 to 54 years	3,319	54.5	3,319	3,188	131	3.9	2,770	2,494	9	72	195
55 to 64 years	4,469	41.4	4,468	4,325	144	3.2	6,316	5,486	13	193	627
55 to 59 years	2,825	48.6	2,825	2,738	87	3.1	2,994	2,636	6	92	259
60 to 64 years	1,643	33.1	1,643	1,587	56	3.4	3,323	2,850	4	101	367
65 years and over	1,120	8.4	1,120	1,077	43	3.8	12,275	9,721	7	571	1,976
65 to 69 years	699	14.9	699	668	31	4.4	3,993	3,334	2	102	554
70 years and over	421	4.8	421	409	12	2.8	8,283	6,387	5	469	1,422
White											
16 years and over	36,298	49.6	36,198	33,943	2,255	6.2	36,920	29,430	2,877	818	3,795
16 to 21 years	6,414	60.8	6,373	5,578	795	12.5	4,136	1,178	2,397	16	546
16 to 19 years	3,981	57.0	3,965	3,396	569	14.4	3,008	575	1,991	11	430
16 to 17 years	1,684	48.9	1,683	1,396	287	17.1	1,759	173	1,313	5	268
18 to 19 years	2,297	64.8	2,281	2,000	282	12.4	1,249	402	678	6	163
20 to 64 years	31,330	57.9	31,247	29,597	1,650	5.3	22,749	19,908	880	343	1,617
20 to 24 years	5,958	69.5	5,906	5,418	488	8.3	2,615	1,771	597	18	229
25 to 54 years	21,375	59.7	21,344	20,302	1,042	4.9	14,426	13,141	274	176	834
25 to 29 years	8,931	61.1	8,904	8,385	519	5.8	5,690	5,169	182	40	299
30 to 34 years	6,518	60.8	6,515	6,219	296	4.5	4,211	3,856	68	52	234
35 to 44 years	5,926	56.7	5,925	5,699	226	3.8	4,525	4,115	24	85	301
55 to 64 years	3,997	41.2	3,997	3,878	119	3.0	5,707	4,995	9	149	554
55 to 59 years	2,528	48.5	2,528	2,456	72	2.8	2,689	2,388	5	69	228
60 to 64 years	1,469	32.7	1,469	1,422	48	3.2	3,018	2,608	4	80	326
65 years and over	986	8.1	986	950	36	3.7	11,164	8,947	6	464	1,748
Black and other											
16 years and over	5,705	53.5	5,679	4,938	741	13.1	4,967	3,358	748	224	637
16 to 21 years	879	45.1	870	583	286	32.9	1,068	280	624	5	158
16 to 19 years	500	38.3	497	306	191	38.4	807	150	532	2	122
16 to 17 years	182	27.7	182	106	76	41.7	474	45	363	--	66
18 to 19 years	319	48.9	315	200	115	36.5	333	105	170	2	56
20 to 64 years	5,070	62.4	5,048	4,505	544	10.8	3,049	2,435	215	114	285
20 to 24 years	967	63.1	954	750	204	21.3	566	351	143	6	66
25 to 54 years	3,632	66.0	3,624	3,307	317	8.7	1,875	1,592	71	65	146
25 to 29 years	1,689	68.8	1,642	1,458	183	11.2	749	624	52	12	60
30 to 34 years	1,127	67.2	1,126	1,041	85	7.6	551	476	13	20	42
35 to 44 years	856	59.8	856	808	48	5.6	575	492	6	32	45
55 to 64 years	472	43.6	472	447	24	5.1	609	491	1	44	73
55 to 59 years	297	49.4	297	282	15	5.2	305	249	1	23	32
60 to 64 years	174	36.4	174	166	9	5.0	304	242	--	21	41
65 years and over	134	10.7	134	127	7	5.2	1,111	811	1	108	229

HOUSEHOLD DATA ANNUAL AVERAGES

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	
	1977	1978	1977	1978	1977	1978	1977	1978
MALES								
16 years and over	59,467	60,535	78.3	78.4	57,449	58,542	77.7	77.9
16 to 19 years	5,315	5,383	62.5	63.5	4,985	5,078	61.0	62.1
16 to 17 years	2,148	2,208	50.6	52.2	2,118	2,185	50.3	51.9
18 to 19 years	3,167	3,175	74.4	74.8	2,867	2,893	72.5	73.0
20 to 24 years	8,623	8,811	86.7	87.1	7,877	8,063	85.7	86.0
25 to 54 years	36,639	37,330	94.4	94.4	35,698	36,392	94.2	94.3
25 to 34 years	15,502	15,900	95.6	95.5	14,887	15,284	95.4	95.4
35 to 44 years	10,906	11,270	95.8	95.8	10,619	10,986	95.7	95.7
45 to 54 years	10,231	10,161	91.2	91.3	10,192	10,122	91.2	91.3
55 to 64 years	7,045	7,088	74.0	73.5	7,043	7,087	74.0	73.5
55 to 59 years	4,328	4,390	83.2	82.9	4,326	4,389	83.2	82.9
60 to 64 years	2,717	2,698	62.9	62.0	2,717	2,698	62.9	62.0
65 years and over	1,845	1,923	20.1	20.5	1,845	1,923	20.1	20.5
White								
16 years and over	53,079	53,867	79.1	79.1	51,421	52,258	78.5	78.6
16 to 19 years	4,732	4,767	65.4	66.3	4,461	4,525	64.1	65.1
16 to 17 years	1,945	1,988	54.1	55.6	1,920	1,969	53.8	55.3
18 to 19 years	2,787	2,779	76.6	76.8	2,541	2,556	74.9	75.3
20 to 24 years	7,538	7,688	87.7	88.1	6,944	7,100	86.8	87.2
25 to 54 years	32,690	33,232	95.1	95.1	31,900	32,454	94.9	95.0
25 to 34 years	13,764	14,074	96.2	96.1	13,251	13,570	96.0	96.0
35 to 44 years	9,696	10,033	96.3	96.4	9,453	9,794	96.2	96.3
45 to 54 years	9,230	9,125	92.2	92.2	9,195	9,091	92.2	92.1
55 to 64 years	6,447	6,455	74.7	73.9	6,445	6,454	74.7	73.9
55 to 59 years	3,950	3,993	84.0	83.6	3,948	3,992	84.0	83.6
60 to 64 years	2,497	2,463	63.6	62.2	2,497	2,462	63.6	62.2
65 years and over	1,671	1,725	20.2	20.4	1,671	1,725	20.2	20.4
Black and other								
16 years and over	6,388	6,667	72.2	73.3	6,028	6,284	71.0	72.1
16 to 19 years	582	616	46.1	46.0	524	553	43.4	45.4
16 to 17 years	203	220	31.3	33.5	198	216	30.8	33.2
18 to 19 years	380	396	61.5	63.2	326	337	57.8	59.5
20 to 24 years	1,085	1,124	80.6	80.5	934	963	78.2	78.0
25 to 54 years	3,949	4,098	89.0	89.6	3,798	3,938	88.6	89.2
25 to 34 years	1,738	1,826	91.0	91.4	1,635	1,714	90.4	90.9
35 to 44 years	1,210	1,236	91.7	91.3	1,167	1,192	91.4	91.0
45 to 54 years	1,000	1,035	82.7	84.6	996	1,031	82.7	84.5
55 to 64 years	598	632	67.0	69.1	598	632	67.0	69.1
55 to 59 years	378	397	75.7	76.5	378	397	75.7	76.5
60 to 64 years	220	236	55.9	59.4	220	236	55.9	59.4
65 years and over	174	198	19.3	21.3	174	198	19.3	21.3

HOUSEHOLD DATA ANNUAL AVERAGES

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	
	1977	1978	1977	1978	1977	1978	1977	1978
FEMALES								
16 years and over	40,067	42,002	48.5	50.1	39,952	41,878	48.4	50.0
16 to 19 years	4,286	4,482	51.5	54.0	4,267	4,462	51.4	53.9
16 to 17 years	1,735	1,866	42.2	45.5	1,734	1,865	42.2	45.5
18 to 19 years	2,551	2,616	60.6	62.3	2,533	2,597	60.5	62.1
20 to 24 years	6,619	6,926	66.7	68.5	6,556	6,860	66.5	68.3
25 to 54 years	23,730	25,007	58.4	60.5	23,697	24,968	58.4	60.5
25 to 34 years	9,877	10,580	59.5	62.2	9,848	10,546	59.5	62.1
35 to 44 years	7,156	7,645	59.6	61.6	7,152	7,641	59.6	61.6
45 to 54 years	6,698	6,782	55.8	57.1	6,697	6,781	55.8	57.1
55 to 64 years	4,367	4,469	41.0	41.4	4,367	4,468	41.0	41.4
55 to 59 years	2,746	2,825	48.0	48.6	2,745	2,825	48.0	48.6
60 to 64 years	1,622	1,643	32.9	33.1	1,622	1,643	32.9	33.1
65 years and over	1,065	1,120	8.1	8.4	1,065	1,120	8.1	8.4
White								
16 years and over	34,780	36,298	48.2	49.6	34,686	36,198	48.1	49.5
16 to 19 years	3,849	3,981	54.8	57.0	3,834	3,965	54.7	56.9
16 to 17 years	1,588	1,684	45.8	48.9	1,587	1,683	45.8	48.9
18 to 19 years	2,262	2,297	63.4	64.8	2,247	2,281	63.3	64.6
20 to 24 years	5,733	5,958	67.9	69.5	5,682	5,906	67.7	69.3
25 to 54 years	20,334	21,375	57.6	59.7	20,307	21,344	57.6	59.7
25 to 34 years	8,349	8,931	58.4	61.1	8,326	8,904	58.3	61.0
35 to 44 years	6,116	6,518	58.9	60.8	6,113	6,515	58.9	60.7
45 to 54 years	5,868	5,926	55.4	56.7	5,867	5,925	55.4	56.7
55 to 64 years	3,918	3,997	40.8	41.2	3,918	3,997	40.8	41.2
55 to 59 years	2,460	2,528	47.9	48.5	2,460	2,528	47.9	48.5
60 to 64 years	1,458	1,469	32.7	32.7	1,458	1,469	32.7	32.7
65 years and over	946	986	8.0	8.1	946	986	8.0	8.1
Black and other								
16 years and over	5,288	5,705	51.0	53.5	5,266	5,679	50.9	53.3
16 to 19 years	436	500	33.8	38.3	433	497	33.6	38.1
16 to 17 years	147	182	22.6	27.7	147	182	22.6	27.7
18 to 19 years	289	319	45.1	48.9	287	315	44.8	48.6
20 to 24 years	886	967	59.8	63.1	874	954	59.4	62.8
25 to 54 years	3,397	3,632	63.6	66.0	3,390	3,624	63.6	65.9
25 to 34 years	1,527	1,649	66.6	68.8	1,521	1,642	66.5	68.7
35 to 44 years	1,040	1,127	63.7	67.2	1,039	1,126	63.7	67.1
45 to 54 years	830	856	58.7	59.8	830	856	58.7	59.8
55 to 64 years	449	472	42.7	43.6	449	472	42.7	43.6
55 to 59 years	285	297	49.4	49.4	285	297	49.4	49.4
60 to 64 years	164	174	34.5	36.4	164	174	34.5	36.4
65 years and over	119	134	9.9	10.7	119	134	9.9	10.7

HOUSEHOLD DATA ANNUAL AVERAGES

5. Employment status of black workers by sex and age

[Numbers in thousands]

Sex and age	1978						Not in labor force	
	Civilian labor force					Total		
	Total	Employed			Unemployed			
		Total	Agri- culture	Nonagri- cultural industries	Number			Percent of labor force
TOTAL								
18 years and over	10,211	8,925	245	8,680	1,286	12.6	6,430	
16 to 19 years	907	557	20	537	351	38.6	1,314	
16 to 17 years	337	189	9	180	148	43.9	819	
18 to 19 years	570	368	11	356	203	35.5	495	
20 to 24 years	1,655	1,295	25	1,270	359	21.7	714	
25 to 54 years	6,384	5,870	122	5,748	514	8.1	1,970	
25 to 34 years	2,819	2,518	44	2,474	301	10.7	724	
35 to 44 years	1,971	1,843	35	1,808	128	6.5	574	
45 to 54 years	1,594	1,510	44	1,466	85	5.3	671	
55 to 64 years	971	925	45	880	46	4.7	802	
55 to 59 years	607	575	23	552	32	5.3	379	
60 to 64 years	363	350	22	328	14	3.7	423	
65 years and over	294	277	32	245	17	5.9	1,630	
Males								
18 years and over	5,334	4,718	215	4,503	617	11.6	2,131	
16 to 19 years	477	303	17	286	175	36.7	590	
16 to 17 years	184	105	8	97	79	42.9	392	
18 to 19 years	294	198	9	188	96	32.7	199	
20 to 24 years	831	657	22	635	173	20.8	224	
25 to 54 years	3,309	3,073	106	2,968	235	7.1	425	
25 to 34 years	1,423	1,286	38	1,248	137	9.6	142	
35 to 44 years	1,014	961	29	931	53	5.2	106	
45 to 54 years	871	827	39	789	44	5.1	176	
55 to 64 years	548	524	40	484	24	4.4	259	
55 to 59 years	341	324	20	303	17	5.0	112	
60 to 64 years	206	200	20	180	7	3.4	147	
65 years and over	169	158	29	130	11	6.5	632	
Females								
18 years and over	4,877	4,207	30	4,177	669	13.7	4,299	
16 to 19 years	430	254	3	251	176	41.0	724	
16 to 17 years	153	84	1	83	69	45.2	427	
18 to 19 years	276	170	2	168	107	38.6	296	
20 to 24 years	824	638	3	635	186	22.6	490	
25 to 54 years	3,075	2,797	16	2,780	279	9.1	1,545	
25 to 34 years	1,396	1,232	6	1,226	164	11.7	582	
35 to 44 years	957	882	6	877	75	7.8	468	
45 to 54 years	723	683	5	677	41	5.6	495	
55 to 64 years	423	401	5	396	22	5.1	543	
55 to 59 years	266	251	3	249	15	5.5	267	
60 to 64 years	157	150	2	148	7	4.6	276	
65 years and over	125	119	3	115	6	5.1	998	

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

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	1977	1978	1977	1978	1977	1978	1977	1978
TOTAL								
Total noninstitutional population	158,559	161,058	67,484	68,693	74,256	75,594	16,818	16,771
Total labor force	99,534	102,537	54,152	55,152	35,782	37,521	9,600	9,864
Percent of population	62.8	63.7	80.2	80.3	48.2	49.6	57.1	58.8
Civilian labor force	97,801	100,420	52,464	53,464	35,685	37,416	9,252	9,540
Employed	90,546	94,373	49,737	51,212	33,199	35,180	7,610	7,981
Agriculture	3,244	3,342	2,308	2,361	537	586	399	395
Nonagricultural industries	87,302	91,031	47,429	48,852	32,662	34,593	7,211	7,586
Unemployed	6,855	6,047	2,727	2,252	2,486	2,236	1,642	1,559
Percent of labor force	7.0	6.0	5.2	4.2	7.0	6.0	17.7	16.3
Not in labor force	59,025	58,521	13,332	13,541	38,474	38,073	7,218	6,907
White								
Total noninstitutional population	139,346	141,289	59,903	60,877	65,181	66,229	14,262	14,183
Total labor force	87,859	90,165	48,347	49,100	30,930	32,316	8,582	8,748
Percent of population	63.1	63.8	80.7	80.7	47.5	48.8	60.2	61.7
Civilian labor force	86,107	88,456	46,960	47,733	30,853	32,233	8,295	8,490
Employed	80,734	83,836	44,784	45,977	28,930	30,547	7,020	7,312
Agriculture	2,993	3,034	2,123	2,120	495	545	375	369
Nonagricultural industries	77,741	80,802	42,661	43,857	28,436	30,002	6,644	6,543
Unemployed	5,373	4,620	2,176	1,757	1,922	1,686	1,275	1,178
Percent of labor force	6.2	5.2	4.6	3.7	6.2	5.2	15.4	13.9
Not in labor force	51,488	51,124	11,556	11,777	34,251	33,913	5,680	5,435
Black and other								
Total noninstitutional population	19,212	19,769	7,581	7,816	9,075	9,365	2,557	2,588
Total labor force	11,675	12,372	5,805	6,052	4,851	5,204	1,019	1,116
Percent of population	60.8	62.6	76.6	77.4	53.5	55.6	39.8	43.1
Civilian labor force	11,294	11,964	5,504	5,731	4,832	5,182	957	1,050
Employed	9,812	10,537	4,953	5,236	4,268	4,632	590	669
Agriculture	251	308	185	241	42	41	24	26
Nonagricultural industries	9,561	10,229	4,768	4,995	4,226	4,591	567	643
Unemployed	1,482	1,427	551	495	564	550	367	381
Percent of labor force	13.1	11.9	10.0	8.6	11.7	10.6	38.3	36.3
Not in labor force	7,537	7,397	1,776	1,765	4,223	4,160	1,538	1,472

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

(Numbers in thousands)

Employment status	1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,253	12,757	12,497	21,414	10,864	10,550	3,839	1,893	1,946
Total labor force	16,216	8,924	7,293	14,263	7,849	6,414	1,953	1,074	879
Percent of population	64.2	70.0	58.4	66.6	72.3	60.8	50.9	56.8	45.1
Civilian labor force	15,484	8,242	7,243	13,681	7,308	6,373	1,863	934	870
Employed	13,261	7,100	6,161	12,029	6,451	5,578	1,232	649	583
Agriculture	554	445	109	517	413	104	38	32	5
Nonagricultural industries	12,707	6,655	6,052	11,512	6,038	5,474	1,195	617	578
Unemployed	2,223	1,141	1,082	1,652	857	795	571	265	286
Looking for full-time work	1,419	745	675	1,021	546	475	399	199	200
Looking for part-time work	804	397	407	632	311	320	172	86	86
Percent of labor force	14.4	13.8	14.9	12.1	11.7	12.5	31.7	30.5	32.9
Not in labor force	9,037	3,833	5,204	7,151	3,015	4,136	1,886	818	1,068
Major activity: going to school									
Civilian labor force	3,584	1,867	1,717	3,215	1,678	1,537	370	189	181
Employed	2,917	1,507	1,410	2,703	1,399	1,303	214	107	107
Agriculture	127	102	26	124	98	26	4	4	--
Nonagricultural industries	2,790	1,405	1,384	2,579	1,302	1,278	210	103	107
Unemployed	667	360	307	512	278	233	156	82	74
Looking for full-time work	112	60	52	72	39	33	40	21	19
Looking for part-time work	555	300	255	440	240	200	115	60	55
Percent of labor force	18.6	19.3	17.9	15.9	16.6	15.2	42.1	43.3	40.8
Not in labor force	6,050	3,029	3,021	4,811	2,414	2,397	1,239	615	624
Major activity: other									
Civilian labor force	11,900	6,375	5,525	10,467	5,630	4,837	1,433	745	689
Employed	10,344	5,594	4,751	9,326	5,052	4,274	1,018	542	476
Agriculture	427	344	83	393	315	78	34	28	5
Nonagricultural industries	9,917	5,250	4,668	8,933	4,736	4,197	984	514	471
Unemployed	1,556	781	775	1,140	578	562	415	203	212
Looking for full-time work	1,307	685	623	949	507	442	358	178	181
Looking for part-time work	248	97	152	192	71	120	57	25	32
Percent of labor force	13.1	12.3	14.0	10.9	10.3	11.6	29.0	27.2	30.8
Not in labor force	2,987	604	2,183	2,340	601	1,739	647	204	444

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

[Numbers in thousands]

Race, sex, and age	1978								
	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	85,530	77,396	3,428	4,706	5.5	14,890	13,549	1,341	9.0
16 to 21 years	10,132	7,693	1,020	1,419	14.0	5,352	4,548	804	15.0
16 to 19 years	5,208	3,652	697	860	16.5	4,332	3,632	699	16.1
16 to 17 years	1,312	741	263	288	21.9	2,739	2,245	494	18.0
18 to 19 years	3,896	2,911	414	572	14.7	1,593	1,387	206	12.9
20 years and over	80,322	73,744	2,731	3,847	4.8	10,558	9,916	641	6.1
20 to 24 years	12,965	11,944	685	1,236	9.5	1,958	1,769	189	9.6
25 years and over	67,359	62,701	2,047	2,611	3.9	8,600	8,147	453	5.3
25 to 54 years	55,671	51,771	1,621	2,279	4.1	5,690	5,367	323	5.7
55 years and over	11,688	10,930	426	332	2.8	2,910	2,780	130	4.5
Males, 16 years and over	53,688	49,592	1,588	2,508	4.7	4,854	4,311	543	11.2
16 to 21 years	5,682	4,427	510	745	13.1	2,560	2,163	397	15.5
16 to 19 years	2,942	2,140	359	443	15.1	2,136	1,780	356	16.7
20 years and over	50,746	47,452	1,229	2,065	4.1	2,719	2,531	187	6.9
20 to 24 years	7,304	6,307	336	661	9.1	759	687	72	9.5
25 years and over	43,441	41,145	893	1,403	3.2	1,959	1,845	116	5.9
25 to 54 years	35,666	33,791	688	1,188	3.3	725	671	55	7.6
55 years and over	7,775	7,355	205	216	2.8	1,234	1,174	60	4.9
Females, 16 years and over	31,843	27,804	1,840	2,199	6.9	10,035	9,238	798	7.9
16 to 21 years	4,450	3,266	509	675	15.2	2,792	2,386	407	14.6
16 to 19 years	2,265	1,512	338	416	18.4	2,196	1,853	344	15.6
20 years and over	29,577	26,292	1,502	1,782	6.0	7,839	7,385	454	5.8
20 to 24 years	5,661	4,737	349	575	10.2	1,199	1,082	117	9.7
25 years and over	23,916	21,555	1,153	1,207	5.0	6,641	6,303	337	5.1
25 to 54 years	20,004	17,980	933	1,090	5.4	4,964	4,696	268	5.4
55 years and over	3,912	3,575	220	117	3.0	1,676	1,607	70	4.2
White									
Males, 16 years and over	47,938	44,697	1,305	1,936	4.0	4,320	3,891	429	9.9
16 to 21 years	5,010	4,035	429	546	10.9	2,298	1,987	311	13.5
16 to 19 years	2,609	1,977	303	330	12.6	1,915	1,636	279	14.6
20 years and over	45,328	42,720	1,002	1,606	3.5	2,405	2,255	150	6.2
20 to 24 years	6,417	5,656	278	483	7.5	683	626	57	8.4
25 years and over	38,911	37,064	724	1,123	2.9	1,722	1,630	93	5.4
25 to 54 years	31,832	30,338	555	938	2.9	622	578	44	7.1
55 years and over	7,079	6,726	169	185	2.6	1,100	1,052	49	4.5
Females, 16 years and over	27,115	24,012	1,497	1,606	5.9	9,084	8,434	649	7.1
16 to 21 years	3,860	2,944	441	475	12.3	2,514	2,193	320	12.7
16 to 19 years	1,979	1,383	297	299	15.1	1,986	1,716	270	13.6
20 years and over	25,136	22,629	1,200	1,306	5.2	7,098	6,718	379	5.3
20 to 24 years	4,846	4,161	290	396	8.2	1,060	967	92	8.7
25 years and over	20,290	18,469	911	911	4.5	6,039	5,750	286	4.7
25 to 54 years	16,779	15,225	742	811	4.8	4,566	4,335	231	5.1
55 years and over	3,512	3,244	169	100	2.8	1,472	1,416	55	3.7
Black and other									
Males, 16 years and over	5,750	4,896	283	572	9.9	534	420	114	21.4
16 to 21 years	672	392	81	199	29.6	261	176	86	32.8
16 to 19 years	333	163	56	113	34.0	221	144	77	34.9
20 years and over	5,417	4,732	227	458	8.5	314	276	37	11.8
20 to 24 years	887	651	56	178	20.1	76	62	15	19.5
25 years and over	4,531	4,081	169	281	6.2	237	215	21	8.9
25 to 54 years	3,835	3,452	133	251	6.5	103	93	10	9.7
55 years and over	696	629	37	31	4.5	134	122	11	8.2
Females, 16 years and over	4,728	3,792	343	593	12.5	951	803	148	15.6
16 to 21 years	591	323	68	200	33.8	279	192	86	31.0
16 to 19 years	287	129	41	117	40.9	210	137	74	35.0
20 years and over	4,441	3,663	303	476	10.7	741	667	75	10.1
20 to 24 years	815	576	60	179	22.0	139	115	24	17.6
25 years and over	3,628	3,086	243	296	8.2	602	552	50	8.3
25 to 54 years	3,226	2,755	191	279	8.6	398	361	37	9.3
55 years and over	402	331	52	17	4.2	204	191	13	6.4

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

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9. Employment status of the noninstitutional population by family relationship

[Numbers in thousands]

Family relationship	1978									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	100,420	63.2	94,373	6,047	6.0	58,521	33,123	7,338	2,766	15,294
Husbands ¹	40,462	81.6	39,344	1,118	2.8	9,108	132	217	1,157	7,602
With employed wife	19,841	91.9	19,374	467	2.4	1,757	36	120	370	1,231
With unemployed wife	1,118	92.9	1,028	90	8.1	85	1	7	25	53
With wife not in labor force	18,003	72.6	17,522	481	2.7	6,783	64	67	698	5,953
Wives	22,801	47.9	21,598	1,203	5.3	24,785	22,759	262	254	1,509
With employed husband	20,402	53.8	19,374	1,028	5.0	17,522	16,354	229	95	846
With unemployed husband	557	53.7	467	90	16.2	481	449	8	8	17
With husband not in labor force	1,842	21.4	1,757	85	4.6	6,783	5,957	26	152	648
Relatives in husband-wife families	14,346	62.1	12,605	1,741	12.1	8,756	1,387	5,019	394	1,956
16-19 years	6,865	58.1	5,866	999	14.6	4,951	217	3,908	17	810
20-24 years	4,931	76.3	4,410	521	10.6	1,535	171	1,007	38	319
25 years and over	2,550	52.9	2,329	221	8.7	2,270	999	104	339	827
Women who head families	4,811	58.5	4,405	407	8.5	3,406	2,789	108	134	376
Relatives in female-headed families	4,085	56.9	3,355	730	17.9	3,095	819	1,190	269	817
16-19 years	1,407	51.9	1,033	374	26.6	1,302	106	934	9	254
20-24 years	1,182	71.6	962	220	18.6	468	107	219	23	120
25 years and over	1,496	53.1	1,360	136	9.1	1,325	606	37	237	443
Persons not living in families ²	13,915	59.8	13,066	848	6.1	9,371	5,237	542	558	3,034

¹ Includes a small number of single, separated, widowed, or divorced men who head families.

² Individuals living alone or with unrelated persons plus a small number of persons in secondary families.

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	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	3,588	3,051	6.2	5.2	3,267	2,996	8.2	7.2
Married, spouse present	1,436	1,106	3.6	2.8	1,463	1,274	6.5	5.5
Widowed, divorced, or separated	343	295	8.3	6.5	580	543	7.8	6.9
Single (never married)	1,809	1,650	13.4	11.6	1,224	1,179	12.1	10.9
White, 16 years and over	2,843	2,365	5.5	4.5	2,530	2,255	7.3	6.2
Married, spouse present	1,217	935	3.4	2.6	1,244	1,063	6.2	5.1
Widowed, divorced, or separated	262	210	7.7	5.8	421	385	7.1	6.1
Single (never married)	1,364	1,221	11.6	9.9	866	807	10.0	8.8
Black and other, 16 years and over	745	686	12.4	10.9	737	741	14.0	13.1
Married, spouse present	219	171	6.2	4.8	219	211	9.3	8.7
Widowed, divorced, or separated	81	85	10.6	9.8	159	158	11.0	10.1
Single (never married)	445	429	25.5	22.9	359	372	24.5	21.9
Total, 20 to 64 years of age	2,630	2,171	5.2	4.2	2,436	2,193	7.0	6.0
Married, spouse present	1,333	1,028	3.5	2.7	1,357	1,184	6.3	5.3
Widowed, divorced, or separated	327	274	8.3	6.4	530	506	7.9	7.1
Single (never married)	971	869	11.3	9.3	549	503	8.8	7.5
White, 20 to 64 years of age	2,094	1,690	4.6	3.7	1,876	1,650	6.3	5.3
Married, spouse present	1,127	867	3.2	2.5	1,149	985	5.9	4.9
Widowed, divorced, or separated	250	196	7.8	5.7	379	355	7.1	6.2
Single (never married)	717	628	9.7	7.9	348	310	6.7	5.6
Black and other, 20 to 64 years of age	537	481	10.1	8.7	560	544	11.9	10.8
Married, spouse present	207	163	6.1	4.8	208	199	9.0	8.4
Widowed, divorced, or separated	77	79	10.6	9.6	151	152	11.2	10.4
Single (never married)	252	240	20.6	18.1	202	194	19.0	15.8

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11. Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	6,855	6,047	7.0	6.0	6.2	5.2	8.2	7.2
White-collar workers	2,024	1,717	4.3	3.5	3.0	2.3	5.5	4.6
Professional and technical	426	381	3.0	2.6	2.3	2.0	3.9	3.5
Managers and administrators, except farm	276	214	2.8	2.1	2.3	1.7	4.4	3.4
Sales workers	318	256	5.3	4.1	4.0	3.0	6.8	5.5
Clerical workers	1,004	866	5.9	4.9	5.0	4.1	6.1	5.1
Blue-collar workers	2,656	2,323	8.1	6.9	7.4	6.2	11.0	9.7
Craft and kindred workers	708	603	5.6	4.6	5.5	4.6	7.4	6.0
Carpenters and other construction craft	365	322	9.3	7.9	9.2	7.8	(1)	12.5
All other	343	281	4.0	3.2	3.8	3.0	6.9	5.4
Operatives, except transport	1,087	960	9.5	8.1	8.0	6.5	11.7	10.4
Transport equipment operatives	246	195	6.6	5.2	6.6	5.1	6.7	7.4
Nonfarm laborers	616	566	12.0	10.7	12.1	10.8	11.0	9.8
Construction laborers	173	172	17.7	16.1	17.6	16.1	(1)	(1)
All other	443	394	10.7	9.3	10.7	9.3	10.5	9.6
Service workers	1,102	1,029	8.2	7.4	7.5	6.8	8.6	7.8
Private household	60	63	5.0	5.1	(1)	(1)	4.9	5.0
All other	1,042	966	8.5	7.6	7.5	6.8	9.2	8.2
Farm workers	133	110	4.6	3.8	4.0	2.9	7.6	7.5
No previous work experience	940	868	--	--	--	--	--	--
16 to 19 years	704	652	--	--	--	--	--	--
20 to 24 years	152	142	--	--	--	--	--	--
25 years and over	84	73	--	--	--	--	--	--

¹ Percent not shown where base is less than 35,000.

12. Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	100.0	100.0	7.0	6.0	6.2	5.2	8.2	7.2
Nonagricultural private wage and salary workers	72.5	71.5	7.0	5.9	6.4	5.2	8.0	6.8
Mining	.5	.6	3.8	4.1	3.3	4.2	8.6	3.6
Construction	8.5	8.5	12.7	10.6	12.9	10.8	9.8	7.7
Manufacturing	21.1	20.0	6.7	5.5	5.3	4.2	9.7	8.2
Durable goods	11.5	10.7	6.2	4.9	5.3	4.1	8.9	7.4
Lumber and wood products	.9	.9	8.5	7.7	8.7	7.5	7.5	9.2
Furniture and fixtures	.7	.5	8.7	5.8	7.6	4.9	11.4	7.6
Stone, clay, and glass products	.8	.6	7.9	5.5	7.4	4.7	9.6	8.5
Primary metal industries	1.1	.9	5.7	4.2	5.5	3.9	7.1	6.3
Fabricated metal products	1.5	1.3	6.9	5.4	6.5	4.6	8.3	8.0
Machinery, except electrical equipment	1.6	1.4	4.5	3.3	3.9	2.9	6.8	5.2
Electrical equipment	2.0	1.9	6.2	5.1	3.9	3.1	9.4	7.6
Transportation equipment	1.6	1.6	5.2	4.3	4.6	4.0	8.7	5.9
Automobiles	.7	.9	3.9	4.1	3.6	4.0	5.4	4.9
Other transportation equipment	.9	.7	6.9	4.6	6.0	4.1	13.4	7.0
Instruments and related products	.4	.4	5.2	4.4	3.8	2.5	7.0	6.8
Other durable goods industries	.9	1.1	9.3	8.5	6.8	6.3	12.5	11.0
Nondurable goods	9.6	9.4	7.4	6.3	5.3	4.4	10.4	9.0
Food and kindred products	2.7	2.4	9.8	7.4	7.1	5.7	16.2	11.2
Textile mill products	1.1	.9	7.6	6.0	6.7	4.8	8.4	7.3
Apparel and other textile products	2.0	2.1	10.0	9.3	8.4	7.5	10.5	9.8
Paper and allied products	.6	.5	5.2	4.5	3.5	3.2	10.8	8.6
Printing and publishing	1.0	1.2	5.3	4.9	4.3	4.1	6.7	6.1
Chemicals and allied products	.7	.5	4.1	2.7	3.0	1.8	7.4	5.4
Rubber and plastics products	.8	.9	7.1	7.5	5.1	5.2	10.8	11.3
Other nondurable goods industries	.7	.7	7.6	6.9	5.6	4.0	10.6	10.7
Transportation and public utilities	3.5	3.2	4.7	3.7	4.6	3.5	5.0	4.4
Railroads and railway express	.3	.3	3.4	3.5	3.4	3.5	3.6	3.7
Other transportation	2.3	2.1	6.6	5.1	6.7	4.9	6.3	5.8
Communication and other public utilities	.8	.8	2.8	2.2	2.0	1.4	4.3	3.5
Wholesale and retail trade	21.1	20.9	8.0	6.9	6.8	5.6	9.5	8.3
Finance, insurance, and real estate	2.7	2.6	3.9	3.1	3.0	2.7	4.5	3.4
Service industries	15.2	15.7	6.6	5.7	6.4	5.2	6.8	6.0
Professional services	6.3	6.7	4.9	4.3	3.9	3.6	5.4	4.6
All other service industries	8.9	9.0	8.8	7.6	8.6	6.6	9.0	8.4
Agricultural wage and salary workers	2.4	2.2	11.1	8.8	10.0	7.2	15.4	14.5
All other classes of workers	11.4	11.8	3.2	2.9	2.6	2.4	4.0	3.5
No previous work experience	13.7	14.3	--	--	--	--	--	--

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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	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	6,855	6,047	2,727	2,252	2,486	2,236	1,642	1,559	5,373	4,620	1,482	1,427
Job losers.....	3,103	2,514	1,776	1,387	1,012	831	314	296	2,497	1,972	606	542
On layoff.....	853	698	488	387	289	248	77	64	738	593	116	105
Other job losers.....	2,250	1,816	1,288	1,000	723	583	237	232	1,759	1,379	490	437
Job leavers.....	889	851	325	326	411	362	154	164	759	709	130	142
Reentrants.....	1,925	1,814	527	456	927	909	471	448	1,448	1,348	477	467
New entrants.....	938	867	99	82	136	134	703	651	669	591	268	276
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
Job losers.....	45.2	41.5	65.2	61.6	40.7	37.2	19.2	19.0	46.4	42.6	40.9	38.0
On layoff.....	12.4	11.5	17.9	17.2	11.6	11.1	4.7	4.1	13.7	12.8	7.8	7.3
Other job losers.....	32.8	30.0	47.3	44.4	29.1	26.1	14.5	14.9	32.7	29.8	33.1	30.7
Job leavers.....	13.0	14.1	11.9	14.5	16.5	16.2	9.4	10.5	14.1	15.4	8.8	9.9
Reentrants.....	28.1	30.0	19.3	20.3	37.3	40.7	28.7	28.8	27.0	29.2	32.2	32.7
New entrants.....	13.7	14.3	3.6	3.6	5.5	6.0	42.8	41.8	12.5	12.8	18.1	19.4
UNEMPLOYMENT RATE												
Total unemployment rate.....	7.0	6.0	5.2	4.2	7.0	6.0	17.7	16.3	6.2	5.2	13.1	11.9
Job losers rate ¹	3.2	2.5	3.4	2.6	2.8	2.3	3.4	3.1	2.9	2.3	5.3	4.6
On layoff.....	.9	.8	.6	.6	1.2	1.0	1.7	1.7	.9	.8	1.2	1.2
Other job losers.....	2.0	1.8	1.0	.9	2.6	2.4	5.1	4.7	1.7	1.5	4.2	3.9
Job leaver rate ¹	1.0	.9	.2	.2	.4	.4	7.6	6.8	.8	.7	2.4	2.3
Reentrant rate ¹												
New entrant rate ¹												

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

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

[Percent distribution]

Reason, sex, and age	1978						
	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.....	6,047	100.0	46.2	31.0	22.8	12.3	10.5
Job losers.....	2,514	100.0	38.6	32.1	29.3	15.8	13.4
On layoff.....	698	100.0	52.4	31.2	16.3	10.7	5.6
Other job losers.....	1,816	100.0	33.3	32.4	34.3	17.8	16.5
Job leavers.....	851	100.0	50.1	30.3	19.6	11.2	8.5
Reentrants.....	1,814	100.0	52.3	29.8	17.9	9.4	8.4
New entrants.....	867	100.0	51.6	31.1	17.3	9.3	8.0
Males, 20 years and over.....	2,252	100.0	37.9	31.6	30.5	15.5	15.0
Job losers.....	1,387	100.0	35.2	32.3	32.5	16.7	15.8
On layoff.....	387	100.0	49.1	33.3	17.6	11.4	6.2
Other job losers.....	1,000	100.0	29.9	31.9	38.2	18.8	19.4
Job leavers.....	326	100.0	43.3	31.6	25.2	14.1	11.0
Reentrants.....	456	100.0	42.9	30.2	26.9	12.7	14.2
New entrants.....	82	100.0	34.1	28.0	37.8	17.1	20.7
Females, 20 years and over.....	2,236	100.0	47.9	30.4	21.8	11.9	9.9
Job losers.....	831	100.0	38.9	31.9	29.2	16.4	12.9
On layoff.....	248	100.0	52.8	31.0	16.1	10.5	5.6
Other job losers.....	583	100.0	32.9	32.2	34.9	18.8	16.1
Job leavers.....	362	100.0	48.1	31.2	20.7	11.6	9.1
Reentrants.....	909	100.0	55.6	28.6	15.8	8.1	7.7
New entrants.....	134	100.0	51.1	30.8	18.0	9.0	9.0
Both sexes, 16 to 19 years.....	1,559	100.0	55.7	31.2	13.2	8.4	4.7
Job losers.....	296	100.0	53.7	32.1	14.2	10.1	4.1
On layoff.....	64	100.0	72.6	17.7	9.7	8.1	1.6
Other job losers.....	232	100.0	49.1	35.8	15.1	10.3	4.7
Job leavers.....	164	100.0	67.5	26.4	6.1	4.3	1.8
Reentrants.....	448	100.0	55.0	32.1	12.9	8.7	4.2
New entrants.....	651	100.0	54.1	31.5	14.4	8.3	6.1

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

Sex, age, and race	1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,047	5,200	26.3	5.9	71.5	29.2	13.8	6.3	1.53
16 to 19 years	1,559	1,461	17.1	3.1	78.0	24.5	11.9	5.0	1.40
20 to 24 years	1,425	1,237	30.2	6.7	72.4	31.4	13.8	5.2	1.60
25 to 34 years	1,358	1,125	31.6	7.5	68.6	33.3	15.2	6.3	1.62
35 to 44 years	689	558	31.4	7.2	68.1	29.4	14.0	7.0	1.57
45 to 54 years	554	447	27.7	7.4	65.5	29.5	15.7	8.7	1.55
55 to 64 years	338	268	26.1	6.7	63.1	27.6	13.4	12.7	1.50
65 years and over	123	105	20.0	3.8	64.8	23.8	18.1	6.7	1.37
Males, 16 years and over	3,051	2,550	28.4	5.9	72.2	26.6	16.2	8.2	1.57
16 to 19 years	799	744	17.3	2.6	78.9	22.2	14.4	5.5	1.41
20 to 24 years	733	615	32.8	7.2	72.7	29.6	16.3	6.3	1.65
25 to 34 years	655	512	36.9	7.8	69.5	30.9	18.4	8.2	1.72
35 to 44 years	308	234	38.9	8.1	66.7	27.4	15.8	11.5	1.68
45 to 54 years	280	221	28.5	7.2	67.4	26.2	18.6	12.7	1.61
55 to 64 years	195	153	24.8	6.5	64.7	22.9	13.1	17.0	1.49
65 years and over	81	70	18.6	2.9	68.6	22.9	18.6	7.1	1.39
Females, 16 years and over	2,996	2,651	24.3	6.0	70.7	31.6	11.5	4.6	1.49
16 to 19 years	760	717	17.0	3.8	77.3	26.9	9.3	4.5	1.39
20 to 24 years	692	622	27.5	6.3	72.0	33.3	11.4	4.0	1.55
25 to 34 years	703	613	27.1	7.0	67.9	35.4	12.6	4.6	1.54
35 to 44 years	382	324	25.9	6.5	69.1	30.9	12.7	3.7	1.49
45 to 54 years	274	226	27.0	7.5	63.7	32.7	12.4	4.9	1.48
55 to 64 years	144	115	27.8	7.0	60.9	34.8	13.9	7.8	1.52
65 years and over	43	35	22.9	5.7	57.1	22.9	20.0	5.7	1.34
White, 16 years and over	4,620	3,894	24.0	5.8	72.6	30.4	13.7	6.3	1.53
Males	2,365	1,937	26.0	5.7	73.2	27.4	15.7	8.3	1.56
Females	2,255	1,957	22.1	6.0	71.9	33.4	11.7	4.3	1.49
Black and other, 16 years and over	1,427	1,307	33.1	6.2	68.2	25.6	14.2	6.3	1.54
Males	686	613	35.9	6.5	69.2	24.1	17.6	7.5	1.61
Females	741	694	30.5	5.9	67.4	26.8	11.2	5.2	1.47

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or 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 1 method.

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

Sex and reason	1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,047	5,200	26.3	5.9	71.5	29.2	13.8	6.3	1.53
Job losers	2,514	1,809	35.3	7.2	69.9	30.5	15.9	7.4	1.66
Job leavers	851	837	26.4	6.5	74.1	33.8	12.7	4.3	1.58
Reentrants	1,814	1,704	21.5	5.6	69.4	28.3	13.0	7.0	1.45
New entrants	867	851	16.7	3.3	76.4	23.5	12.3	4.6	1.37
Males, 16 years and over	3,051	2,550	28.4	5.9	72.2	26.6	16.2	8.2	1.57
Job losers	1,572	1,137	35.4	7.1	70.6	27.4	16.8	9.2	1.67
Job leavers	406	398	28.1	6.0	74.1	31.2	14.6	5.0	1.59
Reentrants	687	637	22.6	5.2	71.3	24.6	16.3	9.9	1.50
New entrants	385	378	17.2	3.2	76.7	22.5	15.9	5.3	1.41
Females, 16 years and over	2,996	2,651	24.3	6.0	70.7	31.6	11.5	4.6	1.49
Job losers	942	672	35.1	7.4	68.6	35.6	14.3	4.2	1.65
Job leavers	445	439	24.8	6.8	74.0	36.2	11.2	3.6	1.57
Reentrants	1,127	1,066	20.7	5.8	68.4	30.6	10.9	5.4	1.42
New entrants	482	473	16.5	3.4	76.3	24.3	9.5	4.0	1.34

NOTE: See note, table 15.

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17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	6,855	6,047	100.0	100.0	5,432	4,706	100.0	100.0
Less than 5 weeks	2,856	2,793	41.7	46.2	2,054	1,996	37.8	42.4
5 to 14 weeks	2,089	1,875	30.5	31.0	1,677	1,498	30.9	31.8
5 to 10 weeks	1,507	1,377	22.0	22.8	1,198	1,087	22.1	23.1
11 to 14 weeks	582	499	8.5	8.3	479	411	8.8	8.7
15 weeks and over	1,911	1,379	27.9	22.8	1,701	1,213	31.3	25.8
15 to 26 weeks	896	746	13.1	12.3	784	647	14.4	13.7
27 weeks and over	1,015	633	14.8	10.5	917	566	16.9	12.0
27 to 51 weeks	516	322	7.5	5.3	465	290	8.6	6.2
52 weeks and over	499	311	7.3	5.1	452	276	8.3	5.9
Average (mean) duration, in weeks	14.3	11.9	--	--	15.7	13.0	--	--
Median duration, in weeks	7.0	5.9	--	--	8.1	6.7	--	--

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	Median 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			1977	1978	1977	1978
	1978										
Total, 16 years and over	6,047	2,793	1,875	746	633	11.9	5.9	41.7	46.2	27.9	22.8
16 to 21 years	2,223	1,191	699	211	123	8.5	4.7	50.7	53.6	17.8	15.0
16 to 19 years	1,559	868	486	131	74	7.9	4.5	53.1	55.7	15.6	13.2
20 to 24 years	1,425	666	462	177	120	10.7	5.7	42.5	46.7	25.4	20.8
25 to 34 years	1,358	597	423	185	154	12.4	6.4	38.1	43.9	31.0	24.9
35 to 44 years	689	291	208	97	92	13.5	6.8	38.4	42.3	32.4	27.5
45 to 54 years	554	201	173	89	91	16.8	8.8	32.9	36.2	38.8	32.5
55 to 64 years	338	123	92	51	72	19.6	9.2	30.9	36.4	41.3	36.3
65 years and over	123	47	31	16	29	20.3	8.7	33.3	38.2	43.4	36.8
Males, 16 years and over	3,051	1,292	959	424	376	13.4	6.8	38.1	42.4	31.3	26.2
16 to 21 years	1,141	591	359	122	70	8.9	4.8	48.4	51.8	20.0	16.8
16 to 19 years	799	438	248	73	39	8.1	4.6	51.3	54.9	16.9	14.1
20 to 24 years	733	317	241	105	70	11.5	6.5	39.1	43.2	28.8	23.8
25 to 34 years	655	249	215	105	86	14.0	7.9	33.1	38.0	35.5	29.1
35 to 44 years	308	110	92	51	55	16.5	8.6	33.2	35.7	37.9	34.3
45 to 54 years	280	86	87	49	59	19.9	10.5	28.7	30.5	43.9	38.3
55 to 64 years	195	63	56	30	46	22.2	10.2	27.7	32.3	44.5	38.8
65 years and over	81	30	18	11	22	21.7	10.2	32.5	36.6	42.7	40.9
Females, 16 years and over	2,996	1,501	917	322	257	10.5	5.0	45.6	50.1	24.1	19.3
16 to 21 years	1,082	599	340	89	53	8.1	4.5	53.2	55.4	15.3	13.2
16 to 19 years	760	430	238	57	35	7.7	4.4	55.1	56.6	14.2	12.2
20 to 24 years	692	349	221	72	49	9.9	5.0	46.5	50.4	21.5	17.6
25 to 34 years	703	347	207	80	68	10.9	5.1	43.6	49.4	26.0	21.1
35 to 44 years	382	182	116	46	38	11.0	5.6	43.0	47.6	27.5	22.0
45 to 54 years	274	115	86	40	33	13.7	7.0	37.0	42.0	33.7	26.6
55 to 64 years	144	60	36	21	26	16.0	7.6	34.9	41.9	37.3	33.0
65 years and over	43	18	13	5	7	17.5	6.8	34.8	41.4	44.6	29.1
White, 16 years and over	4,620	2,212	1,413	553	442	11.3	5.5	42.6	47.9	27.5	21.5
Males	2,365	1,047	738	314	267	12.6	6.3	39.3	44.3	30.5	24.5
Females	2,255	1,166	675	239	175	9.8	4.8	46.3	51.7	24.2	18.4
Black and other, 16 years and over ..	1,427	581	462	193	191	14.0	7.2	38.2	40.7	29.1	26.9
Males	686	246	221	110	109	15.9	8.6	33.4	35.8	34.5	32.0
Females	741	335	241	83	82	12.3	6.1	43.0	45.2	23.6	22.2
Males, 16 years and over:											
Married, spouse present	1,106	397	355	179	175	15.8	8.6	33.3	35.9	36.4	32.0
Widowed, divorced, or separated	295	118	86	39	52	17.3	7.7	31.0	39.8	39.2	31.0
Single (never married)	1,650	778	518	206	149	11.1	5.6	43.2	47.1	25.7	21.5
Females, 16 years and over:											
Married, spouse present	1,274	636	382	153	103	10.2	5.0	46.2	49.9	25.2	20.1
Widowed, divorced, or separated	543	251	167	59	66	12.4	5.9	38.0	46.2	30.3	23.0
Single (never married)	1,179	614	367	110	88	9.8	4.8	48.4	52.0	19.8	16.8

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median 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			1977	1978	1977	1978
	1978										
OCCUPATION											
White-collar workers	1,717	769	522	224	202	12.6	6.2	39.7	44.8	30.4	24.8
Professional and managerial	595	236	184	79	97	14.9	7.6	36.3	39.7	34.5	29.4
Sales workers	256	122	77	33	23	11.4	5.5	42.5	47.7	28.0	22.1
Clerical workers	866	411	260	112	82	11.4	5.6	41.2	47.5	28.3	22.5
Blue-collar workers	2,323	1,006	736	318	264	12.6	6.5	39.3	43.3	30.4	25.0
Craft and kindred workers	603	248	194	88	72	13.6	6.9	36.7	41.2	32.2	26.6
Operatives, except transport	960	423	297	126	113	12.4	6.4	41.9	44.1	29.3	24.9
Transport equipment operatives	195	76	66	30	24	13.3	7.3	36.4	39.0	32.2	27.4
Nonfarm laborers	566	259	179	74	54	11.6	6.1	38.7	45.7	29.6	22.7
Service workers	1,029	510	315	110	93	11.0	5.1	45.0	49.6	24.5	19.8
INDUSTRY¹											
Agriculture	136	73	42	16	6	8.3	4.7	48.4	53.8	20.8	15.7
Construction	541	241	180	70	50	11.8	6.2	37.1	44.5	31.6	22.3
Manufacturing	1,219	509	372	182	156	13.4	7.0	38.9	41.7	32.4	27.8
Durable goods	650	257	193	105	94	14.3	7.7	37.0	39.6	34.6	30.7
Non-durable goods	569	252	178	77	62	12.4	6.3	41.3	44.2	29.6	24.4
Transportation and public utilities	221	93	67	32	28	13.5	6.9	38.2	42.2	31.1	27.4
Wholesale and retail trade	1,273	616	390	148	119	11.1	5.3	42.5	48.4	26.8	21.0
Finance and service industries	1,467	680	455	172	160	12.1	5.8	41.8	46.4	27.8	22.6
Public administration	193	72	64	31	26	14.1	8.1	35.8	37.4	32.5	29.6
No previous work experience	868	448	270	81	69	10.2	4.8	47.6	51.6	20.3	17.3

¹ Includes wage and salary workers only.

20. Employed persons by sex and age (In thousands)

Age and type of industry	Total		Males		Females	
	1977	1978	1977	1978	1977	1978
All industries	90,546	94,373	53,861	55,491	36,685	38,882
16 to 19 years	7,610	7,981	4,124	4,279	3,486	3,702
16 to 17 years	3,084	3,269	1,704	1,767	1,379	1,502
18 to 19 years	4,526	4,712	2,420	2,512	2,107	2,200
20 to 24 years	12,855	13,498	7,031	7,330	5,824	6,168
25 to 54 years	56,351	58,759	34,164	35,149	22,188	23,609
25 to 34 years	23,140	24,472	14,049	14,629	9,091	9,843
35 to 44 years	16,990	17,938	10,252	10,678	6,739	7,260
45 to 54 years	16,221	16,349	9,863	9,842	6,358	6,507
55 to 64 years	10,966	11,217	6,794	6,892	4,173	4,325
55 to 59 years	6,810	7,003	4,184	4,266	2,625	2,738
60 to 64 years	4,157	4,213	2,609	2,626	1,547	1,587
65 years and over	2,763	2,919	1,749	1,842	1,015	1,077
Nonagricultural industries	87,302	91,031	51,222	52,810	36,080	38,221
16 to 19 years	7,211	7,586	3,793	3,959	3,418	3,627
16 to 17 years	2,867	3,054	1,531	1,596	1,336	1,458
18 to 19 years	4,344	4,532	2,263	2,363	2,082	2,169
20 to 24 years	12,480	13,108	6,717	7,017	5,764	6,091
25 to 54 years	54,739	57,092	32,911	33,861	21,828	23,231
25 to 34 years	22,584	23,858	13,616	14,148	8,969	9,710
35 to 44 years	16,501	17,437	9,875	10,296	6,626	7,141
45 to 54 years	15,653	15,796	9,420	9,417	6,233	6,379
55 to 64 years	10,449	10,680	6,359	6,447	4,090	4,234
55 to 59 years	6,508	6,710	3,935	4,033	2,573	2,677
60 to 64 years	3,941	3,970	2,424	2,414	1,516	1,556
65 years and over	2,423	2,566	1,442	1,527	981	1,038
Agriculture	3,244	3,342	2,639	2,681	605	661
16 to 19 years	399	395	331	320	68	75
16 to 17 years	217	214	174	170	43	44
18 to 19 years	182	180	157	150	25	30
20 to 24 years	375	390	314	313	60	77
25 to 54 years	1,613	1,667	1,253	1,288	360	379
25 to 34 years	556	614	433	481	122	133
35 to 44 years	490	501	376	382	113	119
45 to 54 years	567	553	443	425	125	127
55 to 64 years	517	536	434	445	83	91
55 to 59 years	301	293	249	233	52	60
60 to 64 years	216	243	185	212	31	31
65 years and over	340	354	307	315	33	39

HOUSEHOLD DATA ANNUAL AVERAGES

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	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
	TOTAL	90,546	94,373	49,737	51,212	33,199	35,180	4,124	4,279	3,486	3,702
White-collar workers	45,187	47,205	21,348	21,981	21,453	22,741	660	652	1,726	1,831
Professional and technical	13,692	14,245	7,772	8,066	5,741	5,988	84	97	95	94
Health workers	2,471	2,605	867	915	1,586	1,670	5	3	14	18
Teachers, except college	3,024	2,992	873	863	2,126	2,106	6	5	19	17
Other professional and technical	8,197	8,648	6,032	6,288	2,029	2,212	73	89	62	59
Managers and administrators, except farm	9,662	10,105	7,457	7,687	2,119	2,324	53	56	31	37
Salaried workers	7,821	8,277	6,034	6,279	1,706	1,910	50	51	29	36
Self-employed workers in retail trade	934	895	652	617	277	275	2	2	2	1
Self-employed workers, except retail trade	908	933	771	791	135	138	1	3	1	--
Sales workers	5,728	5,951	2,993	3,056	2,090	2,254	258	230	388	412
Retail trade	3,124	3,172	972	976	1,588	1,633	203	180	361	383
Other industries	2,604	2,779	2,021	2,079	502	621	55	49	27	29
Clerical workers	16,106	16,904	3,126	3,172	11,503	12,175	265	269	1,212	1,288
Stenographers, typists, and secretaries	4,510	4,729	69	69	4,086	4,290	6	6	348	365
Other clerical workers	11,596	12,175	3,057	3,103	7,417	7,885	259	263	864	923
Blue-collar workers	30,211	31,531	22,596	23,367	4,948	5,313	2,260	2,398	407	454
Craft and kindred workers	11,881	12,386	10,841	11,213	560	653	440	476	39	44
Carpenters	1,171	1,253	1,081	1,166	8	10	80	75	2	2
Construction craft, except carpenters	2,404	2,508	2,271	2,351	22	31	108	120	3	6
Mechanics and repairers	3,180	3,335	2,992	3,124	42	47	143	161	2	2
Metal craft	1,229	1,213	1,164	1,145	34	34	29	33	1	1
Blue-collar worker supervisors, not elsewhere classified	1,554	1,671	1,403	1,496	137	164	11	9	3	2
All other	2,343	2,404	1,930	1,930	317	366	69	77	28	31
Operatives, except transport	10,354	10,875	5,607	5,858	3,832	4,025	651	696	264	296
Durable goods manufacturing	4,613	4,909	2,893	3,031	1,436	1,538	201	232	84	108
Nondurable goods manufacturing	3,367	3,479	1,284	1,354	1,840	1,874	117	119	126	132
Other industries	2,373	2,487	1,430	1,473	556	612	334	345	54	56
Transport equipment operatives	3,476	3,541	3,065	3,096	222	242	173	188	16	15
Drivers, motor vehicles	2,921	3,011	2,563	2,606	204	230	140	161	14	13
All other	555	530	502	490	17	12	33	26	2	2
Nonfarm laborers	4,500	4,729	3,083	3,200	334	393	995	1,038	88	98
Construction	807	895	631	700	10	15	162	175	4	5
Manufacturing	1,069	1,106	805	818	121	143	135	132	8	13
Other industries	2,624	2,728	1,648	1,682	203	235	698	730	75	81
Service workers	12,392	12,839	3,792	3,844	6,376	6,673	922	968	1,301	1,361
Private household workers	1,158	1,162	21	14	886	894	15	13	236	240
Service workers, except private household	11,234	11,677	3,772	3,829	5,490	5,779	908	947	1,065	1,121
Food service workers	4,095	4,283	741	753	2,075	2,170	548	501	732	779
Protective service workers	1,324	1,358	1,198	1,220	99	111	21	23	5	4
All other	5,815	6,036	1,833	1,856	3,316	3,498	339	343	328	336
Farm workers	2,756	2,798	2,001	2,020	421	453	282	269	52	56
Farmers and farm managers	1,459	1,480	1,353	1,332	92	130	14	17	1	1
Farm laborers and supervisors	1,296	1,318	648	688	329	323	267	252	51	55
Paid workers	973	1,019	613	655	126	132	199	195	35	37
Unpaid family workers	323	299	35	33	203	191	69	57	16	18

HOUSEHOLD DATA ANNUAL AVERAGES

22. Employed persons by occupation, sex, and race

[Percent distribution]

Occupation and race	Total		Males		Females	
	1977	1978	1977	1978	1977	1978
TOTAL						
Total, 16 years and over (thousands)	90,546	94,373	53,861	55,491	36,685	38,882
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	49.9	50.0	40.9	40.8	63.2	63.2
Professional and technical	15.1	15.1	14.6	14.7	15.9	15.6
Managers and administrators, except farm	10.7	10.7	13.9	14.0	5.9	6.1
Sales workers	6.3	6.3	6.0	5.9	6.8	6.9
Clerical workers	17.8	17.9	6.3	6.2	34.7	34.6
Blue-collar workers	33.4	33.4	46.1	46.4	14.6	14.8
Craft and kindred workers	13.1	13.1	20.9	21.1	1.6	1.8
Operatives, except transport	11.4	11.5	11.6	11.8	11.2	11.1
Transport equipment operatives	3.8	3.8	6.0	5.9	.6	.7
Nonfarm laborers	5.0	5.0	7.6	7.6	1.2	1.3
Service workers	13.7	13.6	8.8	8.7	20.9	20.7
Private household workers	1.3	1.2	.1	(1)	3.1	2.9
Other service workers	12.4	12.4	8.7	8.6	17.9	17.7
Farm workers	3.0	3.0	4.2	4.1	1.3	1.3
Farmers and farm managers	1.6	1.6	2.5	2.4	.3	.3
Farm laborers and supervisors	1.4	1.4	1.7	1.7	1.0	1.0
White						
Total, 16 years and over (thousands)	80,734	83,836	48,578	49,893	32,156	33,943
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.7	51.8	42.4	42.4	65.6	65.5
Professional and technical	15.5	15.5	15.1	15.3	16.1	15.9
Managers and administrators, except farm	11.4	11.4	14.8	14.8	6.3	6.5
Sales workers	6.8	6.7	6.4	6.3	7.3	7.4
Clerical workers	18.0	18.0	6.1	6.0	35.9	35.7
Blue-collar workers	32.9	32.9	45.3	45.6	14.1	14.3
Craft and kindred workers	13.6	13.7	21.5	21.7	1.7	1.9
Operatives, except transport	11.0	11.0	11.3	11.4	10.6	10.5
Transport equipment operatives	3.7	3.6	5.7	5.6	.7	.7
Nonfarm laborers	4.6	4.6	6.8	7.0	1.1	1.2
Service workers	12.3	12.3	7.9	7.8	19.0	18.8
Private household workers	.9	.9	.1	(1)	2.2	2.2
Other service workers	11.4	11.4	7.9	7.8	16.7	16.6
Farm workers	3.1	3.0	4.3	4.2	1.3	1.4
Farmers and farm managers	1.8	1.7	2.7	2.6	.3	.4
Farm laborers and supervisors	1.4	1.3	1.6	1.5	1.1	1.0
Black and other						
Total, 16 years and over (thousands)	9,812	10,537	5,283	5,599	4,529	4,938
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.3	36.2	26.3	26.7	45.8	47.1
Professional and technical	11.8	11.7	9.6	9.8	14.3	13.8
Managers and administrators, except farm	4.8	4.8	6.4	6.5	2.9	2.9
Sales workers	2.6	2.8	2.6	2.6	2.6	3.1
Clerical workers	16.1	16.9	7.7	7.8	26.0	27.2
Blue-collar workers	37.6	37.2	54.0	53.6	18.4	18.6
Craft and kindred workers	9.0	8.8	15.5	15.4	1.3	1.3
Operatives, except transport	15.1	15.5	14.8	15.7	15.5	15.3
Transport equipment operatives	5.2	5.0	9.3	8.9	.4	.5
Nonfarm laborers	8.3	7.9	14.4	13.6	1.2	1.4
Service workers	25.0	24.1	16.5	15.9	34.9	33.4
Private household workers	4.2	3.6	.2	.1	8.9	7.7
Other service workers	20.8	20.5	16.3	15.8	26.0	25.8
Farm workers	2.2	2.4	3.2	3.9	.9	.9
Farmers and farm managers	.4	.5	.7	.8	(1)	.1
Farm laborers and supervisors	1.8	2.0	2.6	3.0	.9	.7

¹ Less than 0.05 percent.

HOUSEHOLD DATA ANNUAL AVERAGES

23. Employed persons by detailed occupation, sex, and race

(Numbers in thousands)

Occupations	1978			Occupations	1978		
	Total employed	Percent of total			Total employed	Percent of total	
		Female	Black and other			Female	Black and other
Total, 16 years and over	94,373	41.2	11.2				
White-collar workers	47,205	52.1	8.1	White-collar workers—Continued			
Professional and technical	14,245	42.7	8.7	Managers and administrators—Continued			
Accountants	975	30.1	7.5	Inspectors, except construction and public administration	98	15.3	7.1
Architects	69	5.8	5.8	Managers and superintendents, building	157	50.3	6.4
Computer specialists	428	23.1	6.5	Office managers, n.e.c.	370	65.1	2.4
Computer programmers	247	26.7	6.5	Officials and administrators; public administration n.e.c.	420	24.8	9.0
Computer systems analysts	152	21.1	7.2	Officials of lodges, societies, and unions	121	27.3	7.4
Engineers	1,265	2.8	5.5	Restaurant, cafeteria, and bar managers	589	33.8	8.7
Aeronautical and astronautical engineers	59	—	3.4	Sales managers and department heads, retail trade	343	37.3	5.0
Civil engineers	160	1.9	8.1	Sales managers, except retail trade	330	7.0	1.9
Electrical and electronic engineers	329	1.8	6.4	School administrators, college	108	32.4	10.7
Industrial engineers	206	8.7	5.3	School administrators, elementary and secondary	275	35.6	12.4
Mechanical engineers	216	.9	5.1	All other managers and administrators	6,118	16.6	4.2
Foresters and conservationists	58	6.9	3.4	Sales workers	5,951	44.8	5.0
Lawyers and judges	499	9.4	2.6	Advertising agents and sales workers	96	35.4	2.1
Lawyers	479	9.4	2.7	Demonstrators	96	94.8	4.2
Librarians, archivists, and curators	202	80.7	6.9	Hucksters and peddlers	203	80.8	5.4
Librarians	187	84.5	7.0	Insurance agents, brokers, and underwriters	548	20.3	6.8
Life and physical scientists	273	17.9	9.2	Newspaper carriers and vendors	93	29.0	6.5
Biological scientists	58	37.9	12.1	Real estate agents and brokers	555	45.0	2.7
Chemists	118	14.4	11.9	Stock and bond sales agents	109	.2	3.7
Operations and systems researchers and analysts	129	21.7	6.2	Sales workers and sales clerks, n.e.c.	4,247	46.4	5.2
Personnel and labor relations workers	405	43.7	12.3	Sales representatives, manufacturing industries	386	14.5	3.1
Physicians, dentists and related practitioners	756	10.4	7.3	Sales representatives, wholesale trade	840	9.4	3.8
Dentists	117	1.7	4.3	Sales clerks, retail trade	2,338	71.5	6.4
Pharmacists	136	16.9	6.6	Sales workers, except clerks, retail trade	513	17.5	2.9
Physicians, medical and osteopathic	424	11.3	9.7	Sales workers, services and construction	169	43.2	7.7
Nurses, dietitians, and therapists	1,351	92.9	11.7	Clerical workers	16,904	79.6	10.5
Registered nurses	1,112	96.7	11.7	Bank tellers	449	91.5	8.0
Therapists	189	70.4	9.0	Billing clerks	168	88.1	7.7
Health technologists and technicians	498	70.9	12.9	Bookkeepers	1,830	90.7	5.0
Clinical laboratory technologists and technicians	208	73.6	14.4	Cashiers	1,403	87.1	10.6
Radiologic technologists and technicians	97	67.0	9.3	Clerical supervisors, n.e.c.	204	63.2	11.3
Religious workers	325	14.8	8.9	Collectors, bill and account	78	57.7	11.5
Clergy	262	3.8	3.1	Counter clerks, except food	377	77.2	10.1
Social scientists	255	33.7	7.8	Dispatchers and starters, vehicle	97	30.9	9.3
Economists	118	22.9	8.5	Enumerators and interviewers	53	75.5	15.9
Psychologists	106	48.1	8.5	Estimators and investigators, n.e.c.	451	53.4	10.6
Social and recreation workers	505	61.0	19.2	Expeditors and production controllers	224	32.1	8.0
Social workers	385	62.3	19.0	File clerks	273	85.7	23.4
Recreation workers	121	57.0	20.7	Insurance adjusters, examiners, and investigators	169	51.5	11.2
Teachers, college and university	562	33.8	7.1	Library attendants and assistants	172	80.8	11.0
Teachers, except college and university	2,992	71.0	9.8	Mail carriers, post office	256	11.7	9.4
Adult education teachers	81	49.4	11.1	Mail handlers, except post office	162	49.4	19.1
Elementary school teachers	1,304	84.0	10.6	Messengers and office helpers	87	28.7	20.7
Prakindergarten and kindergarten teachers	299	96.5	15.7	Office machine operators	827	74.2	15.4
Secondary school teachers	1,154	51.6	8.8	Bookkeeping and billing machine operators	45	86.7	13.3
Teachers except college and university, n.e.c.	224	75.9	4.5	Computer and peripheral equipment operators	393	58.3	13.2
Engineering and science technicians	985	13.4	7.5	Key punch operators	273	95.6	18.3
Chemical technicians	76	21.1	6.6	Payroll and timekeeping clerks	241	75.5	7.1
Drafters	296	11.1	5.4	Postal clerks	267	32.2	24.7
Electrical and electronic engineering technicians	227	7.9	11.0	Receptionists	588	96.9	9.5
Surveyors	82	2.4	2.4	Secretaries	3,590	99.2	6.2
Technicians, except health, engineering and science	173	17.3	5.8	Secretaries, legal	162	99.4	3.1
Aircraft pilots	69	1.4	1.4	Secretaries, medical	83	98.8	7.2
Radio operators	53	47.2	9.4	Secretaries, n.e.c.	3,345	99.2	6.3
Vocational and educational counselors	171	52.6	14.6	Shipping and receiving clerks	461	22.8	14.8
Writers, artists, and entertainers	1,193	35.5	5.1	Statistical clerks	377	76.1	11.7
Athletes and kindred workers	101	40.6	4.0	Stenographers	94	90.4	10.6
Designers	161	27.3	6.8	Stock clerks and storekeepers	507	31.2	12.8
Editors and reporters	184	42.4	4.9	Teachers aides, except school monitors	342	92.1	18.1
Musicians and composers	149	30.9	7.4	Telephone operators	311	94.2	12.5
Painters and sculptors	186	44.6	2.2	Ticket, station, and express agents	128	40.6	11.7
Photographers	93	14.0	5.4	Typists	1,044	96.6	16.2
Public relations specialists and publicity writers	131	40.5	4.6	All other clerical workers	1,674	41.9	14.3
Research workers, not specified	122	32.0	10.7	Blue-collar workers	31,531	18.3	12.4
All other professional and technical workers	54	37.0	11.1	Craft and kindred workers	12,386	5.6	7.5
Managers and administrators, except farm	10,105	23.4	5.0	Carpenters	1,253	1.0	5.3
Bank officials and financial managers	573	30.4	4.4	Brickmasons and stonemasons	204	—	15.2
Buyers and purchasing agents	370	30.5	4.6	Cement and concrete finishers	83	—	36.1
Buyers, wholesale and retail trade	170	40.0	5.3	Electricians	590	.8	4.4
Credit and collection managers	49	36.7	2.0	Excavating, grading, and road machinery operators	425	—	8.5
Health administrators	184	46.2	7.6	Painters, construction and maintenance	484	5.2	9.1

HOUSEHOLD DATA ANNUAL AVERAGES

23. Employed persons by detailed occupation, sex, and race—Continued

(Numbers in thousands)

Occupations	1978			Occupations	1978		
	Total employed	Percent of total			Total employed	Percent of total	
		Females	Black and other			Females	Black and other
Blue-collar workers—Continued				Blue-collar workers—Continued			
Craft and kindred workers—Continued				Operatives, except transport—Continued			
Plumbers and pipefitters	428	.7	7.0	Shoemaking machine operatives	78	76.9	7.7
Structural metal craft workers	78	—	3.8	Furnace tenders and stokers, except metal	71	1.4	14.1
Roofers and slaters	114	.9	10.5	Textile operatives	374	59.9	25.7
Blue-collar worker supervisors, n.e.c.	1,671	9.9	7.0	Spinners, twistors, and winders	151	66.2	29.1
Machinists and job setters	591	3.0	6.6	Welders and flame cutters	679	6.0	11.0
Job and die setters, metal	98	3.1	7.1	Winding operatives, n.e.c.	68	54.4	13.2
Machinists	493	3.1	6.5	All other operatives, except transport	3,181	33.4	14.8
Metal craft workers, excluding mechanics, machinists, and job setters	622	2.7	6.8	Transport equipment operatives	3,541	7.3	14.9
Millwrights	95	—	4.2	Busdrivers	337	45.1	21.1
Molders, metal	54	13.0	20.4	Delivery and route workers	579	6.6	8.1
Sheetmetal workers and tinsmiths	153	1.3	5.2	Fork lift and tow motor operatives	363	2.8	19.8
Tool and die makers	182	1.1	2.2	Railroad switch operators	52	—	9.6
Mechanics, automobiles	1,209	.6	8.9	Taxicab drivers and chauffeurs	172	9.9	24.4
Automobile body repairers	184	1.1	9.8	Truck drivers	1,923	1.9	13.9
Automobile mechanics	1,024	.6	8.7	All other transport equipment operatives	115	2.6	20.0
Mechanics, except automobiles	2,126	2.0	6.6	Nonfarm laborers	4,729	10.4	17.7
Air conditioning, heating, and refrigeration mechanics	210	1.0	4.8	Animal caretakers	83	51.8	9.6
Aircraft mechanics	132	3.0	8.3	Construction laborers including carpenters' helpers	953	2.7	18.6
Data processing machine repairers	63	4.8	7.9	Freight and material handlers	798	8.5	19.9
Farm implement mechanics	62	—	3.2	Garbage collectors	79	5.1	32.9
Heavy equipment mechanics, including diesel	950	1.6	6.5	Gardeners and grounds keepers, except farm	614	5.9	17.1
Household appliance and accessory installers and mechanics	145	2.1	8.3	Timber cutting and logging workers	90	1.1	26.7
Office machine repairers	63	1.6	11.1	Stockhandlers	915	23.5	10.9
Radio and television repairers	131	3.1	5.3	Vehicle washers and equipment cleaners	199	12.6	17.6
Railroad and car shop mechanics	49	—	14.3	Warehouse laborers, n.e.c.	262	4.2	14.9
Printing craft workers	417	21.8	7.9	All other nonfarm laborers	736	8.4	22.0
Compositors and typesetters	181	28.7	9.4	Service workers	12,839	62.6	19.8
Printing press operators	169	10.1	7.7	Private households	1,162	97.7	33.0
Bakers	128	48.4	10.2	Child care workers	486	98.1	7.6
Cabinetmakers	78	2.6	5.1	Cleaners and servants	530	97.0	52.5
Carpet installers	68	1.5	7.4	Housekeepers	118	99.2	44.1
Crane, derrick, and hoist operators	156	2.6	16.7	Service workers, except private households	11,677	59.1	18.5
Decorators and window dressers	125	70.4	6.4	Cleaning workers	2,430	35.3	28.1
Electric power line and cable installers and repairers	111	.9	3.6	Lodging quarters cleaners	179	97.2	40.8
Inspectors, n.e.c.	139	8.6	11.5	Building interior cleaners, n.e.c.	862	53.6	32.3
Locomotive engineers	54	1.9	3.7	Janitors and sextons	1,389	16.0	24.0
Stationary engineers	179	1.1	6.7	Food service workers	4,283	68.9	13.7
Tailors	45	31.1	11.1	Bartenders	282	39.4	6.4
Telephone installers and repairers	297	6.7	5.4	Waiters' assistants	215	20.9	13.5
Telephone line installers and repairers	77	2.6	3.9	Cooks	1,186	57.2	20.2
Upholsterers	59	23.7	11.9	Dishwashers	240	34.2	17.1
All other craft workers	575	15.3	8.0	Food counter and fountain workers	463	85.7	11.4
Operatives, except transport	10,875	39.7	15.0	Waiters	1,383	90.5	7.2
Assemblers	1,164	52.1	16.4	Food service workers, n.e.c.	514	74.7	20.6
Bottling and canning operatives	56	44.6	17.9	Health service workers	1,846	89.9	23.6
Checkers, examiners, and inspectors; manufacturing	736	48.8	11.8	Dental assistants	130	98.5	3.8
Clothing ironers and pressers	126	80.2	42.9	Health aides, excluding nursing	276	86.2	19.6
Cutting operatives, n.e.c.	263	31.9	14.4	Nursing aides, orderlies, and attendants	1,037	87.0	27.6
Dressmakers, except factory	116	97.4	12.1	Practical nurses	402	97.0	22.4
Drillers, earth	51	3.9	5.9	Personal service workers	1,760	74.0	15.3
Dry wall installers and lathers	105	1.0	10.5	Attendants	306	57.2	13.1
Filters, polishers, sanders, and buffers	129	29.5	12.4	Barbers	121	9.1	14.0
Furnace tenders, smelters, and pourers, metal	61	4.9	24.6	Child care workers	425	94.8	15.3
Garage workers and gas station attendants	416	4.8	9.4	Hairdressers and cosmetologists	542	89.1	9.2
Laundry and dry cleaning operatives, n.e.c.	174	67.8	26.4	Housekeepers, excluding private households	135	68.1	19.3
Meat cutters and butchers, except manufacturing	204	6.4	9.8	Welfare service aides	96	87.5	34.4
Meat cutters and butchers, manufacturing	114	28.9	19.3	Protective service workers	1,358	8.5	13.5
Mine operatives, n.e.c.	177	2.3	5.1	Fire fighters	221	.5	7.2
Mixing operatives	85	3.5	20.0	Guards	548	9.7	20.1
Packers and wrappers, excluding meat and produce	675	62.5	17.6	Police and detectives	475	5.9	9.9
Painters, manufactured articles	182	14.8	13.7	Sheriffs and bailiffs	60	5.0	5.0
Photographic process workers	96	50.0	12.5	Farm workers	2,798	18.2	9.2
Precision machine operatives	386	11.1	7.5	Farmers and farm managers	1,480	8.9	3.4
Drill press operatives	64	23.4	7.8	Farmers (owners and tenants)	1,445	8.9	3.5
Grinding machine operatives	129	7.8	8.5	Farm laborers and supervisors	1,318	28.6	15.7
Lathe and milling machine operatives	125	8.8	5.6	Farm laborers, wage workers	972	17.2	20.2
Punch and stamping press operatives	156	30.1	14.7	Farm laborers, unpaid family workers	299	69.6	2.7
Sawyers	138	10.1	17.4				
Sewers and stitchers	814	94.8	17.4				

NOTE: N.E.C. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified.

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24. Employed persons by class of worker, age, and sex

[In thousands]

Age and sex	1978								
	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	84,254	1,369	15,288	67,603	6,305	472	1,418	1,607	316
16 to 19 years	7,467	323	605	6,539	87	32	288	31	76
18 to 17 years	2,994	243	224	2,528	42	18	154	12	48
18 to 19 years	4,473	80	382	4,011	45	14	134	19	27
20 to 24 years	12,750	101	1,592	11,058	332	26	266	96	28
25 to 34 years	22,353	156	4,403	17,793	1,422	83	310	254	49
35 to 44 years	15,867	144	3,300	12,423	1,444	127	176	277	48
45 to 54 years	14,286	208	3,104	10,974	1,391	119	163	329	61
55 to 64 years	9,513	250	1,981	7,282	1,108	60	140	358	38
65 to 69 years	6,032	130	1,288	4,613	638	41	78	191	24
70 to 74 years	3,461	120	692	2,669	470	19	62	167	14
75 years and over	2,018	181	303	1,534	522	25	76	262	16
Males, 16 years and over	48,238	177	7,722	40,339	4,529	43	1,135	1,455	91
16 to 19 years	3,884	77	279	3,529	55	20	236	27	57
18 to 17 years	1,558	59	107	1,393	25	13	124	10	36
18 to 19 years	2,326	18	172	2,136	29	7	112	16	22
20 to 24 years	6,787	20	658	6,108	222	9	209	87	17
25 to 34 years	13,151	13	2,209	10,929	994	3	289	224	8
35 to 44 years	9,261	6	1,698	7,557	1,034	1	133	248	1
45 to 54 years	8,366	11	1,636	6,739	1,029	2	125	299	1
55 to 64 years	5,623	22	1,072	4,529	822	2	114	329	2
65 to 69 years	3,552	10	695	2,847	480	1	60	171	1
70 to 74 years	2,071	12	377	1,683	342	1	54	158	1
75 years and over	1,146	28	171	947	374	7	69	240	5
Females, 16 years and over	36,016	1,186	7,566	27,264	1,776	429	283	153	225
16 to 19 years	3,583	246	326	3,010	32	13	52	4	18
18 to 17 years	1,436	184	117	1,135	16	6	30	1	12
18 to 19 years	2,147	62	210	1,875	16	7	22	2	6
20 to 24 years	5,963	81	933	4,950	110	17	57	9	11
25 to 34 years	9,203	144	2,195	6,864	427	80	61	30	41
35 to 44 years	6,605	137	1,603	4,865	410	126	43	29	46
45 to 54 years	5,900	197	1,469	4,234	363	117	37	31	59
55 to 64 years	3,890	228	909	2,753	286	58	26	29	37
65 to 69 years	2,480	120	593	1,767	158	40	18	20	23
70 to 74 years	1,410	108	316	986	128	18	8	9	14
75 years and over	872	153	132	587	148	18	6	21	11

25. Employed persons by industry and occupation

[In thousands]

Industry	1978											
	Total employed	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	Farm workers
Total, 16 years and over:												
Agriculture	3,342	66	32	10	78	48	19	46	237	--	7	2,798
Mining	828	112	75	7	93	220	239	50	25	--	8	--
Construction	6,043	167	712	23	405	3,339	277	191	895	--	33	--
Manufacturing	21,497	2,147	1,502	479	2,507	4,144	8,388	803	1,106	--	422	--
Durable goods	12,821	1,417	878	181	1,439	2,719	4,909	393	651	--	235	--
Nondurable goods	8,676	730	624	298	1,068	1,425	3,479	410	455	--	187	--
Transportation and public utilities	6,162	518	573	46	1,382	1,382	162	1,462	492	--	187	--
Wholesale and retail trade	19,253	375	3,675	4,000	3,329	1,469	1,009	725	1,194	--	3,476	--
Wholesale trade	3,616	123	761	828	739	318	187	366	264	--	32	--
Retail trade	15,636	252	2,915	3,172	2,590	1,151	822	359	930	--	3,445	--
Finance, insurance, and real estate	5,406	275	1,046	1,213	2,431	101	8	7	73	--	254	--
Services	26,821	9,629	1,852	171	4,870	1,415	725	203	552	1,162	6,241	--
Private households	1,396	13	--	--	9	5	2	6	142	1,162	57	--
Other service industries	25,425	9,616	1,852	171	4,861	1,410	723	197	410	--	6,184	--
Public administration	5,020	957	637	2	1,810	309	48	55	154	--	1,048	--

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26. Employed persons in nonagricultural industries by class of worker and sex

(In thousands)

Industry	1978					
	Total employed	Wage and salary workers			Self-employed workers	Unpaid family workers
		Total	Government	Private industries		
TOTAL						
Both sexes, 16 years and over:						
Mining	828	805	1	804	21	2
Construction	6,043	4,924	552	4,371	1,072	47
Manufacturing	21,497	21,151	126	21,026	316	29
Durable goods	12,821	12,605	89	12,516	198	18
Nondurable goods	8,676	8,546	37	8,509	119	11
Transportation and public utilities	6,162	5,911	825	5,086	241	10
Wholesale and retail trade	19,253	17,271	109	17,162	1,731	251
Wholesale trade	3,616	3,355	3	3,353	239	22
Retail trade	15,636	13,915	107	13,809	1,492	229
Finance, insurance, and real estate	5,406	4,984	117	4,868	394	28
Services	26,821	24,187	8,538	15,649	2,530	104
Private households	1,396	1,363	--	1,363	33	--
Other service industries	25,425	22,824	8,538	14,286	2,497	104
Business repair	3,490	2,816	33	2,783	633	42
Personal	2,430	1,672	11	1,661	735	22
Entertainment and recreation	1,018	887	115	772	127	4
Professional	18,327	17,331	8,301	9,030	964	33
Medical, except hospital	2,933	2,582	437	2,145	334	17
Hospitals	3,781	3,776	1,179	2,599	3	--
Welfare and religion	1,525	1,499	587	912	26	1
Education	7,625	7,483	5,980	1,503	141	1
Other	2,464	1,989	117	1,872	460	14
Forestry and fisheries	159	118	79	39	38	3
Public administration	5,020	5,020	5,020	--	--	--
Males						
Mining	731	711	1	710	20	--
Construction	5,630	4,581	514	4,067	1,045	4
Manufacturing	14,943	14,682	91	14,591	258	3
Durable goods	9,720	9,543	70	9,473	175	2
Nondurable goods	5,223	5,139	21	5,118	83	1
Transportation and public utilities	4,722	4,499	649	3,851	222	1
Wholesale and retail trade	10,489	9,334	46	9,288	1,130	26
Wholesale trade	2,717	2,503	2	2,502	213	1
Retail trade	7,772	6,830	44	6,786	917	25
Finance, insurance, and real estate	2,403	2,095	68	2,027	305	2
Services	10,561	9,004	3,022	5,982	1,549	8
Private households	178	177	--	177	1	--
Other service industries	10,383	8,827	3,022	5,805	1,548	8
Business repair	2,420	1,890	18	1,872	524	5
Personal	803	575	3	572	227	1
Entertainment and recreation	638	546	68	478	91	1
Professional	6,389	5,718	2,871	2,847	670	1
Medical, except hospital	752	492	140	351	260	--
Hospitals	915	913	366	547	2	--
Welfare and religion	632	617	167	449	15	--
Education	2,664	2,640	2,113	527	23	--
Other	1,426	1,056	84	972	369	1
Forestry and fisheries	134	98	61	36	36	--
Public administration	3,331	3,331	3,331	--	--	--
Females						
Mining	97	94	--	94	1	2
Construction	413	343	38	305	27	43
Manufacturing	6,554	6,469	35	6,434	58	26
Durable goods	3,101	3,062	19	3,043	23	16
Nondurable goods	3,453	3,407	16	3,391	36	10
Transportation and public utilities	1,441	1,412	177	1,236	19	10
Wholesale and retail trade	8,764	7,937	63	7,874	601	225
Wholesale trade	899	852	1	851	25	21
Retail trade	7,865	7,085	62	7,023	576	204
Finance, insurance, and real estate	3,004	2,889	48	2,841	89	26
Services	16,259	15,183	5,516	9,667	981	96
Private households	1,218	1,186	--	1,186	32	--
Other service industries	15,041	13,997	5,516	8,481	949	96
Business repair	1,071	925	15	910	109	37
Personal	1,627	1,097	8	1,090	509	21
Entertainment and recreation	380	341	46	294	36	4
Professional	11,938	11,613	5,429	6,184	294	32
Medical, except hospital	2,181	2,090	297	1,793	74	17
Hospitals	2,865	2,864	813	2,052	1	--
Welfare and religion	893	882	420	463	10	1
Education	4,961	4,843	3,867	976	117	1
Other	1,038	933	33	900	91	14
Forestry and fisheries	25	21	18	3	2	3
Public administration	1,689	1,689	1,689	--	--	--

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27. Employed persons by industry, occupation, and sex

(Percent distribution)

Industry and sex	1978												Farm workers
	Total employed		White-collar workers				Blue-collar workers				Service workers		
	Numbers (in thousands)	Percent	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	
Total													
Agriculture	3,342	100.0	2.0	1.0	.3	2.3	1.4	.6	1.4	7.1	--	.2	83.7
Mining	828	100.0	13.5	9.0	.8	11.2	26.5	28.8	6.0	3.0	--	1.0	--
Construction	6,043	100.0	2.8	11.8	.4	6.7	55.3	4.6	3.2	14.8	--	.5	--
Manufacturing	21,497	100.0	10.0	7.0	2.2	11.7	19.3	39.0	3.7	5.1	--	2.0	--
Durable goods	12,821	100.0	11.1	6.8	1.4	11.2	21.2	38.3	3.1	5.1	--	1.8	--
Nondurable goods	8,676	100.0	8.4	7.2	3.4	12.3	16.4	40.1	4.7	5.2	--	2.2	--
Transportation and public utilities	6,162	100.0	8.4	9.3	.7	22.4	21.8	2.6	23.7	8.0	--	3.0	--
Wholesale and retail trade	19,253	100.0	1.9	19.1	20.8	17.3	7.6	5.2	3.8	6.2	--	18.1	--
Wholesale trade	3,616	100.0	3.4	21.0	22.9	20.4	8.8	5.2	10.1	7.3	--	.9	--
Retail trade	15,636	100.0	1.6	18.6	20.3	16.6	7.4	5.3	2.3	5.9	--	22.0	--
Finance, insurance, and real estate	5,406	100.0	5.1	19.3	22.4	45.0	1.9	.1	.1	1.3	--	4.7	--
Services	26,821	100.0	35.9	6.9	.6	18.2	5.3	2.7	.8	2.1	4.3	23.3	--
Private households	1,396	100.0	.9	--	--	.6	.4	.1	.4	10.2	83.2	4.1	--
Other service industries	25,425	100.0	37.8	7.3	.7	19.1	5.5	2.8	.8	1.6	--	24.3	--
Public administration	5,020	100.0	19.1	12.7	--	36.1	6.2	1.0	1.1	3.1	--	20.9	--
Males													
Agriculture	2,681	100.0	1.7	1.0	.2	.2	1.8	.6	1.6	7.3	--	.2	85.3
Mining	731	100.0	13.3	9.6	1.0	3.3	30.0	32.0	6.7	3.3	--	1.0	--
Construction	5,630	100.0	2.8	12.2	.3	1.8	58.7	4.8	3.4	15.6	--	.5	--
Manufacturing	14,943	100.0	12.0	8.9	2.6	5.4	25.5	31.7	5.2	6.4	--	2.3	--
Durable goods	9,720	100.0	13.0	8.2	1.7	5.3	26.4	33.6	3.9	5.9	--	2.0	--
Nondurable goods	5,223	100.0	10.2	10.3	4.4	5.5	23.8	28.2	7.7	7.2	--	2.9	--
Transportation and public utilities	4,722	100.0	9.2	10.0	.6	9.4	27.8	3.2	27.3	10.1	--	2.4	--
Wholesale and retail trade	10,489	100.0	2.5	26.3	18.2	5.1	12.3	7.0	6.6	9.8	--	12.2	--
Wholesale trade	2,717	100.0	3.6	25.0	27.7	6.0	11.1	4.1	13.1	8.4	--	1.0	--
Retail trade	7,772	100.0	2.1	26.8	14.9	4.8	12.8	8.0	4.3	10.3	--	16.1	--
Finance, insurance, and real estate	2,403	100.0	7.0	29.0	34.6	14.4	4.0	.1	.2	2.8	--	7.8	--
Services	10,561	100.0	42.5	11.6	.9	4.7	12.4	3.5	1.7	4.6	.3	17.8	--
Private households	178	100.0	.6	--	--	.6	2.8	.6	2.2	75.8	15.2	2.2	--
Other service industries	10,383	100.0	43.3	11.8	.9	4.8	12.5	3.5	1.7	3.4	--	18.1	--
Public administration	3,331	100.0	21.3	14.2	--	20.8	9.0	1.2	1.5	4.0	--	27.9	--
Females													
Agriculture	661	100.0	3.0	.8	.8	10.9	.2	.6	.5	6.2	--	.5	76.8
Mining	97	100.0	15.3	5.1	--	70.4	1.0	5.1	1.0	1.0	--	1.0	--
Construction	413	100.0	2.7	6.1	1.2	74.1	8.2	1.0	.5	4.6	--	1.7	--
Manufacturing	6,554	100.0	5.4	2.5	1.4	26.0	5.1	55.7	.4	2.4	--	1.1	--
Durable goods	3,101	100.0	5.0	2.6	.6	29.8	4.9	53.1	.4	2.4	--	1.2	--
Nondurable goods	3,453	100.0	5.7	2.5	2.0	22.6	5.3	58.1	.3	2.3	--	1.1	--
Transportation and public utilities	1,441	100.0	5.6	7.1	1.2	65.2	1.9	.8	11.9	1.1	--	5.1	--
Wholesale and retail trade	8,764	100.0	1.3	10.4	23.9	31.9	2.0	3.1	.4	1.9	--	25.1	--
Wholesale trade	899	100.0	2.8	9.0	8.3	64.2	1.7	8.2	1.2	4.0	--	.6	--
Retail trade	7,865	100.0	1.1	10.6	25.6	28.2	2.0	2.5	.3	1.7	--	27.9	--
Finance, insurance, and real estate	3,004	100.0	3.5	11.6	12.7	69.5	.2	.2	--	.1	--	2.2	--
Services	16,259	100.0	31.6	3.9	.5	26.9	.7	2.2	.1	.4	7.0	26.8	--
Private households	1,218	100.0	1.0	--	--	.7	--	.1	.1	.6	93.2	4.4	--
Other service industries	15,041	100.0	34.1	4.2	.5	29.0	.7	2.4	.1	.4	--	28.6	--
Public administration	1,689	100.0	14.6	9.8	.1	66.2	.5	.4	.2	1.2	--	7.1	--

**HOUSEHOLD DATA
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28. Employed persons by industry, occupation, and race

(Percent distribution)

Industry and race	1978												Farm workers
	Total employed		White-collar workers				Blue-collar workers				Service workers		
	Numbers (in thousands)	Percent	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	
WHITE													
Agriculture	3,034	100.0	2.0	1.1	.3	2.5	1.5	.5	1.3	6.9	--	.2	83.7
Mining	796	100.0	13.5	9.4	.9	11.2	26.6	28.6	6.2	2.9	--	.9	--
Construction	5,554	100.0	2.8	12.5	.4	7.0	56.1	4.6	3.0	13.2	--	.4	--
Manufacturing	19,087	100.0	10.6	7.7	2.4	12.1	20.0	37.2	3.6	4.6	--	1.8	--
Durable goods	11,455	100.0	11.7	7.5	1.6	11.7	21.8	36.8	2.8	4.5	--	1.7	--
Nondurable goods	7,632	100.0	9.0	8.0	3.7	12.8	17.3	37.7	4.8	4.7	--	2.0	--
Transportation and public utilities	5,407	100.0	8.9	10.1	.8	22.2	23.0	2.5	23.1	6.9	--	2.6	--
Wholesale and retail trade	17,686	100.0	2.0	19.8	21.4	17.3	7.8	5.1	3.5	6.0	--	17.2	--
Wholesale trade	3,356	100.0	3.4	22.0	23.7	20.6	8.8	4.7	9.4	6.6	--	.8	--
Retail trade	14,330	100.0	1.7	19.2	20.9	16.5	7.6	5.1	2.1	5.8	--	21.1	--
Finance, insurance, and real estate	4,922	100.0	5.1	20.3	23.5	44.0	1.8	.1	.1	1.3	--	3.8	--
Services	23,109	100.0	37.8	7.4	.7	18.8	5.6	2.5	.7	2.0	3.4	21.1	--
Private households	962	100.0	1.1	--	--	.8	.4	.2	.3	11.9	81.1	4.2	--
Other service industries	22,147	100.0	39.4	7.7	.7	19.6	5.8	2.6	.7	1.5	--	21.8	--
Public administration	4,242	100.0	19.9	13.7	--	35.1	6.1	.8	.8	2.6	--	20.9	--
BLACK AND OTHER													
Agriculture	308	100.0	1.0	--	--	.3	1.0	1.3	2.6	9.4	--	.3	84.0
Mining	32	100.0	(1)	--	--	(1)	(1)	(1)	(1)	(1)	--	(1)	--
Construction	489	100.0	2.2	4.1	--	3.5	45.3	4.7	5.1	33.1	--	2.0	--
Manufacturing	2,411	100.0	4.9	1.6	.7	7.9	13.4	53.7	4.9	9.5	--	3.4	--
Durable goods	1,366	100.0	5.8	1.5	.2	7.2	15.9	50.9	5.3	10.0	--	3.3	--
Nondurable goods	1,044	100.0	3.9	1.6	1.2	8.8	10.3	57.4	4.4	8.9	--	3.4	--
Transportation and public utilities	756	100.0	4.9	3.8	.7	24.3	12.6	3.4	28.0	16.0	--	6.2	--
Wholesale and retail trade	1,567	100.0	1.5	11.5	13.5	17.4	5.7	7.3	6.6	9.0	--	27.4	--
Wholesale trade	261	100.0	3.1	8.8	12.2	19.1	8.8	11.1	19.5	15.6	--	1.9	--
Retail trade	1,306	100.0	1.1	12.1	13.8	17.1	5.1	6.5	4.0	7.7	--	32.5	--
Finance, insurance, and real estate	485	100.0	5.4	9.3	11.6	54.5	2.9	.2	.6	2.1	--	13.4	--
Services	3,712	100.0	24.1	3.8	.3	14.0	3.2	3.9	.9	2.6	10.3	36.8	--
Private households	434	100.0	.5	--	--	.2	--	--	.7	6.5	88.2	3.9	--
Other service industries	3,278	100.0	27.3	4.3	.3	15.9	3.7	4.5	1.0	2.1	--	41.1	--
Public administration	779	100.0	14.5	7.1	--	41.4	6.2	1.7	3.0	5.5	--	20.7	--

¹ Percent not shown where base is less than 35,000.

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29. Employed persons in nonagricultural industries by sex, age, and race

(Percent distribution)

Age, sex, and race	1978									
	Mining	Construction	Manufacturing			Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service industries ¹	Public administration
			Total	Durable goods	Non-durable goods					
TOTAL										
Total, 16 years and over (in thousands)	828	6,043	21,497	12,821	8,676	6,162	19,253	5,406	25,425	5,020
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16 to 19 years	4.3	7.3	5.2	4.7	6.0	3.2	17.7	5.2	6.4	2.9
20 years and over	95.7	92.7	94.8	95.3	94.0	96.8	82.3	94.8	93.6	97.1
20 to 24 years	15.4	16.9	14.1	14.1	14.1	11.7	16.9	16.1	13.9	9.0
25 years and over	80.2	75.8	80.7	81.2	79.9	85.1	65.4	78.6	79.7	88.1
25 to 54 years	68.8	63.3	66.5	67.3	65.3	72.0	51.6	63.3	64.8	72.1
55 years and over	11.5	12.5	14.2	14.0	14.5	13.1	13.9	15.4	14.9	16.0
Males, 16 years and over	88.2	93.2	69.5	75.8	60.2	76.6	54.5	44.4	40.8	66.4
16 to 19 years	3.6	6.8	3.4	3.3	3.5	2.2	9.1	1.2	2.7	1.3
20 years and over	84.4	86.4	66.1	72.6	56.7	74.4	45.4	43.3	38.1	65.0
20 to 24 years	12.9	15.8	9.4	10.3	8.1	8.2	8.8	4.2	5.0	4.1
25 years and over	71.5	70.6	56.7	62.3	48.5	66.2	36.5	39.1	33.1	60.9
25 to 54 years	60.8	58.9	46.6	51.2	39.8	55.3	28.7	29.7	26.4	49.8
55 years and over	10.7	11.6	10.1	11.1	8.7	10.9	7.8	9.4	6.7	11.1
Females, 16 years and over	11.6	6.8	30.5	24.2	39.8	23.4	45.5	55.6	59.2	33.6
16 to 19 years	.6	.5	1.8	1.4	2.5	1.1	8.6	4.1	3.7	1.6
20 years and over	11.0	6.3	28.6	22.8	37.3	22.3	36.9	51.5	55.5	32.0
20 to 24 years	2.5	1.1	4.7	3.8	6.0	3.4	8.0	11.9	8.9	4.8
25 years and over	8.4	5.2	23.9	18.9	31.3	18.9	28.9	39.6	46.6	27.2
25 to 54 years	7.8	4.4	19.9	16.1	25.5	16.7	22.9	33.6	38.4	22.3
55 years and over	.6	.9	4.1	2.9	5.8	2.2	6.0	6.0	8.2	5.0
White										
Males, 16 years and over	85.0	85.4	62.3	68.1	53.6	67.5	49.9	40.9	36.4	57.2
16 to 19 years	3.6	6.5	3.1	3.0	3.2	1.9	8.5	1.0	2.4	1.0
20 years and over	81.4	78.9	59.2	65.1	50.4	65.5	41.4	39.9	34.0	56.2
20 to 24 years	12.5	14.7	8.3	9.2	7.0	7.2	8.1	3.6	4.4	3.5
25 years and over	68.9	64.2	50.9	55.9	43.4	58.3	33.3	36.3	29.6	52.8
25 to 54 years	58.4	53.8	41.5	45.7	35.3	48.6	26.0	27.4	23.5	43.1
55 years and over	10.5	10.4	9.4	10.2	8.1	9.8	7.3	8.9	6.0	9.7
Females, 16 years and over	10.7	6.5	26.5	21.2	34.4	20.3	42.0	50.1	50.8	27.3
16 to 19 years	.6	.5	1.7	1.3	2.3	.9	8.0	3.6	3.2	1.2
20 years and over	10.1	6.1	24.8	19.9	32.1	19.3	34.0	46.5	47.5	26.0
20 to 24 years	2.3	1.0	4.0	3.3	5.0	2.9	7.3	10.5	7.8	3.9
25 years and over	7.8	5.0	20.8	16.5	27.1	16.4	26.7	36.0	39.7	22.2
25 to 54 years	7.2	4.2	17.0	13.8	21.7	14.3	21.0	30.2	32.4	17.7
55 years and over	.6	.8	3.8	2.8	5.4	2.1	5.7	5.8	7.3	4.4
Black and other										
Males, 16 years and over	3.1	7.8	7.3	7.7	6.6	9.1	4.6	3.7	4.5	9.1
16 to 19 years	.1	.3	.3	.2	.3	.3	.7	.1	.3	.3
20 years and over	3.0	7.5	7.0	7.5	6.3	8.9	4.0	3.3	4.1	8.8
20 to 24 years	.4	1.2	1.1	1.1	1.2	1.0	.7	.6	.6	.7
25 years and over	2.7	6.3	5.9	6.4	5.1	7.9	3.2	2.8	3.5	8.2
25 to 54 years	2.4	5.1	5.1	5.5	4.5	6.7	2.7	2.3	2.8	6.8
55 years and over	.2	1.2	.8	.8	.7	1.1	.6	.5	.7	1.4
Females, 16 years and over	.8	.3	4.0	3.0	5.4	3.1	3.5	5.4	8.4	6.4
16 to 19 years	--	(1)	.1	.1	.2	.1	.5	.4	.4	.4
20 years and over	.8	3.0	3.8	2.9	5.2	3.0	3.0	5.0	8.0	6.0
20 to 24 years	.2	.1	.7	.5	1.0	.5	.8	1.4	1.1	1.0
25 years and over	.6	.2	3.1	2.4	4.2	2.5	2.2	3.6	6.9	5.0
25 to 54 years	.6	.2	2.9	2.3	3.8	2.5	1.9	3.4	6.0	4.5
55 years and over	--	.1	.2	.1	.4	.1	.3	.2	1.0	.5

¹ Excludes private households.

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HOUSEHOLD DATA ANNUAL AVERAGES

30. Employed persons by detailed industry, sex, and race

(Numbers in thousands)

Industries	1978			Industries	1978		
	Total employed	Percent of total			Total employed	Percent of total	
		Females	Black and other			Females	Black and other
Total, 16 years and over	94,373	41.2	11.2				
Agriculture, forestry, and fisheries	3,501	19.6	9.2	Nondurable goods industries—Continued			
Agricultural production	2,850	18.9	9.0	Tobacco manufactures	73	31.5	30.1
Agricultural services, except horticultural	245	40.8	8.2	Textile mill products	871	47.0	17.8
Horticultural services	247	8.5	12.6	Knitting mills	196	64.3	10.2
Forestry	87	21.8	5.7	Yarn, thread, and fabric mills	514	44.6	21.2
Fisheries	73	8.2	13.7	Miscellaneous textile mill products	60	38.3	13.3
				Apparel and other fabricated textile products	1,285	77.4	16.4
Mining	828	11.7	3.9	Apparel and accessories	1,128	79.6	16.7
Metal mining	93	7.5	2.2	Miscellaneous fabricated textile products	157	61.8	14.6
Coal mining	226	3.1	1.8	Paper and allied products	705	22.8	10.2
Crude petroleum and natural gas extraction	381	18.1	4.2	Pulp, paper, and paperboard mills	291	12.0	7.2
Nonmetallic mining and quarrying, except fuel	128	10.9	8.6	Miscellaneous paper and pulp products	209	34.4	12.0
				Paperboard containers and boxes	205	26.8	12.7
Construction	6,043	6.8	8.1	Printing, publishing, and allied industries	1,429	39.0	6.6
General building contractors	1,762	6.0	7.4	Newspaper publishing and printing	469	37.7	4.9
General contractors, except building	1,106	7.1	10.4	Printing, publishing, and allied industries, except newspapers	960	39.7	7.5
Special trade contractors	2,858	7.0	7.2	Chemicals and allied products	1,189	24.1	11.2
Not specified construction	316	9.8	11.4	Industrial chemicals	87	14.7	9.7
				Plastics, synthetics and resins, except fibers	434	17.2	9.2
Manufacturing	21,497	30.5	11.2	Synthetic fibers	80	26.3	12.5
Durable goods	12,821	24.2	10.7	Drugs and medicines	185	38.4	10.8
Lumber and wood products, except furniture	724	12.0	17.4	Soaps and cosmetics	143	42.0	11.2
Logging	165	3.0	27.9	Paints, varnishes, and related products	75	20.0	14.7
Sawmills, planing mills, and mill work	428	12.1	13.3	Agricultural chemicals	68	20.6	20.6
Miscellaneous wood products	130	23.1	17.7	Miscellaneous chemicals	116	22.4	10.3
Furniture and fixtures	554	31.0	9.9	Petroleum and coal products	242	17.4	10.3
Stone, clay, and glass products	679	20.5	13.0	Petroleum refining	209	17.7	9.6
Glass and glass products	223	32.3	14.8	Rubber and miscellaneous plastic products	708	36.3	8.2
Cement, concrete, gypsum, and plaster products	240	7.9	13.3	Rubber products	328	26.2	7.9
Miscellaneous nonmetallic mineral and stone products	147	21.1	8.8	Miscellaneous plastic products	379	45.1	8.4
Primary metal industries	1,220	11.5	14.2	Leather and leather products	283	62.5	9.2
Blast furnaces, steelworks, rolling and finishing mills	467	7.7	13.1	Footwear, except rubber	189	69.8	7.4
Other primary iron and steel industries	340	10.6	17.4	Leather products, except footwear	68	58.8	5.9
Primary aluminum industries	188	14.9	9.0				
Other primary nonferrous industries	224	18.3	16.5	Transportation, communications, and other public utilities	6,162	23.4	12.3
Fabricated metal products	1,444	20.7	9.4	Transportation	3,548	18.7	12.7
Cutlery, hand tools and other hardware	158	32.9	8.9	Railroads and railway express service	582	6.7	10.5
Fabricated structural metal products	531	14.7	8.9	Street railways and bus lines	506	36.2	21.7
Screw machine products	100	26.0	7.0	Taxicab service	121	9.1	28.9
Metal stamping	177	24.3	8.5	Trucking service	1,343	9.7	9.5
Miscellaneous fabricated metal products	476	21.2	10.9	Warehousing and storage	159	24.5	12.6
Machinery, except electrical	2,485	18.7	6.2	Water transportation	177	11.9	17.5
Engines and turbines	117	15.4	4.3	Air transportation	468	28.4	12.0
Farm machinery and equipment	174	16.7	8.0	Services incidental to transportation	177	58.8	5.1
Construction and material handling machines	391	12.5	6.1	Communications	1,311	44.8	11.2
Metalworking machinery	356	16.3	3.4	Radio broadcasting and television	185	29.2	10.8
Office and accounting machines	121	26.4	8.3	Telephone (wire and radio)	1,065	48.3	11.5
Electronic computing equipment	333	31.2	8.7	Telegraph and miscellaneous communications services	60	33.3	8.3
Machinery, except electrical, n.e.c.	991	17.8	6.0	Utilities and sanitary services	1,303	14.7	12.2
Electrical machinery, equipment, and supplies	2,144	41.5	9.9	Electric light and power	510	14.5	9.6
Household appliances	177	37.9	7.9	Electric-gas utilities	171	17.0	8.8
Radio, T.V., and communication equipment	553	39.1	11.0	Gas and steam supply systems	170	21.2	8.2
Electrical machinery, equipment, and supplies, n.e.c.	1,409	42.9	9.7	Water supply	165	17.6	10.9
Transportation equipment	2,230	15.1	13.7	Sanitary services	244	4.9	25.0
Motor vehicles and motor vehicle equipment	1,247	15.9	15.1				
Aircraft and parts	560	16.6	7.7	Wholesale and retail trade	19,253	45.5	8.1
Ship and boat building and repairing	265	8.7	22.6	Wholesale trade	3,616	24.9	7.2
Mobile dwellings and campers	78	15.4	2.6	Motor vehicles and equipment	267	21.3	6.4
Professional and photographic equipment, and watches	560	42.5	7.1	Drugs, chemicals, and allied products	194	26.8	6.2
Scientific and controlling instruments	160	40.6	5.6	Dry goods and apparel	91	40.7	8.8
Optical and health services supplies	231	51.5	6.9	Food and related products	557	22.4	10.8
Photographic equipment and supplies	137	26.3	8.0	Farm products—raw materials	122	22.1	4.9
Ordnance	190	24.2	7.4	Electrical goods	224	28.1	6.3
Miscellaneous manufacturing industries	591	48.4	10.7	Hardware, plumbing, and heating supplies	157	24.2	6.4
Nondurable goods industries	8,676	39.8	12.0	Machinery equipment and supplies	770	24.7	4.9
Food and kindred products	1,874	28.8	13.1	Metals and minerals, n.e.c.	107	21.5	6.5
Meat products	423	30.7	16.3	Petroleum products	169	21.3	6.5
Dairy products	211	15.2	7.1	Scrap and waste materials	110	10.9	13.6
Canning and preserving fruits, vegetables, and seafood	271	46.9	14.0	Alcoholic beverages	108	17.6	8.3
Grain-mill products	142	24.6	9.2	Paper and its products	105	24.8	4.8
Bakery products	273	26.4	11.7	Lumber and construction materials	149	18.8	7.4
Confectionery and related products	94	55.3	20.2	Wholesalers, n.e.c.	479	34.2	7.9
Beverage industries	255	15.3	11.4	Retail trade	15,636	50.3	8.4
Miscellaneous food preparation and kindred products	203	25.1	14.3	Lumber and building material retailing	461	21.5	7.2
				Hardware and farm equipment stores	297	29.3	3.7
				Department and mail order establishments	2,030	68.4	9.8

See footnotes at end of table.

HOUSEHOLD DATA ANNUAL AVERAGES

30. Employed persons by detailed industry, sex, and race—Continued

(Numbers in thousands)

Industries	1978			Industries	1978		
	Total employed	Percent of total			Total employed	Percent of total	
		Females	Black and other			Females	Black and other
Wholesale and retail trade—Continued				Service industries—Continued			
Retail trade—Continued				Business and repair services—Continued			
Limited price variety stores	160	76.9	8.1	Automobile services, except repair	200	23.0	15.0
Vending machine operators	76	39.5	6.6	Automobile repair and related services	672	8.3	9.4
Direct selling establishments	350	78.3	5.1	Electrical repair shops	137	12.4	2.9
Miscellaneous general merchandise stores	218	71.1	6.9	Miscellaneous repair services	353	13.0	6.5
Grocery stores	2,055	42.8	8.7	Personal services	3,826	74.4	21.5
Dairy products stores	62	62.9	9.7	Private households	1,396	87.2	31.1
Retail bakeries	140	65.7	5.0	Hotels and motels	693	61.2	22.1
Food stores, n.e.c.	168	48.2	9.5	Lodging places, except hotels and motels	382	30.9	9.4
Motor vehicle dealers	953	15.8	5.8	Laundry, cleaning, and other garment services	363	63.6	26.4
Tire, battery, and accessory dealers	294	16.0	5.4	Beauty shops	553	89.0	9.2
Gasoline service stations	622	12.5	6.3	Barber shops	122	12.3	13.9
Miscellaneous vehicle dealers	126	19.8	8	Dressmaking shops	41	97.6	7.3
Apparel and accessory stores, except shoe stores	674	76.6	8.8	Miscellaneous personal services	252	45.2	9.9
Shoe stores	132	45.5	5.3	Entertainment and recreation services	1,018	37.3	8.2
Furniture and home furnishings stores	463	32.8	5.6	Theaters and motion pictures	324	32.1	6.8
Household appliances, T.V., and radio stores	293	28.0	4.8	Bowling alleys, billiard and pool parlors	82	40.2	6.1
Eating and drinking places	4,015	60.7	11.2	Miscellaneous entertainment and recreation services	612	39.7	9.2
Drug stores	473	59.8	7.4	Professional and related services	18,327	65.1	13.3
Liquor stores	138	29.0	12.3	Offices of physicians	753	67.2	4.8
Farm and garden supply stores	158	25.9	1.9	Offices of dentists	360	67.2	3.3
Jewelry stores	133	57.9	6.0	Hospitals	3,781	75.8	19.4
Fuel and ice dealers	102	19.6	3.9	Convalescent institutions	1,009	88.1	19.2
Retail florists	148	66.2	4.1	Offices of health practitioners, n.e.c.	83	57.8	—
Miscellaneous retail stores	883	57.4	6.9	Health services, n.e.c.	687	68.9	15.1
Finance, insurance, and real estate	5,406	55.6	9.0	Legal services	650	48.5	2.6
Banking	1,442	70.9	10.3	Elementary and secondary schools	5,180	70.6	13.2
Credit agencies	441	65.1	7.0	Colleges and universities	1,996	49.1	11.4
Security, commodity brokerage, and investment companies	270	36.3	5.6	Libraries	167	81.4	11.4
Insurance	1,776	53.8	9.1	Educational services, n.e.c.	277	67.1	10.1
Real estate, including real estate insurance-law offices	1,478	43.3	8.6	Museums, art galleries, and zoos	67	47.8	9.0
Service industries	31,682	56.6	14.1	Religious organizations	618	42.4	8.4
Business and repair services	3,490	30.7	10.3	Welfare services	788	70.9	23.5
Advertising	173	39.3	3.5	Residential welfare facilities	119	60.5	20.2
Services to dwellings and other buildings	348	34.5	23.0	Nonprofit membership organizations	464	53.0	11.6
Commercial research, development, and testing labs	157	25.5	7.6	Engineering and architectural services	469	18.8	5.1
Employment and temporary help agencies	188	70.7	16.0	Accounting, auditing, and bookkeeping services	445	44.9	3.6
Business management and consulting services	268	51.5	6.0	Miscellaneous professional and related services	370	42.4	5.4
Computer programming services	156	40.4	7.7	Public administration	5,020	33.6	15.5
Detective and protective services	213	13.1	18.3	Postal service	700	22.6	20.0
Business services, n.e.c.	623	50.7	7.1	Federal public administration	1,601	36.7	17.4
				State public administration	882	39.0	11.6
				Local public administration	1,838	32.6	14.0

NOTE: N.E.C. is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

31. 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	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	5,450	5,493	5,303	5,338	2,655	2,654	2,143	2,152
Vacation	2,913	2,942	2,874	2,904	1,942	1,934	769	778
Illness	1,410	1,418	1,374	1,383	545	548	702	714
Bad weather	236	236	199	199	--	--	--	--
Industrial dispute	119	99	119	98	--	--	--	--
All other reasons	772	799	737	763	168	172	672	661
Males, 16 years and over	2,987	2,991	2,856	2,856	1,611	1,578	945	968
Vacation	1,530	1,529	1,497	1,497	1,168	1,146	235	247
Illness	826	811	796	780	350	336	369	372
All other reasons ³	631	652	564	580	93	96	341	349
Females, 16 years and over	2,463	2,502	2,447	2,482	1,045	1,075	1,199	1,184
Vacation	1,383	1,413	1,378	1,407	775	788	535	531
Illness	584	608	578	604	195	212	334	342
All other reasons ³	495	481	491	471	75	76	331	311

¹ Excludes private household.

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

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

32. Persons at work by type of industry and hours of work

Hours of work	1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	88,880	85,693	3,187	100.0	100.0	100.0
1-34 hours	21,441	20,483	958	24.1	23.9	30.1
1-4 hours	792	739	53	.9	.9	1.7
5-14 hours	4,065	3,829	236	4.6	4.5	7.4
15-29 hours	10,541	10,063	478	11.9	11.7	15.0
30-34 hours	6,043	5,852	191	6.8	6.8	6.0
35 hours and over	67,439	65,210	2,229	75.9	76.1	69.9
35-39 hours	6,301	6,156	145	7.1	7.2	4.5
40 hours	36,725	36,230	495	41.3	42.3	15.5
41 hours and over	24,413	22,824	1,589	27.5	26.6	49.9
41 to 48 hours	9,660	9,411	249	10.9	11.0	7.8
49 to 59 hours	8,206	7,813	393	9.2	9.1	12.3
60 hours and over	6,547	5,600	947	7.4	6.5	29.7
Average hours, total at work	39.0	38.7	45.3	--	--	--
Average hours, workers on full-time schedules	43.2	42.9	53.5	--	--	--

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33. 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	1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	21,441	6,918	14,523	20,483	6,583	13,901
Economic reasons	3,428	1,370	2,058	3,216	1,249	1,967
Slack work	1,499	947	552	1,348	841	507
Material shortages or repairs to plant and equipment	85	85	--	83	83	--
New job started during week	238	238	--	229	229	--
Job terminated during week	100	100	--	96	96	--
Could find only part-time work	1,306	--	1,506	1,460	--	1,460
Other reasons	18,013	5,548	12,465	17,267	5,333	11,934
Does not want, or unavailable for, full-time work	10,439	--	10,430	10,014	--	10,014
Vacation	884	884	--	870	870	--
Illness	1,881	1,697	184	1,829	1,669	160
Bad weather	902	902	--	776	776	--
Industrial dispute	27	27	--	27	27	--
Legal or religious holiday	559	559	--	557	557	--
Full time for this job	1,311	--	1,311	1,275	--	1,275
All other reasons	2,019	1,479	540	1,919	1,434	485
Average hours:						
Economic reasons	21.4	23.7	19.9	21.5	23.9	20.0
Other reasons	21.0	26.3	18.6	21.0	26.4	18.6
Worked 30 to 34 hours:						
Economic reasons	978	547	431	930	514	416
Other reasons	5,065	2,990	2,075	4,922	2,920	2,002

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

[Numbers in thousands]

Industry	1978								
	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 46 hours	49 hours or more		
Total, 16 years and over ¹	85,693	3,216	11,934	70,543	47,719	9,411	13,413	38.7	42.9
Wage and salary workers	79,381	2,910	10,799	65,672	45,630	8,861	11,181	38.4	42.4
Construction	4,658	259	228	4,171	3,060	452	659	39.1	41.3
Manufacturing	19,932	496	640	18,796	12,746	3,135	2,915	41.2	42.4
Durable goods	11,869	175	263	11,431	7,637	1,979	1,815	41.8	42.6
Non-durable goods	8,063	320	377	7,366	5,111	1,156	1,099	40.4	42.2
Transportation and public utilities	5,515	144	360	5,011	3,413	633	965	41.2	43.4
Wholesale and retail trade	16,506	876	4,067	11,563	7,214	1,897	2,452	36.4	43.5
Finance, insurance, and real estate	4,754	78	473	4,203	3,128	472	603	38.8	41.4
Service industries	22,527	981	4,778	16,768	12,212	1,715	2,841	36.0	42.1
Private households	1,296	192	699	405	287	39	79	22.7	43.2
All other industries	21,231	789	4,079	16,363	11,925	1,676	2,762	36.8	42.1
Public administration	4,759	66	242	4,451	3,449	445	557	40.0	41.5
Self-employed workers	5,839	291	948	4,600	1,955	517	2,128	42.4	49.1
Unpaid family workers	472	16	187	269	132	32	105	36.8	47.7

¹ Includes mining, not shown separately.

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35. 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	1978							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	85,693	3,216	11,934	70,543	47,719	22,824	38.7	42.9
16 to 21 years	12,243	970	4,179	7,094	5,400	1,694	31.2	40.9
16 to 19 years	7,328	660	3,335	3,333	2,579	754	27.9	40.5
16 to 17 years	2,950	265	2,052	633	510	123	21.2	39.3
18 to 19 years	4,378	396	1,283	2,699	2,069	630	32.5	40.8
20 years and over	78,365	2,556	8,599	67,210	45,140	22,070	39.7	43.0
20 to 24 years	12,535	656	1,615	10,264	7,468	2,796	37.7	41.6
25 years and over	65,830	1,900	6,984	56,946	37,673	19,273	40.1	43.2
25 to 44 years	38,971	1,138	3,481	34,352	22,363	11,989	40.7	43.4
45 to 64 years	24,525	665	2,352	21,508	14,573	6,935	40.3	43.1
65 years and over	2,334	98	1,151	1,085	736	349	28.6	42.8
Males, 16 years and over	49,954	1,429	3,668	44,857	27,060	17,797	41.8	44.3
16 to 21 years	6,421	471	1,954	3,996	2,793	1,203	33.0	42.0
16 to 19 years	3,829	329	1,597	1,903	1,370	533	29.6	41.5
16 to 17 years	1,540	141	1,013	386	303	83	22.6	40.0
18 to 19 years	2,289	189	584	1,516	1,067	449	34.3	41.9
20 years and over	46,125	1,100	2,071	42,954	25,691	17,263	42.8	44.5
20 to 24 years	6,734	314	632	5,788	3,799	1,989	39.7	42.9
25 years and over	39,391	786	1,438	37,167	21,895	15,272	43.3	44.7
25 to 44 years	23,251	493	438	22,320	12,787	9,533	44.1	44.9
45 to 64 years	14,754	244	381	14,129	8,636	5,493	43.4	44.3
65 years and over	1,387	49	620	718	472	246	30.4	42.9
Females, 16 years and over	35,738	1,787	8,265	25,686	20,658	5,028	34.4	40.4
16 to 21 years	5,822	500	2,225	3,097	2,606	491	29.2	39.5
16 to 19 years	3,499	331	1,737	1,431	1,211	220	26.1	39.2
16 to 17 years	1,409	124	1,039	246	207	39	19.6	38.1
18 to 19 years	2,089	207	699	1,183	1,001	182	30.5	39.4
20 years and over	32,240	1,456	6,528	24,256	19,448	4,808	35.3	40.4
20 to 24 years	5,801	343	983	4,475	3,669	806	35.4	40.0
25 years and over	26,439	1,115	5,545	19,779	15,778	4,001	35.3	40.5
25 to 44 years	15,721	645	3,043	12,033	9,576	2,457	35.6	40.4
45 to 64 years	9,771	421	1,971	7,379	5,939	1,440	35.7	40.6
65 years and over	947	49	531	367	264	103	26.4	42.5
RACE								
White, 16 years and over	76,096	2,634	10,862	62,600	41,292	21,308	38.9	43.1
Males	44,917	1,178	3,316	40,423	23,695	16,728	42.1	44.6
Females	31,179	1,456	7,546	22,177	17,596	4,581	34.3	40.5
Black and other, 16 years and over	9,597	583	1,071	7,943	6,427	1,516	37.2	40.9
Males	5,037	251	352	4,434	3,364	1,070	39.2	41.9
Females	4,560	332	719	3,509	3,063	446	35.0	39.7
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,759	598	1,130	33,031	19,063	13,968	43.6	44.8
Widowed, divorced, or separated	3,790	140	185	3,465	2,153	1,312	42.1	44.2
Single (never married)	11,405	690	2,354	8,361	5,844	2,517	36.1	42.4
Females, 16 years and over:								
Married, spouse present	19,843	846	4,770	14,227	11,564	2,663	34.4	40.2
Widowed, divorced, or separated	6,790	351	1,018	5,421	4,192	1,229	36.7	40.9
Single (never married)	9,105	591	2,477	6,037	4,901	1,136	32.7	40.2

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

(Number in thousands)

Occupational group and sex	1978								
	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, 16 years and over	86,209	3,254	12,037	70,918	47,935	9,455	13,528	38.7	39.7
White-collar workers	44,519	1,011	6,194	37,314	24,714	4,521	8,079	39.4	43.3
Professional and technical	13,195	250	1,487	11,458	7,489	1,379	2,590	40.1	43.4
Managers and administrators, except farm	9,609	89	389	9,131	4,287	1,313	3,531	46.1	47.4
Sales workers	5,639	212	1,415	4,012	2,375	546	1,091	36.7	44.1
Clerical workers	16,076	459	2,904	12,713	10,564	1,282	867	35.8	40.0
Blue-collar workers	29,569	1,334	2,024	26,211	17,661	4,124	4,426	40.0	42.6
Craft and kindred workers	11,631	368	410	10,853	7,034	1,742	2,077	41.5	43.0
Operatives, except transport	10,169	473	581	9,115	6,525	1,500	1,090	39.6	41.7
Transport equipment operatives	3,304	141	282	2,881	1,553	463	865	42.4	45.8
Nonfarm laborers	4,465	351	751	3,363	2,550	420	393	35.4	41.1
Service workers	12,121	909	3,819	7,393	5,560	810	1,023	32.8	42.0
Private household workers	1,101	149	594	358	256	32	70	23.4	43.1
Other service workers	11,020	761	3,225	7,034	5,302	779	953	33.8	42.0
Males, 16 years and over	50,322	1,456	3,718	45,148	27,218	6,706	11,224	41.7	41.4
White-collar workers	21,550	278	1,326	19,946	10,762	2,739	6,445	43.8	45.8
Professional and technical	7,710	104	447	7,159	4,255	875	2,029	43.1	44.9
Managers and administrators, except farm	7,394	52	165	7,177	3,050	1,037	3,090	47.5	48.4
Sales workers	3,157	54	357	2,746	1,411	407	928	42.0	45.6
Clerical workers	3,289	67	357	2,865	2,047	421	397	35.0	42.0
Blue-collar workers	24,199	966	1,429	21,804	14,122	3,539	4,143	40.8	43.1
Craft and kindred workers	10,978	345	309	10,324	6,646	1,660	2,018	41.7	43.1
Operatives, except transport	6,154	188	300	5,666	3,702	1,051	913	41.2	42.9
Transport equipment operatives	3,072	121	174	2,777	1,478	450	849	43.4	45.9
Nonfarm laborers	3,995	313	646	3,036	2,294	378	364	35.6	41.1
Service workers	4,573	212	963	3,398	2,334	428	636	37.1	43.6
Private household workers	26	5	13	8	6	--	2	21.3	44.1
Other service workers	4,547	208	950	3,389	2,326	428	635	37.2	43.6
Females, 16 years and over	35,886	1,798	8,319	25,769	20,716	2,749	2,304	34.4	36.6
White-collar workers	22,969	733	4,868	17,368	13,952	1,782	1,634	35.3	40.4
Professional and technical	5,485	145	1,040	4,300	3,235	505	560	36.0	41.0
Managers and administrators, except farm	2,215	37	224	1,954	1,237	277	440	41.2	44.0
Sales workers	2,482	158	1,057	1,267	966	139	162	30.0	40.8
Clerical workers	12,787	393	2,547	9,847	8,516	861	470	34.9	39.4
Blue-collar workers	5,370	368	595	4,407	3,539	585	283	36.7	40.1
Craft and kindred workers	654	23	100	531	390	82	59	37.3	41.2
Operatives, except transport	4,015	286	281	3,448	2,821	449	178	37.3	39.8
Transport equipment operatives	231	20	108	103	74	12	17	29.4	42.2
Nonfarm laborers	470	38	106	326	255	42	29	34.1	40.8
Service workers	7,547	697	2,856	3,994	3,225	382	387	30.2	40.6
Private household workers	1,075	145	581	349	250	31	68	23.4	43.1
Other service workers	6,472	552	2,276	3,644	2,975	351	318	31.3	40.4

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

(Numbers in thousands)

Employment status	1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,152	4,150	4,001	6,837	3,489	3,347	1,315	661	654
Civilian labor force	1,750	963	788	1,590	867	723	160	96	65
Employed	1,480	802	678	1,387	742	644	93	60	33
Agriculture	191	151	40	177	141	36	14	10	4
Nonagricultural industries	1,288	651	637	1,210	601	608	79	50	29
Unemployed	271	161	110	203	125	79	67	36	31
Unemployment rate	15.5	16.7	14.0	12.8	14.4	10.9	41.9	37.5	47.7
Not in labor force	6,401	3,188	3,214	5,247	2,622	2,622	1,155	565	589
Keeping house	117	12	106	93	10	83	25	2	23
Going to school	5,127	2,598	2,528	4,190	2,135	2,055	937	463	473
Unable to work	9	5	4	8	5	3	1	--	1
All other reasons	1,148	573	575	956	472	484	192	100	91

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

Characteristics	1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,480	802	678	100.0	100.0	100.0
Nonagricultural industries	1,288	651	637	87.1	81.0	94.0
Wage and salary workers	1,179	571	608	79.7	71.0	89.7
Private household workers	477	119	358	32.3	14.8	52.6
Government workers	77	44	33	5.2	5.5	4.9
Other wage and salary workers	625	409	217	42.3	50.9	32.0
Self-employed workers	96	72	24	6.5	9.0	3.5
Unpaid family workers	13	8	5	.9	1.0	.7
Agriculture	191	151	40	12.9	18.8	5.9
Wage and salary workers	119	90	29	8.0	11.2	4.3
Self-employed workers	24	21	4	1.6	2.6	.6
Unpaid family workers	48	41	8	3.2	5.1	1.2
OCCUPATION						
Total	1,480	802	678	100.0	100.0	100.0
White-collar workers	316	207	109	21.4	25.8	16.1
Professional and technical	12	6	7	.8	.7	1.0
Managers and administrators, except farm	2	1	1	.1	.1	.1
Sales workers	231	175	56	15.6	21.8	8.3
Clerical workers	70	25	45	4.7	3.1	6.6
Blue-collar workers	307	274	33	20.8	34.2	4.9
Craft and kindred workers	20	18	2	1.4	2.2	.3
Operatives, except transport	44	34	10	3.0	4.2	1.5
Transport equipment operatives	7	7	--	.5	.9	--
Nonfarm laborers	236	215	21	16.0	26.6	3.1
Service workers	692	192	500	46.8	23.9	73.7
Private household workers	388	33	355	26.2	4.1	52.4
Other service workers	304	159	145	20.6	19.8	21.4
Farm workers	165	129	136	11.2	16.1	20.1
Farmers and farm managers	8	5	3	.5	.6	.4
Farm laborers and supervisors	157	124	33	10.6	15.5	4.9

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

[In thousands]

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	
TOTAL											
Total not in labor force	59,025	58,521	7,218	6,907	4,626	4,490	22,910	22,399	24,270	24,725	
Do not want a job now	53,340	53,193	5,674	5,531	3,747	3,691	20,248	19,840	23,672	24,132	
Current activity:											
Going to school	6,203	6,143	4,212	4,107	1,438	1,431	535	596	18	11	
Ill, disabled	4,547	4,532	41	48	122	114	2,209	2,187	2,177	2,183	
Keeping house	30,230	29,517	591	563	1,812	1,732	15,651	15,044	12,176	12,177	
Retired	8,966	9,366	--	--	--	1	195	207	8,769	9,158	
Other	3,394	3,635	830	813	375	413	1,658	1,806	532	603	
Want a job now	5,671 ^c	5,328	1,544 ^c	1,377	881 ^c	799	2,658 ^c	2,559	588 ^c	594	
Reason not looking:											
School attendance	1,534	1,374	1,085	963	274	249	173	158	3	3	
Ill health, disability	753	720	21	27	46	52	511	465	174	177	
Home responsibilities	1,253	1,226	101	76	236	215	878	895	38	41	
Think cannot get job	1,010	845	158	133	137	117	500	416	214	180	
Job-market factors	693	570	107	96	109	93	385	310	93	74	
Personal factors	316	275	52	37	27	26	115	104	122	106	
Other reasons ¹	1,121 ^c	1,163	180 ^c	178	187 ^c	166	595 ^c	625	159 ^c	193	
Males											
Total not in labor force	16,514	16,634	3,182	3,093	1,319	1,309	3,059	3,105	8,954	9,127	
Do not want a job now	14,769	14,948	2,466	2,441	1,040	1,055	2,580	2,598	8,684	8,857	
Current activity:											
Going to school	3,077	3,071	2,019	2,013	789	777	268	282	2	--	
Ill, disabled	2,520	2,449	23	23	60	64	1,265	1,228	1,173	1,135	
Keeping house	264	270	15	12	4	8	57	62	190	189	
Retired	7,076	7,247	--	--	--	1	176	179	6,900	7,067	
Other	1,832	1,911	409	393	187	205	816	847	419	466	
Want a job now	1,744	1,686	717	651	280	256	474	507	268	269	
Reason not looking:											
School attendance	768	693	551	502	147	125	69	64	--	2	
Ill health, disability	322	326	8	13	24	22	211	203	78	87	
Think cannot get job	317	305	69	72	47	43	94	110	106	79	
Other reasons ¹	337	362	89	64	62	66	100	130	84	101	
Females											
Total not in labor force	42,510	41,887	4,036	3,814	3,307	3,181	19,851	19,294	15,316	12,598	
Do not want a job now	38,573	38,243	3,208	3,089	2,706	2,640	17,669	17,241	14,987	15,274	
Current activity:											
Going to school	3,126	3,072	2,193	2,094	650	654	267	314	15	11	
Ill, disabled	2,028	2,082	19	24	61	52	994	958	1,005	1,049	
Keeping house	29,966	29,246	575	551	1,808	1,725	15,596	14,982	11,986	11,987	
Retired	1,891	2,119	--	--	--	--	21	28	1,869	2,091	
Other	1,562	1,724	421	420	187	209	841	959	112	136	
Want a job now	3,929	3,642	828	724	600	543	2,181	2,053	320	324	
Reason not looking:											
School attendance	766	681	534	461	126	124	104	95	3	1	
Ill health, disability	431	394	12	14	22	29	300	262	96	89	
Home responsibilities	1,253	1,226	101	76	236	215	878	895	38	41	
Think cannot get job	694	540	90	60	91	75	405	305	108	101	
Other reasons	785	801	91	113	125	100	494	496	75	92	

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

NOTE: Detail in tables 39, 40, and 42 may not add to not-in-labor-force totals because of differences in weighting patterns used in aggregating these data.

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

(In thousands)

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over		1977	1978	1977	1978
	1977	1978	1977	1978	1977	1978	1977	1978				
WHITE												
Total not in labor force	51,488	51,124	9,450	9,088	20,062	19,620	21,976	22,417	14,057	14,204	37,431	36,920
Do not want a job now	47,178	47,085	7,704	7,544	18,004	17,622	21,471	21,919	12,718	12,952	34,460	34,133
Current activity:												
Going to school	4,988	4,981	4,545	4,484	426	489	15	9	2,477	2,506	2,511	2,475
Ill, disabled	3,687	3,696	128	121	1,760	1,764	1,799	1,810	2,076	2,034	1,611	1,662
Keeping house	27,513	26,882	2,067	1,978	14,259	13,665	11,189	11,238	221	221	27,292	26,661
Retired	8,164	8,518	--	--	185	196	7,980	8,321	6,452	6,625	1,712	1,893
Other	2,826	3,008	964	961	1,374	1,508	488	541	1,492	1,566	1,334	1,442
Want a job now	4,309	4,037	1,748	1,546	2,060	2,000	505	496	1,339	1,251	2,970	2,786
Reason not looking:												
School attendance	1,140	1,012	1,020	890	118	119	3	3	582	516	558	496
Ill health, disability	565	519	55	52	372	335	138	133	250	236	315	283
Home responsibilities ¹	970	947	214	190	727	720	30	38	--	--	970	947
Think cannot get job	716	589	185	144	348	293	184	152	232	203	484	386
Other reasons	918	970	274	270	495	533	150	170	275	296	643	674
BLACK AND OTHER												
Total not in labor force	7,537	7,397	2,395	2,309	2,848	2,779	2,294	2,308	2,458	2,430	5,079	4,967
Do not want a job now	6,160	6,107	1,715	1,679	2,248	2,214	2,200	2,210	2,050	1,997	4,110	4,110
Current activity:												
Going to school	1,213	1,163	1,104	1,056	108	107	--	2	599	567	614	596
Ill, disabled	861	835	36	39	449	420	377	371	445	415	416	420
Keeping house	2,717	2,634	336	317	1,394	1,376	989	938	43	49	2,674	2,585
Retired	802	849	--	--	12	13	789	838	624	622	178	227
Other	567	626	239	267	285	298	45	61	339	344	228	282
Want a job now	1,363	1,290	679	632	598	562	83	98	405	433	958	857
Reason not looking:												
School attendance	395	361	340	322	55	39	--	--	187	176	208	185
Ill health, disability	187	201	12	28	139	131	36	44	71	90	116	111
Home responsibilities ¹	283	280	123	102	152	175	7	2	--	--	283	280
Think cannot get job	294	255	110	105	153	123	31	27	85	101	209	154
Other reasons	204	193	94	75	99	94	9	25	62	66	142	127

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

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

(In thousands)

Detailed reason for not seeking work	Total	Age in years				Race	
		1978				White	Black and other
		16-19	20-24	25-59	60 and over		
TOTAL							
Personal factors:							
Employers think too young or old	142	18	1	24	98	124	18
Lacks education or training	84	16	14	50	4	68	16
Other personal handicap	49	3	11	30	4	31	17
Job-market factors:							
Could not find job	335	69	62	176	29	184	152
Thinks no job available	235	27	31	134	45	183	52
Males							
Personal factors:							
Employers think too young or old	64	9	1	10	45	50	14
Lacks education or training	20	9	4	6	2	15	6
Other personal handicap	22	1	6	14	2	14	8
Job-market factors:							
Could not find job	119	36	20	49	14	66	53
Thinks no job available	79	16	13	32	17	59	20
Females							
Personal factors:							
Employers think too young or old	78	9	1	14	53	74	4
Lacks education or training	64	5	11	45	3	53	10
Other personal handicap	26	2	5	18	2	17	9
Job-market factors:							
Could not find job	216	33	41	127	15	118	99
Thinks no job available	156	10	18	100	27	124	32

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42. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex

[Numbers in thousands]

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
Total, not in labor force	59,025	58,521	11,844	11,397	22,910	22,399	24,270	24,725	51,488	51,124	7,537	7,397
Never worked	9,477	9,232	4,820	4,601	2,222	2,140	2,435	2,490	7,643	7,382	1,834	1,850
Last worked over 5 years ago	28,299	28,538	299	304	11,516	11,324	16,485	16,912	25,309	25,556	2,990	2,982
Last worked 1 to 5 years ago	11,312	10,803	1,880	1,660	5,519	5,241	3,914	3,900	9,930	9,519	1,383	1,284
Left job during previous 12 months	9,921	9,946	4,845	4,831	3,651	3,692	1,424	1,423	8,604	8,666	1,317	1,280
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	43.1	44.7	60.0	60.2	38.0	39.2	5.5	6.3	45.2	45.8	36.9	37.7
Ill health, disability	8.3	7.9	1.8	2.2	13.8	12.1	16.1	16.3	7.6	7.5	12.7	10.5
Retirement, old age	8.2	7.9	--	--	3.2	3.4	48.5	46.6	8.7	8.5	4.7	4.1
Economic reasons	20.7	19.9	18.9	17.4	23.8	23.0	19.1	20.8	20.1	19.1	24.7	25.4
End of seasonal job	8.7	8.7	9.3	8.9	8.1	8.5	8.2	8.3	8.3	8.1	11.2	12.3
Slack work	6.0	5.1	4.5	3.6	8.4	7.0	4.8	5.1	5.8	4.8	7.1	6.7
End of temporary job	6.0	6.2	5.1	4.9	7.3	7.5	6.0	7.4	6.0	6.2	6.3	6.5
All other reasons	18.8	19.5	19.3	20.1	21.2	22.3	10.8	10.0	18.4	19.1	21.0	22.3
Males, not in labor force	16,514	16,634	4,501	4,402	3,059	3,105	8,954	9,127	14,057	14,204	2,458	2,430
Never worked	2,065	2,041	1,816	1,784	208	221	42	37	1,488	1,478	577	563
Last worked over 5 years ago	6,938	7,201	41	51	1,064	1,119	5,832	6,032	6,049	6,309	889	892
Last worked 1 to 5 years ago	3,726	3,688	423	388	1,035	1,046	2,268	2,253	3,266	3,224	460	464
Left job during previous 12 months	3,782	3,703	2,222	2,178	749	718	812	806	3,253	3,192	529	511
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	38.2	39.1	58.0	59.0	18.4	19.9	2.3	2.5	38.9	39.9	33.5	34.3
Ill health, disability	10.4	10.4	1.8	2.5	30.2	26.7	15.6	17.1	9.9	10.3	13.6	10.8
Retirement, old age	14.2	13.6	--	--	10.5	9.5	56.3	53.3	15.1	14.9	8.5	5.3
Economic reasons	19.0	18.9	20.1	18.6	17.7	19.8	17.6	18.9	18.5	17.4	22.5	28.0
End of seasonal job	9.4	9.3	10.7	10.2	5.9	7.4	9.3	8.5	9.4	8.3	10.0	15.1
Slack work	5.2	4.8	4.7	3.8	8.0	7.9	4.1	4.3	4.9	4.4	6.8	7.3
End of temporary job	4.4	4.8	4.7	4.6	3.7	4.5	4.2	5.5	4.2	4.7	5.7	5.7
All other reasons	18.2	18.0	20.2	19.9	23.2	24.0	8.2	7.3	17.6	17.5	21.9	21.6
Females, not in labor force	42,510	41,887	7,343	6,995	19,851	19,294	15,316	15,598	37,431	36,920	5,079	4,967
Never worked	7,413	7,191	3,005	2,818	2,016	1,920	2,393	2,453	6,155	5,904	1,257	1,287
Last worked over 5 years ago	21,361	21,337	258	253	10,451	10,204	10,653	10,880	19,260	19,247	2,101	2,090
Last worked 1 to 5 years ago	7,587	7,115	1,457	1,271	4,483	4,195	1,646	1,648	6,664	6,295	923	820
Left job during previous 12 months	6,138	6,243	2,624	2,652	2,901	2,974	613	617	5,351	5,474	788	769
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	47.7	48.0	61.6	61.3	43.1	43.8	9.8	11.5	48.9	49.2	39.2	39.9
Ill health, disability	7.0	6.4	1.9	2.0	9.6	8.5	16.9	15.3	6.3	5.9	12.1	10.3
Retirement, old age	4.4	4.6	--	--	1.3	2.0	38.3	37.2	4.8	4.7	2.2	3.4
Economic reasons	21.7	20.6	17.9	16.4	25.4	23.7	21.0	23.2	21.1	20.1	26.1	23.7
End of seasonal job	8.2	8.3	8.0	7.9	8.7	8.7	6.8	8.1	7.6	8.0	12.1	10.4
Slack work	6.5	5.2	4.4	3.5	8.5	6.7	5.9	5.4	6.4	5.0	7.4	6.2
End of temporary job	7.0	7.0	5.4	5.1	8.2	8.3	8.5	9.7	7.1	7.1	6.7	7.0
All other reasons	19.1	20.4	18.6	20.4	20.6	22.0	14.0	12.8	18.9	20.1	20.4	22.8

43. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex

[In thousands]

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
Total												
Do not intend to seek work	49,260	49,239	6,314	6,238	19,278	18,871	23,668	24,131	43,623	43,617	5,637	5,622
Intend to seek work in the next 12 months	9,750	9,280	5,531	5,159	3,628	3,527	592	593	7,863	7,505	1,887	1,775
Never worked	1,776	1,631	1,638	1,501	126	121	11	8	1,285	1,172	490	458
Last worked over 5 years ago	1,159	1,155	59	48	961	965	138	142	948	945	211	210
Last worked 1 to 5 years ago	2,099	1,896	758	598	1,129	1,082	213	217	1,637	1,467	463	429
Worked during previous 12 months	4,716	4,599	3,075	3,011	1,412	1,360	229	227	3,992	3,922	724	677
Males												
Do not intend to seek work	13,068	13,335	2,018	2,041	2,401	2,466	8,647	8,827	11,247	11,547	1,821	1,788
Intend to seek work in the next 12 months	3,443	3,298	2,481	2,361	655	638	307	300	2,809	2,656	634	642
Never worked	706	686	685	663	18	22	3	--	511	495	195	191
Last worked over 5 years ago	137	153	12	14	75	87	51	53	98	113	39	41
Last worked 1 to 5 years ago	572	512	238	198	218	194	116	120	456	402	116	110
Worked during previous 12 months	2,028	1,947	1,547	1,485	346	335	136	128	1,743	1,647	285	300
Females												
Do not intend to seek work	36,193	35,904	4,294	4,195	16,877	16,403	15,021	15,304	32,376	32,070	3,816	3,834
Intend to seek work in the next 12 months	6,307	5,982	3,048	2,799	2,973	2,889	285	293	5,054	4,849	1,253	1,133
Never worked	1,069	945	954	839	108	99	8	8	774	677	295	267
Last worked over 5 years ago	1,022	1,001	47	34	887	879	88	89	850	832	172	169
Last worked 1 to 5 years ago	1,527	1,384	521	400	912	888	95	97	1,181	1,065	347	319
Worked during previous 12 months	2,688	2,652	1,527	1,526	1,067	1,025	94	100	2,249	2,275	439	377

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44. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

[Numbers in thousands]

Employment status	Total		White		Black ¹		Hispanic origin ²	
	1977	1978	1977	1978	1977	1978	1977	1978
TOTAL								
Civilian noninstitutional population	156,426	158,941	137,595	139,580	16,314	16,641	7,122	7,639
Civilian labor force	97,401	100,420	86,107	88,456	9,738	10,211	4,379	4,801
Percent of population	62.3	63.2	62.6	63.4	59.7	61.4	61.5	62.8
Employment	90,546	94,373	80,734	83,836	8,384	8,925	3,938	4,366
Agriculture	3,244	3,342	2,993	3,034	212	244	215	221
Nonagricultural industries	87,302	91,031	77,741	80,802	8,172	8,680	3,723	4,145
Unemployment	6,855	6,047	5,373	4,620	1,355	1,286	441	435
Unemployment rate	7.0	6.0	6.2	5.2	13.9	12.6	10.1	9.1
Not in labor force	59,025	58,521	51,488	51,124	6,576	6,430	2,743	2,838
Males, 20 years and over								
Civilian noninstitutional population	65,796	67,006	58,516	59,510	6,253	6,397	2,876	3,107
Civilian labor force	52,464	53,464	46,960	47,733	4,710	4,857	2,439	2,639
Percent of population	79.7	79.8	80.3	80.2	75.3	75.9	84.8	84.9
Employment	49,737	51,212	43,784	45,977	4,214	4,414	2,252	2,473
Agriculture	2,308	2,361	2,123	2,120	158	197	152	167
Nonagricultural industries	47,429	48,852	42,661	43,857	4,056	4,217	2,100	2,306
Unemployment	2,727	2,252	2,176	1,757	496	442	187	166
Unemployment rate	5.2	4.2	4.6	3.7	10.5	9.1	7.7	6.3
Not in labor force	13,332	13,541	11,556	11,777	1,543	1,541	437	468
Females, 20 years and over								
Civilian noninstitutional population	74,160	75,489	65,104	66,146	7,832	8,022	3,248	3,486
Civilian labor force	35,685	37,416	30,853	32,233	4,188	4,447	1,460	1,643
Percent of population	48.1	49.6	47.4	48.7	53.5	55.4	45.0	47.1
Employment	33,199	35,180	28,930	30,547	3,675	3,953	1,315	1,481
Agriculture	537	586	495	545	33	28	34	31
Nonagricultural industries	32,662	34,593	28,436	30,002	3,642	3,926	1,281	1,450
Unemployment	2,486	2,236	1,922	1,686	513	493	145	162
Unemployment rate	7.0	6.0	6.2	5.2	12.2	11.1	9.9	9.8
Not in labor force	38,474	38,073	34,251	33,913	3,644	3,575	1,788	1,843
Both sexes, 16-19 years								
Civilian noninstitutional population	16,470	16,447	13,975	13,924	2,230	2,221	998	1,046
Civilian labor force	9,252	9,540	8,295	8,490	841	907	481	519
Percent of population	56.2	58.0	59.4	61.0	37.7	40.8	48.2	49.6
Employment	7,610	7,981	7,020	7,312	495	557	371	412
Agriculture	399	395	375	369	21	20	30	23
Nonagricultural industries	7,211	7,586	6,644	6,943	474	537	341	389
Unemployment	1,642	1,559	1,275	1,178	346	351	110	107
Unemployment rate	17.7	16.3	15.4	13.9	41.1	38.6	22.8	20.6
Not in labor force	7,218	6,907	5,680	5,435	1,389	1,314	518	527

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

² Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the 1970 Census, approximately 96 percent of their population was white.

NOTE: Data for 1977 for total Hispanic origin are not strictly comparable with those published earlier. These estimates incorporate the expanded sample and revised estimation procedures introduced in the national sample in January 1978.

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45. Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age

[Numbers in thousands]

Employment status	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1977	1978	1977	1978	1977	1978	1977	1978
TOTAL								
Civilian noninstitutional population	7,122	7,639	4,060	4,471	1,034	1,085	557	569
Civilian labor force	4,379	4,801	2,597	2,924	503	550	357	377
Percent of population	61.5	62.8	64.0	65.4	48.6	50.7	64.1	66.3
Employment	3,938	4,366	2,335	2,665	434	477	325	351
Agriculture	215	221	194	197	7	7	3	5
Nonagricultural industries	3,723	4,145	2,141	2,468	427	469	322	346
Unemployment	441	435	262	259	69	73	31	26
Unemployment rate	10.1	9.1	10.1	8.9	13.6	13.2	8.8	7.0
Not in labor force	2,743	2,838	1,463	1,547	531	535	200	192
Males, 20 years and over								
Civilian noninstitutional population	2,876	3,107	1,691	1,902	376	391	226	227
Civilian labor force	2,439	2,639	1,461	1,654	308	316	189	187
Percent of population	84.8	84.9	86.4	87.0	81.9	80.8	83.6	82.4
Employment	2,252	2,473	1,356	1,559	271	282	177	178
Agriculture	152	167	136	148	6	6	3	4
Nonagricultural industries	2,100	2,306	1,220	1,411	265	276	174	173
Unemployment	187	166	105	95	37	33	12	9
Unemployment rate	7.7	6.3	7.2	5.7	12.0	10.6	6.5	5.0
Not in labor force	437	468	230	248	68	75	37	39
Females, 20 years and over								
Civilian noninstitutional population	3,248	3,486	1,772	1,927	502	536	281	287
Civilian labor force	1,460	1,643	826	934	148	174	143	161
Percent of population	45.0	47.1	46.6	48.5	29.5	32.5	50.9	56.1
Employment	1,315	1,481	738	835	130	152	129	150
Agriculture	34	31	31	28	1	--	1	--
Nonagricultural industries	1,281	1,450	707	807	129	152	129	150
Unemployment	145	162	89	99	18	22	13	10
Unemployment rate	9.9	9.8	10.7	10.6	11.9	12.7	9.3	6.5
Not in labor force	1,788	1,843	946	993	355	361	138	126
Both sexes, 16-19 years								
Civilian noninstitutional population	998	1,046	597	642	155	158	50	56
Civilian labor force	481	519	309	336	47	59	25	29
Percent of population	48.2	49.6	51.8	52.3	30.3	37.3	50.0	51.8
Employment	371	412	241	271	33	42	19	23
Agriculture	30	23	28	21	--	1	--	--
Nonagricultural industries	341	389	214	250	33	41	19	22
Unemployment	110	107	68	65	14	17	6	7
Unemployment rate	22.8	20.6	22.1	19.4	29.7	29.2	(2)	(2)
Not in labor force	518	527	287	306	108	99	25	27

¹ Includes persons of Central or South American origin and other Hispanic origin, not shown separately.

² Percent not shown where base is less than 35,000.

NOTE: See note, table 44.

**HOUSEHOLD DATA
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46. Employed persons by selected social and economic categories, race, and Hispanic origin

[In thousands]

Selected categories	Total		White		Black and other		Hispanic origin ¹	
	1977	1978	1977	1978	1977	1978	1977	1978
CHARACTERISTICS								
Total, 16 years and over	90,546	94,373	80,734	83,836	9,812	10,537	3,938	4,366
Males	53,861	55,491	48,578	49,893	5,283	5,599	2,475	2,707
Females	36,685	38,882	32,156	33,943	4,529	4,938	1,463	1,659
OCCUPATION								
White-collar workers	45,187	47,205	41,725	43,388	3,462	3,817	1,252	1,412
Professional and technical	13,692	14,245	12,536	13,012	1,156	1,233	292	326
Managers and administrators, except farm ...	9,662	10,105	9,194	9,597	468	508	222	256
Sales workers	5,728	5,951	5,472	5,651	256	300	147	170
Clerical workers	16,106	16,904	14,523	15,128	1,583	1,776	591	660
Blue-collar workers	30,211	31,531	26,524	27,611	3,687	3,920	1,839	2,039
Craft and kindred workers	11,881	12,386	11,001	11,460	880	925	539	583
Operatives, except transport	10,354	10,875	8,871	9,242	1,483	1,632	825	926
Transport equipment operatives	3,476	3,541	2,967	3,014	508	527	163	177
Nonfarm laborers	4,500	4,729	3,685	3,894	815	835	312	353
Service workers	12,392	12,839	9,941	10,298	2,451	2,541	673	736
Farm workers	2,756	2,798	2,543	2,540	212	258	174	179
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,330	1,419	1,145	1,187	186	232	198	200
Self-employed workers	1,570	1,607	1,518	1,540	52	67	15	19
Unpaid family workers	343	316	330	307	13	9	1	2
Nonagricultural industries:								
Wage and salary workers	80,805	84,253	71,624	74,448	9,180	9,805	3,536	3,940
Government	15,153	15,289	12,832	12,873	2,321	2,415	554	594
Private industries	65,651	68,966	58,792	61,575	6,859	7,390	2,982	3,346
Private households	1,376	1,363	907	932	468	431	81	82
Other industries	64,275	67,603	57,885	60,643	6,391	6,959	2,901	3,264
Self-employed workers	6,005	6,305	5,645	5,908	360	397	166	189
Unpaid family workers	492	472	472	446	21	27	22	16
FULL- AND PART-TIME STATUS²								
Full-time schedules	73,987	77,396	65,916	68,709	8,072	8,687	3,324	3,698
Part time for economic reasons	3,530	3,428	2,922	2,802	608	626	213	220
Part time for noneconomic reasons	13,028	13,549	11,896	12,325	1,132	1,223	400	447

¹ See footnote 2, table 44.

proportionately among the full- and part-time employed categories.

² Employed persons "with a job but not at work" during the survey period are distributed

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47. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

[In thousands]

Selected categories	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	1977	1978	1977	1978	1977	1978	1977	1978
CHARACTERISTICS								
Total, 16 years and over	3,938	4,366	2,335	2,665	434	477	325	351
Males	2,475	2,707	1,501	1,710	289	304	189	193
Females	1,463	1,659	834	955	145	172	136	158
OCCUPATION								
White-collar workers	1,252	1,412	636	732	139	163	138	149
Professional and technical	292	326	130	150	32	35	38	37
Managers and administrators, except farm	222	256	115	143	18	23	25	27
Sales workers	147	170	70	80	20	21	20	22
Clerical workers	591	660	321	359	69	84	55	63
Blue-collar workers	1,839	2,039	1,153	1,331	209	220	136	152
Craft and kindred workers	539	583	350	390	50	47	38	46
Operatives, except transport	825	926	477	559	113	125	70	81
Transport equipment operatives	163	177	108	120	17	22	11	8
Nonfarm laborers	312	353	218	262	29	26	17	17
Service workers	673	736	386	441	80	87	49	47
Farm workers	174	179	160	162	7	6	2	3
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	198	200	181	182	7	7	2	3
Self-employed workers	15	19	12	14	--	--	1	2
Unpaid family workers	1	2	1	2	--	--	1	--
Nonagricultural industries:								
Wage and salary workers	3,536	3,940	2,036	2,352	413	457	299	321
Government	554	594	352	380	62	73	30	28
Private industries	2,982	3,346	1,684	1,972	351	384	269	293
Private households	81	82	51	53	3	2	2	1
Other industries	2,901	3,264	1,633	1,919	348	382	267	292
Self-employed workers	166	189	93	106	11	12	22	24
Unpaid family workers	22	16	12	9	3	1	1	1
FULL- AND PART-TIME STATUS²								
Full-time schedules	3,324	3,698	1,956	2,245	389	419	287	298
Part time for economic reasons	213	220	144	152	16	20	8	11
Part time for noneconomic reasons	400	447	235	269	30	37	30	42

¹ See footnote 1, table 45.

² See footnote 2, table 46.

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48. Employed persons by sex, age, race, and Hispanic origin

[In thousands]

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	90,546	94,373	80,734	83,836	8,384	8,925	3,938	4,366
16 to 19 years	7,610	7,981	7,020	7,312	495	557	371	412
16 to 17 years	3,084	3,269	2,881	3,033	167	189	131	153
18 to 19 years	4,526	4,712	4,139	4,279	328	368	240	259
20 to 24 years	12,855	13,498	11,456	11,977	1,188	1,295	670	766
25 years and over	70,080	72,894	62,258	64,547	6,701	7,072	2,897	3,188
25 to 54 years	56,351	58,759	49,790	51,774	5,560	5,870	2,583	2,833
55 years and over	13,729	14,136	12,468	12,774	1,141	1,202	314	355
Males, 16 years and over	53,861	55,491	48,578	49,893	4,496	4,717	2,475	2,707
16 to 19 years	4,124	4,279	3,794	3,916	283	303	223	234
16 to 17 years	1,704	1,767	1,583	1,637	104	105	77	90
18 to 19 years	2,420	2,512	2,211	2,279	179	198	145	144
20 to 24 years	7,031	7,330	6,300	6,560	625	658	404	472
25 years and over	42,707	43,883	38,484	39,417	3,589	3,757	1,848	2,001
25 to 54 years	34,164	35,149	30,662	31,472	2,953	3,074	1,630	1,755
55 years and over	8,543	8,734	7,822	7,945	636	683	219	246
Females, 16 years and over	36,685	38,882	32,156	33,943	3,887	4,207	1,463	1,659
16 to 19 years	3,486	3,702	3,226	3,396	212	254	148	178
16 to 17 years	1,379	1,502	1,298	1,396	63	84	54	63
18 to 19 years	2,107	2,200	1,927	2,000	149	170	94	115
20 to 24 years	5,824	6,168	5,156	5,418	564	638	266	294
25 years and over	27,376	29,011	23,775	25,130	3,112	3,317	1,049	1,187
25 to 54 years	22,188	23,609	19,129	20,302	2,607	2,797	953	1,079
55 years and over	5,188	5,402	4,646	4,828	505	520	96	109

¹ See footnote 1, table 44.

² See footnote 2, table 44.

49. Rates of unemployment by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	1977	1978	1977	1978	1977	1978	1977	1978
Total, 16 years and over	7.0	6.0	6.2	5.2	13.9	12.6	10.1	9.1
16 to 19 years	17.7	16.3	15.4	13.9	41.1	38.6	22.8	20.6
16 to 17 years	19.9	19.3	17.9	17.0	44.4	43.9	27.3	28.6
18 to 19 years	16.2	14.2	13.6	11.5	39.3	35.5	20.1	15.1
20 to 24 years	10.9	9.5	9.3	7.9	24.2	21.7	12.2	10.8
25 years and over	4.1	4.0	4.5	3.6	8.6	7.5	7.6	6.9
25 to 54 years	4.9	4.2	4.6	3.8	9.2	8.1	7.6	7.1
55 years and over	4.1	3.2	3.9	3.0	5.5	5.0	8.2	5.3
Males, 16 years and over	6.2	5.2	5.5	4.5	13.1	11.6	9.0	7.6
16 to 19 years	17.3	15.7	15.0	13.5	39.1	36.5	20.5	19.5
16 to 17 years	19.5	19.2	17.6	16.9	40.8	42.8	24.4	27.2
18 to 19 years	15.6	13.2	13.0	10.8	38.0	32.7	18.2	13.8
20 to 24 years	10.7	9.1	9.3	7.6	23.0	20.8	12.2	9.3
25 years and over	4.3	3.3	3.8	3.0	8.0	6.7	6.6	5.6
25 to 54 years	4.3	3.4	3.9	3.0	8.3	7.1	6.5	5.6
55 years and over	3.9	3.1	3.6	2.9	6.3	4.9	7.2	5.0
Females, 16 years and over	8.2	7.2	7.3	6.2	14.8	13.7	11.9	11.3
16 to 19 years	18.3	17.0	15.9	14.4	43.6	41.0	26.1	22.0
16 to 17 years	20.4	19.5	18.2	17.1	49.4	45.2	31.0	30.3
18 to 19 years	16.8	15.3	14.2	12.4	40.7	38.6	23.0	16.6
20 to 24 years	11.2	10.1	9.3	8.3	25.5	22.6	12.3	13.1
25 years and over	6.0	5.1	5.6	4.5	9.3	8.5	9.3	9.0
25 to 54 years	6.4	5.4	5.8	4.9	10.2	9.1	9.3	9.3
55 years and over	4.5	3.3	4.5	3.1	4.5	5.1	8.6	6.9

¹ See footnote 1, table 44.

² See footnote 2, table 44.

HOUSEHOLD DATA ANNUAL AVERAGES

50. Unemployed persons by duration of unemployment, race, and Hispanic origin

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin ¹	
	1977	1978	1977	1978	1977	1978	1977	1978
Duration								
Total, 16 years and over	6,855	6,047	5,373	4,620	1,482	1,427	441	435
Less than 5 weeks	2,856	2,793	2,290	2,212	566	581	201	218
5 to 14 weeks	2,089	1,875	1,604	1,413	485	462	128	127
15 weeks and over	1,911	1,379	1,479	995	431	384	112	90
15 to 26 weeks	896	746	701	553	194	193	57	53
27 weeks and over	1,015	633	778	442	237	191	56	38
Average (mean) duration, in weeks	14.3	11.9	14.0	11.3	15.4	14.0	13.2	10.9
Median duration, in weeks	7.0	5.9	6.8	5.5	7.8	7.2	6.2	5.0
Percent distribution								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.7	46.2	42.6	47.9	38.2	40.7	45.5	50.0
5 to 14 weeks	30.5	31.0	29.9	30.6	32.7	32.4	29.0	29.1
15 weeks and over	27.9	22.8	27.5	21.5	29.1	26.9	25.6	20.9
15 to 26 weeks	13.1	12.3	13.0	12.0	13.1	13.5	12.9	12.2
27 weeks and over	14.8	10.5	14.5	9.6	16.0	13.4	12.7	8.7

¹ See footnote 2, table 44.

51. Unemployed persons by reason for unemployment, race and Hispanic origin

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin ¹	
	1977	1978	1977	1978	1977	1978	1977	1978
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,855	6,047	5,373	4,620	1,482	1,427	441	435
Job losers	3,103	2,514	2,497	1,972	606	542	222	200
On layoff	853	698	738	593	116	105	45	42
Other job losers	2,249	1,817	1,759	1,379	490	438	177	158
Job leavers	889	851	759	1,938	130	142	52	56
Reentrants	1,926	1,814	1,448	1,348	477	467	104	111
New entrants	938	867	669	591	268	276	64	67
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	45.2	41.5	46.4	42.6	40.9	38.0	50.2	46.1
On layoff	12.4	11.5	13.7	12.8	7.8	7.3	10.2	9.7
Other job losers	32.8	30.0	32.7	29.8	33.1	30.7	40.0	36.4
Job leavers	13.0	14.1	14.1	15.4	8.8	9.9	11.8	12.9
Reentrants	28.1	30.0	27.0	29.2	32.2	32.7	23.5	25.6
New entrants	13.7	14.3	12.5	12.8	18.1	19.4	14.5	15.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	3.2	2.5	2.9	2.3	5.3	4.6	5.1	4.2
Job leavers .....	.9	.8	.9	.8	1.2	1.2	1.2	1.2
Reentrants	2.0	1.8	1.7	1.5	4.2	3.9	2.4	2.3
New entrants	1.0	.9	.8	.7	2.4	2.3	1.5	1.4

¹ See footnote 2, table 44.

HOUSEHOLD DATA ANNUAL AVERAGES

52. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age by race, and Hispanic origin

[Numbers in thousands]

	Total		White		Black and other		Hispanic origin ¹	
	1977	1978	1977	1978	1977	1978	1977	1978
VETERANS ²								
Total, 20 to 34 years:								
Civilian noninstitutional population	6,818	6,486	6,119	5,843	699	643	N.A.	249
Civilian labor force	6,487	6,173	5,856	5,580	631	593	N.A.	230
Employed	6,015	5,859	5,484	5,331	531	528	N.A.	215
Unemployed	472	314	372	249	100	65	N.A.	15
Unemployment rate	7.3	5.1	6.4	4.5	15.8	11.0	N.A.	6.5
20 to 24 years								
Civilian noninstitutional population	1,041	753	867	652	174	101	N.A.	47
Civilian labor force	927	672	782	585	145	87	N.A.	39
Employed	777	592	674	526	103	66	N.A.	35
Unemployed	150	80	108	59	42	21	N.A.	4
Unemployment rate	16.2	11.9	13.8	10.1	29.0	24.1	N.A.	10.3
25 to 29 years								
Civilian noninstitutional population	2,989	2,357	2,702	2,111	287	246	N.A.	100
Civilian labor force	2,845	2,233	2,584	2,005	261	228	N.A.	94
Employed	2,644	2,100	2,417	1,900	227	200	N.A.	87
Unemployed	201	133	167	105	34	28	N.A.	7
Unemployment rate	7.1	6.0	6.5	5.2	13.0	12.3	N.A.	7.4
30 to 34 years								
Civilian noninstitutional population	2,788	3,376	2,550	3,080	238	296	N.A.	102
Civilian labor force	2,715	3,268	2,490	2,990	225	278	N.A.	97
Employed	2,594	3,167	2,393	2,905	201	262	N.A.	93
Unemployed	121	101	97	85	24	16	N.A.	4
Unemployment rate	4.5	3.1	3.9	2.8	10.7	5.8	N.A.	4.1
NONVETERANS								
Total, 20 to 34 years:								
Civilian noninstitutional population	17,583	18,486	15,298	16,060	2,285	2,426	N.A.	1,209
Civilian labor force	15,888	16,779	13,966	14,738	1,922	2,041	N.A.	1,110
Employed	14,695	15,746	13,047	13,973	1,648	1,773	N.A.	1,025
Unemployed	1,193	1,033	919	765	274	268	N.A.	85
Unemployment rate	7.5	6.2	6.6	5.2	14.3	13.1	N.A.	7.7
20 to 24 years								
Civilian noninstitutional population	8,156	8,390	7,136	7,289	1,020	1,101	N.A.	532
Civilian labor force	6,950	7,186	6,162	6,337	788	849	N.A.	469
Employed	6,254	6,567	5,626	5,881	628	686	N.A.	427
Unemployed	696	619	536	456	160	163	N.A.	42
Unemployment rate	10.0	8.6	8.7	7.2	20.3	19.2	N.A.	9.0
25 to 29 years								
Civilian noninstitutional population	5,367	6,096	4,666	5,324	701	772	N.A.	394
Civilian labor force	5,058	5,771	4,433	5,082	625	689	N.A.	375
Employed	4,735	5,491	4,182	4,870	553	621	N.A.	349
Unemployed	323	280	251	212	72	68	N.A.	26
Unemployment rate	6.4	4.9	5.7	4.2	11.5	9.9	N.A.	6.9
30 to 34 years								
Civilian noninstitutional population	4,060	4,000	3,496	3,447	564	553	N.A.	283
Civilian labor force	3,880	3,822	3,371	3,319	509	503	N.A.	266
Employed	3,706	3,688	3,239	3,222	467	466	N.A.	249
Unemployed	174	134	132	97	42	37	N.A.	17
Unemployment rate	4.5	3.5	3.9	2.9	8.3	7.4	N.A.	6.4

¹ See footnote 2, table 44.

N.A.=Not available.

² Vietnam-Era veterans are those who served between August 5, 1964, and May 7, 1975.

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

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
Total												
Civilian noninstitutional population	106,356	107,391	45,234	45,323	61,122	62,068	50,069	51,550	4,725	4,827	45,344	46,723
Civilian labor force	67,094	68,738	27,501	28,108	39,593	40,630	30,307	31,682	2,939	3,032	27,368	28,650
Percent of population	63.1	64.0	60.8	62.0	64.8	65.5	60.5	61.5	62.2	62.8	60.4	61.3
Employed	62,229	64,529	25,123	26,029	37,106	38,499	28,317	29,844	2,862	2,952	25,455	26,892
Unemployed	4,866	4,210	2,380	2,079	2,486	2,131	1,990	1,837	77	79	1,913	1,758
Unemployment rate	7.3	6.1	8.7	7.4	6.3	5.2	6.6	5.8	2.6	2.6	7.0	6.1
Not in labor force	39,262	38,653	17,732	17,215	21,530	21,437	19,762	19,869	1,785	1,795	17,977	18,073
Males, 20 years and over												
Civilian noninstitutional population	44,565	45,158	18,614	18,660	25,951	26,499	21,231	21,848	2,150	2,180	19,081	19,668
Civilian labor force	36,012	36,459	14,453	14,484	21,559	21,975	16,452	17,005	1,793	1,807	14,659	15,198
Percent of population	80.8	80.7	77.6	77.6	83.1	82.9	77.5	77.8	83.4	82.9	76.8	77.3
Employed	34,050	34,880	13,425	13,658	20,625	21,223	15,687	16,332	1,770	1,781	13,917	14,551
Unemployed	1,962	1,579	1,028	825	934	753	765	673	24	26	741	647
Unemployment rate	5.4	4.3	7.1	5.7	4.3	3.4	4.6	4.0	1.3	1.4	5.1	4.3
Not in labor force	8,553	8,699	4,160	4,176	4,393	4,523	4,779	4,842	356	372	4,423	4,470
Females, 20 years and over												
Civilian noninstitutional population	50,686	51,219	22,182	22,267	28,504	28,953	23,474	24,269	2,017	2,064	21,457	22,205
Civilian labor force	24,838	25,897	10,776	11,268	14,062	14,629	10,848	11,518	831	880	10,017	10,638
Percent of population	49.0	50.6	48.6	50.6	49.3	50.5	46.2	47.5	41.2	42.7	46.7	47.9
Employed	23,085	24,360	9,942	10,511	13,143	13,849	10,113	10,820	799	849	9,314	9,971
Unemployed	1,752	1,537	833	757	919	781	734	699	32	31	702	668
Unemployment rate	7.1	5.9	7.7	6.7	6.5	5.3	6.8	6.1	3.8	3.5	7.0	6.3
Not in labor force	25,848	25,322	11,407	10,999	14,441	14,323	12,626	12,751	1,186	1,184	11,440	11,567
Both sexes, 16-19 years												
Civilian noninstitutional population	11,106	11,014	4,438	4,397	6,668	6,617	5,364	5,433	558	583	4,806	4,850
Civilian labor force	6,245	6,382	2,273	2,356	3,972	4,026	3,007	3,158	315	344	2,692	2,814
Percent of population	56.2	57.9	51.2	53.6	59.6	60.8	56.1	58.1	56.4	59.0	56.0	58.0
Employed	5,094	5,289	1,756	1,860	3,338	3,428	2,516	2,692	293	321	2,223	2,371
Unemployed	1,151	1,093	517	496	634	597	491	466	22	22	469	444
Unemployment rate	18.4	17.1	22.7	21.1	16.0	14.8	16.3	14.7	6.9	6.5	17.4	15.8
Not in labor force	4,861	4,632	2,165	2,039	2,696	2,591	2,357	2,275	243	239	2,114	2,036
White												
Civilian noninstitutional population	91,944	92,782	34,774	34,856	57,170	57,926	45,651	46,798	4,447	4,509	41,204	42,289
Civilian labor force	58,344	59,566	21,354	21,732	36,990	37,834	27,763	28,890	2,789	2,859	24,974	26,031
Percent of population	63.5	64.2	61.4	62.3	64.7	65.3	60.8	61.7	62.7	63.4	60.6	61.6
Employed	54,652	56,464	19,866	20,491	34,786	35,973	26,082	27,372	2,721	2,796	23,361	24,576
Unemployed	3,692	3,102	1,488	1,241	2,204	1,861	1,682	1,518	67	63	1,615	1,455
Unemployment rate	6.3	5.2	7.0	5.7	6.0	4.9	6.1	5.3	2.4	2.2	6.5	5.6
Not in labor force	33,600	33,216	13,421	13,124	20,179	20,091	17,887	17,908	1,659	1,650	16,228	16,258
Black and other												
Civilian noninstitutional population	14,412	14,609	10,459	10,467	3,953	4,142	4,419	4,752	277	318	4,142	4,434
Civilian labor force	8,750	9,172	6,148	6,376	2,602	2,796	2,544	2,792	151	172	2,393	2,620
Percent of population	60.7	62.8	58.8	60.9	65.8	67.5	57.6	58.7	54.4	54.3	57.8	59.1
Employed	7,577	8,065	5,257	5,538	2,320	2,527	2,235	2,472	141	156	2,094	2,316
Unemployed	1,174	1,108	892	839	282	269	308	319	10	17	298	302
Unemployment rate	13.4	12.1	14.5	13.2	10.8	9.6	12.1	11.4	6.6	9.7	12.5	11.5
Not in labor force	5,662	5,437	4,312	4,091	1,350	1,346	1,875	1,961	126	145	1,749	1,816

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54. Employment status of the population in poverty and nonpoverty areas by race

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
Total												
Civilian noninstitutional population	29,087	28,976	127,338	129,965	11,530	11,155	94,826	96,236	17,557	17,821	32,512	33,729
Civilian labor force	16,049	16,285	81,352	84,135	6,111	6,060	60,983	62,678	9,938	10,225	20,369	21,456
Percent of population	55.2	56.2	63.9	64.7	53.0	54.3	64.3	65.1	56.6	57.4	62.7	63.6
Employed	14,575	14,873	75,970	79,500	5,293	5,313	56,935	59,216	9,282	9,560	19,035	20,284
Unemployed	1,474	1,412	5,382	4,635	818	747	4,047	3,463	656	665	1,334	1,172
Unemployment rate	9.2	8.7	6.6	5.5	13.4	12.3	6.6	5.5	6.6	6.5	6.5	5.5
Not in labor force	13,038	12,691	45,986	45,831	5,419	5,095	33,844	33,557	7,619	7,596	12,143	12,273
White												
Civilian noninstitutional population	20,479	20,445	117,116	119,135	5,939	5,795	86,005	86,987	14,539	14,650	31,111	32,148
Civilian labor force	11,545	11,694	74,562	76,762	3,247	3,210	55,097	56,357	8,298	8,485	19,465	20,405
Percent of population	56.4	57.2	63.7	64.4	54.7	55.4	64.1	64.8	57.1	57.9	62.6	63.5
Employed	10,772	10,963	69,962	72,873	2,933	2,930	51,719	53,534	7,839	8,032	18,243	19,340
Unemployed	774	732	4,600	3,888	314	279	3,378	2,824	459	453	1,222	1,066
Unemployment rate	6.7	6.3	6.2	5.1	9.7	8.7	6.1	5.0	5.5	5.3	6.3	5.2
Not in labor force	8,933	8,751	42,554	42,373	2,692	2,586	30,908	30,631	6,241	6,166	11,646	11,742
Black and other												
Civilian noninstitutional population	8,609	8,531	10,222	10,830	5,591	5,360	8,822	9,249	3,018	3,171	1,401	1,582
Civilian labor force	4,504	4,591	6,790	7,373	2,864	2,850	5,886	6,322	1,640	1,741	904	1,051
Percent of population	52.3	53.8	66.4	68.1	51.2	53.2	66.7	68.4	54.3	54.9	64.5	66.4
Employed	3,803	3,911	6,008	6,626	2,360	2,383	5,216	5,682	1,443	1,528	792	944
Unemployed	700	680	782	147	504	468	670	640	196	213	112	107
Unemployment rate	15.5	14.8	11.5	10.1	17.6	16.4	11.4	10.1	12.0	12.2	12.4	10.1
Not in labor force	4,105	3,940	3,432	3,458	2,727	2,510	2,935	2,927	1,378	1,430	497	531

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

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
Total												
Both sexes, 16 years and over	9.2	8.7	6.6	5.5	13.4	12.3	6.6	5.5	6.6	6.5	6.5	5.5
Males, 20 years and over	7.0	6.2	4.8	3.8	11.5	9.6	4.9	3.8	4.4	4.4	4.8	3.8
Females, 20 years and over	8.9	8.7	6.6	5.5	11.5	11.0	6.6	5.4	7.1	7.2	6.6	5.5
Both sexes, 16-19 years	22.7	22.0	16.8	15.2	32.1	32.3	17.1	15.6	17.3	16.0	15.9	14.2
White												
Both sexes, 16 years and over	6.7	6.3	6.2	5.1	9.7	8.7	6.1	5.0	5.5	5.3	6.3	5.2
Males, 20 years and over	5.2	4.7	4.5	3.5	8.8	6.8	4.5	3.5	3.8	3.9	4.6	3.6
Females, 20 years and over	6.7	6.5	6.2	5.0	8.8	8.4	6.1	4.9	5.9	5.8	6.3	5.4
Both sexes, 16-19 years	15.8	14.6	15.3	13.8	19.0	21.4	15.4	14.0	14.7	12.3	15.0	13.2
Black and other												
Both sexes, 16 years and over	15.5	14.8	11.5	10.1	17.6	16.4	11.4	10.1	12.0	12.2	12.4	10.1
Males, 20 years and over	12.4	10.8	8.4	7.3	15.1	13.2	8.4	7.3	8.0	7.1	8.1	6.8
Females, 20 years and over	13.6	13.4	10.5	9.0	14.1	13.6	10.3	9.1	12.7	13.2	11.5	8.4
Both sexes, 16-19 years	40.2	39.3	36.8	33.8	45.4	42.9	37.3	34.1	30.7	33.4	34.7	32.6

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56. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	1977				1978			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Unemployed, total	6,855	39.1	60.9	54.5	6,047	38.2	61.8	55.8
Unemployed, in families ¹	5,934	29.6	70.4	63.0	5,199	28.1	71.9	65.0
Husbands ²	1,437	51.6	48.4	37.4	1,118	49.9	50.1	39.3
Wives	1,402	14.7	85.3	79.9	1,203	12.6	87.4	82.2
Relatives in husband-wife families	1,926	11.1	88.9	84.7	1,741	9.9	90.1	85.9
Women who head families	413	80.6	19.4	12.1	407	81.1	18.9	13.0
Relatives of female heads	756	34.7	65.3	52.8	730	34.5	65.5	54.8
Unemployed, not in families ³	921	--	--	--	848	--	--	--
White								
Unemployed, total	5,373	37.4	62.6	56.4	4,620	36.4	63.6	57.9
Unemployed, in families ¹	4,635	27.4	72.6	65.4	3,960	25.8	74.2	67.5
Husbands ²	1,218	51.9	48.1	36.9	936	50.0	50.0	38.8
Wives	1,185	13.9	86.1	81.2	1,003	12.0	88.0	83.0
Relatives in husband-wife families	1,557	10.1	89.9	86.2	1,383	9.3	90.7	86.9
Women who head families	244	73.0	27.0	16.4	234	77.4	22.6	16.7
Relatives of female heads	431	32.0	68.0	55.2	404	31.2	68.8	58.9
Unemployed, not in families ³	738	--	--	--	660	--	--	--
Black⁴								
Unemployed, total	1,355	45.1	54.9	47.5	1,286	44.3	55.7	48.8
Unemployed, in families ¹	1,194	37.7	62.3	53.9	1,126	36.4	63.6	55.8
Husbands ²	188	49.5	50.5	39.9	156	49.4	50.6	41.0
Wives	192	18.2	81.8	73.4	176	14.2	85.8	79.5
Relatives in husband-wife families	334	15.3	84.7	78.4	315	13.0	87.0	81.6
Women who head families	163	92.0	8.0	6.1	168	86.9	13.1	7.7
Relatives of female heads	317	38.2	61.8	49.2	311	38.9	61.1	49.5
Unemployed, not in families ³	161	--	--	--	160	--	--	--

¹ In primary families only.

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

³ Includes unrelated individuals and persons in secondary families.

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

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57. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	1977				1978			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Employed, total	90,546	38.1	61.9	52.8	94,373	37.5	62.5	53.7
Employed, in families ¹	78,823	28.9	71.1	60.7	81,307	27.5	72.5	62.3
Husbands ²	38,976	42.5	57.5	42.0	39,344	40.5	59.5	43.8
Wives	20,745	9.2	90.8	86.3	21,598	8.4	91.6	87.4
Relatives in husband-wife families	11,969	6.3	93.7	90.1	12,605	6.2	93.8	90.6
Women who head families	4,009	67.0	33.0	23.0	4,405	66.2	33.8	23.7
Relatives of female heads	3,124	28.7	71.3	60.3	3,355	27.4	72.6	61.7
Employed, not in families ³	11,723	--	--	--	13,066	--	--	--
White								
Employed, total	80,734	37.8	62.2	53.0	83,836	37.0	63.0	53.9
Employed, in families ¹	70,461	28.7	71.3	60.8	72,510	27.2	72.8	62.4
Husbands ²	35,566	43.0	57.0	41.1	35,862	41.0	59.0	42.9
Wives	18,591	8.7	91.3	86.8	19,373	8.1	91.9	87.8
Relatives in husband-wife families	10,929	6.1	93.9	90.4	11,434	6.0	94.0	91.0
Women who head families	2,962	64.9	35.1	24.0	3,260	63.5	36.5	25.4
Relatives of female heads	2,413	28.7	71.3	60.7	2,581	27.0	73.0	62.4
Employed, not in families ³	10,273	--	--	--	11,326	--	--	--
Black⁴								
Employed, total	8,384	42.1	57.9	50.4	8,925	42.5	57.5	50.3
Employed, in families ¹	7,166	32.3	67.7	59.0	7,464	31.2	68.8	60.1
Husbands ²	2,887	37.3	62.7	51.1	2,898	35.7	64.3	53.3
Wives	1,810	13.0	87.0	81.6	1,840	11.6	88.4	82.9
Relatives in husband-wife families	826	8.6	91.4	86.0	923	8.6	91.4	85.2
Women who head families	991	74.3	25.7	19.1	1,078	73.9	26.1	18.9
Relatives of female heads	652	29.9	70.1	57.7	725	28.6	71.4	59.0
Employed, not in families ³	1,218	--	--	--	1,461	--	--	--

¹ See footnote 1, table 56.

² See footnote 2, table 56.

³ See footnote 3, table 56.

⁴ See footnote 4, table 56.

**ESTABLISHMENT DATA
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls by industry and major manufacturing group

[In thousands]

Industry	1975	1976	1977	1978 ^P	Change from	
					1976-77	1977-78 ^P
TOTAL	76,945	79,382	82,256	85,760	2,874	3,504
GOODS-PRODUCING	22,600	23,352	24,288	25,381	936	1,093
MINING	752	779	809	837	30	28
CONSTRUCTION	3,525	3,576	3,833	4,213	257	380
MANUFACTURING	18,323	18,997	19,647	20,331	650	684
DURABLE GOODS	10,688	11,077	11,573	12,159	496	586
Lumber and wood products	614.7	679.6	722.0	750.7	42.4	28.7
Furniture and fixtures	416.9	444.3	462.8	486.4	18.5	23.6
Stone, clay, and glass products	629.0	644.4	668.3	696.1	23.9	27.8
Primary metal industries	1,139.0	1,154.9	1,179.3	1,205.9	24.4	26.6
Fabricated metal products	1,458.3	1,510.9	1,576.6	1,652.9	65.7	76.3
Machinery, except electrical	2,056.8	2,065.2	2,179.4	2,337.0	114.2	157.6
Electric and electronic equipment	1,701.6	1,774.3	1,868.3	1,965.9	94.0	97.6
Transportation equipment	1,715.0	1,798.7	1,862.5	1,956.3	63.8	93.8
Instruments and related products	550.1	575.3	614.9	654.1	39.6	39.2
Miscellaneous manufacturing industries	406.8	429.1	438.8	454.0	9.7	15.2
NONDURABLE GOODS	7,635	7,920	8,074	8,172	154	98
Food and kindred products	1,657.5	1,688.9	1,703.3	1,694.3	14.4	-9.0
Tobacco manufactures	75.5	76.6	74.1	72.6	-2.5	-1.5
Textile mill products	867.9	918.8	913.6	910.6	-5.2	-3.0
Apparel and other textile products	1,243.3	1,318.1	1,312.3	1,315.3	-5.8	3.0
Paper and allied products	642.0	675.5	692.9	702.0	17.4	9.1
Printing and publishing	1,083.4	1,099.2	1,137.9	1,181.4	38.7	43.5
Chemicals and allied products	1,014.7	1,042.5	1,071.3	1,088.0	28.8	16.7
Petroleum and coal products	194.4	198.5	202.3	208.7	3.8	6.4
Rubber and misc. plastics products	608.1	639.5	712.4	748.3	72.9	35.9
Leather and leather products	248.2	262.7	253.4	250.8	-9.3	-2.6
SERVICE-PRODUCING	54,345	56,030	57,968	60,380	1,938	2,412
TRANSPORTATION AND PUBLIC UTILITIES	4,542	4,582	4,696	4,858	114	162
WHOLESALE AND RETAIL TRADE	17,060	17,755	18,492	19,392	737	900
WHOLESALE TRADE	4,415	4,546	4,697	4,897	151	200
RETAIL TRADE	12,645	13,209	13,795	14,496	586	701
FINANCE, INSURANCE, AND REAL ESTATE	4,165	4,271	4,452	4,676	181	224
SERVICES	13,892	14,551	15,249	15,976	698	727
GOVERNMENT	14,686	14,871	15,079	15,478	208	399
FEDERAL	2,748	2,733	2,727	2,754	-6	27
STATE AND LOCAL	11,937	12,138	12,352	12,723	214	371

p=preliminary.

**ESTABLISHMENT DATA
ANNUAL AVERAGES**

**2. Production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group**

[In thousands]

Industry	1975	1976	1977	1978 ^P	Change from	
					1976-77	1977-78 ^P
TOTAL PRIVATE	50,991	52,897	55,040	57,536	2,143	2,496
MINING	571	592	615	628	23	13
CONSTRUCTION	2,808	2,814	3,004	3,337	190	333
MANUFACTURING	13,043	13,638	14,110	14,611	472	501
DURABLE GOODS	7,557	7,914	8,291	8,727	377	436
Lumber and wood products	516.9	576.3	616.5	643.6	40.2	27.1
Furniture and fixtures	337.3	364.0	380.7	400.1	16.7	19.4
Stone, clay, and glass products	499.2	513.5	532.9	554.0	19.4	21.1
Primary metal industries	886.6	904.4	920.4	948.0	16.0	27.6
Fabricated metal products	1,090.4	1,139.0	1,193.6	1,255.1	54.6	61.5
Machinery, except electrical	1,339.3	1,339.9	1,425.4	1,537.0	85.5	111.6
Electric and electronic equipment	1,091.2	1,159.9	1,227.1	1,290.3	67.2	63.2
Transportation equipment	1,153.7	1,235.3	1,284.1	1,351.2	48.8	67.1
Instruments and related products	332.2	352.7	375.3	401.2	22.6	25.9
Miscellaneous manufacturing industries	310.6	328.7	334.7	346.7	6.0	12.0
NONDURABLE GOODS	5,485	5,724	5,819	5,884	95	65
Food and kindred products	1,120.3	1,145.1	1,154.3	1,147.1	9.2	-7.2
Tobacco manufactures	62.4	63.6	59.7	57.7	-3.9	-2.0
Textile mill products	752.4	800.4	795.2	793.0	-5.2	-2.2
Apparel and other textile products	1,066.6	1,134.3	1,126.1	1,130.1	-8.2	4.0
Paper and allied products	479.7	508.3	519.3	527.6	11.0	8.3
Printing and publishing	624.0	624.7	644.3	665.7	19.6	21.4
Chemicals and allied products	579.6	600.1	614.7	624.2	14.6	9.5
Petroleum and coal products	123.0	127.8	131.3	136.7	3.5	5.4
Rubber and misc. plastics products	464.7	492.9	557.4	586.7	64.5	29.3
Leather and leather products	212.6	227.0	217.2	215.0	-9.8	-2.2
TRANSPORTATION AND PUBLIC UTILITIES	3,894	3,918	3,993	4,088	75	95
WHOLESALE AND RETAIL TRADE	15,023	15,649	16,297	17,092	648	795
WHOLESALE TRADE	3,637	3,746	3,869	4,036	123	167
RETAIL TRADE	11,387	11,904	12,427	13,056	523	629
FINANCE, INSURANCE, AND REAL ESTATE	3,173	3,243	3,385	3,556	142	171
SERVICES	12,479	13,043	13,636	14,225	593	589

¹ For coverage of series, see footnote 1, table B-2 (page 84).

p=preliminary.

**ESTABLISHMENT DATA
ANNUAL AVERAGES**

**3. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group**

Industry	Average weekly hours				Average hourly earnings				Average weekly earnings			
	1975	1976	1977	1978 ^P	1975	1976	1977	1978 ^P	1975	1976	1977	1978 ^P
TOTAL PRIVATE	36.1	36.1	36.0	35.8	\$4.53	\$4.86	\$5.24	\$5.68	\$163.53	\$175.45	\$188.64	\$203.34
MINING	41.9	42.4	43.4	43.4	5.95	6.46	6.94	7.61	249.31	273.90	301.20	330.27
CONSTRUCTION	36.4	36.8	36.5	36.7	7.31	7.70	8.09	8.62	266.08	283.36	295.29	316.35
MANUFACTURING	39.5	40.1	40.3	40.4	4.83	5.22	5.67	6.16	190.79	209.32	228.50	248.86
<i>Overtime hours</i>	2.6	3.1	3.4	3.6	-	-	-	-	-	-	-	-
DURABLE GOODS	39.9	40.6	41.0	41.1	5.15	5.58	6.06	6.57	205.49	226.55	248.46	270.03
<i>Overtime hours</i>	2.6	3.2	3.7	3.8	-	-	-	-	-	-	-	-
Lumber and wood products	38.7	39.9	39.8	39.7	4.26	4.72	5.09	5.59	164.86	188.33	202.58	221.92
Furniture and fixtures	38.0	38.8	39.0	39.3	3.77	3.99	4.34	4.67	143.26	154.81	169.26	183.53
Stone, clay, and glass products	40.4	41.1	41.3	41.6	4.92	5.33	5.80	6.31	198.77	219.06	239.54	262.50
Primary metal industries	40.0	40.8	41.3	41.8	6.18	6.77	7.40	8.19	247.20	276.22	305.62	342.34
Fabricated metal products	40.1	40.8	41.0	41.0	5.05	5.49	5.90	6.33	202.51	223.99	241.90	259.53
Machinery, except electrical	40.8	41.2	41.5	42.0	5.38	5.78	6.25	6.75	219.50	238.14	259.38	283.50
Electric and electronic												
equipment	39.5	40.0	40.4	40.3	4.64	4.96	5.39	5.82	183.28	198.40	217.76	234.55
Transportation equipment	40.4	41.7	42.5	42.1	6.07	6.62	7.28	7.89	245.23	276.05	309.40	332.17
Instruments and related												
products	39.5	40.3	40.6	40.9	4.53	4.93	5.29	5.70	178.94	198.68	214.77	233.13
Miscellaneous manufacturing												
industries	38.5	38.8	38.8	38.8	3.81	4.04	4.36	4.69	146.69	156.75	169.17	181.97
NONDURABLE GOODS	38.8	39.4	39.4	39.4	4.37	4.70	5.10	5.53	169.56	185.18	200.94	217.88
<i>Overtime hours</i>	2.7	3.0	3.2	3.2	-	-	-	-	-	-	-	-
Food and kindred products	40.3	40.5	40.0	39.8	4.61	4.97	5.37	5.80	185.78	201.29	214.80	230.84
Tobacco manufactures	38.2	37.5	37.9	38.2	4.57	4.99	5.62	6.27	174.57	187.13	213.00	239.51
Textile mill products	39.3	40.1	40.4	40.4	3.41	3.69	3.98	4.29	134.01	147.97	160.79	173.32
Apparel and other textile products	35.2	35.8	35.6	35.6	3.17	3.40	3.62	3.94	111.58	121.72	128.87	140.26
Paper and allied products	41.6	42.5	42.9	42.9	5.01	5.47	5.96	6.52	208.42	232.48	255.68	279.71
Printing and publishing	37.0	37.5	37.7	37.6	5.38	5.71	6.11	6.47	199.06	214.13	230.35	243.27
Chemicals and allied products	41.0	41.6	41.7	41.8	5.39	5.91	6.43	7.01	220.99	245.86	268.13	293.02
Petroleum and coal products	41.2	42.1	42.7	43.5	6.47	7.21	7.82	8.60	266.56	303.54	333.91	374.10
Rubber and misc. plastics products ..	39.9	40.7	41.0	40.9	4.38	4.65	5.17	5.50	174.76	189.26	211.97	224.95
Leather and leather products	37.2	37.4	36.9	37.1	3.20	3.40	3.61	3.90	119.04	127.16	133.21	144.69
TRANSPORTATION AND PUBLIC UTILITIES	39.7	39.8	39.9	40.0	5.88	6.45	6.99	7.54	233.44	256.71	278.90	301.60
WHOLESALE AND RETAIL TRADE	33.9	33.7	33.3	32.8	3.73	3.97	4.27	4.66	126.45	133.79	142.19	152.85
WHOLESALE TRADE	38.7	38.7	38.8	38.8	4.72	5.03	5.39	5.88	182.66	194.66	209.13	228.14
RETAIL TRADE	32.4	32.1	31.6	31.0	3.36	3.57	3.85	4.19	108.86	114.60	121.66	129.89
FINANCE, INSURANCE, AND REAL ESTATE	36.5	36.4	36.4	36.5	4.06	4.27	4.54	4.90	148.19	155.43	165.26	178.85
SERVICES	33.5	33.3	33.0	32.8	4.02	4.31	4.65	4.99	134.67	143.52	153.45	163.67

¹For coverage of series, see footnote 1, table B-2 (page 84).

^P=preliminary unweighted averages.

Explanatory Notes

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

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, family 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 56,000 households, representing 614 areas in 1,113 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 industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definition and coverage, sources of information, methods of collection, and estimating procedures. 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 non-agricultural 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 employers. 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, domestic service, self-employment, unpaid family work, and religious organizations). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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, and churches are not covered by unemployment insurance whereas these are included in BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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 upon 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 calendar 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, 56,000 occupied units are eligible for interview. About 2,500 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 56,000 occupied units, there are 9,500 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.

Beginning in September 1975, the sample was enlarged by 9,000

households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

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 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. Measurements of mean and median duration are computed from a distribution of 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) Reentrants 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 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.

Employment-population ratios represent the proportion of the total noninstitutional population that is employed. This measure can also be computed as a ratio of employment and the civilian noninstitutional population.

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-hour 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 identified themselves 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, Alaskan Natives, Asian and Pacific Islanders, 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.

Hispanic 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 Hispanic 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 activity are published every month in table A-7 for 16-21 year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

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.

The *metropolitan areas* classification consists of the total of all areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

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 jobseeking 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.

Beginning in 1978, the introduction of an expansion of the sample and revisions in the estimation procedures resulted in an increase of roughly a quarter of a million in the overall civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households has race determined by the household respondent and seven-eighths of the sample households has race determined by interviewer observation. The corresponding numbers are 2/8 and 6/8 in November 1978, 3/8 and 5/8 in December 1978, 4/8 and 4/8 from January 1978 through September 1978, 5/8 and 3/8 in October 1979, and so on, until the entire sample has race determined by the household respondent in January 1980. Although the impact of this change is presently unknown, it is possible that it will cause a break in the time series given for some racial statistics.

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 non-farm 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 presentation, 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*.

Changes in sample design

Since the inception of the survey, there have been various changes in the design of the CPS sample. Most of these changes were made in order to improve the efficiency of the sample design and/or to increase the reliability of the sample estimates.

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. A recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The

Time period	Number of sample areas ¹	Households eligible		Households visited not eligible ²
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	333 ³	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to present	614	53,500	2,500	9,500

¹ Beginning in May 1956, these areas were chosen to provide coverage in each State and the District of Columbia.

² These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

³ Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

The following table provides a description of some aspects of the CPS sample design in use during the referenced data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, U.S. Department of Commerce, Bureau of the Census, Technical Paper No. 40, or *Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463.

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.

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 expansion, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

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 within each State and the District of Columbia, 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 population as a whole, in such characteristics as age, race, sex, and residence. Since these 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.* In the CPS sample, a portion of the 614 sample areas are chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the contribution to the variance resulting from requiring sample areas to represent nonsample areas. Therefore this procedure is not applied to sample areas which represent only themselves. The procedure is applied within each State that contains nonsample areas and takes into account the differences that existed at the time of the 1970 census in the distribution by race and residence of the population in sample areas and the known race-residence distribution in the portions of the State represented by these areas.

b. *Second-stage ratio estimate.* In this stage, the sample proportion in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40-age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

The independent controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation

of the trend in the growth of this segment of the population from the April 1, 1970 census through the latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Prior to January 1974, the independent national controls used for the age-sex-race groups in both the second and third steps of the second-stage ratio estimation procedure 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. These independent controls are prepared by inflating the most recent census counts to include the estimated net census undercount by age, sex, and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal 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. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels are also improved, but to a lesser extent.

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

There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. The standard errors provided primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration but do not measure any systematic biases in the data.

Nonsampling errors. The full extent of nonsampling error is unknown, but special studies have been conducted to qualify some sources of nonsampling error in the CPS as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program.

This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*, Technical Paper No. 19. U.S. Department of Commerce, Bureau of the Census.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. Bailer, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage, as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailer, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, No. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, U.S. Department of Commerce, Bureau of the Census. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

Sampling error. Since the estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The chances are about 68 out of 100 that an estimate from the survey differs from a complete census figure by less than the standard error. The chances are about 95 out of 100 that the differences would be less than twice the standard error.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this report reflect the sample design and estimation procedure in effect prior to the expansion for annual average State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Secondly, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of

standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Tables A and B show approximate standard errors for major employment status characteristics for both monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change over other time periods are subject to higher standard errors. For years prior to 1967, the standard errors must be adjusted due to differences in sample size. For years before 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Standard errors for estimated totals. Tables C and D provide generalized standard errors for monthly totals and for month-to-month change. The figures given in these tables are to be used for the characteristics as indicated.

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 150,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

Tables E and F shows generalized standard errors for monthly level and month-to-month change for unemployment rates.

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table G and

the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

Illustration. For example, assume that the tables show that 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table G (0.09 percent). The appropriate factor from table H for the numerator of the percentage, agriculture employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percent.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
Total, 16 years and over:		
Civilian labor force	223	171
Employed	236	180
Unemployed	107	111
Males, 20 years and over:		
Civilian labor force	124	107
Employed	135	118
Unemployed	68	71
Females, 20 years and over:		
Civilian labor force	168	129
Employed	167	131
Unemployed	64	67
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	84	94
Unemployed	56	69
Black and other, 16 years and over:		
Civilian labor force	78	60
Employed	85	65
Unemployed	54	57
Males, 20 years and over:		
Civilian labor force	44	38
Employed	49	43
Unemployed	33	35
Females, 20 years and over:		
Civilian labor force	62	48
Employed	62	49
Unemployed	34	36
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	30	35
Unemployed	29	32

Table B. Standard errors of unemployment rates for major characteristics

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	.11	.11	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.13	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.35	.40
Both sexes, 16-19 years . . . . .	.55	.65	Transport equipment operatives . . . . .	.49	.55
White workers . . . . .	.11	.11	Nonfarm laborers . . . . .	.62	.71
Black (and other) workers . . . . .	.45	.47	Service workers . . . . .	.31	.34
Married men, spouse present . . . . .	.12	.13	Farm workers . . . . .	.55	.62
Married women, spouse present . . . . .	.21	.22			
Full-time workers . . . . .	.11	.12	INDUSTRY		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and		
Unemployed 15 weeks and over . . . . .	.06	.07	salary workers . . . . .	.12	.13
OCCUPATION			Construction . . . . .	.58	.66
White-collar workers . . . . .	.12	.13	Manufacturing . . . . .	.22	.24
Professional and technical . . . . .	.18	.20	Durable goods . . . . .	.27	.30
Managers and administrators,			Nonurable goods . . . . .	.36	.40
except farm . . . . .	.19	.21	Transportation and public utilities . . . . .	.31	.35
Sales workers . . . . .	.37	.41	Wholesale and retail trade . . . . .	.25	.28
Clerical workers . . . . .	.23	.26	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.20	.22	Government workers . . . . .	.21	.23
Craft and kindred workers . . . . .	.27	.30	Agricultural wage and salary workers	1.09	1.24

Table C. Standard errors for estimates of monthly level
(In thousands)

Estimated monthly level	Characteristics ¹								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white males only, or females only	Black and other males only, or females only	Total or white	Black and other
50	13	10	10	10	10	9	9	10	11
100	18	14	14	14	14	13	13	14	15
500	41	32	32	32	28	30	29	31	33
1,000	57	45	44	44	33	42	40	44	46
2,000	81	64	60	60	13	59	52	62	63
4,000	113	90	79	77	—	82	60	87	83
6,000	137	109	88	84	—	99	53	106	93
8,000	—	125	90	84	—	113	16	122	—
10,000	—	139	87	76	—	124	—	135	—
15,000	—	166	36	—	—	146	—	163	—
20,000	—	188	—	—	—	161	—	182	—
30,000	—	219	—	—	—	177	—	—	—
40,000	—	249	—	—	—	178	—	—	—
50,000	—	253	—	—	—	164	—	—	—
60,000	—	260	—	—	—	131	—	—	—
70,000	—	260	—	—	—	49	—	—	—
80,000	—	254	—	—	—	—	—	—	—
100,000	—	221	—	—	—	—	—	—	—
120,000	—	143	—	—	—	—	—	—	—

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, race groups listed, use the standard error for the next larger group, e.g., when determining the standard error on the estimated number of employed persons age 20 to 54 years use the column for total employed.

Table D. Standard errors for estimates of month-to-month change

(In thousands)

Estimated monthly level	Type of characteristic ¹							
	Labor force data other than unemployment and agriculture employment data							
	Total or white	Black and other	Total, or white, 16-19 years	Black and other, 16-19 years	Unemployment			
					Total or white	Both sexes 16-19 years, or part-time labor force ²	Black and other	Black and other, 16-19 years
50	8	8	12	12	11	12	12	12
100	11	11	17	17	16	17	16	17
500	24	23	37	33	35	39	36	34
1,000	34	33	52	37	48	55	49	39
2,000	47	45	70	—	68	77	65	—
4,000	66	58	89	—	93	107	80	—
6,000	81	65	96	—	110	129	—	—
8,000	93	68	93	—	123	147	—	—
10,000	103	65	78	—	132	162	—	—
15,000	123	33	—	—	145	191	—	—
20,000	130	—	—	—	146	211	—	—
30,000	163	—	—	—	—	—	—	—
40,000	179	—	—	—	—	—	—	—
50,000	189	—	—	—	—	—	—	—
60,000	194	—	—	—	—	—	—	—
70,000	195	—	—	—	—	—	—	—
80,000	191	—	—	—	—	—	—	—
100,000	179	—	—	—	—	—	—	—
120,000	119	—	—	—	—	—	—	—

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

reentering the labor force, persons who left their last job, and persons by duration of unemployment.

Table E. Standard errors of unemployment rates

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate									
	1	2	5	10	15	20	25	30	35	50
50	2.05	2.88	4.49	6.18	7.36	8.25	8.93	9.46	9.85	10.36
100	1.45	2.04	3.18	4.37	5.20	5.83	6.32	6.69	6.97	7.33
500 .....	.65	.91	1.42	1.96	2.33	2.61	2.82	2.99	3.12	3.28
1,000 .....	.46	.65	1.01	1.38	1.65	1.84	2.00	2.12	2.21	2.32
2,000 .....	.32	.46	.71	.98	1.17	1.31	1.42	1.50	1.56	1.64
4,000 .....	.23	.32	.50	.69	.83	.92	1.00	1.06	1.10	1.16
6,000 .....	.19	.26	.41	.57	.67	.75	.82	.86	.90	.94
10,000 .....	.15	.21	.32	.44	.52	.59	.63	.67	.70	.73
20,000 .....	.11	.15	.23	.31	.37	.41	.45	.47	.49	.51
60,000 .....	.06	.08	.12	.17	.20	.23	.25	.26	.27	.28
100,000 .....	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22

Table F. Standard errors of month-to-month change in unemployment rates

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate									
	1	2	5	10	15	20	25	30	35	50
50	2.32	3.28	5.12	7.10	8.52	9.64	10.05	11.39	11.97	12.55
100	1.64	2.32	3.62	5.02	6.02	6.81	7.11	8.05	8.39	8.87
500 .....	.74	1.04	1.62	2.25	2.69	3.04	3.17	3.58	3.73	3.93
1,000 .....	.52	.73	1.15	1.59	1.90	2.15	2.24	2.52	2.62	2.74
2,000 .....	.37	.52	.81	1.12	1.34	1.51	1.57	1.76	1.83	1.89
4,000 .....	.26	.37	.57	.79	.94	1.06	1.10	1.22	1.26	1.26
6,000 .....	.21	.30	.47	.64	.76	.86	.89	.97	1.00	—
10,000 .....	.16	.13	.36	.49	.59	.65	.67	.72	—	—
20,000 .....	.11	.15	.24	.33	.39	.44	.48	.51	—	—
60,000 .....	.06	.09	.13	.18	.21	.22	.23	—	—	—
100,000 .....	.05	.07	.10	.13	.14	.14	—	—	—	—

Table G. Standard errors of estimated percentages and month-to-month change in percentages for labor force data

Monthly base of percentages (In thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.03	2.85	4.44	6.12	7.28	8.15	8.83	9.34	9.72	10.19
100	1.43	2.02	3.14	4.32	5.15	5.77	6.24	6.61	6.88	7.21
500 .....	.64	.90	1.41	1.93	2.30	2.58	2.79	2.95	3.07	3.22
1,000 .....	.45	.64	.99	1.37	1.63	1.82	1.97	2.09	2.17	2.28
2,000 .....	.32	.45	.70	.97	1.15	1.29	1.40	1.48	1.54	1.61
4,000 .....	.23	.32	.50	.68	.81	.91	.99	1.04	1.09	1.14
6,000 .....	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000 .....	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000 .....	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000 .....	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000 .....	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000 .....	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000 .....	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000 .....	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

NOTE: The standard errors in this table must be multiplied by a specific type of characteristic. the factors in table H to obtain the approximate standard error for

Table H. Factors to be used with Table G to compute approximate standard errors for percentages and month-to-month changes in percentages

Type of characteristic	Factor		Type of characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force ...	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force	1.01	1.21
Part-time labor force	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment data and unemployment data:			Total or white:		
Total	1.00	.74	Total .....	.97	1.08
Males only .....	.93	.84	Both sexes, 16-19 years .....	.97	1.21
Females only .....	.86	.75	Black and other:		
Both sexes, 16-19 years	1.00	1.18	Total	1.04	1.13
Part-time labor force	1.00	1.18	Both sexes, 16-19 years	1.04	1.24

Establishment data

(B, C, and D tables)

COLLECTION

Payroll reports provide current information on wage and salary employment, hours, earnings, and labor turnover in nonagricultural 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 (Washington Office) for use in preparing the national series.

Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Report on Employment, Payroll, and Hours; and Form 1219—Monthly Report on Labor Turnover. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been 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 principal product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget.

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. Employees of the Central Intelligence and National Security Agencies are also 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 even though they 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 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 plants own use (e.g., power plant), and record-keeping and other services closely associated with the above production operations.

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as pre-cutting 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 other employees at similar occupational levels 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. They reflect 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. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. 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 reasons, 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 services 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 that portion of the gross average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work 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 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 services 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.

Railroads 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 1) 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, the worker's marital status, and level of gross income. To reflect these variables, the Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to either (1) a worker with no dependents, or (2) a married worker with three dependents who files a joint return. 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 no dependents 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 or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical

Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar 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 non-agricultural 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 date 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.

Recalls are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting

more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

Other accessions are all additions to the employment roll which are not classified as new hires or recalls. These include transfers from other establishments of the company and former employees returning from military leave or other absences without pay who have been counted as separations. Data on other accessions are not published separately but are included in total accessions.

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 (if counted as new hires previously), 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 I. Summary of methods for

Table I. Summary of methods for computing industry statistics on employment, hours, earnings, 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. ¹	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	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. ²	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production-worker overtime hours divided by number of production workers. ²	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. ²	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, women 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.

See footnotes at end of table.

Table I. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover—Continued

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Annual average data—Continued		
Gross average hourly earnings	Annual total of aggregate payrolls (product of production- or nonsupervisory-worker employment by weekly hours and hourly 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	Annual aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

¹ The estimates result from multiplying the product shown by business birth adjustment factors to compensate for the under representation of newly formed enterprises in the sample.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by a wedging technique designed to com-

pensate for changes in the sample arising mainly from the voluntary character of the reporting. The wedging procedure accepts the advantage of continuity from the use of the matched sample, and at the same time, tapers or wedges the estimate toward the level of the latest sample average.

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 1977 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 for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted at levels 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 made at the time of the March 1977 benchmark adjustment is shown in table J.

Table J. Comparison of nonagricultural employment benchmarks based on 1972 SIC and estimates based on 1967 SIC for 1977

Industry division	Bench- mark (1972 SIC) March 1977	Esti- mate (1967 SIC) March 1977	Percent difference
Total	80,493	80,547	-0.1
Mining	805	827	-2.7
Construction	3,430	3,451	-.6
Manufacturing	19,253	19,183	.4
Transportation and public utilities	4,603	4,522	1.8
Wholesale and retail trade	17,891	17,799	.5
Finance, insurance, and real estate	4,377	4,422	-1.0
Services	14,935	15,028	-.6
Government	15,199	15,315	-.8

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*.

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. 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 design samples for these industries 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 fluctuations from regular cyclical or seasonal patterns than do 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 K 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 L shows the approximate coverage, in terms of employment, of the labor turnover sample.

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. Table M presents the average percent revisions (based on the 1967 SIC) of the

Table K. Approximate size and coverage of BLS employment and payrolls sample, March 1977¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	164,300	32,152,000	40
Mining	2,100	313,000	39
Construction	16,300	686,000	20
Manufacturing	47,100	11,166,000	58
Transportation and public utilities:			
Railroad transportation (ICC)	77	508,000	95
Other transportation and public utilities ..	7,400	2,208,000	53
Wholesale and retail trade	40,600	3,242,000	18
Finance, insurance, and real estate	10,600	1,583,000	36
Services	24,300	2,896,000	19
Government:			
Federal (Civil Service Commission) ²	3,700	2,714,000	100
State and local	12,100	6,836,000	55

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 3,700 reports covering about 55 percent of employment in Federal establishments.

Table L. Approximate size and coverage of BLS labor turnover sample, March 1977

Industry	Employees	
	Number reported	Percent of total
Total	10,070,140	49
Manufacturing	9,233,370	48
Mining	136,810	41
Telephone communication	699,960	72

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 (based on the 1967 SIC) for major industries are presented in table M and for individual industries with the specified number of employees in table N. 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

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 and the 1967 SIC) of differences between final estimates and benchmarks are presented in table N.

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 O 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

Table M. Average benchmark percent revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division¹

[In percent]

Industry division	Average benchmark revision in estimates of employment ²	Relative errors ³ (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	.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 ⁴	.6	—	—

¹ Based on 1967 SIC.

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

³ Relative errors relate to March 1971 data.

⁴ 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.

normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

Table N. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings¹

Size of employment estimate	Root-mean-square error of employment estimates ²	Relative errors ³ (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 Based on 1967 SIC.

² Assuming 12-month intervals between benchmark revisions.

³ Relative errors relate to March 1971 data.

Table O. Errors of preliminary employment estimates¹

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

¹ Based on 1967 SIC.

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.

Definition

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 payment for the self-employed, except for non-financial 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 for All Urban Consumers (CPI-U).

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* include 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 business.

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)

FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Comprehensive Employment and Training Act, the Public Work Employment Act and the Public Works and Economic Development Act.

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York City, are sufficiently

reliable to be used directly from the CPS. For a description of the CPS concepts see "Explanatory note A, Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 205 labor market areas 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 CPS. Factors for adjusting from place of work to place of residence have been developed for the major categories of employment by class of worker and industry 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 UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force of the first time or reentering after a period of separation. This is referred to below, as the UI-based estimate.

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 to the employment estimate for each non-covered industry or class of worker subgroup in the State, the ratio of covered unemployment to covered employment, 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) proportion of the working age population that is considered "youth." The composite estimate of total entrants is defined as:

$U=A(X+E) + BX$, 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. Correction factors for employment and unemployment are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the six month period ending in the current month (e.g. a 6-month moving average).

4. Substate adjustment for additivity. Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total labor force included in the LMA's exhaust the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. Benchmark correction procedures. Once each year monthly estimates prepared by State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

The benchmarked estimates are produced in three stages. First, the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based 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. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

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 programs used for these series are an adaptation of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the methods 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. In January 1978, modifications were introduced in the procedure for seasonally adjusting teenage nonagricultural employment, a number of other teenage employment series, and adult male unemployment.

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 1977, 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 1978 *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, women 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 weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted revised Consumer Price Index for Urban Wage Earners and Clerical Workers (revised CPI-W), and multiplying by 100. 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 industries, 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 May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 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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