

Employment and Earnings

December 1979



U. S. Department of Labor
Bureau of Labor Statistics

Vol. 26 No. 12





U.S. DEPARTMENT OF LABOR
Ray Marshall, Secretary

BUREAU OF LABOR STATISTICS
Janet L. Norwood, Commissioner

Employment and Earnings is prepared by the Division of Industry Employment Statistics and the Division of Employment and Unemployment Analysis in collaboration with the Division of Special Publications. The data are collected by the Bureau of the Census (Department of Commerce), State Employment Security Agencies, and State Departments of Labor in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price per year \$22 domestic, and \$27.50 foreign. Single copy \$2.75. Annual supplement \$3.25. Prices are subject to change by the U.S. Government Printing Office.

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The Secretary of Labor has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through February 28, 1981. Controlled circulation postage paid at Riverdale, Md.

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Library of Congress Catalog Number 70-11379.

Employment and Earnings (Dept. of Labor Pub.) (USPS 081-990)

Calendar of Features

In addition to the monthly data appearing regularly in *Employment and Earnings* special features appear in most of the issues as shown below:

Household data

Annual averages	Jan.
Revised seasonally adjusted series	Feb.
Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-Era veterans and nonveterans, poverty-nonpoverty area data, family relationship data.	Jan., Apr., July, Oct.

Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	Oct. ¹
Revised seasonally adjusted series	Oct. ²
State and area annual averages	May
Area definitions	May

¹ The issue that introduces new benchmark varies. The October 1979 issue marks the introduction of March 1978 benchmarks.

² Revised data introduced October 1979.

Price Changes

The Government Printing Office has announced higher prices for *Employment and Earnings*. The subscription price has increased 22 percent, from \$18 to \$22 a year within the United States; the single copy price has increased 83 percent, from \$1.50 to \$2.75. An annual supplement, priced separately at \$3.25, will be included with each subscription.

Prices of U.S. Government publications are set by the Government Printing Office, an agency of the U.S. Congress, under authority of Title 44 of the U.S. Code. This statute does not give publishing agencies, like the Bureau of Labor Statistics, a voice in setting prices of the publications they publish.

Employment and Earnings

Vol. 26 No. 12 December 1979

Editors: Gloria P. Green, Gloria P. Goings, Rosalie K. Epstein

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Employment and Unemployment Developments, November 1979

Employment rose in November and unemployment edged down. The Nation's overall unemployment rate was 5.8 percent, compared with 6.0 percent in October. The jobless rate has fluctuated between 5.6 and 6.0 percent for more than a year.

Total employment—as measured by the monthly survey of households—rose 350,000 in November to 97.6 million. Total employment has grown by 1.9 million since November 1978, with more than half of the increase occurring between last November and March.

Nonfarm payroll employment—as measured by the monthly survey of establishments—advanced by 220,000 in November to 90.2 million. Over the year, payroll jobs increased by 2.4 million; again, much of the growth took place in the 4 months prior to April.

Unemployment

The number of unemployed persons edged down by 140,000 in November to 6.0 million. The overall unemployment rate moved from 6.0 percent in October to 5.8 percent, the same as the September rate and within the relatively narrow range in which unemployment has remained since August 1978. (See table A-33.)

Over-the-month declines in unemployment occurred among adult women and blacks, whose jobless rates declined to 5.5 and 10.8 percent, respectively, reversing increases of comparable magnitude in October. The unemployment rate for adult men (4.3 percent) and white workers (5.2 percent), on the other hand, were unchanged. In other worker categories, jobless rates fell among part-time and white-collar workers, while the rate for blue-collar workers was about unchanged from the previous month. Blue-collar unemployment was up markedly over the year, however, in contrast to movements among most other major worker groups. (See table A-36.)

Total employment and the labor force

Total employment increased by 350,000 in November to 97.6 million. This increase took place primarily among adult women and white workers. Employment in white-collar jobs rose by 220,000 in November, with most of the increase

occurring among sales workers. Although movements in employment have tended to be erratic in recent months, employment has increased by 1.9 million over the past year. Adult women accounted for three-fourths of the year-to-year growth. (See table A-33.)

The civilian labor force, at 103.7 million, edged up by 210,000 in November. Over-the-month increases in the labor force occurred entirely among white workers, as the number of blacks in the labor force declined. Since November 1978, the overall labor force has advanced by 2.1 million.

The labor force participation rate was 63.8 percent in November. Over the year, participation has increased by 0.2 percentage point, due entirely to increased labor force activity among adult women. Adult male and teenage participation rates were both down from a year earlier.

Industry payroll employment

Nonfarm payroll employment rose to 90.2 million in November, up 220,000 from the revised October level. Payroll employment increased 2.4 million over the past year. (See table B-4.)

Most of the November gain occurred in the service-producing sector. With the exception of government, employment growth took place throughout the sector. The services industry recorded the largest increase, 75,000, while trade and finance each advanced by about 40,000.

Employment in the goods-producing sector grew by 45,000, with nearly all of the increase occurring in construction. Employment in manufacturing was unchanged, as small gains in non-durable goods were offset by declines in durable goods. Within the durable goods industries, transportation equipment accounted for most of the decrease, due primarily to layoffs in automobile and truck production.

Hours

The average workweek of production or non-supervisory workers on private nonagricultural payrolls was 35.6 in November, unchanged from October. Manufacturing hours fell by 0.2 to 40.0 hours and were 0.6 hour below the first quarter level. Sharp over-the-month declines occurred in

both the primary metal and transportation equipment workweeks. Factory overtime remained at 3.2 hours for the third straight month. (See table C-7.)

The index of aggregate weekly hours rose 0.4 percent in November to 126.3 (1967=100), as a result of the over-the-month rise in employment. The index was up 2.1 percent over the year. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or non-supervisory workers on private nonagricultural payrolls rose 0.8 percent in November and were 7.7 percent above November 1978 (seasonally adjusted). Average weekly earnings rose 1.0 percent in November and were up 7.1 percent over the year.

Before adjustment for seasonality, average hourly earnings rose 2 cents in November to \$6.34, 46 cents above November 1978; average weekly earnings were \$225.07 in November, down 55 cents from October but up \$14.57 over the year. (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 236.9 (1967=100) in November, 0.8 percent higher than in October. The Index was 8.1 percent above November a year ago. In dollars of constant purchasing power, the Index decreased 4.1 percent during the 12-month period ended in October. (See table C-9.)

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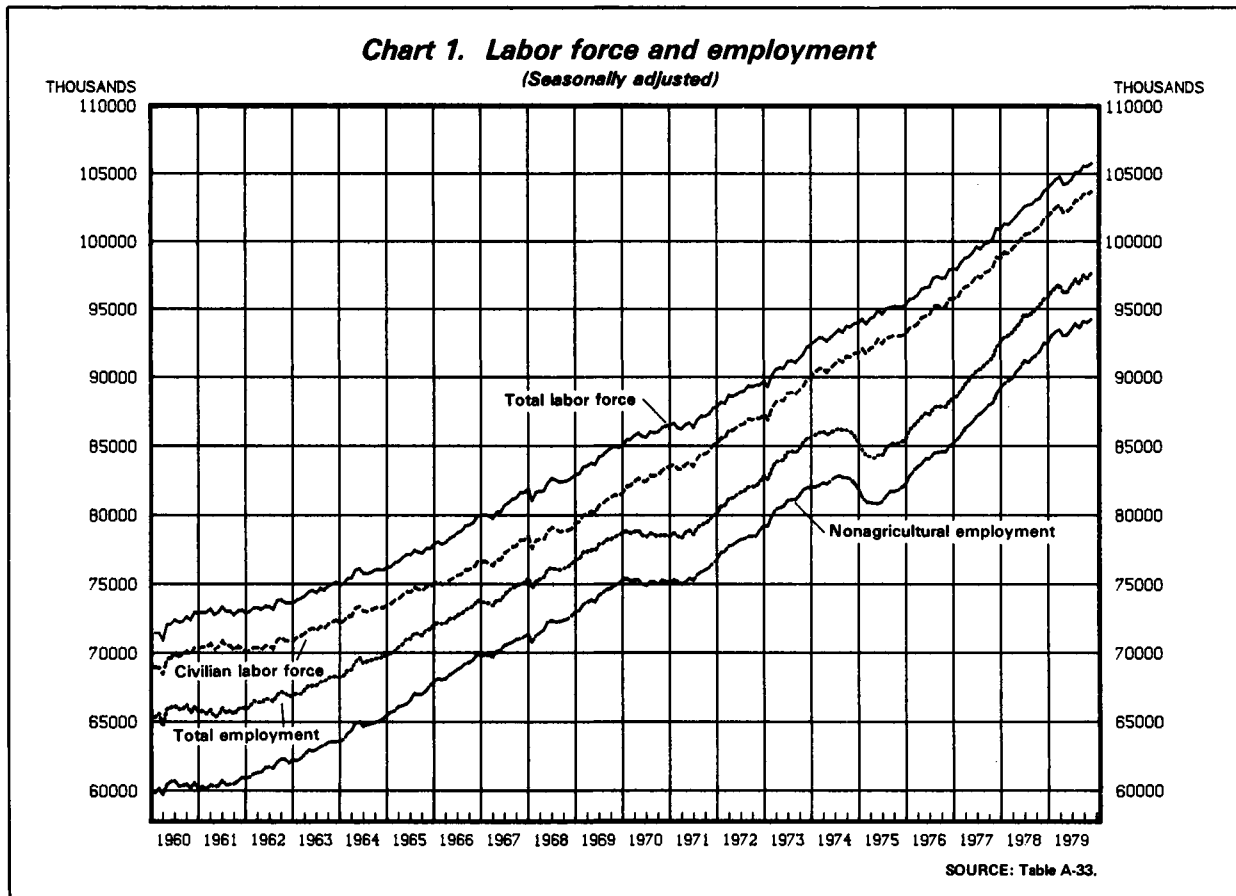
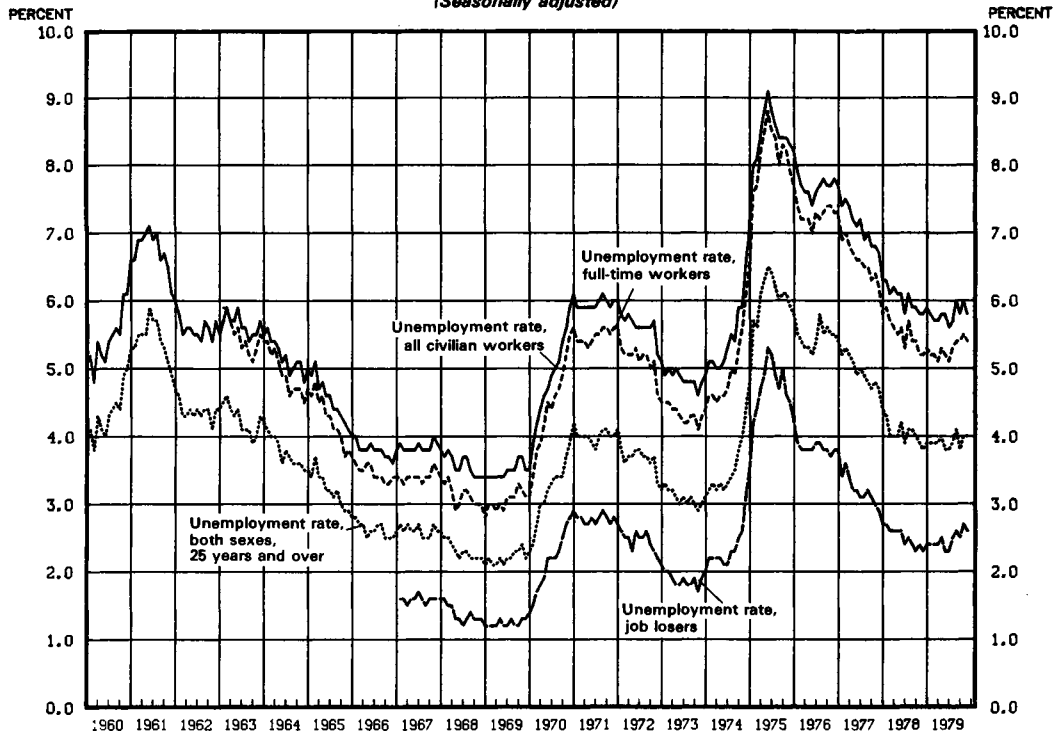
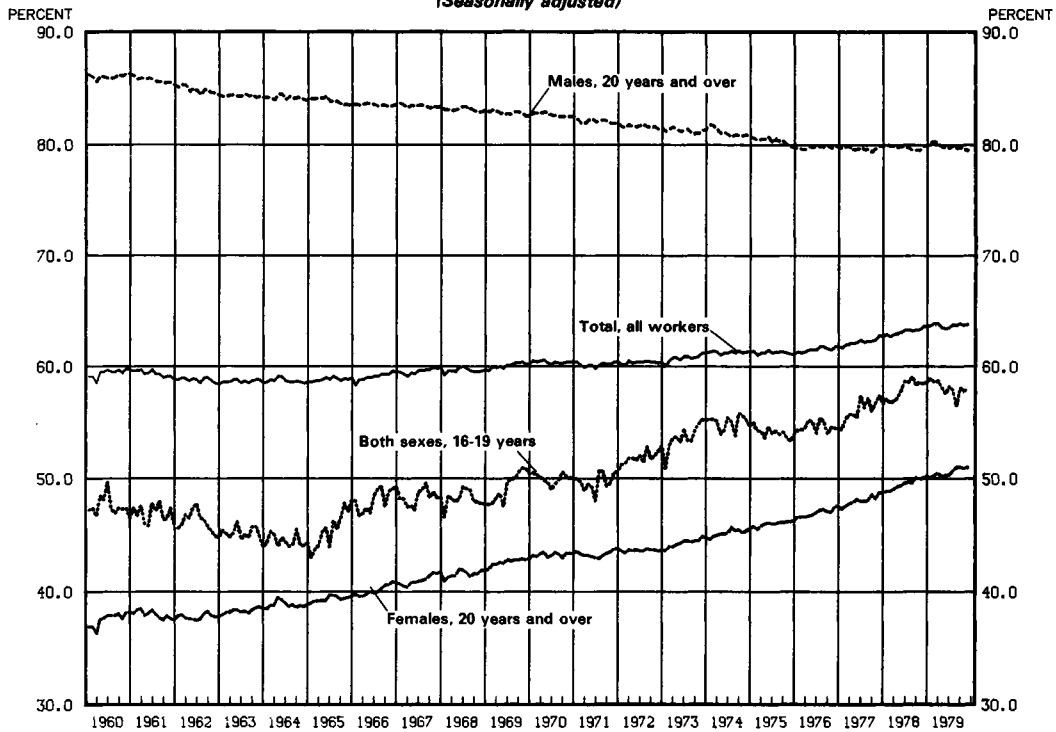


Chart 2. Major unemployment indicators
(Seasonally adjusted)



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

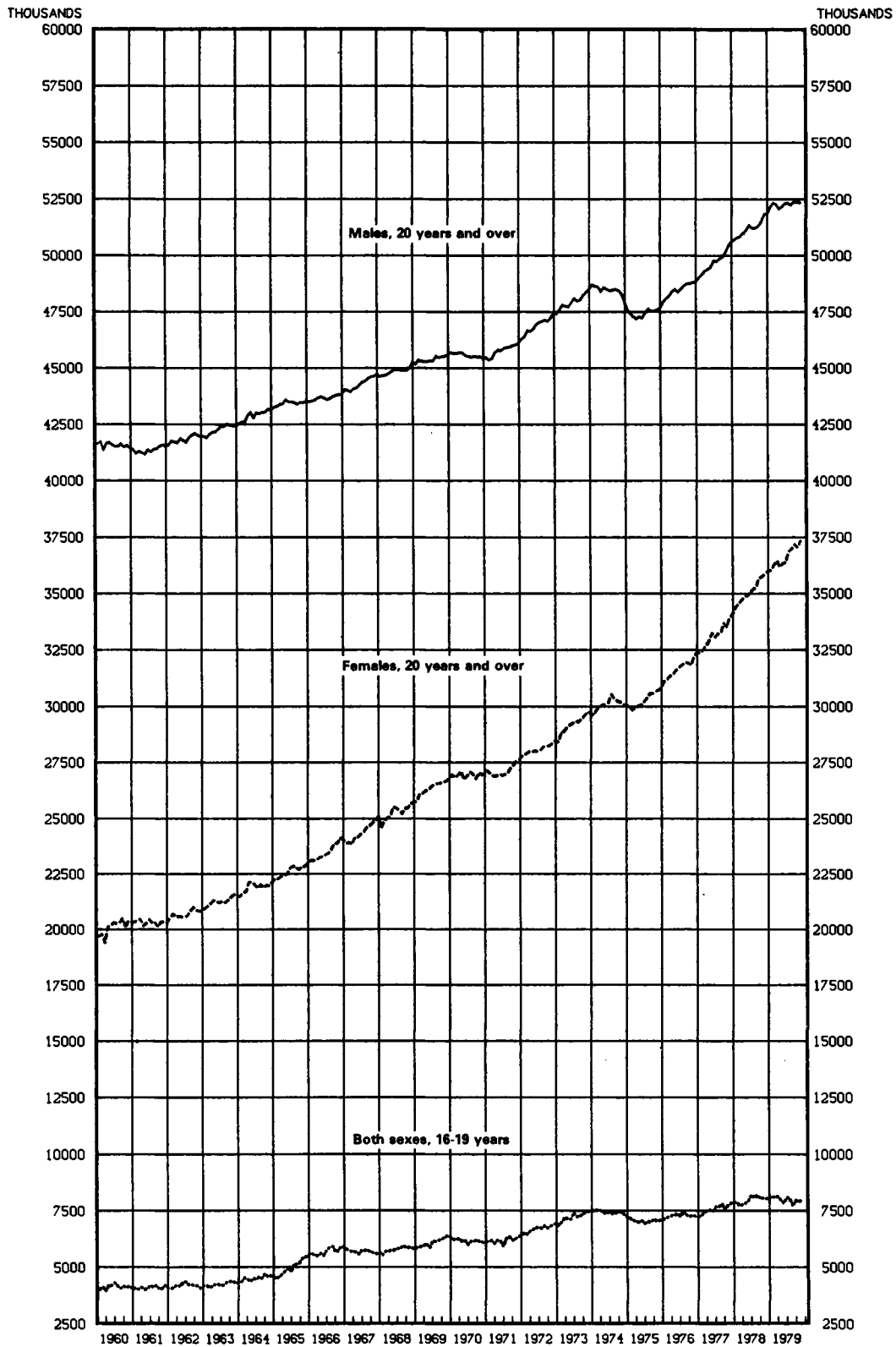
Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

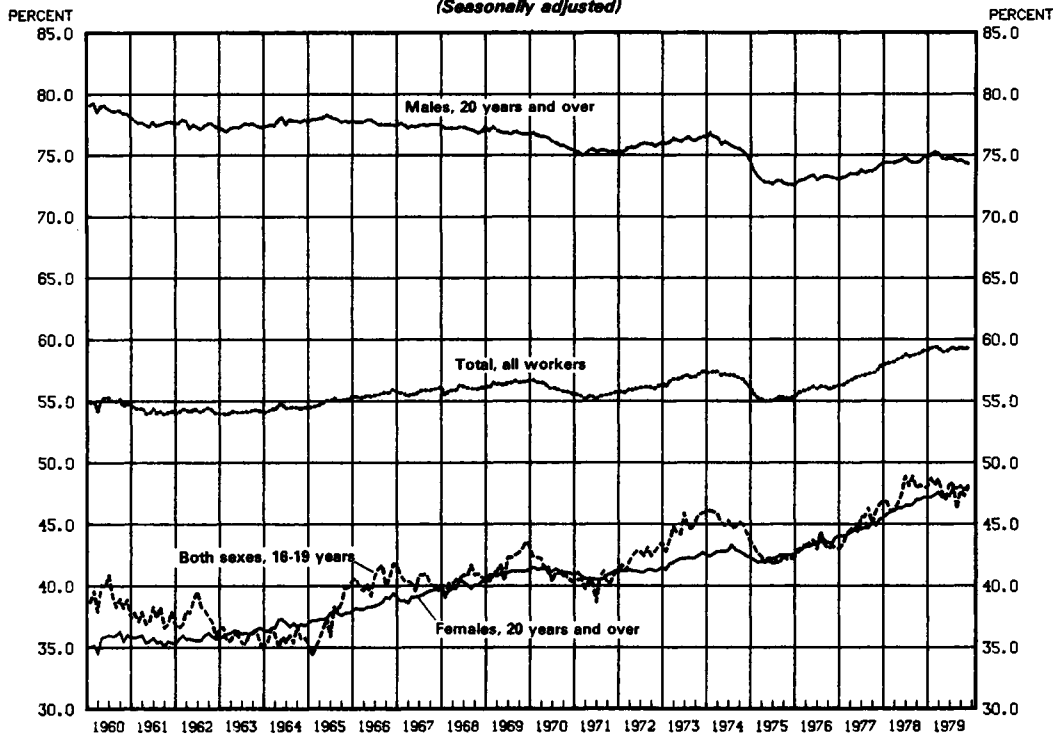
Chart 4. Total employment by sex and age

(Seasonally adjusted)



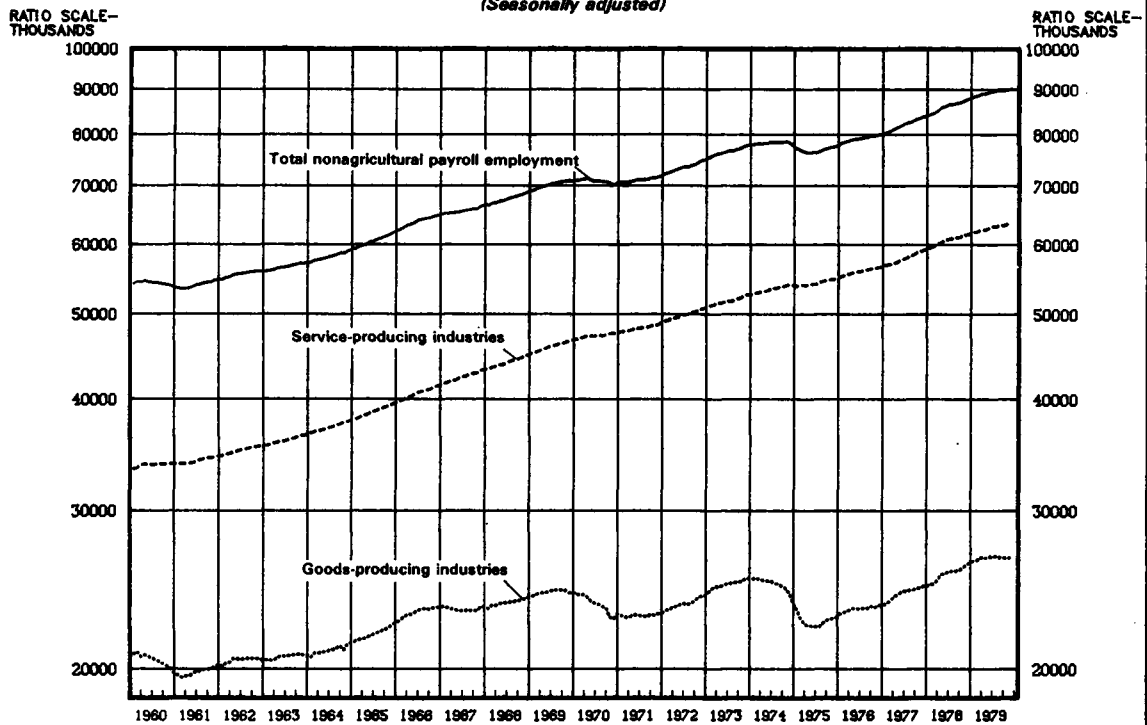
SOURCE: Table A-33.

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)

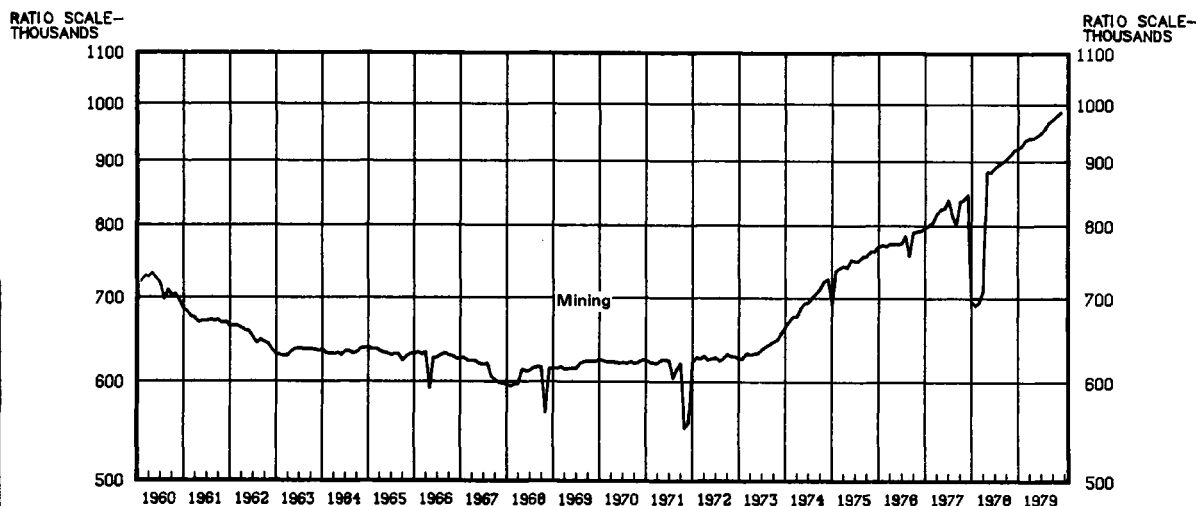
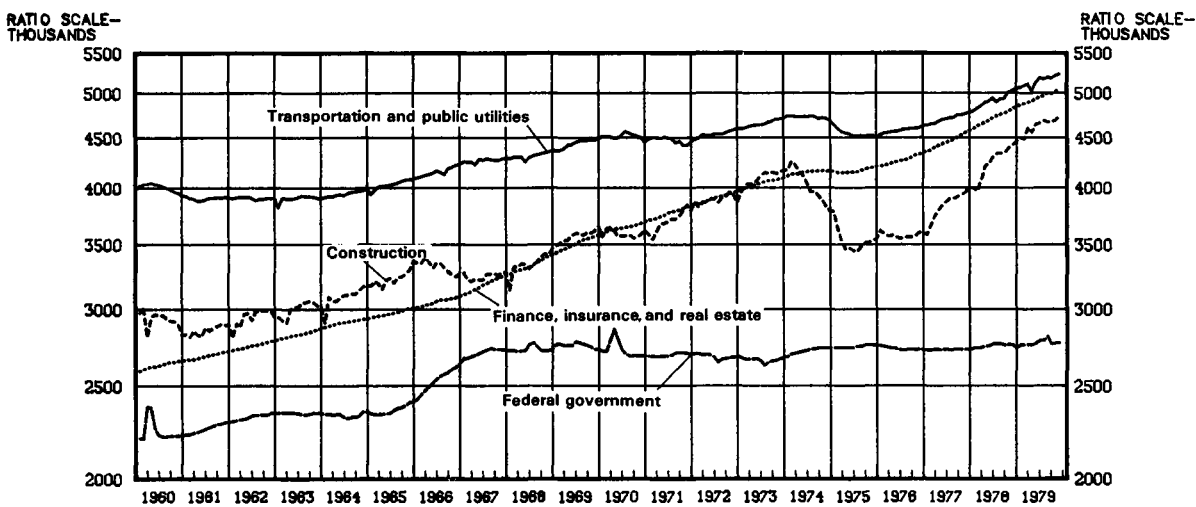
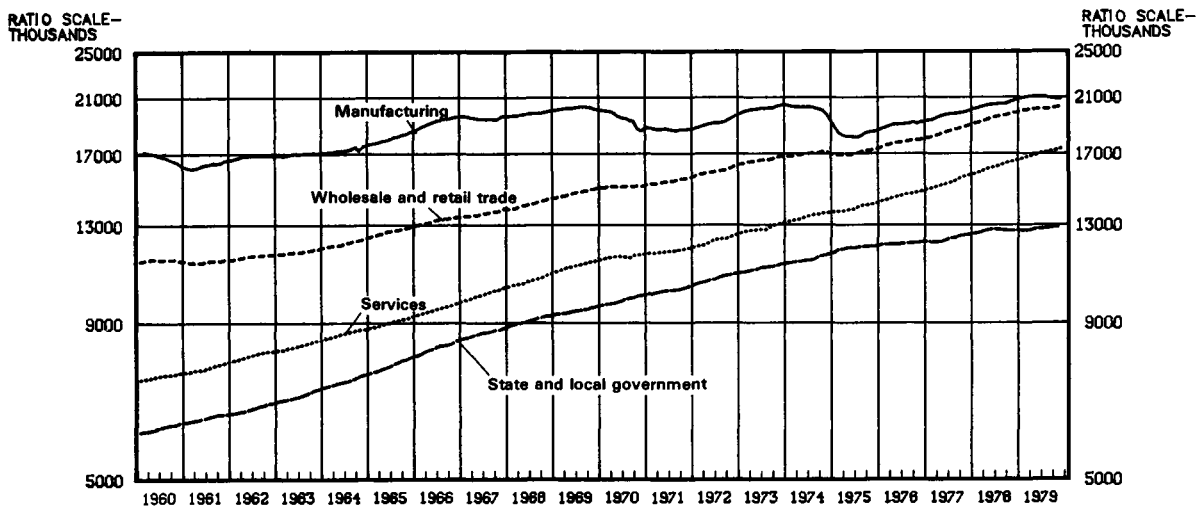


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

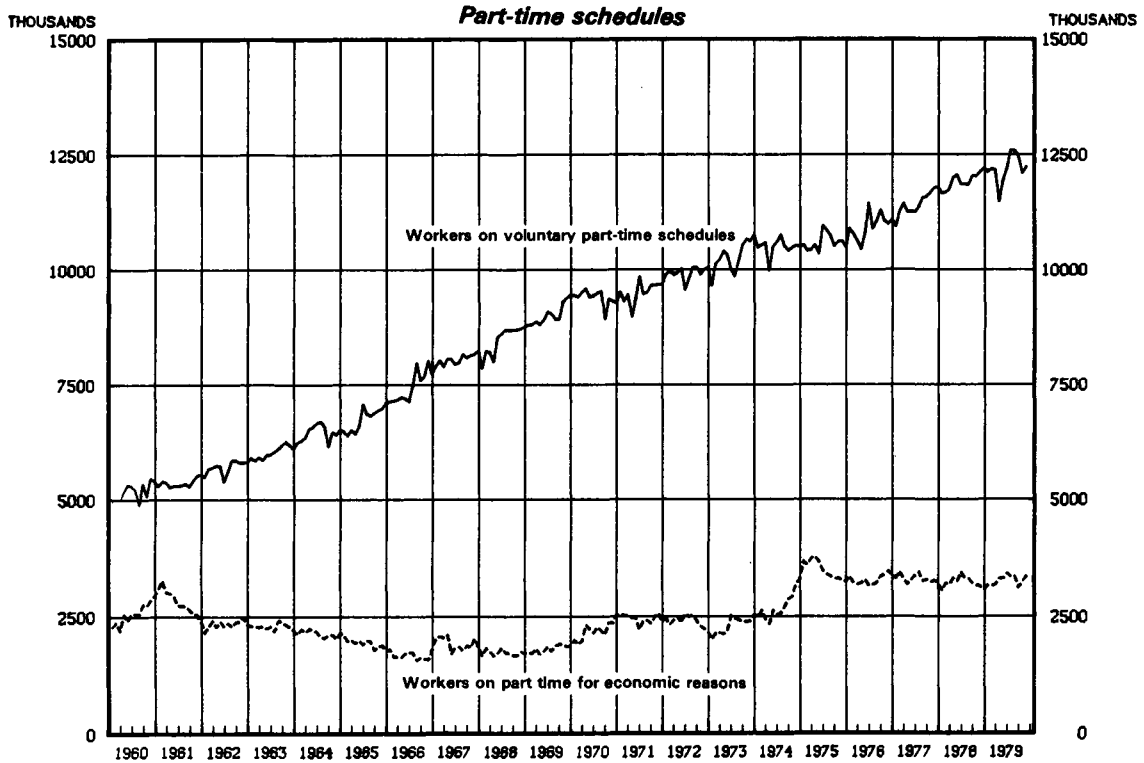
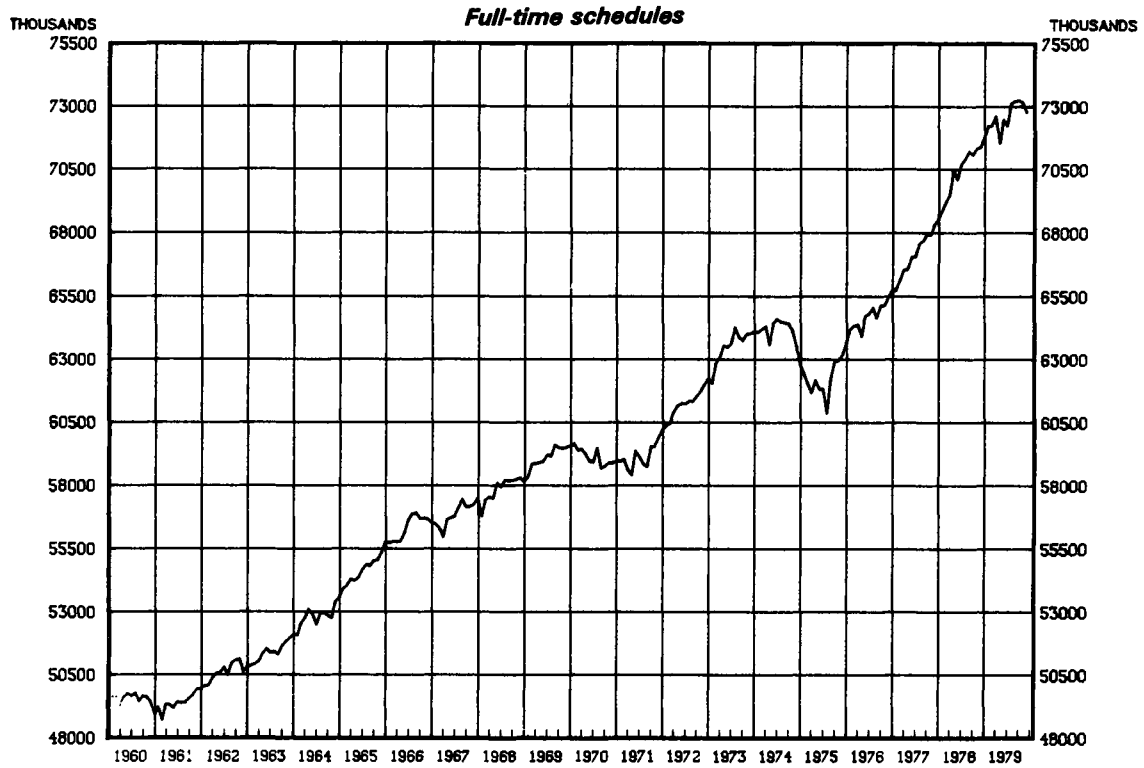
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

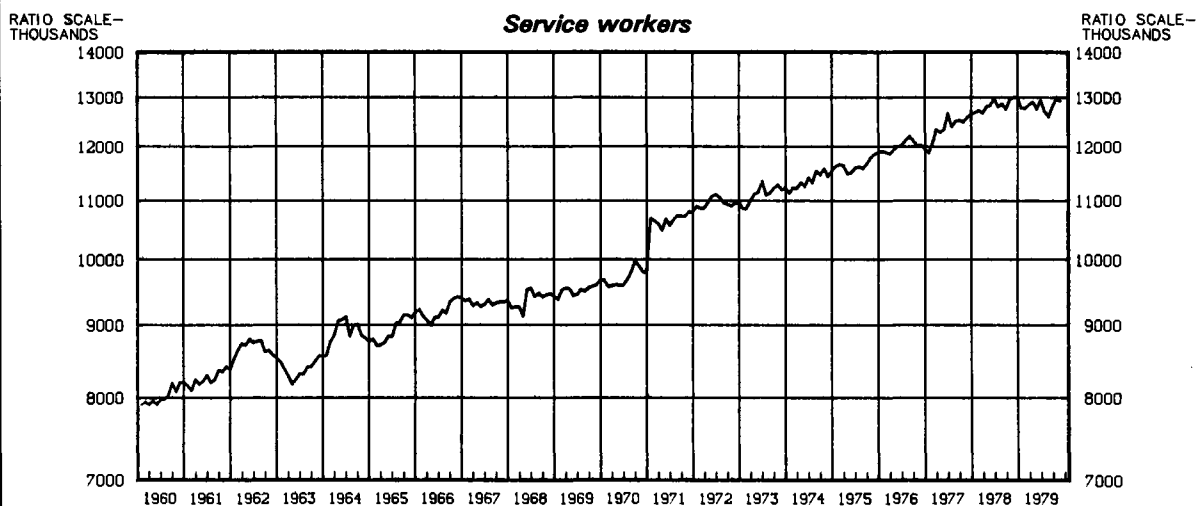
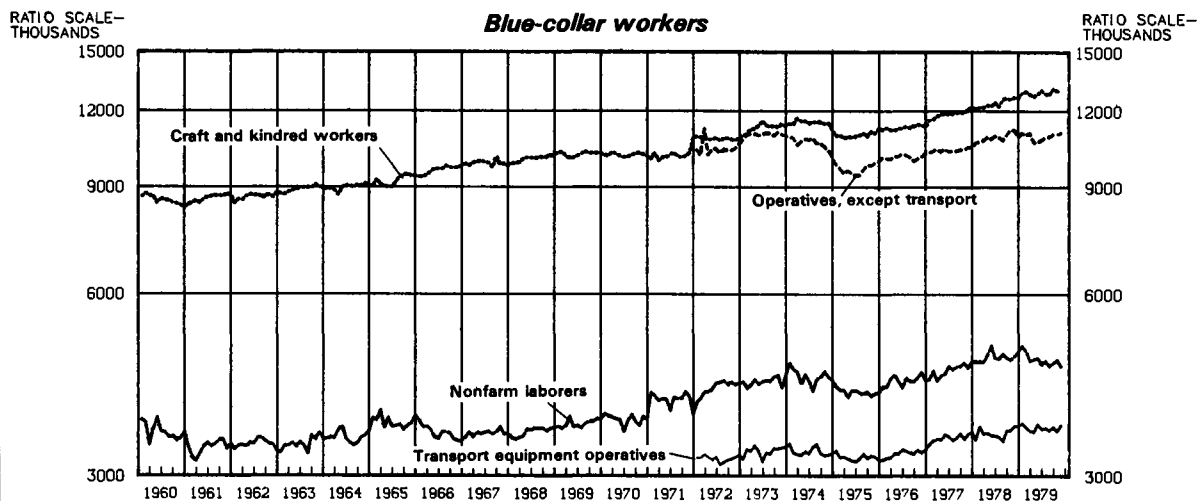
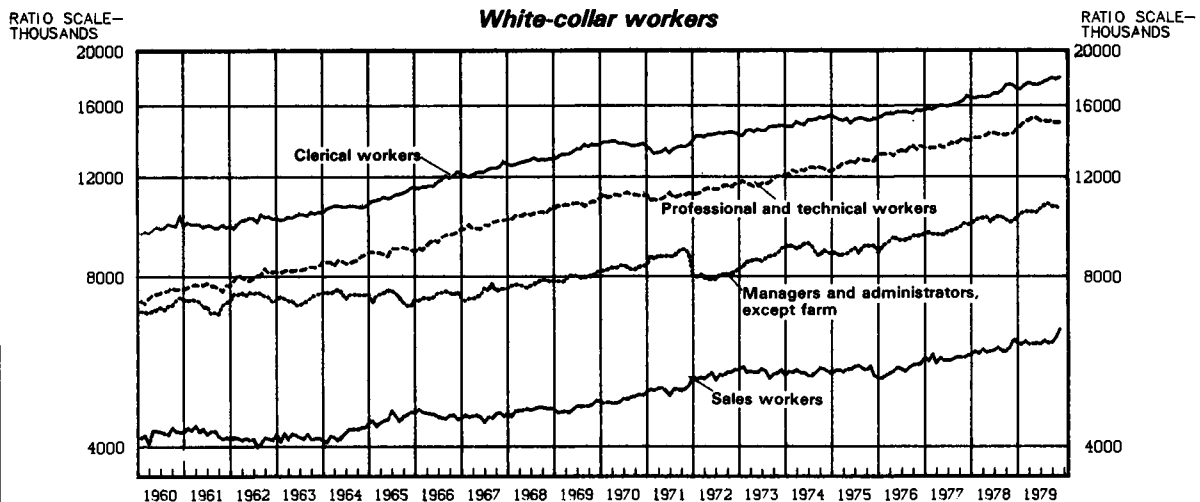
Chart 8. Persons at work full and part time in nonagricultural industries
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

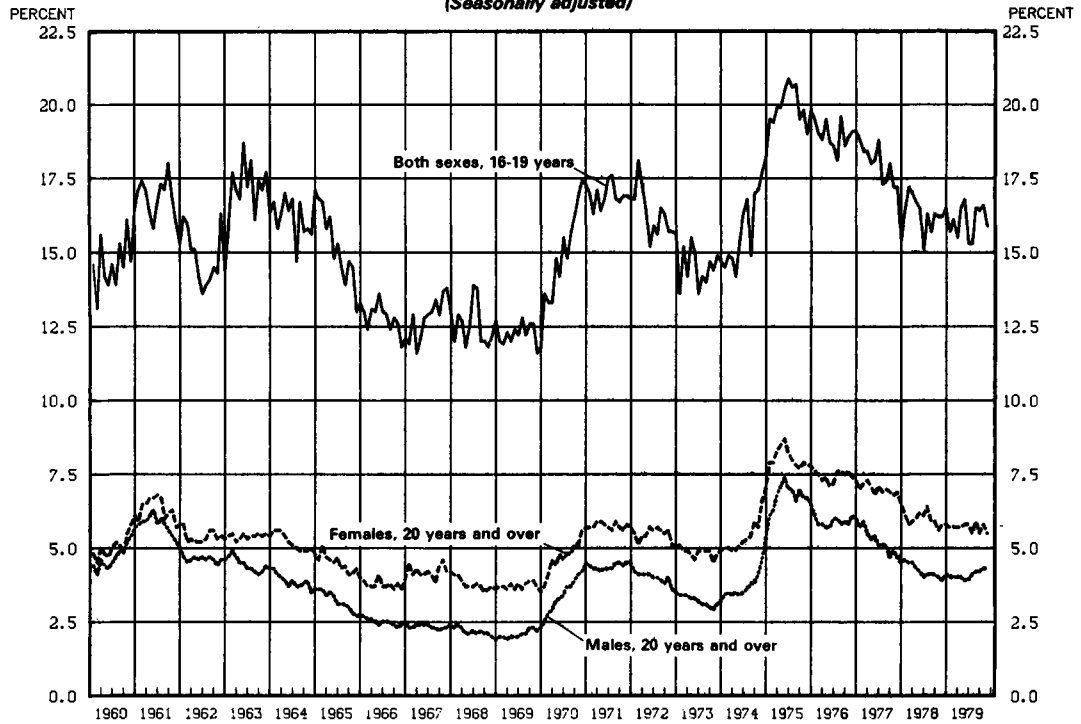


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

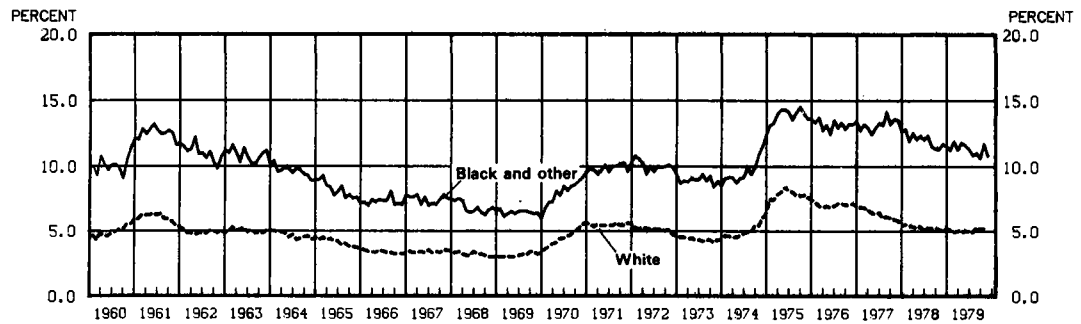
(Seasonally adjusted)



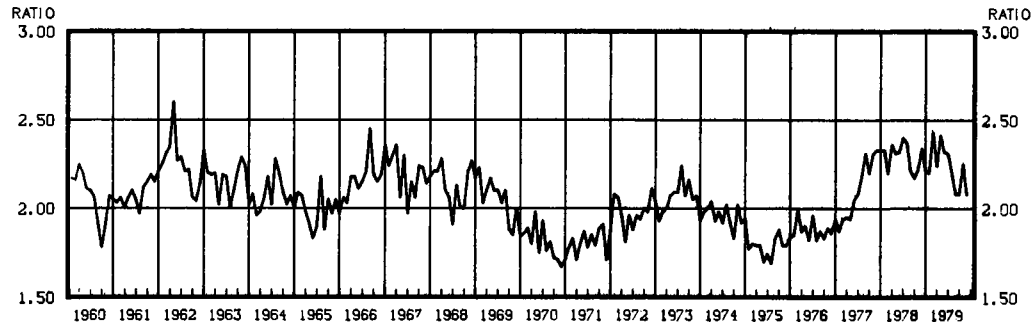
SOURCE: Table A-36.

Chart 11. Unemployment rates by race

(Seasonally adjusted)

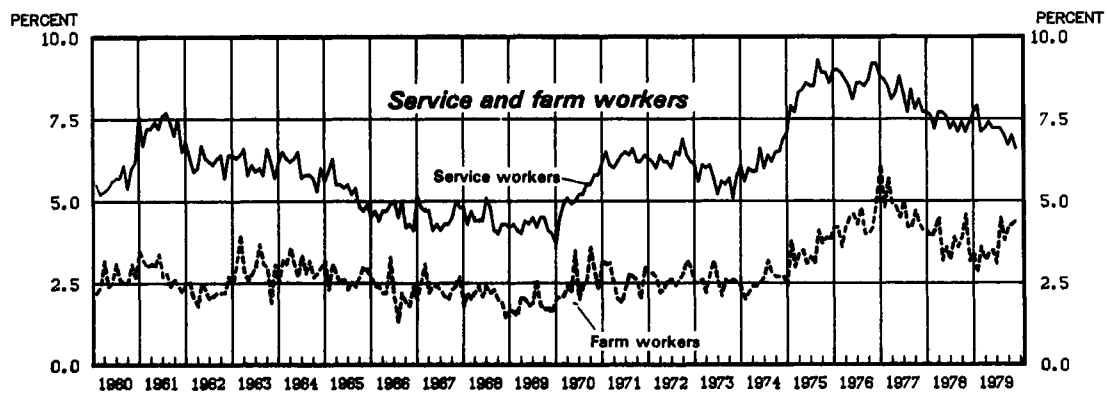
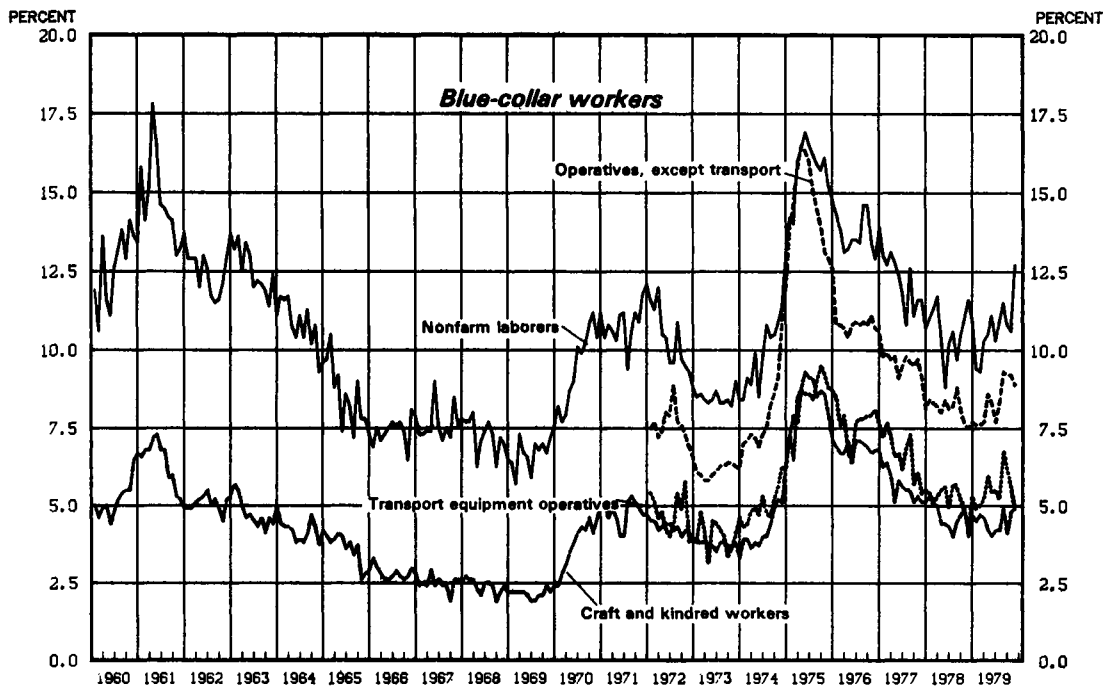
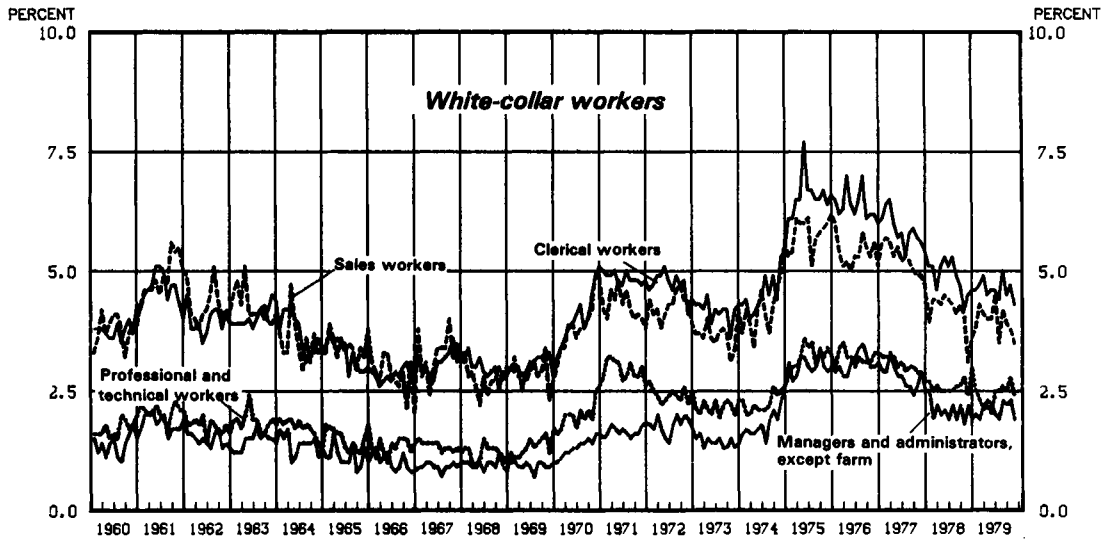


Ratio of black to white unemployment rate



SOURCE: Table A-35.

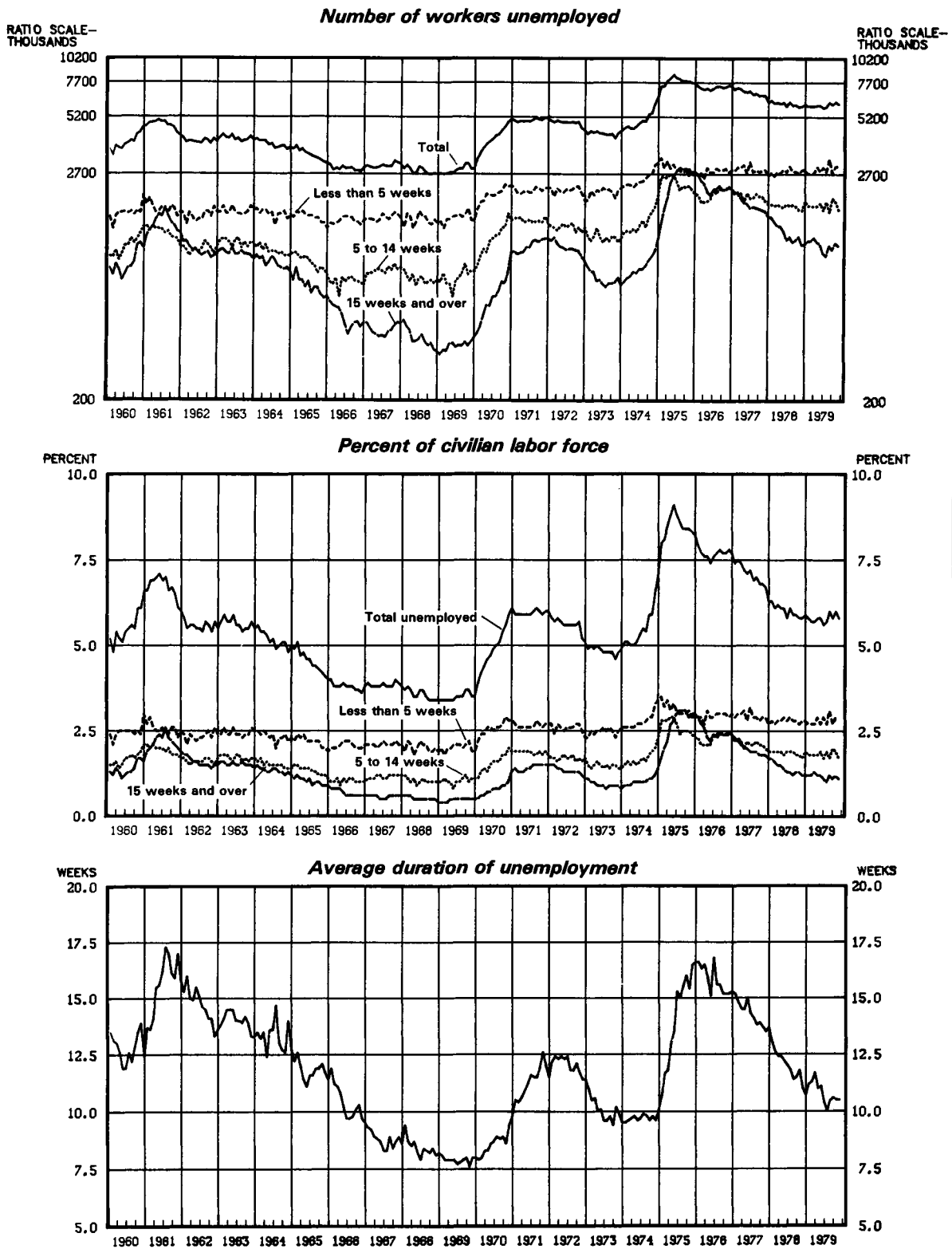
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

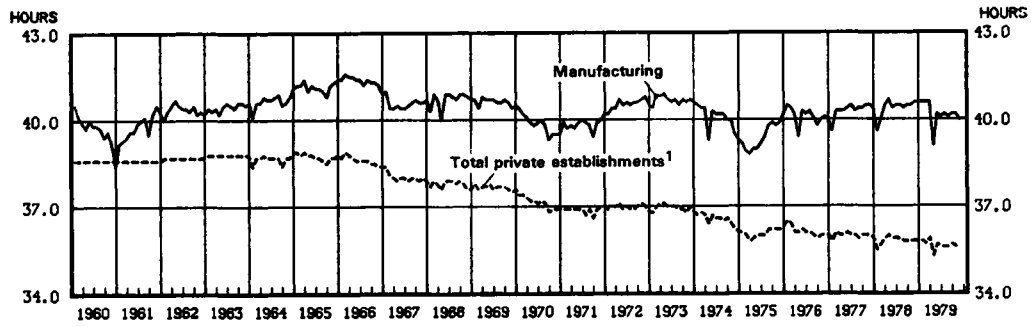
Chart 13. Duration of unemployment

(Seasonally adjusted)

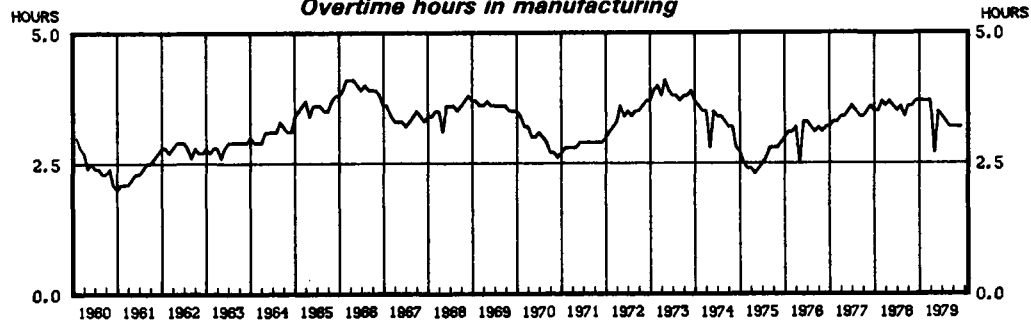


SOURCE: Table A-37.

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



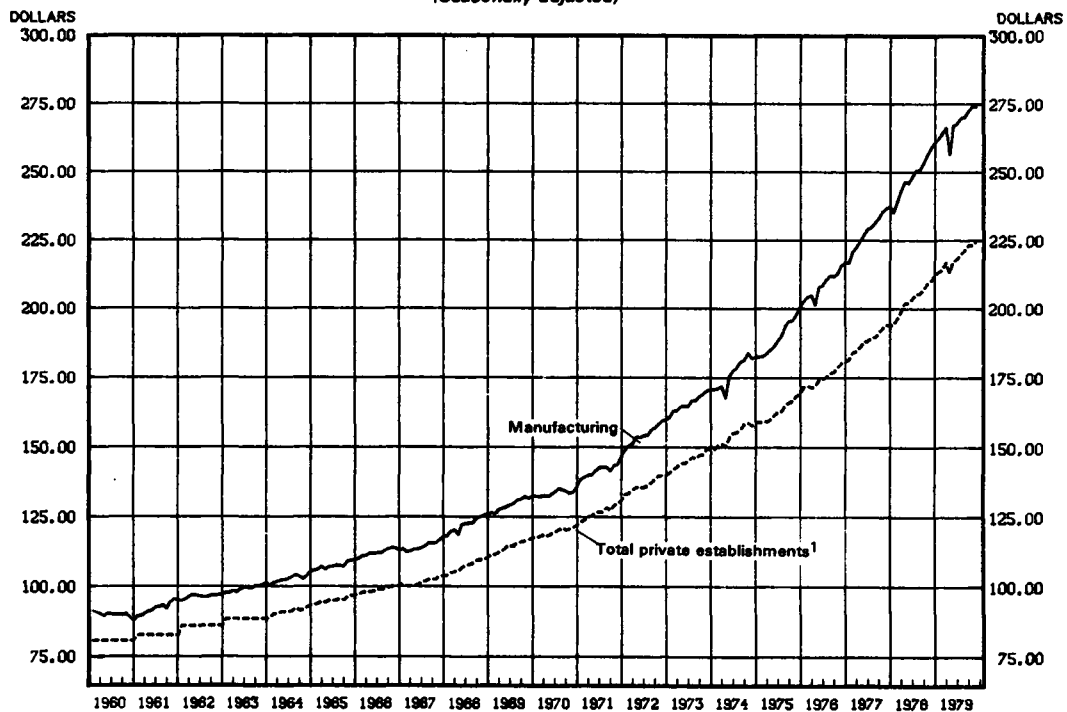
Overtime hours in manufacturing



¹ Annual averages prior to 1964.
NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

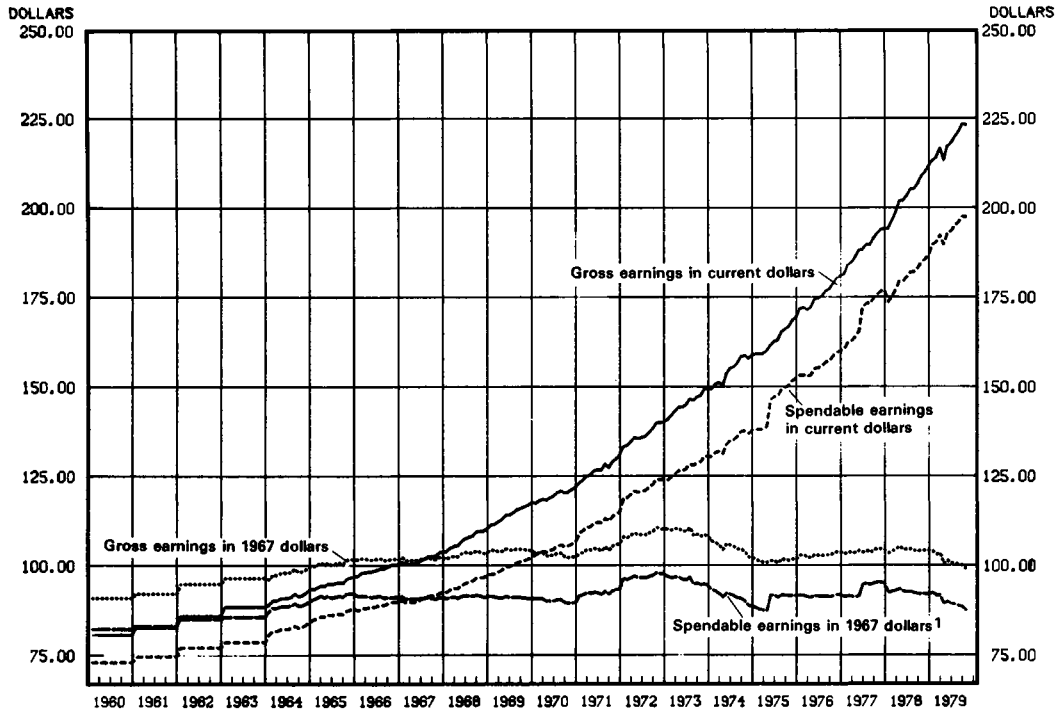
Chart 15. Average weekly earnings in nonagricultural industries
(Seasonally adjusted)



¹ Annual averages prior to 1964.
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

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

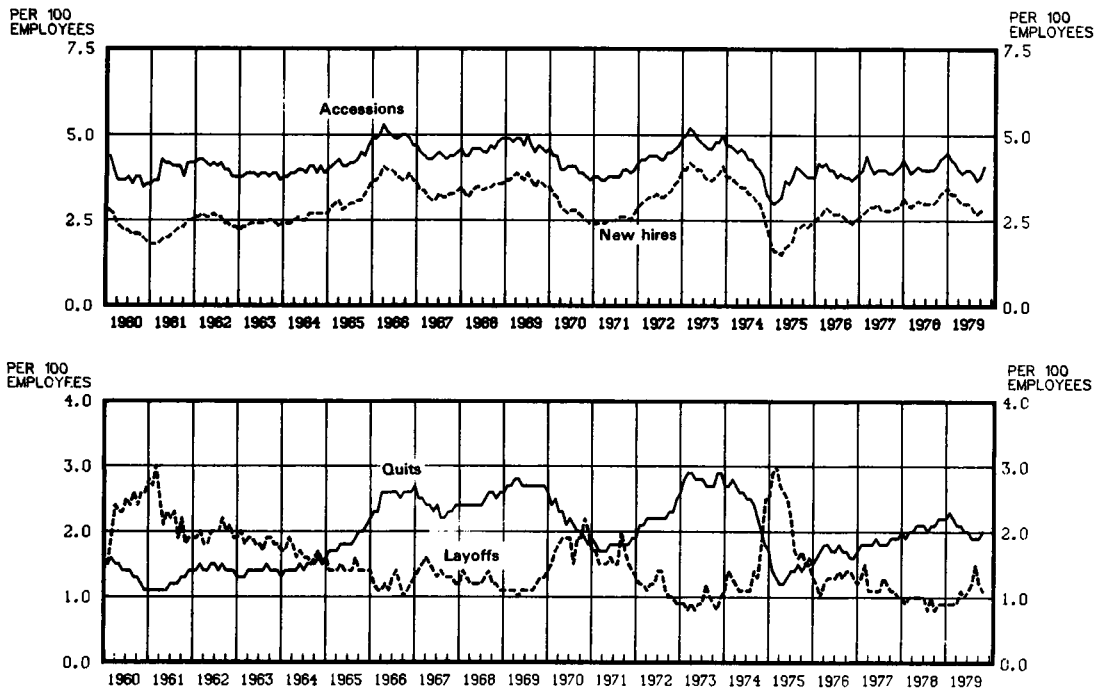


¹ Married worker with three dependents.

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						
		Number	Percent of population	Total	Employed			Unemployed		Not in labor force
					Total	Agriculture	Nonagricultural industries	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	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	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 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
Monthly data, seasonally adjusted²										
1978:										
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
1979:										
January..	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February..	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012
March....	162,909	104,804	64.3	102,714	96,842	3,343	93,499	5,871	5.7	58,105
April....	163,008	104,193	63.9	102,111	96,174	3,186	92,987	5,937	5.8	58,815
May.....	163,260	104,325	63.9	102,247	96,318	3,184	93,134	5,929	5.8	58,935
June.....	163,469	104,604	64.0	102,528	96,754	3,260	93,494	5,774	5.6	58,865
July.....	163,685	105,141	64.2	103,059	97,210	3,262	93,949	5,848	5.7	58,545
August....	163,891	105,139	64.2	103,049	96,900	3,322	93,578	6,149	6.0	58,752
September..	164,106	105,590	64.3	103,498	97,513	3,400	94,113	5,985	5.8	58,515
October..	164,468	105,567	64.2	103,474	97,293	3,288	94,005	6,182	6.0	58,901
November..	164,682	105,777	64.2	103,685	97,646	3,426	94,221	5,039	5.8	58,904

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	48,118	3,157	44,957	1,419	2.9	12,315
1969.....	66,165	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	2,280	4.1	14,541
1974.....	72,253	57,349	79.4	55,196	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
Monthly data, seasonally adjusted²										
1978:										
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
1979:										
January..	77,839	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February..	77,926	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
March....	78,058	61,515	78.8	59,560	56,559	2,656	53,903	3,001	5.0	16,543
April....	78,105	61,215	78.4	59,268	56,267	2,559	53,708	3,001	5.1	16,890
May.....	78,225	61,206	78.2	59,262	56,352	2,583	53,769	2,910	4.9	17,019
June.....	78,323	61,387	78.4	59,446	56,638	2,609	54,029	2,808	4.7	16,936
July.....	78,427	61,535	78.5	59,592	56,595	2,609	53,986	2,997	5.0	16,892
August....	78,525	61,342	78.1	59,396	56,316	2,658	53,658	3,081	5.2	17,183
September	78,627	61,696	78.5	59,749	56,653	2,700	53,953	3,096	5.2	16,930
October..	78,805	61,595	78.2	59,647	56,539	2,675	53,863	3,109	5.2	17,210
November..	78,906	61,623	78.1	59,675	56,545	2,737	53,808	3,130	5.2	17,284
ANNUAL AVERAGES										
MALES										
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
Monthly data, seasonally adjusted²										
1978:										
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
1979:										
January..	84,608	42,840	50.6	42,708	39,851	636	39,214	2,857	6.7	41,769
February..	84,707	43,121	50.9	42,989	40,098	663	39,435	2,891	6.7	41,587
March....	84,851	43,289	51.0	43,153	40,283	687	39,596	2,870	6.7	41,563
April....	84,903	42,978	50.6	42,843	39,907	627	39,279	2,936	6.9	41,925
May.....	85,035	43,121	50.7	42,986	39,966	601	39,365	3,019	7.0	41,914
June.....	85,145	43,217	50.8	43,082	40,116	651	39,465	2,966	6.9	41,929
July.....	85,259	43,606	51.1	43,467	40,615	653	39,962	2,852	6.6	41,653
August....	85,366	43,798	51.3	43,653	40,585	665	39,920	3,068	7.0	41,569
September	85,479	43,894	51.4	43,749	40,860	700	40,160	2,889	6.6	41,585
October..	85,663	43,972	51.3	43,827	40,754	613	40,142	3,073	7.0	41,692
November..	85,775	44,155	51.5	44,010	41,101	689	40,412	2,909	6.6	41,621

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	November 1979										
	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	61,319	77.7	59,372	56,433	2,939	4.9	17,587	361	4,574	1,688	10,964
16 to 21 years	8,429	66.3	7,792	6,749	1,043	13.4	4,281	26	3,817	35	402
16 to 19 years	4,975	59.1	4,710	3,949	762	16.2	3,445	20	3,166	22	236
16 to 17 years	1,978	47.7	1,961	1,600	360	18.4	2,172	9	2,063	7	93
18 to 19 years	2,997	70.2	2,749	2,348	401	14.6	1,273	11	1,103	15	144
20 to 64 years	54,396	89.5	52,713	50,581	2,131	4.0	6,375	164	1,405	1,194	3,612
20 to 24 years	8,871	86.1	8,120	7,485	635	7.8	1,435	19	1,039	45	332
25 to 54 years	39,375	94.4	37,444	36,132	1,312	3.5	2,256	89	363	626	1,177
25 to 29 years	8,659	94.8	8,295	7,877	419	5.0	478	8	224	49	197
30 to 34 years	7,946	96.4	7,696	7,423	273	3.5	294	8	73	54	159
35 to 39 years	6,420	96.3	6,228	6,017	211	3.4	247	14	35	67	131
40 to 44 years	5,346	95.7	5,258	5,101	157	3.0	239	9	11	101	118
45 to 49 years	5,012	92.9	4,981	4,858	124	2.5	383	27	11	141	204
50 to 54 years	4,992	89.0	4,985	4,857	128	2.6	614	23	10	214	367
55 to 64 years	7,149	72.7	7,148	6,963	185	2.6	2,685	56	3	523	2,103
55 to 59 years	4,427	82.4	4,426	4,316	110	2.5	942	16	2	276	649
60 to 64 years	2,723	61.0	2,722	2,648	75	2.8	1,743	40	2	247	1,454
65 years and over	1,949	20.1	1,949	1,904	46	2.3	7,767	177	3	471	7,116
65 to 69 years	1,140	29.9	1,140	1,109	30	2.6	2,667	57	2	173	2,434
70 years and over	810	13.7	810	794	16	1.9	5,100	120	1	297	4,681
White											
16 years and over	54,509	78.5	52,979	50,670	2,309	4.4	14,930	279	3,668	1,377	9,607
16 to 21 years	7,439	69.0	6,954	6,133	821	11.8	3,346	14	3,043	32	258
16 to 19 years	4,441	62.4	4,240	3,623	617	14.5	2,679	9	2,480	23	166
16 to 17 years	1,795	51.4	1,780	1,477	303	17.0	1,696	5	1,613	7	70
18 to 19 years	2,647	72.9	2,459	2,145	314	12.8	984	4	867	16	96
20 to 64 years	48,307	90.2	46,980	45,328	1,652	3.5	5,267	118	1,186	972	2,990
20 to 24 years	7,701	87.0	7,131	6,664	468	6.6	1,149	14	892	32	212
25 to 54 years	34,084	95.1	33,327	32,305	1,022	3.1	1,752	60	290	492	908
25 to 34 years	14,657	96.2	14,168	13,615	553	3.9	582	11	241	82	249
35 to 44 years	10,476	96.6	10,241	9,951	290	2.8	364	17	34	121	192
45 to 54 years	8,951	91.8	8,918	8,739	179	2.0	805	33	16	290	467
55 to 64 years	6,522	73.4	6,521	6,359	162	2.5	2,366	44	3	448	1,871
55 to 59 years	4,034	83.4	4,033	3,942	91	2.3	805	14	2	240	550
60 to 64 years	2,488	61.4	2,488	2,417	71	2.8	1,561	30	1	209	1,321
65 years and over	1,760	20.1	1,760	1,719	41	2.3	6,984	151	1	381	6,451
Black and other											
16 years and over	6,811	71.9	6,393	5,764	629	9.8	2,657	82	906	311	1,357
16 to 21 years	990	51.4	837	616	222	26.5	935	12	775	3	145
16 to 19 years	533	41.1	471	326	145	30.8	765	11	685	--	70
16 to 17 years	183	27.8	180	123	57	31.8	476	4	450	--	23
18 to 19 years	350	54.8	290	203	87	30.1	289	7	236	--	47
20 to 64 years	6,088	84.6	5,733	5,254	479	8.4	1,108	45	219	222	622
20 to 24 years	1,170	80.4	989	822	167	16.9	286	5	146	14	121
25 to 54 years	4,291	89.5	4,117	3,828	289	7.0	504	29	73	134	269
25 to 34 years	1,948	91.1	1,823	1,685	139	7.6	190	5	56	21	108
35 to 44 years	1,290	91.4	1,245	1,167	78	6.3	121	6	11	47	57
45 to 54 years	1,053	84.6	1,049	976	73	6.9	192	17	5	65	105
55 to 64 years	627	66.3	627	604	23	3.7	319	12	--	75	233
55 to 59 years	393	74.1	393	374	19	4.8	137	2	--	36	99
60 to 64 years	234	56.3	234	230	4	1.9	182	10	--	39	134
65 years and over	189	19.4	189	184	5	2.5	783	26	2	90	665

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

(Numbers in thousands)

Sex, age, and race	November 1979										
	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	44,492	51.9	44,347	41,510	2,838	6.4	41,283	31,335	4,407	1,108	4,434
16 to 21 years	7,234	58.1	7,178	6,199	979	13.6	5,210	1,198	3,674	16	323
16 to 19 years	4,408	53.6	4,385	3,711	674	15.4	3,820	534	3,042	6	238
16 to 17 years	1,814	45.2	1,813	1,528	285	15.7	2,202	141	1,978	2	81
18 to 19 years	2,595	61.6	2,572	2,183	389	15.1	1,618	393	1,064	4	157
20 to 64 years	38,921	61.1	38,800	36,668	2,132	5.5	24,771	21,155	1,349	530	1,737
20 to 24 years	7,146	69.4	7,073	6,447	626	8.8	3,147	1,994	923	31	199
25 to 54 years	27,107	63.9	27,058	25,705	1,353	5.0	15,303	13,750	411	256	885
25 to 29 years	6,261	67.2	6,227	5,809	418	6.7	3,051	2,693	174	20	164
30 to 34 years	5,397	63.8	5,387	5,097	291	5.4	3,057	2,815	92	20	130
35 to 39 years	4,589	65.5	4,587	4,354	232	5.1	2,419	2,208	76	32	102
40 to 44 years	3,846	65.0	3,845	3,705	140	3.6	2,076	1,891	36	34	114
45 to 49 years	3,522	61.9	3,521	3,369	152	4.3	2,168	1,936	18	52	162
50 to 54 years	3,491	58.0	3,491	3,371	120	3.4	2,531	2,206	15	98	212
55 to 64 years	4,668	42.5	4,668	4,514	154	3.3	6,322	5,412	14	242	654
55 to 59 years	2,928	49.6	2,928	2,825	103	3.5	2,972	2,612	8	127	226
60 to 64 years	1,740	34.2	1,740	1,690	50	2.9	3,349	2,800	7	115	428
65 years and over	1,163	8.4	1,163	1,131	32	2.8	12,692	9,645	16	572	2,459
65 to 69 years	728	15.3	728	708	21	2.8	4,025	3,201	8	118	698
70 years and over	435	4.8	435	423	12	2.7	8,667	6,444	8	454	1,761
White											
16 years and over	39,483	51.5	38,372	36,192	2,180	5.7	36,180	28,047	3,514	854	3,764
16 to 21 years	6,382	60.9	6,339	5,602	737	11.6	4,090	926	2,929	11	224
16 to 19 years	3,929	56.8	3,911	3,397	514	13.1	2,982	417	2,388	5	172
16 to 17 years	1,647	49.0	1,646	1,419	227	13.8	1,713	113	1,542	2	57
18 to 19 years	2,282	64.3	2,265	1,978	287	12.7	1,269	304	846	3	116
20 to 64 years	33,521	60.7	33,428	31,788	1,641	4.9	21,679	18,760	1,109	389	1,420
20 to 24 years	6,147	70.7	6,092	5,654	438	7.2	2,552	1,625	765	23	139
25 to 54 years	23,215	63.4	23,178	22,114	1,064	4.6	13,420	12,182	312	192	713
25 to 29 years	3,860	64.8	3,827	3,286	541	5.5	5,346	4,882	208	28	227
30 to 34 years	7,226	64.6	7,223	6,931	291	4.0	3,952	3,632	95	53	172
35 to 44 years	6,128	59.8	6,128	5,896	232	3.8	4,123	3,668	30	112	313
55 to 64 years	4,159	42.2	4,159	4,020	139	3.3	5,707	4,953	12	174	568
55 to 59 years	2,610	49.4	2,610	2,516	94	3.6	2,670	2,374	7	94	195
60 to 64 years	1,549	33.8	1,549	1,504	45	2.9	3,037	2,579	6	80	373
65 years and over	1,033	8.2	1,033	1,007	26	2.5	11,519	8,870	17	460	2,172
Black and other											
16 years and over	6,010	54.1	5,975	5,318	658	11.0	5,103	3,288	893	254	669
16 to 21 years	852	43.2	839	597	242	28.8	1,120	271	746	4	99
16 to 19 years	480	36.4	474	314	160	33.8	838	117	654	1	65
16 to 17 years	167	25.5	167	109	58	34.7	489	28	436	--	24
18 to 19 years	313	47.2	307	205	102	33.3	349	89	218	1	41
20 to 64 years	5,399	63.6	5,370	4,880	492	9.2	3,091	2,395	238	141	317
20 to 24 years	998	62.7	981	794	188	19.1	595	369	158	8	60
25 to 54 years	3,892	67.4	3,881	3,592	289	7.4	1,883	1,567	79	64	171
25 to 29 years	1,798	70.2	1,788	1,620	168	9.4	763	626	58	13	66
30 to 34 years	1,210	69.0	1,209	1,128	81	6.7	543	468	18	13	44
35 to 44 years	884	60.5	884	844	40	4.5	577	474	3	38	61
55 to 64 years	509	45.3	509	494	15	2.9	615	459	2	69	86
55 to 59 years	318	51.2	318	308	10	3.0	302	238	1	33	31
60 to 64 years	191	37.9	191	186	5	2.7	312	221	1	35	55
65 years and over	131	10.0	131	124	6	4.7	1,174	775	--	112	287

HOUSEHOLD DATA

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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
MALES								
16 years and over	60,710	61,319	78.2	77.7	58,723	59,372	77.6	77.1
16 to 19 years	5,091	4,975	60.2	59.1	4,799	4,710	58.7	57.8
16 to 17 years	2,019	1,978	47.9	47.7	1,996	1,961	47.6	47.4
18 to 19 years	3,072	2,997	72.3	70.2	2,803	2,749	70.4	68.4
20 to 24 years	8,813	8,871	86.6	86.1	8,058	8,120	85.5	85.0
25 to 54 years	37,662	38,375	94.6	94.4	36,723	37,444	94.5	94.3
25 to 34 years	16,101	16,605	95.7	95.6	15,485	15,991	95.5	95.4
35 to 44 years	11,435	11,766	96.1	96.0	11,151	11,486	96.0	95.9
45 to 54 years	10,126	10,004	91.3	90.9	10,087	9,967	91.3	90.9
55 to 64 years	7,189	7,149	74.1	72.7	7,188	7,148	74.1	72.7
55 to 59 years	4,431	4,427	83.2	82.4	4,430	4,426	83.2	82.4
60 to 64 years	2,758	2,723	63.0	61.0	2,758	2,722	63.0	61.0
65 years and over	1,954	1,949	20.6	20.1	1,954	1,949	20.6	20.1
White								
16 years and over	53,957	54,509	78.8	78.5	52,360	52,979	78.3	78.0
16 to 19 years	4,502	4,441	62.7	62.4	4,272	4,240	61.5	61.3
16 to 17 years	1,820	1,795	51.2	51.4	1,801	1,780	50.9	51.2
18 to 19 years	2,682	2,647	74.1	72.9	2,471	2,459	72.5	71.4
20 to 24 years	7,664	7,701	87.4	87.0	7,074	7,131	86.5	86.1
25 to 54 years	33,489	34,084	95.2	95.1	32,715	33,327	95.1	95.0
25 to 34 years	14,236	14,657	96.3	96.2	13,735	14,168	96.1	96.1
35 to 44 years	10,184	10,476	96.7	96.6	9,944	10,241	96.6	96.6
45 to 54 years	9,070	8,951	92.0	91.8	9,035	8,918	92.0	91.7
55 to 64 years	6,541	6,522	74.5	73.4	6,540	6,521	74.5	73.4
55 to 59 years	4,022	4,034	83.8	83.4	4,020	4,033	83.8	83.4
60 to 64 years	2,520	2,488	63.3	61.4	2,520	2,488	63.3	61.4
65 years and over	1,759	1,760	20.6	20.1	1,759	1,760	20.6	20.1
Black and other								
16 years and over	6,753	6,811	73.4	71.9	6,362	6,393	72.2	70.6
16 to 19 years	588	533	45.8	41.1	527	471	43.0	38.1
16 to 17 years	199	183	30.2	27.8	195	180	29.8	27.5
18 to 19 years	390	350	62.0	54.8	332	290	58.1	50.1
20 to 24 years	1,149	1,170	81.3	80.4	984	989	78.9	77.6
25 to 54 years	4,173	4,291	90.0	89.5	4,009	4,117	89.6	89.1
25 to 34 years	1,866	1,948	91.6	91.1	1,750	1,823	91.1	90.6
35 to 44 years	1,251	1,290	91.4	91.4	1,206	1,245	91.1	91.1
45 to 54 years	1,056	1,053	85.8	84.6	1,052	1,049	85.7	84.5
55 to 64 years	648	627	70.0	66.3	648	627	70.0	66.3
55 to 59 years	409	393	78.1	74.1	409	393	78.1	74.1
60 to 64 years	238	234	59.4	56.3	238	234	59.4	56.3
65 years and over	195	189	20.7	19.4	195	189	20.7	19.4

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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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
FEMALES								
16 years and over	43,065	44,492	51.0	51.9	42,936	44,347	51.0	51.8
16 to 19 years	4,414	4,408	53.3	53.6	4,393	4,385	53.2	53.4
16 to 17 years	1,834	1,814	44.9	45.2	1,832	1,813	44.9	45.2
18 to 19 years	2,580	2,595	61.4	61.6	2,561	2,572	61.3	61.4
20 to 24 years	6,985	7,146	68.7	69.4	6,917	7,073	68.5	69.2
25 to 54 years	25,941	27,107	62.4	63.9	25,899	27,058	62.3	63.9
25 to 34 years	11,055	11,658	64.3	65.6	11,018	11,615	64.2	65.5
35 to 44 years	7,916	8,436	63.1	65.2	7,913	8,432	63.1	65.2
45 to 54 years	6,969	7,013	58.9	59.9	6,968	7,012	58.9	59.9
55 to 64 years	4,611	4,668	42.5	42.5	4,611	4,668	42.5	42.5
55 to 59 years	2,917	2,928	49.9	49.6	2,917	2,928	49.9	49.6
60 to 64 years	1,694	1,740	33.9	34.2	1,694	1,740	33.9	34.2
65 years and over	1,115	1,163	8.2	8.4	1,115	1,163	8.2	8.4
White								
16 years and over	37,263	38,483	50.6	51.5	37,161	38,372	50.6	51.5
16 to 19 years	3,926	3,929	56.3	56.8	3,909	3,911	56.2	56.7
16 to 17 years	1,662	1,647	48.5	49.0	1,661	1,646	48.5	49.0
18 to 19 years	2,264	2,282	63.9	64.3	2,248	2,265	63.7	64.1
20 to 24 years	5,999	6,147	69.7	70.7	5,946	6,092	69.5	70.5
25 to 54 years	22,256	23,215	61.8	63.4	22,223	23,178	61.8	63.3
25 to 34 years	9,383	9,860	63.6	64.8	9,355	9,827	63.5	64.8
35 to 44 years	6,783	7,226	62.5	64.6	6,780	7,223	62.5	64.6
45 to 54 years	6,090	6,128	58.6	59.8	6,089	6,128	58.6	59.8
55 to 64 years	4,122	4,159	42.3	42.2	4,122	4,159	42.3	42.2
55 to 59 years	2,608	2,610	49.8	49.4	2,608	2,610	49.8	49.4
60 to 64 years	1,515	1,549	33.6	33.8	1,515	1,549	33.6	33.8
65 years and over	960	1,033	7.8	8.2	960	1,033	7.8	8.2
Black and other								
16 years and over	5,802	6,010	53.7	54.1	5,775	5,975	53.6	53.9
16 to 19 years	488	480	37.2	36.4	484	474	37.0	36.1
16 to 17 years	171	167	26.1	25.5	171	167	26.1	25.4
18 to 19 years	316	313	48.3	47.2	313	307	48.0	46.8
20 to 24 years	986	998	63.5	62.7	972	981	63.2	62.3
25 to 54 years	3,685	3,892	66.0	67.4	3,676	3,881	65.9	67.3
25 to 34 years	1,672	1,798	68.4	70.2	1,664	1,788	68.3	70.1
35 to 44 years	1,133	1,210	66.8	69.0	1,132	1,209	66.7	69.0
45 to 54 years	880	884	61.0	60.5	880	884	61.0	60.5
55 to 64 years	489	509	44.8	45.3	489	509	44.8	45.3
55 to 59 years	309	318	50.8	51.2	309	318	50.8	51.2
60 to 64 years	180	191	37.2	37.9	180	191	37.2	37.9
65 years and over	155	131	12.3	10.0	155	131	12.3	10.0

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

[Numbers in thousands]

Sex and age	November 1979						Not in labor force
	Civilian labor force					Percent of labor force	
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagri-cultural industries				Number
TOTAL							
16 years and over	10,476	9,306	229	9,077	1,170	11.2	6,707
16 to 19 years	809	518	7	512	290	35.9	1,414
16 to 17 years	292	182	4	178	111	37.9	859
18 to 19 years	516	337	3	334	180	34.8	555
20 to 24 years	1,683	1,349	19	1,330	334	19.9	765
25 to 54 years	6,717	6,210	151	6,059	507	7.5	1,983
25 to 34 years	3,006	2,734	56	2,679	272	9.0	765
35 to 44 years	2,080	1,945	45	1,900	135	6.5	561
45 to 54 years	1,631	1,531	50	1,480	101	6.2	658
55 to 64 years	981	951	34	917	30	3.0	839
55 to 59 years	597	574	9	565	23	3.8	398
60 to 64 years	384	377	25	352	7	1.8	441
65 years and over	287	278	19	259	9	3.0	1,706
Males							
16 years and over	5,421	4,844	199	4,646	577	10.6	2,285
16 to 19 years	407	265	7	259	141	34.6	667
16 to 17 years	155	99	4	94	57	36.8	423
18 to 19 years	251	167	3	164	85	33.9	244
20 to 24 years	850	689	16	673	161	18.9	238
25 to 54 years	3,462	3,209	131	3,078	253	7.3	426
25 to 34 years	1,514	1,394	46	1,349	120	7.9	153
35 to 44 years	1,058	987	41	946	71	6.7	105
45 to 54 years	890	827	44	782	63	7.1	169
55 to 64 years	535	518	27	490	17	3.2	294
55 to 59 years	328	313	8	305	15	4.6	131
60 to 64 years	207	204	19	185	2	1.0	163
65 years and over	169	164	18	146	4	2.4	660
Females							
16 years and over	5,055	4,462	30	4,431	593	11.7	4,422
16 to 19 years	402	253	--	253	149	37.0	747
16 to 17 years	137	83	--	84	54	39.3	436
18 to 19 years	265	170	--	170	95	35.8	311
20 to 24 years	833	660	3	657	173	20.8	527
25 to 54 years	3,255	3,001	20	2,981	254	7.8	1,557
25 to 34 years	1,492	1,340	10	1,330	152	10.2	612
35 to 44 years	1,022	958	4	954	64	6.3	456
45 to 54 years	741	704	6	698	38	5.1	489
55 to 64 years	446	433	7	427	13	2.9	545
55 to 59 years	269	261	1	260	8	3.1	267
60 to 64 years	177	173	6	167	5	2.5	278
65 years and over	118	114	1	113	5	3.8	1,046

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

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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
TOTAL								
Total noninstitutional population	162,033	164,682	69,182	70,487	76,110	77,547	16,741	16,648
Total labor force	103,775	105,812	55,619	56,345	38,651	40,084	9,505	9,383
Percent of population	64.0	64.3	80.4	79.9	50.8	51.7	56.8	56.4
Civilian labor force	101,659	103,719	53,924	54,662	38,543	39,963	9,192	9,095
Employed	96,029	97,943	51,955	52,485	36,362	37,799	7,712	7,660
Agriculture	3,100	3,257	2,277	2,403	534	591	289	262
Nonagricultural industries	92,929	94,686	49,678	50,082	35,827	37,207	7,424	7,397
Unemployed	5,629	5,776	1,969	2,177	2,181	2,164	1,479	1,435
Percent of labor force	5.5	5.6	3.7	4.0	5.7	5.4	16.1	15.8
Not in labor force	58,258	58,870	13,563	14,142	37,458	37,463	7,237	7,265
White								
Total noninstitutional population	142,031	144,101	61,266	62,318	66,620	67,752	14,145	14,031
Total labor force	91,220	92,991	49,454	50,067	33,337	34,554	8,429	8,370
Percent of population	64.2	64.5	80.7	80.3	50.0	51.0	59.6	59.7
Civilian labor force	89,521	91,351	48,088	48,740	33,252	34,461	8,182	8,150
Employed	85,261	86,862	46,595	47,047	31,601	32,795	7,066	7,020
Agriculture	2,814	2,985	2,035	2,177	502	554	277	254
Nonagricultural industries	82,447	83,877	44,559	44,870	31,099	32,241	6,788	6,766
Unemployed	4,260	4,490	1,494	1,693	1,651	1,667	1,116	1,130
Percent of labor force	4.8	4.9	3.1	3.5	5.0	4.8	13.6	13.9
Not in labor force	50,811	51,110	11,811	12,251	33,283	33,198	5,716	5,661
Black and other								
Total noninstitutional population	20,002	20,580	7,916	8,169	9,490	9,795	2,597	2,617
Total labor force	12,555	12,820	6,165	6,277	5,314	5,530	1,076	1,013
Percent of population	62.8	62.3	77.9	76.8	56.0	56.5	41.4	38.7
Civilian labor force	12,137	12,368	5,836	5,922	5,291	5,501	1,010	945
Employed	10,768	11,081	5,360	5,438	4,761	5,004	647	640
Agriculture	286	272	242	226	33	38	12	8
Nonagricultural industries	10,482	10,810	5,119	5,212	4,728	4,966	635	631
Unemployed	1,369	1,287	475	484	530	498	363	305
Percent of labor force	11.3	10.4	8.1	8.2	10.0	9.0	36.0	32.3
Not in labor force	7,447	7,760	1,751	1,891	4,175	4,265	1,521	1,603

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

(Numbers in thousands)

Employment status	November 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,154	12,709	12,444	21,256	10,784	10,472	3,897	1,925	1,972
Total labor force	15,663	8,429	7,234	13,820	7,439	6,382	1,842	990	852
Percent of population	62.3	66.3	58.1	65.0	69.0	60.9	47.3	51.4	43.2
Civilian labor force	14,969	7,792	7,178	13,293	6,954	6,339	1,676	837	839
Employed	12,947	6,749	6,199	11,734	6,133	5,602	1,213	616	597
Agriculture	416	348	68	398	332	66	17	15	2
Nonagricultural industries	12,532	6,401	6,131	11,336	5,800	5,536	1,195	600	595
Unemployed	2,022	1,043	979	1,558	821	737	463	222	242
Looking for full-time work	1,182	623	559	849	463	386	333	160	173
Looking for part-time work	840	420	420	709	358	351	131	62	69
Percent of labor force	13.5	13.4	13.6	11.7	11.8	11.6	27.6	26.5	28.8
Not in labor force	9,491	4,281	5,210	7,436	3,346	4,090	2,055	935	1,120
Major activity: going to school									
Civilian labor force	4,382	2,204	2,178	3,957	2,001	1,956	425	204	222
Employed	3,632	1,796	1,836	3,353	1,661	1,692	279	135	144
Agriculture	122	106	16	119	103	16	3	3	--
Nonagricultural industries	3,510	1,690	1,820	3,234	1,558	1,676	275	132	144
Unemployed	750	409	342	604	340	264	147	69	78
Looking for full-time work	48	26	22	28	14	13	20	12	8
Looking for part-time work	702	383	320	576	326	250	126	57	69
Percent of labor force	17.1	18.5	15.7	15.3	17.0	13.5	34.5	33.8	35.0
Not in labor force	7,492	3,817	3,674	5,971	3,043	2,929	1,520	775	746
Major activity: other									
Civilian labor force	10,587	5,587	5,000	9,336	4,954	4,383	1,251	634	617
Employed	9,315	4,953	4,363	8,381	4,472	3,909	934	481	453
Agriculture	293	242	52	279	230	50	14	12	2
Nonagricultural industries	9,022	4,711	4,311	8,102	4,242	3,860	920	469	451
Unemployed	1,272	634	637	955	482	473	317	153	164
Looking for full-time work	1,134	597	537	822	449	373	312	148	165
Looking for part-time work	138	37	100	133	32	101	5	5	--
Percent of labor force	12.0	11.4	12.7	10.2	9.7	10.8	25.3	24.1	26.6
Not in labor force	1,999	463	1,536	1,464	303	1,162	535	160	375

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

[Numbers in thousands]

Race, sex, and age	November 1979								
	Full-time labor force				Part-time labor force				
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	87,522	79,728	3,422	4,372	5.0	16,197	14,793	1,404	8.7
16 to 21 years.....	8,989	7,114	693	1,182	13.1	5,980	5,140	840	14.0
18 to 19 years.....	4,311	3,164	452	694	16.1	4,784	4,043	741	15.5
18 to 17 years.....	716	470	117	129	18.0	3,057	2,541	516	16.9
18 to 19 years.....	3,594	2,694	335	565	15.7	1,728	1,503	225	13.0
20 years and over.....	83,212	76,564	2,970	3,678	4.4	11,413	10,749	663	5.8
20 to 24 years.....	12,959	11,213	652	1,094	8.4	2,234	2,068	166	7.4
25 years and over.....	70,253	65,350	2,318	2,584	3.7	9,178	8,681	497	5.4
25 to 54 years.....	58,300	54,157	1,856	2,287	3.9	6,202	5,824	377	6.1
55 years and over.....	11,953	11,193	462	297	2.5	2,976	2,857	120	4.0
Males, 16 years and over.....	54,154	50,168	1,599	2,386	4.4	5,218	4,666	552	10.6
16 to 21 years.....	4,985	4,027	335	623	12.5	2,806	2,386	420	15.0
18 to 19 years.....	2,407	1,795	235	377	15.7	2,303	1,919	384	16.7
20 years and over.....	51,747	48,373	1,364	2,009	3.9	2,915	2,747	168	5.8
20 to 24 years.....	7,187	6,318	306	562	7.8	934	861	72	7.7
25 years and over.....	44,560	42,054	1,058	1,446	3.2	1,981	1,886	95	4.8
25 to 54 years.....	36,689	34,613	807	1,268	3.5	755	713	43	5.7
55 years and over.....	7,871	7,442	251	178	2.3	1,226	1,174	52	4.2
Females, 16 years and over.....	33,369	29,560	1,823	1,986	6.0	10,979	10,127	852	7.8
16 to 21 years.....	4,004	3,087	358	559	14.0	3,174	2,754	420	13.2
18 to 19 years.....	1,903	1,369	217	317	16.6	2,481	2,125	357	14.4
20 years and over.....	31,465	28,190	1,606	1,669	5.3	8,497	8,002	495	5.8
20 to 24 years.....	5,772	4,895	346	532	9.2	1,301	1,207	94	7.2
25 years and over.....	25,693	23,295	1,260	1,137	4.4	7,196	6,795	401	5.6
25 to 54 years.....	21,611	19,544	1,049	1,018	4.7	5,447	5,112	335	6.2
55 years and over.....	4,082	3,751	211	119	2.9	1,749	1,683	67	3.8
White									
Males, 16 years and over.....	48,317	45,112	1,358	1,847	3.8	4,663	4,200	462	9.9
16 to 21 years.....	4,410	3,636	311	463	10.5	2,544	2,186	358	14.1
18 to 19 years.....	2,147	1,641	217	290	13.5	2,092	1,765	327	15.6
20 years and over.....	46,169	43,471	1,141	1,557	3.4	2,570	2,435	135	5.3
20 to 24 years.....	6,315	5,635	272	408	6.5	816	757	59	7.3
25 years and over.....	39,855	37,837	870	1,149	2.9	1,754	1,678	76	4.3
25 to 54 years.....	32,685	31,026	667	992	3.0	643	613	30	4.7
55 years and over.....	7,170	6,811	203	156	2.2	1,112	1,065	46	4.1
Females, 16 years and over.....	28,343	25,410	1,476	1,457	5.1	10,029	9,306	723	7.2
16 to 21 years.....	3,451	2,755	310	386	11.2	2,888	2,537	351	12.2
18 to 19 years.....	1,658	1,252	187	219	13.2	2,253	1,958	295	13.1
20 years and over.....	26,685	24,158	1,289	1,238	4.6	7,776	7,348	428	5.5
20 to 24 years.....	4,908	4,265	289	354	7.2	1,184	1,100	83	7.0
25 years and over.....	21,777	19,893	1,000	884	4.1	6,593	6,248	345	5.2
25 to 54 years.....	18,135	16,521	839	775	4.3	5,043	4,753	290	5.8
55 years and over.....	3,642	3,372	161	109	3.0	1,550	1,494	56	3.6
Black and other									
Males, 16 years and over.....	5,837	5,057	241	539	9.2	556	466	90	16.2
16 to 21 years.....	575	391	24	160	27.8	262	200	62	23.6
18 to 19 years.....	260	154	19	87	33.6	211	153	58	27.3
20 years and over.....	5,577	4,903	223	452	8.1	345	313	32	9.4
20 to 24 years.....	872	684	34	154	17.7	117	104	13	11.1
25 years and over.....	4,705	4,219	188	298	6.3	228	208	19	8.3
25 to 54 years.....	4,004	3,588	141	276	6.9	113	100	13	11.5
55 years and over.....	701	631	48	22	3.1	115	109	6	5.2
Females, 16 years and over.....	5,025	4,150	347	528	10.5	950	821	129	13.6
16 to 21 years.....	553	332	48	173	31.3	286	217	69	24.1
18 to 19 years.....	245	117	30	98	39.9	229	167	62	27.2
20 years and over.....	4,780	4,033	317	430	9.0	721	654	67	9.3
20 to 24 years.....	864	631	56	177	20.5	117	107	10	8.8
25 years and over.....	3,916	3,402	261	252	6.4	605	547	57	9.4
25 to 54 years.....	3,476	3,023	211	243	7.0	405	359	45	11.1
55 years and over.....	440	379	50	9	2.0	200	188	12	6.0

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	November 1979									
	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	103,719	63.8	97,943	5,776	5.6	58,870	31,695	8,981	2,796	15,398
Husbands ¹	40,941	81.1	39,844	1,097	2.7	9,512	155	217	1,136	8,004
With employed wife	21,216	91.9	20,725	493	2.3	1,866	36	106	389	1,335
With unemployed wife	1,053	93.9	968	84	8.0	69	4	7	21	37
With wife not in labor force	16,877	70.5	16,440	437	2.6	7,046	88	63	662	6,233
Wives	24,204	50.3	23,083	1,122	4.6	23,923	21,741	341	270	1,572
With employed husband	21,692	56.9	20,724	968	4.5	16,440	15,296	289	100	755
With unemployed husband	577	57.0	493	84	14.6	437	413	11	5	7
With husband not in labor force	1,935	21.5	1,866	69	3.6	7,046	6,032	40	164	809
Relatives in husband-wife families	13,979	60.6	12,424	1,555	11.1	9,083	1,288	6,107	373	1,315
16-19 years	6,387	55.0	5,523	864	13.5	5,216	151	4,757	11	297
20-24 years	4,822	74.2	4,372	450	9.3	1,680	182	1,249	46	205
25 years and over	2,770	55.9	2,529	241	8.7	2,187	955	101	316	813
Women who head families	5,119	60.1	4,689	430	8.4	3,404	2,660	110	159	474
Relatives in female-headed families	4,199	56.0	3,522	677	16.1	3,298	792	1,488	284	732
16-19 years	1,370	49.3	1,005	365	26.6	1,407	84	1,202	13	55
20-24 years	1,235	70.9	1,054	181	14.7	507	101	250	18	139
25 years and over	1,594	53.5	1,463	131	8.2	1,384	607	36	253	538
Persons not living in families ²	15,277	61.3	14,381	895	5.9	9,650	5,059	718	574	3,301

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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
	Total, 16 years and over	2,747	2,939	4.7	4.9	2,882	2,838	6.7	6.4
Married, spouse present	886	1,081	2.2	2.7	1,318	1,179	5.5	4.8
Widowed, divorced, or separated	309	321	6.6	6.6	503	548	6.3	6.6
Single (never married)	1,552	1,537	11.1	10.7	1,061	1,111	9.9	9.8
White, 16 years and over	2,078	2,309	4.0	4.4	2,182	2,180	5.9	5.7
Married, spouse present	746	913	2.0	2.5	1,112	1,016	5.1	4.6
Widowed, divorced, or separated	220	224	5.8	5.7	357	400	5.5	6.0
Single (never married)	1,113	1,173	9.2	9.4	713	764	7.9	8.0
Black and other, 16 years and over	669	629	10.5	9.8	700	658	12.1	11.0
Married, spouse present	140	169	4.0	4.8	206	163	8.3	6.4
Widowed, divorced, or separated	90	97	9.8	10.0	146	147	9.1	9.2
Single (never married)	439	364	23.0	19.2	348	347	20.5	19.2
Total, 20 to 64 years of age	1,914	2,131	3.7	4.0	2,142	2,132	5.7	5.5
Married, spouse present	823	1,025	2.2	2.7	1,232	1,087	5.3	4.6
Widowed, divorced, or separated	290	311	6.5	6.7	462	512	6.3	6.7
Single (never married)	800	796	8.5	8.1	448	533	6.6	7.3
White, 20 to 64 years of age	1,447	1,652	3.1	3.5	1,621	1,641	5.0	4.9
Married, spouse present	690	362	2.0	2.5	1,038	936	4.9	4.4
Widowed, divorced, or separated	203	216	5.7	5.8	321	371	5.5	6.1
Single (never married)	552	575	6.9	6.9	262	334	4.8	5.6
Black and other, 20 to 64 years of age	468	479	8.3	8.4	521	492	10.1	9.2
Married, spouse present	133	163	3.9	4.8	194	151	8.1	6.0
Widowed, divorced, or separated	87	96	10.1	10.4	140	141	9.4	9.3
Single (never married)	248	221	18.0	15.4	187	199	14.9	14.7

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
Total, 16 years and over	5,629	5,776	5.5	5.6	4.7	4.9	6.7	6.4
White-collar workers	1,602	1,604	3.2	3.1	2.1	1.9	4.2	4.1
Professional and technical	350	357	2.3	2.3	1.8	1.7	3.0	3.1
Managers and administrators, except farm	236	214	2.3	2.0	2.0	1.5	3.2	3.4
Sales workers	199	229	3.1	3.4	2.2	2.1	4.2	4.9
Clerical workers	818	805	4.5	4.3	3.2	3.1	4.8	4.6
Blue-collar workers	2,088	2,454	6.1	7.1	5.5	6.6	8.7	9.1
Craft and kindred workers	487	621	3.7	4.6	3.7	4.6	4.5	4.3
Carpenters and other construction craft	255	318	6.3	7.3	6.2	7.3	(1)	(1)
All other	232	303	2.5	3.3	2.5	3.3	3.4	3.7
Operatives, except transport	865	1,031	7.2	8.5	5.5	7.6	9.6	9.8
Transport equipment operatives	154	178	4.0	4.6	3.9	4.6	4.8	5.1
Nonfarm laborers	583	622	11.3	12.4	11.6	12.5	8.5	11.2
Construction laborers	195	171	18.3	17.3	18.4	16.5	(1)	(1)
All other	388	451	9.5	11.1	9.6	11.4	8.2	9.6
Service workers	1,032	908	7.4	6.6	6.1	5.7	8.1	7.1
Private household	74	49	5.9	4.2	(1)	(1)	5.8	4.3
All other	957	858	7.5	6.8	6.1	5.7	8.5	7.5
Farm workers	104	143	3.9	5.2	2.5	3.3	10.0	13.2
No previous work experience	803	667	--	--	--	--	--	--
16 to 19 years	588	466	--	--	--	--	--	--
20 to 24 years	138	118	--	--	--	--	--	--
25 years and over	77	83	--	--	--	--	--	--

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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
Total, 16 years and over	100.0	100.0	5.5	5.6	4.7	4.9	6.7	6.4
Nonagricultural private wage and salary workers	71.5	73.9	5.4	5.6	4.6	5.2	6.5	6.2
Mining	.4	.6	2.5	3.6	3.0	3.8	(1)	2.6
Construction	8.1	8.3	9.3	9.0	9.5	9.1	6.0	7.5
Manufacturing	19.9	22.8	4.9	5.7	3.7	4.9	7.6	7.4
Durable goods	10.7	13.2	4.5	5.5	3.7	5.1	6.9	6.6
Lumber and wood products	.7	.9	6.0	7.4	5.7	7.9	(1)	4.2
Furniture and fixtures	.8	.4	7.6	4.3	8.7	4.3	5.2	4.3
Stone, clay, and glass products	.6	.7	4.8	5.4	3.8	4.1	8.0	10.6
Primary metal industries	.9	1.4	4.0	6.4	3.3	6.1	8.3	8.8
Fabricated metal products	1.1	1.8	4.3	6.3	3.5	5.5	7.2	9.5
Machinery, except electrical equipment	1.3	1.6	2.9	3.3	2.4	2.9	4.8	4.7
Electrical equipment	2.0	1.6	4.9	4.0	3.0	3.2	7.5	5.0
Transportation equipment	1.6	3.2	3.9	7.9	3.7	8.0	5.1	7.5
Automobiles	1.0	2.3	4.2	10.5	4.4	11.3	3.2	6.6
Other transportation equipment	.6	.8	3.6	4.6	2.9	3.7	7.8	8.3
Instruments and related products	.2	.7	2.5	6.9	3.5	4.0	1.4	10.5
Other durable goods industries	1.2	.8	8.5	6.2	5.1	5.2	12.4	7.4
Nondurable goods	9.3	9.6	5.6	6.0	3.8	4.4	8.3	8.1
Food and kindred products	2.4	1.9	6.7	5.9	5.3	4.1	9.8	9.8
Textile mill products	1.0	.7	5.9	4.4	4.8	4.7	7.0	4.1
Apparel and other textile products	2.1	2.7	8.5	11.0	7.7	9.2	8.8	11.4
Paper and allied products	.6	.4	4.4	3.0	2.5	3.2	10.5	2.5
Printing and publishing	1.1	1.2	4.5	4.4	3.0	5.2	6.7	3.2
Chemicals and allied products	.5	.7	2.4	3.2	1.4	1.9	5.1	6.5
Rubber and plastics products	1.0	1.3	6.9	9.3	3.6	6.7	12.0	14.0
Other nondurable goods industries	.5	.6	4.5	6.1	3.4	4.7	6.2	7.7
Transportation and public utilities	2.9	3.8	3.0	4.0	2.7	3.5	3.9	5.2
Railroads and railway express	.1	.1	1.3	1.3	1.2	1.2	(1)	(1)
Other transportation	1.8	2.7	4.0	5.9	4.2	5.4	3.2	7.5
Communication and other public utilities	.9	1.0	2.4	2.4	1.2	1.6	4.5	3.8
Wholesale and retail trade	20.3	20.3	6.2	6.2	5.0	5.3	7.4	7.2
Finance, insurance, and real estate	3.2	2.5	3.5	2.7	2.7	1.6	4.0	3.4
Service industries	16.6	15.6	5.5	5.3	4.6	5.1	6.1	5.4
Professional services	6.7	6.8	3.8	4.0	2.6	3.5	4.4	4.2
All other service industries	9.9	8.8	7.8	7.3	6.3	6.6	9.1	7.8
Agricultural wage and salary workers	2.3	3.2	9.1	11.7	7.0	8.7	16.0	22.1
All other classes of workers	12.0	11.4	2.7	2.6	2.3	2.1	3.2	3.3
No previous work experience	14.3	11.5	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	5,629	5,776	1,969	2,177	2,181	2,164	1,479	1,435	4,260	4,490	1,369	1,287
Job losers.....	2,236	2,589	1,162	1,471	779	813	294	304	1,681	2,017	555	572
On layoff.....	633	855	329	520	246	264	58	72	504	727	129	128
Other job losers.....	1,603	1,734	833	951	533	549	236	232	1,177	1,290	426	444
Job leavers.....	822	840	302	283	343	355	177	202	681	720	141	121
Reentrants.....	1,770	1,680	431	363	917	853	422	463	1,362	1,307	407	372
New entrants.....	802	667	74	59	142	143	586	466	536	446	266	221
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.....	39.8	44.8	59.1	67.6	35.7	37.6	20.0	21.2	39.4	44.9	40.5	44.5
On layoff.....	11.3	14.8	16.7	23.9	11.3	12.2	4.0	5.0	11.8	16.2	9.4	10.0
Other job losers.....	28.5	30.0	42.4	43.7	24.4	25.4	16.0	16.2	27.6	28.7	31.1	34.5
Job leavers.....	14.6	14.5	15.3	13.0	15.7	16.4	12.0	14.1	16.0	16.0	10.3	9.4
Reentrants.....	31.4	29.1	21.9	16.7	42.0	39.4	28.5	32.3	32.0	29.1	29.8	28.9
New entrants.....	14.2	11.6	3.7	2.7	6.5	6.6	39.6	32.4	12.6	9.9	19.4	17.2
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.5	5.6	3.7	4.0	5.7	5.4	16.1	15.8	4.8	4.9	11.3	10.4
Job loser rate ¹	2.2	2.5	2.1	2.7	2.0	2.1	3.2	3.4	1.9	2.2	4.6	4.6
Job leaver rate ¹.....	.8	.8	.6	.5	.9	.9	1.9	2.2	.8	.8	1.2	1.0
Reentrant rate ¹	1.7	1.6	.8	.7	2.4	2.1	4.6	5.1	1.5	1.4	3.4	3.0
New entrant rate ¹.....	.8	.6	.1	.1	.4	.4	6.4	5.1	.6	.5	2.2	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	November 1979						
	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.....	5,776	100.0	50.0	31.5	18.5	10.1	8.4
Job losers.....	2,589	100.0	46.8	32.1	21.0	11.3	9.7
On layoff.....	855	100.0	63.0	23.4	13.6	9.4	4.2
Other job losers.....	1,734	100.0	38.9	36.5	24.6	12.2	12.4
Job leavers.....	840	100.0	53.1	30.4	16.6	11.1	5.5
Reentrants.....	1,680	100.0	52.3	32.1	15.6	7.5	8.1
New entrants.....	667	100.0	52.8	28.9	18.3	10.6	7.7
Males, 20 years and over.....	2,177	100.0	45.1	29.7	25.2	12.1	13.1
Job losers.....	1,471	100.0	46.0	29.8	24.2	11.6	12.6
On layoff.....	520	100.0	65.5	20.0	14.5	10.8	3.7
Other job losers.....	951	100.0	35.4	35.1	29.5	12.0	17.5
Job leavers.....	283	100.0	43.2	30.5	26.3	16.9	9.4
Reentrants.....	363	100.0	44.9	27.8	27.3	10.8	16.6
New entrants.....	59	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over.....	2,164	100.0	49.7	33.1	17.2	9.9	7.3
Job losers.....	813	100.0	44.8	36.3	19.0	12.0	7.0
On layoff.....	264	100.0	54.3	30.8	14.9	9.3	5.6
Other job losers.....	549	100.0	40.2	38.9	20.9	13.3	7.6
Job leavers.....	355	100.0	50.8	31.5	17.6	12.0	5.7
Reentrants.....	853	100.0	54.2	31.8	14.1	6.7	7.4
New entrants.....	143	100.0	48.9	26.4	24.7	12.6	12.1
Both sexes, 16 to 19 years.....	1,435	100.0	58.0	31.8	10.2	7.3	2.9
Job losers.....	304	100.0	56.2	32.7	11.1	8.4	2.7
On layoff.....	72	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	232	100.0	50.1	36.2	13.8	10.9	2.9
Job leavers.....	202	100.0	70.8	28.2	1.0	1.3	—
Reentrants.....	463	100.0	54.6	36.2	9.2	6.3	2.9
New entrants.....	466	100.0	56.9	28.6	14.5	10.2	4.3

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

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

Sex, age, and race	November 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	5,776	4,842	26.0	4.7	72.4	29.7	13.0	5.7	1.52
16 to 19 years	1,435	1,343	18.6	2.0	77.5	23.6	12.1	5.2	1.39
20 to 24 years	1,260	1,031	30.7	5.2	72.4	33.9	12.7	4.3	1.59
25 to 34 years	1,401	1,139	28.8	5.7	70.7	31.8	13.1	6.1	1.56
35 to 44 years	740	580	28.8	7.4	69.8	30.7	12.6	6.2	1.56
45 to 54 years	523	433	28.2	6.7	71.6	34.9	13.4	4.2	1.59
55 to 64 years	339	259	25.9	3.1	63.7	25.5	16.2	13.1	1.47
65 years and over	78	58	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over	2,939	2,314	23.2	4.5	73.7	28.1	15.9	7.1	1.58
16 to 19 years	762	698	19.2	2.3	76.4	22.8	15.9	5.3	1.42
20 to 24 years	635	467	32.8	5.4	75.2	30.4	15.0	4.7	1.63
25 to 34 years	692	507	36.1	6.9	70.2	34.9	18.1	7.5	1.74
35 to 44 years	368	265	31.7	7.9	70.6	27.5	14.3	9.1	1.61
45 to 54 years	252	206	30.1	2.9	77.7	31.1	14.1	7.3	1.63
55 to 64 years	185	141	22.0	2.1	72.3	17.7	17.0	17.0	1.48
65 years and over	46	30	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	2,838	2,527	24.0	4.9	71.2	31.3	10.3	4.5	1.46
16 to 19 years	674	645	18.0	1.7	78.8	24.3	8.2	5.1	1.36
20 to 24 years	626	583	28.1	5.1	67.8	35.7	10.5	3.8	1.51
25 to 34 years	709	632	22.9	4.7	71.0	29.3	9.0	5.1	1.42
35 to 44 years	372	315	26.3	7.0	69.2	33.0	11.1	3.8	1.50
45 to 54 years	272	226	26.5	10.2	66.4	38.5	12.8	1.3	1.56
55 to 64 years	154	118	30.5	4.2	53.4	34.7	16.1	8.5	1.47
65 years and over	32	28	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	4,490	3,692	23.8	4.4	73.3	32.0	13.4	5.8	1.53
Males	2,309	1,784	26.3	4.0	74.8	30.0	16.4	7.5	1.59
Females	2,180	1,908	21.4	4.8	71.9	33.9	10.5	4.2	1.47
Black and other, 16 years and over	1,287	1,150	33.2	5.7	69.4	22.5	11.8	5.5	1.48
Males	629	531	34.7	6.2	70.1	21.8	14.3	5.6	1.53
Females	658	619	32.1	5.2	68.8	23.3	9.7	5.3	1.44

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	November 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	5,776	4,842	26.0	4.7	72.4	29.7	13.0	5.7	1.52
Job losers	2,589	1,739	34.7	6.1	72.4	30.6	16.2	6.8	1.67
Job leavers	840	841	27.1	5.5	73.6	35.1	13.9	3.8	1.59
Reentrants	1,680	1,601	19.5	3.7	68.5	30.9	9.6	6.1	1.38
New entrants	667	661	17.5	2.7	80.0	17.9	11.8	4.4	1.34
Males, 16 years and over	2,939	2,314	28.2	4.5	73.7	28.1	15.9	7.1	1.58
Job losers	1,654	1,075	35.5	5.7	73.6	27.0	16.7	9.1	1.68
Job leavers	396	393	26.0	6.1	74.0	36.1	16.5	5.3	1.64
Reentrants	609	570	22.1	2.5	70.5	30.5	12.1	5.4	1.43
New entrants	280	276	16.3	2.2	80.1	16.3	20.3	5.1	1.40
Females, 16 years and over	2,838	2,527	24.0	4.9	71.2	31.3	10.3	4.5	1.46
Job losers	935	664	33.3	6.8	70.5	36.6	15.4	3.3	1.66
Job leavers	445	448	28.1	5.1	73.2	34.2	11.4	2.5	1.54
Reentrants	1,071	1,030	18.4	4.4	67.4	31.2	8.2	6.4	1.36
New entrants	387	385	18.2	2.9	80.0	18.7	5.7	4.2	1.30

NOTE: See note, table A-15.

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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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
Total, 16 years and over	5,629	5,776	100.0	100.0	4,114	4,372	100.0	100.0
Less than 5 weeks	2,757	2,890	49.0	50.0	1,871	1,996	45.5	45.7
5 to 14 weeks	1,800	1,820	32.0	31.5	1,319	1,423	32.1	32.5
5 to 10 weeks	1,347	1,387	23.9	24.0	973	1,080	23.7	24.7
11 to 14 weeks	453	433	8.0	7.5	347	342	8.4	7.8
15 weeks and over	1,072	1,067	19.0	18.5	924	953	22.5	21.8
15 to 26 weeks	601	583	10.7	10.1	506	526	12.3	12.0
27 weeks and over	472	484	8.4	8.4	417	427	10.1	9.8
27 to 51 weeks	201	246	3.6	4.3	178	223	4.3	5.1
52 weeks and over	270	239	4.8	4.1	239	204	5.8	4.7
Average (mean) duration, in weeks	10.9	10.4	--	--	12.2	11.5	--	--
Median duration, in weeks	5.2	5.0	--	--	6.0	6.0	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	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			Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
	November 1979								Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
Total, 16 years and over	5,776	2,890	1,820	583	484	10.4	5.0	49.0	50.0	19.0	18.5
16 to 21 years	2,022	1,158	620	161	83	7.6	4.4	54.9	57.3	12.8	12.1
16 to 19 years	1,435	832	457	105	41	6.9	4.3	56.1	58.0	11.4	10.2
20 to 24 years	1,260	646	392	148	73	9.2	4.9	50.5	51.3	17.1	17.6
25 to 34 years	1,401	665	467	152	116	10.3	5.5	46.2	47.5	21.7	19.2
35 to 44 years	740	314	247	85	94	13.1	7.4	46.2	42.4	21.1	24.3
45 to 54 years	523	224	156	53	90	15.6	6.7	40.7	42.8	29.2	27.4
55 to 64 years	339	169	84	34	52	14.4	5.0	43.4	49.8	31.4	25.4
65 years and over	78	39	18	5	17	16.3	5.4	38.2	49.9	17.0	27.7
Males, 16 years and over	2,939	1,425	891	318	304	11.5	5.3	46.9	48.5	21.4	21.2
16 to 21 years	1,043	594	324	93	32	7.2	4.4	56.4	56.9	12.0	12.0
16 to 19 years	762	444	244	56	18	6.6	4.3	57.7	58.3	10.8	9.6
20 to 24 years	635	313	194	88	39	9.7	5.1	48.9	49.4	18.2	20.1
25 to 34 years	692	316	216	78	82	12.0	5.8	40.6	45.6	26.6	23.1
35 to 44 years	368	153	112	49	54	14.3	7.6	44.9	41.6	26.5	28.0
45 to 54 years	252	86	73	29	64	19.7	9.2	37.2	34.3	35.9	36.7
55 to 64 years	185	93	41	15	36	16.7	5.0	35.1	50.2	35.1	27.5
65 years and over	46	20	11	3	12	20.2	7.9	(1)	(1)	(1)	(1)
Females, 16 years and over	2,838	1,464	929	264	180	9.3	4.8	50.9	51.6	16.8	15.7
16 to 21 years	979	564	297	68	51	8.1	4.3	53.4	57.6	13.7	12.1
16 to 19 years	674	388	213	49	23	7.3	4.3	54.3	57.6	12.1	10.8
20 to 24 years	626	333	198	60	34	8.7	4.7	52.1	53.2	15.9	15.1
25 to 34 years	709	350	251	73	35	8.7	5.1	50.9	49.3	17.6	15.3
35 to 44 years	372	161	135	36	41	11.9	7.1	47.1	43.1	17.5	20.7
45 to 54 years	272	138	83	24	27	11.8	4.9	44.1	50.8	22.6	19.8
55 to 64 years	154	76	43	19	16	11.6	5.1	51.9	49.4	27.7	22.9
65 years and over	32	19	7	2	4	10.8	4.2	(1)	(1)	(1)	(1)
White, 16 years and over	4,490	2,339	1,378	437	335	9.8	4.8	51.2	52.1	17.3	17.2
Males	2,309	1,168	678	249	215	11.0	4.9	49.3	50.6	19.1	20.1
Females	2,180	1,172	701	188	120	8.6	4.7	53.1	53.7	15.5	14.1
Black and other, 16 years and over	1,287	550	442	145	150	12.4	6.9	42.0	42.8	24.6	22.9
Males	629	257	213	69	89	13.3	6.9	39.5	40.9	28.8	25.1
Females	658	293	228	76	61	11.5	6.8	44.3	44.5	20.7	20.8
Males, 16 years and over:											
Married, spouse present	1,081	499	311	121	150	13.2	6.0	43.2	46.1	26.4	25.1
Widowed, divorced, or separated	321	138	87	49	46	14.6	6.4	47.2	43.0	24.1	29.8
Single (never married)	1,537	789	493	148	107	9.6	4.9	49.0	51.3	18.1	16.6
Females, 16 years and over:											
Married, spouse present	1,179	635	380	103	61	8.7	4.6	49.3	53.9	17.7	13.9
Widowed, divorced, or separated	548	241	202	49	55	11.0	6.4	48.4	44.1	17.3	19.1
Single (never married)	1,111	588	348	112	64	9.1	4.7	50.2	52.9	15.3	15.8

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

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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		16 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	6 to 14 weeks	15 to 26 weeks	27 weeks and over			Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
	November 1979										
OCCUPATION											
White-collar workers	1,604	745	562	152	145	10.9	5.9	43.7	46.4	23.9	18.5
Professional and managerial	571	241	192	64	74	13.6	7.4	38.1	42.2	32.1	24.2
Sales workers	229	106	88	23	11	9.5	5.8	46.3	46.3	16.4	15.1
Clerical workers	805	398	282	64	60	9.3	5.1	47.2	49.5	19.8	15.4
Blue-collar workers	2,454	1,235	720	275	225	10.9	5.0	50.8	50.3	17.8	20.4
Craft and kindred workers	621	331	163	73	53	10.4	4.7	50.7	53.3	17.8	20.3
Operatives, except transport	1,033	519	318	115	80	10.1	5.0	49.4	50.3	19.0	18.9
Transport equipment operatives	178	80	49	22	27	12.9	6.6	46.4	45.0	22.5	27.5
Nonfarm laborers	622	304	189	64	64	12.0	5.2	54.2	48.9	14.9	20.7
Service workers	908	476	299	72	61	8.9	4.8	50.0	52.4	15.5	14.7
INDUSTRY¹											
Agriculture	182	109	55	13	5	7.2	4.2	60.6	59.7	11.7	9.9
Construction	514	285	158	23	49	9.5	4.5	56.6	55.3	12.3	14.0
Manufacturing	1,317	605	424	160	128	11.3	5.9	47.1	45.9	21.5	21.9
Durable goods	763	357	232	96	78	11.3	6.0	42.2	46.8	24.9	22.9
Nondurable goods	554	248	192	64	49	11.2	5.9	52.7	44.8	17.7	20.5
Transportation and public utilities	247	124	53	37	34	13.3	5.0	42.8	50.0	29.2	28.6
Wholesale and retail trade	1,181	602	397	99	83	9.3	4.9	50.7	51.0	17.1	15.4
Finance and service industries	1,338	670	429	134	105	10.3	5.1	46.3	50.1	19.5	17.8
Public administration	200	70	87	26	17	12.2	7.6	33.5	34.8	32.1	21.6
No previous work experience	667	352	193	71	51	10.5	4.7	51.8	52.8	18.1	18.3

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	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
	All industries	96,029	97,943	55,976	56,433	40,054	41,510
16 to 19 years	7,712	7,660	4,021	3,949	3,692	3,711
16 to 17 years	3,098	3,128	1,591	1,600	1,507	1,528
18 to 19 years	4,614	4,531	2,429	2,348	2,185	2,183
20 to 24 years	13,696	13,933	7,413	7,485	6,283	6,447
25 to 54 years	60,187	61,838	35,626	36,132	24,561	25,705
25 to 34 years	25,223	26,206	14,898	15,300	10,324	10,906
35 to 44 years	18,404	19,177	10,887	11,118	7,517	8,059
45 to 54 years	16,561	16,455	9,842	9,715	6,719	6,740
55 to 64 years	11,458	11,477	7,016	6,963	4,443	4,514
55 to 59 years	7,154	7,140	4,345	4,316	2,809	2,825
60 to 64 years	4,304	4,337	2,671	2,648	1,633	1,690
65 years and over	2,976	3,035	1,900	1,904	1,076	1,131
Nonagricultural industries	92,929	94,686	53,470	53,806	39,459	40,881
16 to 19 years	7,424	7,397	3,792	3,724	3,632	3,673
16 to 17 years	2,957	2,991	1,481	1,483	1,476	1,508
18 to 19 years	4,467	4,406	2,311	2,241	2,156	2,165
20 to 24 years	13,304	13,517	7,095	7,149	6,209	6,367
25 to 54 years	58,505	60,092	34,364	34,785	24,221	25,307
25 to 34 years	24,616	25,554	14,419	14,772	10,197	10,782
35 to 44 years	17,928	18,641	10,524	10,731	7,404	7,910
45 to 54 years	16,041	15,897	9,421	9,282	6,619	6,614
55 to 64 years	10,952	10,983	6,598	6,551	4,353	4,433
55 to 59 years	6,869	6,890	4,126	4,112	2,743	2,778
60 to 64 years	4,082	4,094	2,472	2,439	1,610	1,655
65 years and over	2,665	2,697	1,621	1,597	1,044	1,100
Agriculture	3,100	3,257	2,506	2,628	595	629
16 to 19 years	289	262	229	225	60	38
16 to 17 years	142	137	111	117	31	20
18 to 19 years	147	125	118	107	29	18
20 to 24 years	392	416	318	336	73	80
25 to 54 years	1,602	1,746	1,263	1,347	340	398
25 to 34 years	606	652	479	528	127	124
35 to 44 years	476	537	363	388	113	149
45 to 54 years	520	558	421	432	100	126
55 to 64 years	506	494	417	413	89	82
55 to 59 years	285	251	218	204	66	47
60 to 64 years	222	244	199	209	23	35
65 years and over	311	338	278	307	32	31

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

(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
	TOTAL	96,029	97,943	51,955	52,485	36,362	37,799	4,021	3,949	3,692	3,711
White-collar workers	49,355	50,352	22,230	22,880	23,595	24,843	647	687	1,883	1,942
Professional and technical	14,642	15,300	8,223	8,430	6,225	6,670	106	107	88	93
Health workers	2,663	2,827	945	948	1,693	1,868	3	3	22	8
Teachers, except college	3,217	3,267	917	924	2,271	2,317	10	6	19	20
Other professional and technical	8,762	9,206	6,361	6,558	2,261	2,485	93	98	47	65
Managers and administrators, except farm	10,148	10,656	7,670	8,003	2,393	2,538	49	56	36	58
Salaried workers	8,451	8,898	6,336	6,635	2,033	2,156	47	51	36	56
Self-employed workers in retail trade	818	792	586	540	232	249	1	1	--	2
Self-employed workers, except retail trade	878	966	748	828	128	133	1	4	--	--
Sales workers	6,174	6,432	3,139	3,168	2,380	2,496	227	270	428	498
Retail trade	3,298	3,394	1,000	1,021	1,691	1,699	195	203	411	471
Other industries	2,876	3,038	2,138	2,147	689	797	32	68	17	27
Clerical workers	17,392	17,965	3,199	3,278	12,597	13,139	265	254	1,331	1,294
Stenographers, typists, and secretaries	4,833	4,774	77	55	4,392	4,364	4	5	360	351
Other clerical workers	12,559	13,191	3,122	3,223	8,205	8,775	261	249	971	943
Blue-collar workers	32,110	32,084	23,845	23,715	5,526	5,725	2,269	2,185	470	460
Craft and kindred workers	12,650	12,912	11,427	11,632	698	711	472	505	53	63
Carpenters	1,263	1,297	1,185	1,191	4	18	73	86	1	2
Construction craft, except carpenters	2,501	2,717	2,365	2,567	30	27	99	116	7	6
Mechanics and repairers	3,366	3,354	3,151	3,136	43	46	167	171	5	3
Metal craft	1,270	1,322	1,200	1,247	33	33	38	38	--	4
Blue-collar worker supervisors, not elsewhere classified	1,705	1,767	1,510	1,559	179	195	13	7	3	6
All other	2,546	2,453	2,016	1,933	409	393	82	86	39	42
Operatives, except transport	11,206	11,081	6,122	5,876	4,114	4,258	680	660	290	287
Durable goods manufacturing	5,128	5,041	3,176	2,973	1,594	1,752	256	213	102	103
Non-durable goods manufacturing	3,648	3,468	1,460	1,337	1,916	1,894	138	115	134	123
Other industries	2,429	2,572	1,486	1,566	603	612	286	333	54	60
Transport equipment operatives	3,669	3,677	3,167	3,178	304	306	174	181	24	13
Drivers, motor vehicles	3,167	3,088	2,708	2,638	285	289	152	149	22	13
All other	501	589	458	540	20	17	21	32	2	--
Nonfarm laborers	4,585	4,415	3,129	3,028	410	450	944	840	102	98
Construction	871	819	717	647	19	15	132	154	3	3
Manufacturing	1,067	1,039	780	776	139	155	133	95	15	12
Other industries	2,647	2,557	1,631	1,605	252	279	679	591	85	82
Service workers	12,978	12,900	3,918	3,901	6,848	6,801	913	915	1,299	1,282
Private household workers	1,178	1,123	16	24	917	884	10	6	235	209
Service workers, except private household	11,800	11,777	3,902	3,877	5,931	5,917	904	909	1,064	1,074
Food service workers	4,292	4,318	758	812	2,249	2,234	556	545	728	727
Protective service workers	1,413	1,409	1,256	1,270	132	115	21	21	4	4
All other	6,095	6,050	1,888	1,795	3,550	3,568	327	343	332	343
Farm workers	2,586	2,606	1,962	1,989	393	430	191	161	40	26
Farmers and farm managers	1,458	1,465	1,325	1,294	122	153	9	17	2	--
Farm laborers and supervisors	1,128	1,141	637	695	271	276	181	144	38	26
Paid workers	905	907	606	669	123	118	146	100	30	19
Unpaid family workers	223	234	31	26	148	158	35	43	8	7

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
TOTAL						
Total, 16 years and over (thousands)	96,029	97,943	55,976	56,433	40,054	41,510
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.4	51.4	40.9	41.8	63.6	64.5
Professional and technical	15.2	15.6	14.9	15.1	15.8	16.3
Managers and administrators, except farm	10.6	10.9	13.8	14.3	6.1	6.3
Sales workers	6.4	6.6	6.0	6.1	7.0	7.2
Clerical workers	18.1	18.3	6.2	6.3	34.8	34.8
Blue-collar workers	33.4	32.8	46.7	45.9	15.0	14.9
Craft and kindred workers	13.2	13.2	21.3	21.5	1.9	1.9
Operatives, except transport	11.7	11.3	12.2	11.6	11.0	10.9
Transport equipment operatives	3.8	3.8	6.0	6.0	.8	.8
Nonfarm laborers	4.8	4.5	7.3	6.9	1.3	1.3
Service workers	13.5	13.2	8.6	8.5	20.3	19.5
Private household workers	1.2	1.1	(1)	.1	2.9	2.6
Other service workers	12.3	12.0	8.6	8.5	17.5	16.8
Farm workers	2.7	2.7	3.8	3.8	1.1	1.1
Farmers and farm managers	1.5	1.5	2.4	2.3	.3	.4
Farm laborers and supervisors	1.2	1.2	1.5	1.5	.8	.7
White						
Total, 16 years and over (thousands)	85,261	86,862	50,282	50,670	34,979	36,192
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.1	53.1	42.5	43.4	65.9	66.7
Professional and technical	15.7	16.1	15.4	15.7	16.1	16.6
Managers and administrators, except farm	11.3	11.6	14.6	15.1	6.5	6.7
Sales workers	6.8	7.0	6.4	6.5	7.5	7.8
Clerical workers	18.3	18.4	6.0	6.0	35.9	35.6
Blue-collar workers	33.0	32.1	45.9	45.0	14.5	14.2
Craft and kindred workers	13.7	13.7	21.9	22.0	1.9	2.0
Operatives, except transport	11.2	10.7	11.7	11.1	10.4	10.2
Transport equipment operatives	3.7	3.6	5.6	5.6	.8	.8
Nonfarm laborers	4.5	4.2	6.7	6.3	1.3	1.3
Service workers	12.1	12.0	7.7	7.8	18.5	17.9
Private household workers	.9	.9	.1	(1)	2.1	2.1
Other service workers	11.2	11.1	7.7	7.8	16.3	15.9
Farm workers	2.8	2.8	3.9	3.9	1.2	1.2
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.4
Farm laborers and supervisors	1.1	1.1	1.3	1.4	.8	.8
Black and other						
Total, 16 years and over (thousands)	10,769	11,081	5,694	5,764	5,075	5,318
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	36.6	38.4	26.6	27.8	47.8	50.0
Professional and technical	11.7	12.1	10.0	9.9	13.5	14.4
Managers and administrators, except farm	4.9	5.3	6.3	7.1	3.3	3.4
Sales workers	3.1	2.9	2.7	2.5	3.7	3.3
Clerical workers	16.9	18.2	7.6	7.6	27.3	28.9
Blue-collar workers	36.7	37.5	53.0	54.1	18.3	19.6
Craft and kindred workers	8.8	9.3	15.4	16.9	1.4	1.0
Operatives, except transport	15.7	16.1	16.5	16.0	14.9	16.2
Transport equipment operatives	5.1	5.2	8.9	9.3	.8	.6
Nonfarm laborers	7.1	6.9	12.3	11.8	1.3	1.7
Service workers	24.5	22.2	16.6	15.0	33.3	29.9
Private household workers	3.7	3.2	--	.3	7.9	6.5
Other service workers	20.8	18.9	16.6	14.8	25.5	23.5
Farm workers	2.2	1.9	3.7	3.1	.5	.5
Farmers and farm managers	.4	.3	.7	.5	.1	.1
Farm laborers and supervisors	1.8	1.6	3.0	2.6	.4	.5

¹ Less than 0.05 percent.

HOUSEHOLD DATA

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

[In thousands]

Age and sex	November 1979								
	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	87,582	1,235	15,624	70,723	6,726	377	1,370	1,629	257
16 to 19 years	7,276	268	543	6,465	99	23	179	32	50
16 to 17 years	2,939	209	167	2,563	38	14	88	16	33
18 to 19 years	4,337	59	377	3,902	61	9	91	16	18
20 to 24 years	13,153	86	1,585	11,483	349	15	291	94	32
25 to 34 years	23,889	158	4,430	19,301	1,601	65	351	268	33
35 to 44 years	16,871	127	3,621	13,123	1,664	106	198	289	50
45 to 54 years	14,411	205	3,023	11,183	1,404	82	151	356	51
55 to 64 years	9,855	231	2,055	7,570	1,076	52	112	356	26
55 to 59 years	6,190	127	1,292	4,771	670	30	48	186	16
60 to 64 years	3,665	104	763	2,798	406	22	64	170	10
65 years and over	2,128	160	368	1,600	534	36	88	234	15
Males, 16 years and over	49,102	152	7,688	41,261	4,677	27	1,094	1,461	73
16 to 19 years	3,653	62	219	3,372	57	14	149	32	44
16 to 17 years	1,453	42	73	1,339	21	9	73	16	29
18 to 19 years	2,199	20	146	2,033	37	5	76	16	14
20 to 24 years	6,909	6	663	6,240	237	4	230	88	18
25 to 34 years	13,732	11	2,179	11,542	1,038	2	275	246	6
35 to 44 years	9,541	15	1,783	7,743	1,199	1	152	235	--
45 to 54 years	8,307	12	1,606	6,690	975	1	112	320	1
55 to 64 years	5,758	19	1,024	4,715	789	3	91	321	--
55 to 59 years	3,612	9	659	2,944	499	--	41	163	--
60 to 64 years	2,146	10	365	1,771	290	3	50	158	--
65 years and over	1,201	27	215	959	393	3	85	219	4
Females, 16 years and over	38,481	1,083	7,936	29,462	2,049	351	276	168	185
16 to 19 years	3,623	206	324	3,093	42	9	31	--	7
16 to 17 years	1,485	167	94	1,224	18	5	16	1	3
18 to 19 years	2,139	39	230	1,869	24	4	15	--	3
20 to 24 years	6,245	80	922	5,242	112	11	61	6	14
25 to 34 years	10,156	147	2,250	7,759	563	63	75	22	27
35 to 44 years	7,330	112	1,838	5,380	475	105	46	53	50
45 to 54 years	6,104	193	1,417	4,493	430	81	39	37	50
55 to 64 years	4,097	212	1,031	2,854	287	49	21	34	26
55 to 59 years	2,578	117	633	1,827	171	29	7	23	17
60 to 64 years	1,519	94	398	1,027	116	20	13	12	10
65 years and over	927	133	153	641	141	33	3	16	12

A-24. Employed persons by industry and occupation

[In thousands]

Industry	November 1979											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:												
Agriculture	3,257	76	42	7	86	41	27	44	319	--	9	2,606
Mining	914	150	71	7	118	238	259	38	22	--	11	--
Construction	6,557	170	823	35	430	3,682	336	220	819	--	40	--
Manufacturing	22,313	2,401	1,554	572	2,715	4,277	8,509	774	1,039	--	472	--
Durable goods	13,426	1,588	937	216	1,569	2,789	5,041	374	659	--	253	--
Nondurable goods	8,887	813	617	356	1,146	1,488	3,468	400	380	--	219	--
Transportation and public utilities	6,488	576	661	64	1,478	1,398	174	1,543	425	--	169	--
Wholesale and retail trade	19,859	425	3,683	4,281	3,576	1,546	1,007	746	1,123	--	3,472	--
Wholesale trade	3,717	162	808	887	736	299	177	373	236	--	39	--
Retail trade	16,141	263	2,874	3,394	2,840	1,247	830	373	886	--	3,433	--
Finance, insurance, and real estate	5,829	352	1,120	1,296	2,616	90	16	20	57	--	262	--
Services	27,790	10,207	2,062	163	5,180	1,382	714	233	469	1,123	6,259	--
Private households	1,322	21	2	--	16	8	--	8	111	1,123	35	--
Other service industries	26,468	10,186	2,060	163	5,164	1,374	714	225	358	--	6,224	--
Public administration	4,937	943	639	7	1,766	257	39	60	143	--	1,083	--

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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		Nonegricultural industries					
			Total		Wage and salary workers ¹			
	Nov. 1978				Nov. 1979		Paid absences ²		Unpaid absences^{2}
			Nov. 1978	Nov. 1979			Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
Total, 16 years and over	3,918	3,856	3,759	3,739	1,745	1,776	1,557	1,543
Vacation	1,502	1,512	1,470	1,471	1,062	1,038	253	299
Illness	1,411	1,374	1,370	1,336	559	566	703	667
Bad weather	101	47	75	41	--	--	--	--
Industrial dispute	61	137	59	137	--	--	--	--
All other reasons	843	786	785	753	124	172	601	577
Males, 16 years and over	2,300	2,309	2,172	2,213	1,113	1,149	781	817
Vacation	996	1,007	968	974	723	708	144	167
Illness	753	786	722	757	316	348	341	350
All other reasons ³	552	516	482	482	74	93	295	300
Females, 16 years and over	1,618	1,548	1,587	1,526	631	627	777	728
Vacation	506	504	503	497	338	330	110	134
Illness	658	588	648	579	243	218	361	316
All other reasons ³	453	455	437	450	50	79	307	278

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	November 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonegricultural industries	Agriculture	All industries	Nonegricultural industries	Agriculture
Total, 16 years and over	94,087	90,948	3,139	100.0	100.0	100.0
1-34 hours	26,727	25,849	876	28.4	28.4	27.9
1-4 hours	813	784	28	.9	.9	.9
5-14 hours	4,422	4,221	201	4.7	4.6	6.4
15-29 hours	11,780	11,384	396	12.5	12.5	12.6
30-34 hours	9,712	9,460	251	10.3	10.4	8.0
35 hours and over	67,361	65,096	2,264	71.6	71.6	72.1
35-39 hours	6,036	5,929	107	6.4	6.5	3.4
40 hours	36,225	35,729	496	38.5	39.3	15.8
41 hours and over	25,100	23,438	1,661	26.7	25.8	52.9
41 to 48 hours	9,689	9,470	219	10.3	10.4	7.0
49 to 59 hours	8,676	8,214	461	9.2	9.0	14.7
60 hours and over	6,735	5,754	981	7.2	6.3	31.2
Average hours, total at work	38.5	38.1	47.0	--	--	--
Average hours, workers on full-time schedules	42.8	42.4	55.1	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	November 1979					
	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	26,727	10,808	15,918	25,849	10,521	15,330
Economic reasons	3,422	1,517	1,905	3,195	1,378	1,817
Slack work	1,779	1,146	633	1,611	1,022	589
Material shortages or repairs to plant and equipment	106	106	--	100	100	--
New job started during week	188	188	--	182	182	--
Job terminated during week	77	77	--	74	74	--
Could find only part-time work	1,273	--	1,273	1,230	--	1,230
Other reasons	23,305	9,292	14,013	22,653	9,141	13,512
Does not want, or unavailable for, full-time work	11,699	--	11,699	11,328	--	11,328
Vacation	907	907	--	890	890	--
Illness	1,790	1,602	188	1,744	1,574	170
Bad weather	259	259	--	230	230	--
Industrial dispute	55	55	--	55	55	--
Legal or religious holiday	4,919	4,919	--	4,907	4,907	--
Full time for this job	1,524	--	1,524	1,455	--	1,455
All other reasons	2,150	1,549	601	2,045	1,487	558
Average hours:						
Economic reasons	21.8	23.8	20.2	21.9	23.9	20.3
Other reasons	22.4	28.3	18.5	22.5	28.3	18.5
Worked 30 to 34 hours:						
Economic reasons	1,042	623	419	951	553	398
Other reasons	8,670	6,419	2,251	8,509	6,358	2,155

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

[Numbers in thousands]

Industry	November 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	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	90,948	3,195	13,512	74,241	50,803	9,470	13,968	38.1	42.4	
Wage and salary workers	84,214	2,826	12,216	69,172	48,594	8,892	11,686	37.9	42.0	
Construction	5,127	332	260	4,535	3,329	450	756	38.8	41.1	
Manufacturing	20,957	544	731	19,682	13,631	3,107	2,944	40.8	42.0	
Durable goods	12,568	213	318	12,037	8,365	1,885	1,787	41.2	42.0	
Nondurable goods	8,389	331	413	7,645	5,268	1,221	1,156	40.2	42.0	
Transportation and public utilities	5,853	148	396	5,309	3,552	663	1,094	41.1	43.1	
Wholesale and retail trade	17,316	759	4,673	11,884	7,402	1,953	2,529	35.9	43.3	
Finance, insurance, and real estate	5,196	110	568	4,518	3,537	388	593	37.4	40.2	
Service industries	24,199	889	5,345	18,005	13,231	1,821	2,953	35.6	41.6	
Private households	1,186	162	623	401	273	28	100	24.0	45.2	
All other industries	23,013	687	4,722	17,604	12,958	1,793	2,853	36.2	41.5	
Public administration	4,722	61	224	4,437	3,449	396	592	38.6	39.9	
Self-employed workers	6,356	366	1,124	4,866	2,096	552	2,218	41.4	48.6	
Unpaid family workers	377	4	172	201	109	27	65	34.3	46.0	

¹ Includes mining, not shown separately.

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	November 1979							
	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	90,948	3,195	13,512	74,241	50,803	23,438	38.1	42.4
16 to 21 years	12,217	662	4,835	6,720	5,168	1,552	30.0	40.5
16 to 19 years	7,210	434	3,802	2,974	2,354	620	26.2	39.9
16 to 17 years	2,924	111	2,385	428	361	67	18.8	36.9
18 to 19 years	4,286	323	1,418	2,545	1,993	552	31.3	40.4
20 years and over	83,738	2,762	9,710	71,266	48,447	22,819	39.1	42.5
20 to 24 years	13,145	620	1,940	10,585	7,707	2,878	37.2	41.5
25 years and over	70,592	2,141	7,770	60,681	40,741	19,940	39.5	42.6
25 to 44 years	42,571	1,345	3,969	37,257	24,622	12,635	40.0	42.9
45 to 64 years	25,499	699	2,601	22,199	15,248	6,951	39.6	42.5
65 years and over	2,523	97	1,200	1,226	870	356	29.4	42.3
Males, 16 years and over	51,593	1,417	4,098	46,078	28,254	17,824	41.2	43.8
16 to 21 years	6,236	311	2,191	3,734	2,654	1,080	31.9	41.6
16 to 19 years	3,623	217	1,752	1,654	1,218	436	28.0	40.9
16 to 17 years	1,448	54	1,135	259	220	39	20.0	37.4
18 to 19 years	2,175	163	618	1,394	996	398	33.2	41.6
20 years and over	47,970	1,198	2,345	44,427	27,039	17,388	42.2	43.9
20 to 24 years	6,975	282	811	5,882	3,864	2,018	39.2	42.8
25 years and over	40,995	916	1,534	38,545	23,175	15,370	42.7	44.1
25 to 44 years	24,584	570	499	23,515	13,770	9,745	43.5	44.4
45 to 64 years	14,936	287	428	14,221	8,846	5,375	42.6	43.6
65 years and over	1,476	61	607	808	558	250	31.0	42.3
Females, 16 years and over	39,355	1,780	9,414	28,161	22,546	5,615	34.1	40.1
16 to 21 years	5,981	352	2,644	2,985	2,514	471	28.0	39.1
16 to 19 years	3,587	216	2,050	1,321	1,138	183	24.5	38.6
16 to 17 years	1,477	57	1,250	170	140	30	17.7	36.0
18 to 19 years	2,111	160	800	1,151	996	155	29.3	39.0
20 years and over	35,767	1,563	7,364	26,840	21,409	5,431	35.1	40.1
20 to 24 years	6,170	338	1,129	4,703	3,843	860	35.0	39.8
25 years and over	29,596	1,226	6,235	22,135	17,563	4,572	35.1	40.2
25 to 44 years	17,986	776	3,469	13,741	10,850	2,891	35.3	40.0
45 to 64 years	10,564	413	2,173	7,978	6,402	1,576	35.4	40.3
65 years and over	1,046	36	592	418	311	107	27.1	42.5
RACE								
White	80,603	2,638	12,354	65,611	43,824	21,787	38.3	42.6
Males	46,304	1,199	3,697	41,408	24,709	16,699	41.4	44.1
Females	34,299	1,439	8,657	24,203	19,115	5,088	33.9	40.2
Black and other	10,345	559	1,158	8,628	6,976	1,652	37.1	40.6
Males	5,289	217	401	4,671	3,546	1,125	39.1	41.6
Females	5,056	340	757	3,959	3,432	527	35.1	39.4
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	35,605	680	1,195	33,730	19,922	13,808	43.0	44.2
Widowed, divorced, or separated	4,132	195	192	3,745	2,306	1,439	41.9	44.1
Single (never married)	11,856	542	2,711	8,603	6,026	2,577	35.6	42.1
Females, 16 years and over:								
Married, spouse present	22,135	946	5,458	15,731	12,788	2,943	34.0	39.8
Widowed, divorced, or separated	7,300	350	1,044	5,906	4,554	1,352	36.8	40.7
Single (never married)	9,919	483	2,913	6,523	5,204	1,319	32.3	40.1

HOUSEHOLD DATA

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

(Numbers in thousands)

Occupational group and sex	November 1979								
	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	91,564	3,266	13,627	74,671	51,047	9,510	14,114	38.1	37.2
White-collar workers	48,604	1,008	7,170	40,426	27,341	4,629	8,456	38.6	42.5
Professional and technical	14,812	229	1,710	12,873	8,581	1,487	2,805	39.5	42.7
Managers and administrators, except farm	10,271	121	432	9,718	4,874	1,275	3,569	45.0	46.4
Sales workers	6,189	221	1,672	4,296	2,601	541	1,154	36.1	43.8
Clerical workers	17,333	438	3,356	13,539	11,287	1,325	927	35.0	39.2
Blue-collar workers	30,542	1,462	2,265	26,815	18,123	4,154	4,538	39.7	42.4
Craft and kindred workers	12,292	434	536	11,322	7,395	1,810	2,117	40.8	42.5
Operatives, except transport	10,581	560	641	9,380	6,770	1,409	1,201	39.4	41.6
Transport equipment operatives	3,447	165	297	2,985	1,613	527	845	42.1	45.4
Nonfarm laborers	4,221	304	791	3,126	2,343	408	375	35.3	41.1
Service workers	12,418	796	4,192	7,430	5,583	727	1,120	32.4	42.0
Private household	1,079	145	555	379	258	28	93	24.6	44.6
Other service workers	11,340	652	3,637	7,051	5,325	699	1,027	33.1	41.9
Males, 16 years and over	52,050	1,475	4,159	46,416	28,433	6,583	11,400	41.2	39.2
White-collar workers	22,777	258	1,515	21,004	11,748	2,707	6,549	43.0	45.0
Professional and technical	8,303	76	476	7,751	4,712	899	2,140	42.5	44.1
Managers and administrators, except farm	7,771	87	190	7,494	3,436	997	3,061	46.4	47.4
Sales workers	3,328	51	414	2,863	1,498	418	947	41.5	45.3
Clerical workers	3,375	43	433	2,899	2,104	393	402	38.0	41.2
Blue-collar workers	24,606	1,037	1,587	22,012	14,376	3,453	4,183	40.4	42.8
Craft and kindred workers	11,557	406	413	10,738	6,989	1,694	2,055	41.1	42.6
Operatives, except transport	6,245	233	327	5,685	3,827	906	952	40.6	42.6
Transport equipment operatives	3,143	139	184	2,820	1,510	485	825	43.0	45.6
Nonfarm laborers	3,690	259	662	2,769	2,049	368	352	35.6	41.3
Service workers	4,637	180	1,057	3,400	2,309	423	668	36.5	43.4
Private household	30	4	10	16	8	--	8	34.5	55.4
Other service workers	4,607	175	1,047	3,385	2,302	423	660	36.5	43.3
Females, 16 years and over	39,515	1,792	9,469	28,254	22,615	2,926	2,713	34.1	34.0
White-collar workers	25,828	750	5,656	19,422	15,594	1,921	1,907	34.7	39.8
Professional and technical	6,509	151	1,234	5,124	3,871	588	665	35.8	40.5
Managers and administrators, except farm	2,500	34	242	2,224	1,436	279	509	40.7	43.3
Sales workers	2,860	170	1,258	1,432	1,102	123	207	29.7	40.8
Clerical workers	13,958	395	2,922	10,641	9,184	932	525	34.2	38.7
Blue-collar workers	5,906	425	678	4,803	3,747	701	355	36.7	40.2
Craft and kindred workers	735	28	123	584	406	116	62	36.3	40.7
Operatives, except transport	4,336	327	314	3,695	2,943	503	249	37.6	40.1
Transport equipment operatives	304	25	113	166	103	42	21	32.3	41.5
Nonfarm laborers	531	45	128	358	295	40	23	33.0	40.0
Service workers	7,781	617	3,135	4,029	3,274	304	451	29.9	40.9
Private household	1,049	141	545	363	251	28	34	24.3	44.1
Other service workers	6,733	476	2,590	3,667	3,024	276	367	30.8	40.6

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

[Numbers in thousands]

Employment status	November 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,809	3,972	3,836	6,508	3,319	3,189	1,301	654	647
Civilian labor force	1,426	740	686	1,352	693	660	74	48	27
Employed	1,197	600	597	1,150	567	582	47	33	14
Agriculture	92	84	8	89	83	6	2	--	2
Nonagricultural industries	1,105	516	589	1,060	484	577	45	33	12
Unemployed	230	140	90	202	125	77	27	15	13
Unemployment rate	16.1	18.9	13.1	14.9	18.0	11.7	(1)	(1)	(1)
Not in labor force	6,382	3,232	3,150	5,156	2,626	2,529	1,227	606	621
Keeping house	40	14	25	38	13	25	2	1	1
Going to school	6,232	3,157	3,076	5,043	2,566	2,477	1,189	591	598
Unable to work	10	6	3	8	5	3	2	2	--
All other reasons	100	54	46	67	42	25	33	12	21

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	November 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,197	600	597	100.0	100.0	100.0
Nonagricultural industries	1,105	516	589	92.4	85.9	98.8
Wage and salary workers	1,030	474	556	86.1	78.9	93.3
Private household workers	399	72	327	33.4	12.0	54.9
Government workers	38	18	20	3.2	3.0	3.4
Other wage and salary workers	593	384	209	49.6	63.9	35.1
Self-employed workers	73	43	31	6.1	7.2	5.2
Unpaid family workers	2	--	1	.2	--	.2
Agriculture	92	84	8	7.7	14.0	1.3
Wage and salary workers	46	45	1	3.8	7.5	.2
Self-employed workers	9	9	1	.8	1.5	.2
Unpaid family workers	36	30	6	3.0	5.0	1.0
OCCUPATION						
Total	1,197	600	597	100.0	100.0	100.0
White-collar workers	341	212	129	28.5	35.4	21.5
Professional and technical	13	7	6	1.1	1.2	1.0
Managers and administrators, except farm	4	3	2	.3	.5	.3
Sales workers	243	180	63	20.3	30.1	10.5
Clerical workers	81	22	59	6.8	3.7	9.8
Blue-collar workers	187	166	21	15.6	27.7	3.5
Craft and kindred workers	13	11	3	1.1	1.8	.5
Operatives, except transport	37	27	10	3.1	4.5	1.7
Transport equipment operatives	3	3	--	.3	.5	--
Nonfarm laborers	133	124	9	11.1	20.7	1.5
Service workers	594	155	439	49.7	25.9	73.3
Private household workers	362	25	337	30.3	4.2	56.3
Other service workers	232	130	102	19.4	21.7	17.0
Farm workers	75	67	8	6.3	11.2	1.3
Farmers and farm managers	1	--	1	.1	--	.2
Farm laborers and supervisors	74	67	7	6.2	11.2	1.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
TOTAL													
Total noninstitutional population ¹	162,033	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685	163,891	164,106	164,468	164,682
Armed Forces ¹	2,117	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082	2,090	2,092	2,093	2,092
Civilian noninstitutional population ¹	159,916	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604	161,801	162,013	162,375	162,589
Civilian labor force	101,628	101,867	102,183	102,527	102,714	102,111	102,247	102,528	103,059	103,049	103,498	103,474	103,685
Percent of civilian population	63.6	63.6	63.7	63.9	63.9	63.5	63.4	63.5	63.8	63.7	63.9	63.7	63.8
Employed	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293	97,646
Percent of total population	59.1	59.1	59.3	59.4	59.4	59.0	59.0	59.2	59.4	59.1	59.4	59.2	59.3
Agriculture	3,275	3,387	3,232	3,311	3,343	3,186	3,184	3,260	3,262	3,322	3,400	3,288	3,426
Nonagricultural industries	92,476	92,468	93,068	93,335	93,499	92,987	93,134	93,494	93,949	93,578	94,113	94,005	94,221
Unemployed	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985	6,182	6,039
Unemployment rate	5.9	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0	5.8
Not in labor force	58,288	58,275	58,170	58,012	58,105	58,815	58,935	58,865	58,545	58,752	58,515	58,901	58,904
Males, 20 years and over													
Total noninstitutional population ¹	69,182	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995	70,099	70,205	70,380	70,487
Civilian noninstitutional population ¹	67,486	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319	68,417	68,522	68,697	68,804
Civilian labor force	53,938	54,033	54,333	54,485	54,444	54,243	54,261	54,395	54,567	54,527	54,653	54,696	54,683
Percent of civilian population	79.9	79.9	80.2	80.3	80.1	79.8	79.7	79.9	79.9	79.7	79.8	79.6	79.5
Employed	51,825	51,838	52,133	52,331	52,264	52,056	52,157	52,299	52,319	52,227	52,382	52,366	52,347
Percent of total population	74.9	74.8	75.1	75.3	75.1	74.7	74.7	74.8	74.8	74.5	74.6	74.4	74.3
Agriculture	2,337	2,403	2,293	2,324	2,355	2,271	2,274	2,306	2,323	2,385	2,395	2,372	2,465
Nonagricultural industries	49,488	49,435	49,841	50,007	49,909	49,785	49,883	49,993	49,996	49,843	49,987	49,994	49,882
Unemployed	2,113	2,195	2,200	2,154	2,180	2,187	2,105	2,096	2,249	2,300	2,271	2,330	2,336
Unemployment rate	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2	4.3	4.3
Not in labor force	13,548	13,567	13,392	13,331	13,495	13,754	13,862	13,832	13,752	13,890	13,869	14,001	14,121
Females, 20 years and over													
Total noninstitutional population ¹	76,110	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014	77,127	77,245	77,429	77,547
Civilian noninstitutional population ¹	76,001	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897	77,006	77,124	77,308	77,426
Civilian labor force	38,095	38,217	38,185	38,429	38,642	38,345	38,560	38,596	39,010	39,292	39,331	39,317	39,516
Percent of civilian population	50.1	50.2	50.1	50.3	50.5	50.1	50.3	50.3	50.7	51.0	51.0	50.9	51.0
Employed	35,087	35,990	36,019	36,252	36,440	36,165	36,323	36,373	36,861	36,968	37,178	37,039	37,325
Percent of total population	47.2	47.2	47.2	47.4	47.6	47.2	47.3	47.3	47.9	47.9	48.1	47.8	48.1
Agriculture	571	591	586	608	613	580	543	592	584	596	640	556	632
Nonagricultural industries	35,316	35,399	35,433	35,644	35,827	35,584	35,780	35,781	36,276	36,371	36,538	36,483	36,693
Unemployed	2,208	2,227	2,166	2,177	2,201	2,180	2,237	2,223	2,150	2,324	2,153	2,279	2,190
Unemployment rate	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5	5.8	5.5
Not in labor force	37,906	37,902	38,043	37,903	37,834	38,187	38,110	38,188	37,887	37,714	37,793	37,991	37,910
Both sexes, 18-19 years													
Total noninstitutional population ¹	16,741	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,677	16,665	16,655	16,659	16,648
Civilian noninstitutional population ¹	16,429	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387	16,377	16,367	16,370	16,360
Civilian labor force	9,595	9,617	9,665	9,613	9,628	9,523	9,426	9,537	9,481	9,230	9,514	9,461	9,487
Percent of civilian population	58.4	58.6	58.9	58.6	58.7	58.1	57.5	58.2	57.9	56.4	58.1	57.8	58.0
Employed	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953	7,888	7,974
Percent of total population	48.0	48.0	48.7	48.2	48.7	47.6	47.0	48.4	48.2	46.2	47.7	47.3	47.9
Agriculture	367	393	354	380	375	335	368	362	355	341	365	360	329
Nonagricultural industries	7,672	7,634	7,794	7,684	7,763	7,618	7,471	7,720	7,676	7,364	7,588	7,528	7,645
Unemployed	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561	1,573	1,513
Unemployment rate	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	16.5	16.4	16.4	16.6	15.9
Not in labor force	6,834	6,805	6,735	6,778	6,776	6,874	6,963	6,844	6,906	7,147	6,853	6,909	6,873

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-42 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	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	86,391	86,631	87,025	87,373	87,567	87,430	87,300	87,637	87,700	87,596	88,153	88,403	88,416
Employed	81,900	82,034	82,525	82,789	83,067	82,774	82,792	83,180	83,077	82,822	83,422	83,564	83,647
Unemployed	4,491	4,597	4,500	4,584	4,499	4,655	4,508	4,458	4,624	4,774	4,731	4,839	4,769
Unemployment rate	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4	5.5	5.4
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,150	15,205	15,196	15,213	15,097	14,701	14,954	14,865	15,384	15,585	15,252	15,180	15,183
Employed	13,000	13,802	13,810	13,907	13,706	13,410	13,517	13,586	14,128	14,221	13,993	13,809	13,940
Unemployed	1,350	1,403	1,385	1,306	1,391	1,291	1,437	1,278	1,256	1,364	1,259	1,371	1,243
Unemployment rate	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3	9.0	8.2

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	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
WHITE													
Total, 16 years and over:													
Civilian labor force	89,468	89,747	90,093	90,395	90,415	89,923	90,018	90,279	90,554	90,662	91,081	90,997	91,280
Employed	85,013	85,125	85,543	85,941	85,938	85,479	85,515	85,871	86,093	85,829	86,395	86,243	86,579
Unemployed	4,455	4,622	4,550	4,453	4,478	4,444	4,503	4,409	4,460	4,832	4,687	4,755	4,702
Unemployment rate	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1	5.2	5.2
Males, 20 years and over:													
Civilian labor force	48,103	48,202	48,466	48,639	48,527	48,411	48,401	48,535	48,617	48,573	48,675	48,677	48,749
Employed	46,477	46,492	46,737	47,006	46,877	46,755	46,792	46,883	46,855	46,736	46,859	46,857	46,906
Unemployed	1,626	1,710	1,729	1,633	1,650	1,657	1,609	1,652	1,762	1,837	1,816	1,819	1,842
Unemployment rate	3.4	3.5	3.6	3.4	3.4	3.4	3.3	3.4	3.6	3.8	3.7	3.7	3.8
Females, 20 years and over:													
Civilian labor force	32,809	32,981	32,978	33,225	33,302	33,080	33,275	33,239	33,564	33,878	33,894	33,871	34,006
Employed	31,161	31,287	31,340	31,567	31,638	31,460	31,572	31,589	31,982	32,108	32,268	32,149	32,342
Unemployed	1,648	1,694	1,638	1,658	1,664	1,619	1,703	1,650	1,582	1,769	1,626	1,721	1,664
Unemployment rate	5.0	5.1	5.0	5.0	5.0	4.9	5.1	5.0	4.7	5.2	4.8	5.1	4.9
Both sexes, 16 to 19 years:													
Civilian labor force	8,556	8,564	8,649	8,531	8,586	8,432	8,342	8,505	8,373	8,211	8,512	8,450	8,526
Employed	7,375	7,346	7,466	7,368	7,422	7,264	7,151	7,398	7,257	6,985	7,267	7,236	7,330
Unemployed	1,181	1,218	1,183	1,163	1,164	1,168	1,191	1,107	1,116	1,226	1,245	1,214	1,196
Unemployment rate	13.8	14.2	13.7	13.6	13.6	13.9	14.3	13.0	13.3	14.9	14.6	14.4	14.0
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,163	12,153	12,077	12,228	12,251	12,175	12,176	12,272	12,364	12,340	12,408	12,546	12,392
Employed	10,746	10,758	10,725	10,775	10,878	10,734	10,767	10,883	11,025	10,987	11,095	11,083	11,057
Unemployed	1,417	1,395	1,352	1,452	1,374	1,442	1,409	1,389	1,338	1,353	1,313	1,463	1,335
Unemployment rate	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6	11.7	10.8
Males, 20 years and over:													
Civilian labor force	5,829	5,967	5,810	5,841	5,874	5,813	5,826	5,902	5,946	5,942	5,987	6,017	5,915
Employed	5,345	5,376	5,356	5,339	5,357	5,315	5,335	5,435	5,453	5,450	5,513	5,477	5,422
Unemployed	484	491	455	502	517	498	491	467	493	492	475	540	493
Unemployment rate	8.3	8.4	7.8	8.6	8.8	8.6	8.4	7.9	8.3	8.3	7.9	9.0	8.3
Females, 20 years and over:													
Civilian labor force	5,266	5,224	5,223	5,279	5,316	5,276	5,290	5,359	5,392	5,417	5,400	5,507	5,475
Employed	4,723	4,691	4,667	4,722	4,793	4,708	4,764	4,782	4,863	4,857	4,883	4,948	4,964
Unemployed	543	533	556	557	523	568	526	577	528	560	517	558	510
Unemployment rate	10.3	10.2	10.6	10.6	9.8	10.8	9.9	10.8	9.8	10.3	9.6	10.1	9.3
Both sexes, 16 to 19 years:													
Civilian labor force	1,068	1,062	1,044	1,107	1,061	1,086	1,059	1,011	1,026	980	1,021	1,023	1,003
Employed	678	691	703	714	727	711	668	667	709	679	699	658	671
Unemployed	390	371	341	393	334	375	391	344	317	301	322	365	332
Unemployment rate	36.5	34.9	32.7	35.5	31.5	34.5	36.9	34.0	30.9	30.7	31.5	35.7	33.1

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTICS													
Total (all civilian workers)	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0	5.8
Males, 20 years and over	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2	4.3	4.3
Females, 20 years and over	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5	5.8	5.5
Both sexes, 16-19 years	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4	16.6	15.9
White	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1	5.2	5.2
Black and other	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6	11.7	10.8
Married men, spouse present	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.9	3.0	2.8	2.9	2.9
Married women, spouse present	5.5	5.6	5.3	5.1	5.1	5.2	5.2	5.2	4.8	5.4	4.7	5.3	4.8
Women who head families	7.7	7.7	7.8	8.3	8.3	8.4	8.9	9.1	8.1	7.9	7.6	8.4	8.3
Full-time workers	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4	5.5	5.4
Part-time workers	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3	9.0	8.2
Unemployed 15 weeks and over ¹	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.2	1.1	1.2	1.1
Labor force time lost ²	6.2	6.2	6.2	6.2	6.1	6.5	6.3	6.3	6.4	6.5	6.2	6.4	6.4
OCCUPATION													
White-collar workers	3.2	3.5	3.1	3.4	3.4	3.3	3.2	3.4	3.2	3.6	3.3	3.5	3.1
Professional and technical	2.4	3.0	2.5	2.3	2.1	2.2	2.0	2.5	2.5	2.6	2.5	2.8	2.4
Managers and administrators, except farm	2.2	1.9	2.0	1.9	2.2	2.3	2.2	2.0	1.9	2.3	2.2	2.3	1.9
Sales workers	3.1	3.6	3.8	4.3	4.1	4.0	4.0	4.5	3.5	4.2	3.9	3.8	3.5
Clerical workers	4.5	4.6	4.6	4.7	4.9	4.5	4.6	4.6	4.4	5.0	4.5	4.7	4.3
Blue-collar workers	6.4	6.8	6.4	6.4	6.6	6.9	6.7	6.5	6.8	7.6	7.1	7.3	7.5
Craft and kindred workers	4.0	4.7	4.5	4.7	4.6	4.2	4.0	4.2	4.2	4.9	4.1	4.8	4.9
Operatives, except transport	7.5	7.7	7.6	7.6	7.7	8.6	8.3	7.7	8.3	9.3	9.2	9.2	8.9
Transport equipment operatives	4.2	5.3	4.9	5.0	5.2	6.0	5.4	5.5	5.2	6.8	6.2	5.6	4.9
Nonfarm laborers	11.6	11.0	9.4	9.3	10.3	10.5	11.1	10.3	10.9	11.5	10.8	10.6	12.7
Service workers	7.4	7.7	7.9	7.1	7.2	7.4	7.2	7.2	7.2	7.0	6.7	7.0	6.6
Farm workers	3.2	3.4	2.8	3.6	3.2	3.4	3.5	3.1	4.5	3.8	4.2	4.3	4.4
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.6	5.8	5.7	5.6	5.5	5.7	5.7	5.6	5.7	6.1	5.8	6.0	5.9
Construction	10.8	12.1	10.6	11.5	10.2	10.3	9.6	9.6	9.5	9.5	8.8	10.1	10.5
Manufacturing	5.1	5.0	5.0	4.8	5.2	5.4	5.4	5.3	5.8	6.2	6.1	6.2	5.9
Durable goods	4.6	4.4	4.4	4.1	4.3	4.6	4.4	4.8	5.5	5.7	5.3	5.6	5.7
Nondurable goods	5.8	6.0	5.9	5.8	6.4	6.5	7.0	6.2	6.2	6.9	7.3	7.0	6.1
Transportation	3.3	3.3	3.5	3.0	4.0	2.9	3.5	3.0	3.9	3.8	4.1	3.8	4.3
Wholesale and retail trade	6.5	6.8	6.5	6.6	6.2	6.6	6.4	6.8	6.2	6.6	6.4	6.5	6.5
Finance and service industries	5.0	5.1	5.1	4.8	4.7	4.8	5.0	4.7	4.9	5.4	4.7	4.9	4.6
Government workers	3.9	4.0	4.0	3.7	4.1	3.6	3.5	3.6	3.5	3.8	3.3	4.1	3.6
Agricultural wage and salary workers	7.9	7.7	7.2	8.9	7.7	8.6	9.3	7.7	10.4	9.9	10.3	9.8	10.2

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	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,833	2,876	2,713	2,743	2,751	2,939	2,787	2,927	2,784	3,226	2,743	2,963	2,970
5 to 14 weeks	1,774	1,979	1,877	1,870	1,857	1,874	1,935	1,782	1,970	1,743	2,050	1,965	1,795
15 weeks and over	1,196	1,208	1,251	1,260	1,305	1,235	1,213	1,086	1,052	1,191	1,133	1,223	1,190
15 to 26 weeks	685	726	728	712	729	692	705	616	600	662	627	703	665
27 weeks and over	511	482	523	548	576	543	508	470	451	529	507	520	524
Average (mean) duration, in weeks	11.0	10.7	11.2	11.3	11.7	11.0	11.1	10.4	10.0	10.5	10.6	10.5	10.5
Median duration, in weeks	5.4	5.6	5.9	6.3	5.8	5.2	5.2	5.6	6.1	4.9	5.9	5.6	5.2
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	48.8	47.4	46.4	46.7	46.5	48.6	47.0	50.5	48.0	52.4	46.3	48.2	49.9
5 to 14 weeks	30.6	32.6	32.1	31.8	31.4	31.0	32.6	30.8	33.9	28.3	34.6	31.9	30.1
15 weeks and over	20.6	19.9	21.4	21.4	22.1	20.4	20.4	18.7	18.1	19.3	19.1	19.9	20.0
15 to 26 weeks	11.8	12.0	12.5	12.1	12.3	11.4	11.9	10.6	10.3	10.7	10.6	11.4	11.2
27 weeks and over	8.8	7.9	9.0	9.3	9.7	9.0	8.6	8.1	7.8	8.6	8.5	8.4	8.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0	5.9
16 to 19 years	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4	16.6	15.9
16 to 17 years	19.3	20.2	18.4	18.4	18.9	19.1	19.2	16.7	17.1	18.1	16.8	18.5	17.4
18 to 19 years	14.0	13.8	13.6	14.6	13.1	14.3	15.2	14.1	14.4	15.5	16.0	15.3	14.8
20 to 24 years	9.0	9.3	8.6	8.6	8.8	8.5	8.9	8.9	9.0	9.3	9.2	9.5	8.8
25 years and over	3.8	3.9	3.9	3.9	3.9	4.0	3.8	3.8	3.9	4.1	3.8	4.0	4.0
25 to 54 years	4.0	4.2	4.2	4.1	4.1	4.2	4.0	4.0	4.0	4.3	4.1	4.3	4.3
55 years and over	2.9	2.9	2.9	3.0	3.1	3.1	3.2	2.9	3.2	3.2	2.9	2.9	2.8
Males, 16 years and over	5.0	5.1	5.1	5.0	5.0	5.1	4.9	4.7	5.0	5.2	5.2	5.2	5.2
16 to 19 years	15.9	16.7	16.1	16.5	16.0	16.2	16.1	14.1	14.9	16.0	16.2	15.7	15.9
16 to 17 years	20.1	20.7	19.1	19.2	19.9	18.0	19.0	15.8	15.2	17.3	16.6	17.1	18.3
18 to 19 years	12.7	13.6	13.5	14.7	13.2	14.2	14.1	13.5	14.9	15.3	15.6	14.6	13.9
20 to 24 years	8.5	8.9	8.4	8.2	8.4	7.8	8.0	8.0	8.8	8.9	8.8	9.5	8.4
25 years and over	3.1	3.2	3.2	3.2	3.2	3.3	3.1	3.1	3.3	3.5	3.4	3.4	3.5
25 to 54 years	3.2	3.4	3.3	3.2	3.3	3.4	3.1	3.1	3.3	3.6	3.5	3.6	3.8
55 years and over	2.5	2.6	2.8	2.8	2.8	3.0	2.9	3.1	3.4	3.2	2.9	2.7	2.6
Females, 16 years and over	6.9	6.9	6.7	6.7	6.7	6.9	7.0	6.9	6.6	7.0	6.6	7.0	6.6
16 to 19 years	16.5	16.3	15.3	15.7	14.8	16.8	17.7	16.6	15.8	17.1	16.7	17.6	16.0
16 to 17 years	18.3	19.6	17.5	17.4	17.8	20.2	19.3	17.7	19.2	18.9	17.0	20.0	16.3
18 to 19 years	15.5	14.1	13.6	14.4	13.0	14.4	16.4	14.8	13.8	15.8	16.5	16.0	15.9
20 to 24 years	9.6	9.7	8.9	9.1	9.4	9.4	9.9	9.9	9.3	9.9	9.7	9.6	9.3
25 years and over	4.9	5.0	5.0	4.9	4.8	4.9	5.0	4.8	4.7	5.0	4.6	4.9	4.7
25 to 54 years	5.2	5.3	5.4	5.3	5.2	5.2	5.2	5.3	5.0	5.4	4.9	5.3	5.0
55 years and over	3.5	3.3	3.1	3.3	3.6	3.1	3.7	2.7	2.9	3.3	3.0	3.4	3.1

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

[Numbers in thousands]

Reason for unemployment	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,372	2,442	2,454	2,481	2,440	2,521	2,361	2,358	2,532	2,724	2,608	2,771	2,745
On layoff	746	715	753	792	789	846	710	796	793	960	836	916	1,008
Other job losers	1,626	1,727	1,701	1,689	1,652	1,675	1,652	1,562	1,739	1,765	1,771	1,855	1,737
Job leavers	825	871	927	829	863	847	951	867	838	894	818	825	843
Reentrants	1,754	1,937	1,692	1,756	1,788	1,790	1,762	1,738	1,737	1,798	1,785	1,788	1,665
New entrants	872	826	823	874	822	811	841	787	694	720	803	793	737
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	40.7	40.2	41.6	41.8	41.3	42.2	39.9	41.0	43.7	44.4	43.4	44.9	45.8
On layoff	12.8	11.8	12.8	13.3	13.3	14.2	12.0	13.8	13.7	15.6	13.9	14.8	16.8
Other job losers	27.9	28.4	28.9	28.4	27.9	28.1	27.9	27.2	30.0	28.8	29.5	30.0	29.0
Job leavers	14.2	14.3	15.7	14.0	14.6	14.2	16.1	15.1	14.4	14.6	13.6	13.4	14.1
Reentrants	30.1	31.9	28.7	29.6	30.2	30.0	29.8	30.2	29.9	29.3	29.7	29.0	27.8
New entrants	15.0	13.6	14.0	14.7	13.9	13.6	14.2	13.7	12.0	11.7	13.4	12.8	12.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.3	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.5	2.6	2.5	2.7	2.6
Job leavers .....	.8	.9	.9	.8	.8	.8	.9	.8	.8	.9	.8	.8	.8
Reentrants	1.7	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.6
New entrants .....	.9	.8	.8	.9	.8	.8	.8	.8	.7	.7	.8	.8	.7

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[In thousands]

Sex and age	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293	97,646
16 to 19 years	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953	7,888	7,974
16 to 17 years	3,276	3,300	3,354	3,372	3,323	3,280	3,177	3,269	3,233	3,037	3,325	3,240	3,306
18 to 19 years	4,783	4,730	4,835	4,711	4,803	4,711	4,661	4,738	4,732	4,620	4,638	4,665	4,700
20 to 24 years	13,701	13,760	13,859	13,992	13,959	13,975	13,803	13,829	13,922	13,814	13,993	13,847	13,938
25 years and over	73,976	74,070	74,299	74,641	74,703	74,284	74,666	74,832	75,298	75,242	75,622	75,658	75,683
25 to 54 years	59,630	59,781	59,903	60,193	60,329	60,069	60,298	60,502	61,039	61,012	61,212	61,168	61,248
55 years and over	14,340	14,327	14,394	14,452	14,382	14,220	14,295	14,297	14,229	14,349	14,374	14,441	14,418
Males, 16 years and over	56,096	56,072	56,449	56,549	56,559	56,267	56,352	56,638	56,595	56,316	56,653	56,539	56,545
16 to 19 years	4,271	4,234	4,316	4,218	4,295	4,211	4,195	4,339	4,276	4,088	4,271	4,172	4,198
16 to 17 years	1,734	1,744	1,795	1,779	1,788	1,783	1,739	1,765	1,735	1,622	1,841	1,751	1,743
18 to 19 years	2,559	2,494	2,541	2,455	2,519	2,458	2,436	2,518	2,491	2,441	2,448	2,426	2,478
20 to 24 years	7,478	7,443	7,541	7,585	7,516	7,641	7,474	7,543	7,498	7,468	7,606	7,531	7,553
25 years and over	44,340	44,411	44,589	44,772	44,711	44,442	44,684	44,725	44,791	44,712	44,857	44,833	44,783
25 to 54 years	35,481	35,560	35,709	35,845	35,880	35,716	35,863	35,927	36,030	35,909	36,001	36,043	35,981
55 years and over	8,867	8,872	8,896	8,901	8,841	8,713	8,789	8,755	8,751	8,804	8,844	8,805	8,820
Females, 16 years and over	39,655	39,783	39,851	40,098	40,283	39,907	39,966	40,116	40,615	40,585	40,860	40,754	41,101
16 to 19 years	3,768	3,793	3,832	3,846	3,843	3,742	3,643	3,743	3,755	3,617	3,682	3,716	3,776
16 to 17 years	1,542	1,556	1,559	1,593	1,535	1,497	1,438	1,504	1,498	1,415	1,484	1,489	1,563
18 to 19 years	2,224	2,236	2,294	2,276	2,284	2,253	2,225	2,220	2,241	2,179	2,190	2,239	2,222
20 to 24 years	6,223	6,317	6,318	6,407	6,444	6,334	6,329	6,286	6,423	6,346	6,387	6,316	6,385
25 years and over	29,636	29,659	29,710	29,869	29,993	29,841	29,962	30,107	30,507	30,530	30,765	30,826	30,900
25 to 54 years	24,149	24,221	24,194	24,348	24,449	24,353	24,435	24,576	25,009	25,103	25,212	25,125	25,267
55 years and over	5,473	5,455	5,498	5,551	5,541	5,507	5,506	5,542	5,478	5,544	5,531	5,636	5,598

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

[In thousands]

Sex and age	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985	6,182	6,039
16 to 19 years	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561	1,573	1,513
16 to 17 years	781	834	755	758	775	772	753	655	666	670	671	734	695
18 to 19 years	778	759	758	807	724	788	835	779	794	849	885	841	819
20 to 24 years	1,361	1,406	1,310	1,316	1,355	1,305	1,348	1,344	1,379	1,422	1,420	1,460	1,341
25 years and over	2,951	3,015	3,049	2,998	3,008	3,063	2,978	2,963	3,050	3,220	3,025	3,184	3,177
25 to 54 years	2,514	2,615	2,607	2,566	2,574	2,602	2,509	2,546	2,540	2,754	2,600	2,741	2,762
55 years and over	428	424	435	449	462	448	471	472	472	480	432	438	412
Males, 16 years and over	2,923	3,044	3,026	2,989	3,001	3,001	2,910	2,808	2,997	3,081	3,096	3,109	3,130
16 to 19 years	810	849	826	835	821	814	805	712	748	781	825	779	794
16 to 17 years	436	455	424	423	443	392	408	331	311	340	366	362	391
18 to 19 years	371	391	397	424	383	408	399	394	435	441	452	416	399
20 to 24 years	699	730	693	674	687	647	653	655	723	727	732	791	689
25 years and over	1,413	1,469	1,493	1,459	1,481	1,538	1,406	1,436	1,538	1,607	1,557	1,597	1,647
25 to 54 years	1,188	1,249	1,231	1,202	1,235	1,254	1,156	1,164	1,231	1,326	1,298	1,343	1,420
55 years and over	230	235	258	257	253	270	259	277	310	291	263	241	235
Females, 16 years and over	2,954	2,968	2,857	2,891	2,870	2,936	3,019	2,966	2,852	3,068	2,889	3,073	2,909
16 to 19 years	746	741	691	714	669	756	782	743	702	744	736	794	719
16 to 17 years	345	379	331	335	332	380	345	324	355	330	305	372	304
18 to 19 years	407	368	361	383	341	380	436	385	359	408	433	425	420
20 to 24 years	662	676	618	642	668	658	695	688	656	695	688	669	652
25 years and over	1,538	1,546	1,555	1,539	1,527	1,526	1,572	1,527	1,512	1,613	1,467	1,588	1,530
25 to 54 years	1,326	1,366	1,376	1,364	1,340	1,349	1,352	1,382	1,309	1,427	1,302	1,398	1,341
55 years and over	198	189	177	192	208	179	211	155	163	189	169	197	177

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTICS													
Total, 16 years and over	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293	97,646
Married men, spouse present	38,944	39,039	39,202	39,374	39,291	38,917	38,988	39,055	39,163	39,146	39,175	39,135	38,809
Married women, spouse present	22,274	22,297	22,410	22,632	22,700	22,355	22,490	22,580	22,890	22,777	22,965	22,922	22,937
OCCUPATION													
White-collar workers	47,888	48,040	48,275	49,001	49,133	49,160	49,104	49,165	49,573	49,615	49,779	49,648	49,869
Professional and technical	14,297	14,629	14,743	15,034	15,083	15,226	15,220	15,053	15,063	14,983	15,078	14,929	14,941
Managers and administrators, except farm	10,030	10,217	10,322	10,414	10,407	10,409	10,374	10,565	10,675	10,772	10,640	10,648	10,530
Sales workers	6,192	6,092	6,055	6,141	6,067	6,079	6,091	6,065	6,161	6,085	6,114	6,247	6,451
Clerical workers	17,369	17,102	17,154	17,412	17,577	17,446	17,418	17,481	17,673	17,774	17,947	17,825	17,947
Blue-collar workers	32,202	31,962	32,491	32,331	32,085	31,582	31,826	31,958	31,949	31,767	32,287	32,191	32,169
Craft and kindred workers	12,646	12,610	12,842	12,932	12,808	12,697	12,790	13,003	12,832	12,755	13,057	12,974	12,912
Operatives, except transport equipment	11,177	10,887	11,047	10,953	11,060	10,651	10,664	10,759	10,853	10,800	10,987	10,989	11,048
Transport equipment operatives	3,640	3,640	3,678	3,618	3,565	3,550	3,667	3,596	3,610	3,571	3,622	3,561	3,648
Nonfarm laborers	4,739	4,825	4,924	4,829	4,652	4,684	4,706	4,600	4,652	4,561	4,621	4,667	4,561
Service workers	13,009	13,007	12,777	12,770	12,856	12,909	12,754	12,946	12,697	12,591	12,796	12,977	12,935
Farm workers	2,739	2,826	2,759	2,742	2,803	2,624	2,600	2,683	2,657	2,703	2,736	2,702	2,760
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,424	1,478	1,365	1,429	1,419	1,362	1,439	1,445	1,403	1,363	1,391	1,373	1,504
Self-employed workers	1,563	1,625	1,547	1,550	1,595	1,531	1,490	1,525	1,552	1,632	1,678	1,617	1,631
Unpaid family workers	293	318	293	348	324	282	270	293	294	310	327	312	313
Nonagricultural industries:													
Wage and salary workers	85,578	85,579	86,169	86,346	86,592	86,195	86,129	86,309	86,277	86,227	86,891	87,032	86,983
Government	15,373	15,360	15,217	15,293	15,224	15,356	15,635	15,257	15,382	15,260	15,450	15,549	15,393
Private industries	70,205	70,219	70,952	71,053	71,368	70,839	70,494	71,051	70,895	70,967	71,441	71,483	71,590
Private households	1,335	1,316	1,245	1,334	1,255	1,160	1,177	1,236	1,217	1,205	1,332	1,270	1,212
Other industries	68,870	68,903	69,707	69,719	70,112	69,679	69,317	69,816	69,678	69,761	70,109	70,213	70,378
Self-employed workers	6,370	6,515	6,529	6,632	6,585	6,468	6,625	6,600	6,753	6,649	6,682	6,814	6,760
Unpaid family workers	455	460	478	456	443	471	466	462	529	443	453	421	409
PERSONS AT WORK¹													
Nonagricultural industries	86,653	87,046	87,490	87,592	87,955	86,345	87,727	87,843	89,074	89,154	88,824	88,487	88,372
Full-time schedules	71,394	71,787	72,209	72,250	72,623	71,554	72,476	72,230	73,138	73,222	73,252	73,164	72,785
Part-time for economic reasons	3,131	3,058	3,159	3,147	3,179	3,312	3,307	3,416	3,340	3,355	3,111	3,230	3,358
Usually work full-time	1,279	1,209	1,208	1,205	1,235	1,265	1,246	1,416	1,394	1,478	1,255	1,293	1,419
Usually work part-time	1,852	1,849	1,951	1,942	1,944	2,048	2,061	2,000	1,946	1,877	1,856	1,937	1,939
Part time for noneconomic reasons	12,128	12,201	12,122	12,195	12,154	11,479	11,943	12,198	12,597	12,577	12,461	12,093	12,228

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

HOUSEHOLD DATA

A-43. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
	Number						Percent of labor force			
	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979	Nov. 1978	Nov. 1979
VETERANS¹										
Total, 20 years and over	8,424	8,553	7,984	8,106	7,655	7,792	329	314	4.1	3.9
20 to 24 years	664	477	593	438	529	384	64	54	10.8	12.3
25 to 39 years	6,998	7,184	6,738	6,903	6,495	6,664	243	239	3.6	3.5
25 to 29 years	2,175	1,867	2,079	1,739	1,956	1,649	123	90	5.9	5.2
30 to 34 years	3,524	3,630	3,401	3,536	3,310	3,435	91	101	2.7	2.9
35 to 39 years	1,299	1,687	1,258	1,628	1,229	1,580	29	48	2.3	2.9
40 years and over	762	892	653	765	631	744	22	21	3.4	2.7
NONVETERANS²										
Total, 25 to 39 years	14,011	14,916	13,353	14,217	12,892	13,604	461	613	3.5	4.3
25 to 29 years	6,338	6,819	6,001	6,478	5,749	6,152	252	326	4.2	5.0
30 to 34 years	4,019	4,303	3,857	4,106	3,737	3,937	120	169	3.1	4.1
35 to 39 years	3,654	3,794	3,495	3,633	3,406	3,515	89	118	2.5	3.2

¹ Vietnam-era veterans are those who served between August 5, 1964 and May 1975.
² Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Goods-producing						Service-producing							Government		
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Total	Federal	State and local		
							Total	Wholesale trade	Retail trade							
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.....	67,897	23,737	606	3,350	19,781	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.....	82,423	24,346	813	3,851	19,682	58,077	4,713	18,516	4,708	13,808	4,467	15,303	15,079	2,727	12,352	
1978.....	86,446	25,597	851	4,271	20,476	60,849	4,927	19,499	4,957	14,542	4,727	16,220	15,476	2,753	12,723	
1978: NOV.....	88,622	26,407	920	4,584	20,903	62,215	5,063	20,095	5,069	15,026	4,817	16,537	15,703	2,746	12,957	
1978: DEC.....	88,893	26,220	916	4,402	20,902	62,673	5,084	20,523	5,092	15,431	4,832	16,547	15,687	2,733	12,954	
1979: JAN.....	87,128	25,671	910	3,998	20,763	61,457	5,010	19,765	5,066	14,699	4,829	16,353	15,500	2,730	12,770	
1979: FEB.....	87,331	25,647	915	3,957	20,765	61,684	5,028	19,548	5,067	14,481	4,845	16,545	15,718	2,738	12,980	
1979: MAR.....	88,207	26,039	926	4,226	20,887	62,168	5,060	19,690	5,098	14,592	4,870	16,749	15,799	2,740	13,059	
1979: APR.....	88,820	26,252	932	4,413	20,907	62,568	4,989	19,957	5,112	14,845	4,900	16,897	15,825	2,750	13,075	
1979: MAY.....	89,671	26,594	944	4,662	20,988	63,077	5,125	20,119	5,146	14,973	4,936	17,039	15,858	2,773	13,085	
1979: JUN.....	90,541	27,083	968	4,881	21,234	63,458	5,231	20,222	5,211	15,011	5,003	17,239	15,763	2,824	12,939	
1979: JUL.....	89,618	26,934	976	4,993	20,965	62,684	5,200	20,118	5,208	14,910	5,032	17,314	15,020	2,838	12,182	
1979: AUG.....	89,673	27,030	986	5,048	20,996	62,643	5,210	20,137	5,211	14,926	5,053	17,312	14,931	2,844	12,087	
1979: SEPT.....	90,211	27,156	980	4,984	21,192	63,055	5,242	20,260	5,206	15,054	5,002	17,225	15,326	2,751	12,575	
1979: OCT.P.....	90,667	27,043	983	4,975	21,085	63,624	5,243	20,315	5,234	15,081	5,013	17,295	15,758	2,756	13,002	
1979: NOV.P.....	90,987	26,901	987	4,897	21,017	64,086	5,259	20,557	5,254	15,303	5,046	17,317	15,907	2,760	13,147	

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. p 1979	Nov. p 1979	Oct. 1978	Nov. 1978	Sept. 1979	Oct. p 1979	Nov. p 1979
-	TOTAL	88,100	88,622	90,211	90,667	90,987	-	-	-	-	-
-	PRIVATE SECTOR	72,544	72,919	74,885	74,909	75,080	59,436	59,773	61,212	61,249	61,361
-	MINING	913	920	980	983	987	690	697	735	736	737
10	METAL MINING	92.9	93.3	99.4	99.4	-	71.9	72.0	76.2	76.4	-
101	Iron ores	25.3	25.1	25.3	24.9	-	20.6	20.4	20.2	19.9	-
102	Copper ores	28.8	28.9	32.9	33.3	-	22.1	22.2	25.4	25.8	-
11, 12	COAL MINING	253.2	258.5	261.1	260.3	-	211.9	216.9	218.8	216.7	-
12	BITUMINOUS COAL AND LIGNITE MINING	250.2	255.5	258.0	257.3	-	209.3	214.3	216.1	214.0	-
13	OIL AND GAS EXTRACTION	442.0	445.2	489.5	493.7	-	306.5	308.9	335.8	339.1	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	187.1	188.4	204.2	204.8	-	90.2	91.0	94.5	94.7	-
138	Oil and gas field services	254.9	256.8	285.3	288.9	-	216.3	217.9	241.3	244.4	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	124.5	123.4	130.4	129.3	-	99.5	98.7	104.1	103.5	-
142	Crushed and broken stone	41.6	41.2	43.0	42.8	-	35.1	34.7	36.2	36.3	-
144	Sand and gravel	39.1	38.4	41.9	41.0	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.9	24.0	24.6	24.7	-	-	-	-	-	-
-	CONSTRUCTION	4,662	4,584	4,984	4,975	4,897	3,772	3,691	4,031	4,021	3,938
15	GENERAL BUILDING CONTRACTORS	1,343.2	1,329.7	1,402.1	1,387.9	-	1,066.8	1,050.9	1,098.1	1,087.3	-
152	Residential building construction	717.5	709.4	726.7	714.9	-	562.0	553.8	553.7	544.9	-
153	Operative builders	83.4	83.8	88.0	86.7	-	55.9	55.5	56.5	54.8	-
154	Nonresidential building construction	542.3	536.5	587.4	586.3	-	448.9	441.6	487.9	487.6	-
16	HEAVY CONSTRUCTION CONTRACTORS	951.6	910.7	1,001.5	990.2	-	791.3	751.7	845.4	832.1	-
161	Highway and street construction	317.2	288.9	352.1	341.1	-	277.1	250.0	309.3	298.5	-
162	Heavy construction, except highway	634.4	621.8	649.4	649.1	-	514.2	501.7	536.1	533.6	-
17	SPECIAL TRADE CONTRACTORS	2,367.1	2,343.3	2,580.2	2,596.6	-	1,913.8	1,888.7	2,087.4	2,101.9	-
171	Plumbing, heating, air conditioning	546.6	543.5	564.8	564.3	-	422.3	418.7	432.7	433.4	-
172	Painting, paper hanging, decorating	155.3	152.1	175.5	173.1	-	132.3	129.4	149.3	147.2	-
173	Electrical work	394.4	396.6	425.3	429.2	-	310.5	312.8	336.1	338.8	-
174	Masonry, stonework, and plastering	384.8	382.1	432.0	444.5	-	336.6	333.5	377.6	369.0	-
175	Carpentering and flooring	150.1	148.5	156.3	156.0	-	119.0	117.0	122.9	121.3	-
176	Roofing and sheet metal work	177.8	173.3	194.8	196.9	-	147.8	143.4	159.9	162.0	-
-	MANUFACTURING	20,832	20,903	21,192	21,085	21,017	15,003	15,058	15,172	15,076	15,004
24, 25, 32-39	DURABLE GOODS	12,508	12,583	12,805	12,729	12,687	8,994	9,057	9,116	9,052	9,004
20-23, 26-31	NONDURABLE GOODS	8,324	8,320	8,387	8,356	8,330	6,009	6,001	6,056	6,024	6,000
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	763.0	757.2	776.3	771.8	749.6	653.2	646.1	663.1	658.5	635.9
241	Logging camps and logging contractors	89.8	87.8	95.6	95.2	-	74.2	72.0	80.7	80.5	-
242	Sawmills and planing mills	232.4	230.3	237.0	235.3	-	207.9	205.5	211.9	210.0	-
2421	Sawmills and planing mills, general	191.8	189.9	196.0	194.4	-	172.2	169.9	175.8	174.0	-
2426	Hardwood dimension and flooring	33.6	33.3	32.6	32.3	-	29.5	29.3	28.6	28.2	-
243	Millwork, plywood, and structural members	225.3	225.5	226.7	226.1	-	190.4	189.9	190.4	189.6	-
2431	Millwork	79.7	79.3	78.1	78.1	-	65.8	65.2	63.4	63.5	-
2434	Wood kitchen cabinets	49.8	50.2	51.6	51.3	-	41.3	41.4	44.0	43.5	-
2435	Hardwood veneer and plywood	27.5	27.7	27.2	27.4	-	24.5	24.8	24.2	24.4	-
2436	Softwood veneer and plywood	49.8	49.9	50.8	50.4	-	43.8	43.7	44.2	43.7	-
244	Wooden containers	43.6	43.5	42.9	42.7	-	38.6	38.4	37.5	37.5	-
245	Wood buildings and mobile homes	87.4	85.1	87.2	85.8	-	70.9	68.6	69.6	68.2	-
2451	Mobile homes	59.8	58.1	60.7	59.7	-	50.8	49.0	50.4	49.3	-
249	Miscellaneous wood products	84.5	85.0	86.9	86.7	-	71.2	71.7	73.0	72.7	-
25	FURNITURE AND FIXTURES	496.2	498.0	485.3	487.9	490.6	408.1	409.6	396.2	398.9	400.9
251	Household furniture	332.2	333.4	320.1	322.3	-	282.5	283.8	270.5	273.0	-
2511	Wood household furniture	146.3	146.8	142.2	143.9	-	129.4	130.1	125.8	127.4	-
2512	Upholstered household furniture	103.3	103.8	98.6	99.6	-	85.8	86.0	80.8	81.8	-
2514	Metal household furniture	31.8	32.8	30.4	30.1	-	25.5	26.6	24.4	24.3	-
2515	Mattresses and bedspreads	33.5	32.4	32.5	32.5	-	26.2	25.3	25.2	25.4	-
252	Office furniture	47.6	48.1	46.8	47.0	-	38.7	39.0	37.5	37.7	-
253	Public building and related furniture	26.1	26.0	25.6	25.5	-	19.8	19.8	19.4	19.3	-
254	Partitions and fixtures	63.5	63.5	65.7	66.3	-	48.4	48.3	49.7	50.2	-
259	Miscellaneous furniture and fixtures	26.8	27.0	27.1	26.8	-	18.7	18.7	19.1	18.7	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
32	STONE, CLAY, AND GLASS PRODUCTS	713.3	712.9	723.6	720.2	716.8	567.1	566.6	571.1	567.9	564.9
321	Flat glass	19.5	19.4	20.6	20.2	-	14.9	15.0	16.0	15.7	-
322	Glass and glassware, pressed or blown	136.1	135.6	131.4	131.0	-	116.9	116.6	112.2	111.8	-
3221	Glass containers	76.3	75.6	71.9	71.8	-	67.4	66.7	63.1	63.0	-
3229	Pressed and blown glass, nec	59.8	60.0	59.5	59.2	-	49.5	49.9	49.1	48.8	-
323	Products of purchased glass	49.0	49.2	50.0	50.2	-	35.9	35.8	36.5	36.8	-
324	Cement, hydraulic	32.5	32.7	33.6	33.5	-	25.9	26.2	26.9	26.8	-
325	Structural clay products	51.1	51.1	49.8	49.4	-	40.3	40.5	38.4	38.0	-
326	Pottery and related products	47.0	47.2	47.0	47.6	-	39.4	39.7	39.7	40.1	-
327	Concrete, gypsum, and plaster products	220.6	218.6	227.5	225.8	-	174.1	172.4	178.5	177.0	-
3271	Concrete block and brick	25.4	25.5	25.8	25.6	-	18.1	18.2	18.4	18.4	-
3272	Concrete products, nec	74.6	74.0	75.4	73.9	-	58.4	58.3	58.2	57.0	-
3273	Ready-mixed concrete	99.1	97.6	104.0	104.2	-	80.0	78.3	83.6	83.5	-
329	Misc. nonmetallic mineral products	144.6	146.2	150.3	149.4	-	109.2	110.0	112.1	110.9	-
3291	Abrasive products	28.7	28.9	29.6	29.4	-	19.7	19.8	20.4	20.2	-
3292	Asbestos products	22.8	23.1	22.4	21.7	-	17.7	17.8	17.3	16.8	-
3296	Mineral wool	30.6	31.1	32.3	32.7	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,227.6	1,236.1	1,244.3	1,224.1	1,221.0	967.1	975.9	977.5	957.6	955.2
331	Blast furnace and basic steel products	562.9	564.4	566.8	555.0	-	445.6	447.6	447.5	435.4	-
3312	Blast furnaces and steel mills	474.7	475.5	476.6	465.6	-	377.5	378.7	377.3	365.9	-
3317	Steel pipe and tubes	30.7	31.2	31.5	31.1	-	24.0	24.5	24.8	24.5	-
332	Iron and steel foundries	239.3	244.2	237.8	227.6	-	195.9	200.5	193.6	184.4	-
3321	Gray iron foundries	150.4	154.2	146.6	137.4	-	125.4	128.9	121.4	113.0	-
3322	Malleable iron foundries	22.9	23.1	20.5	19.0	-	18.7	18.9	16.2	15.0	-
3325	Steel foundries, nec	53.5	54.1	56.0	56.2	-	42.9	43.5	44.6	44.8	-
333	Primary nonferrous metals	71.0	70.8	72.9	72.9	-	55.5	55.4	56.8	56.4	-
3334	Primary aluminum	36.0	36.1	37.4	37.3	-	29.2	29.3	30.0	29.7	-
335	Nonferrous rolling and drawing	214.5	215.3	219.9	220.0	-	157.1	158.2	161.9	162.2	-
3351	Copper rolling and drawing	33.3	33.8	33.4	33.3	-	25.9	26.4	26.0	25.9	-
3353	Aluminum sheet, plate, and foil	35.0	35.1	36.2	35.7	-	26.3	26.5	27.7	27.2	-
3357	Nonferrous wire drawing and insulating	85.6	86.1	89.2	90.6	-	63.6	64.2	65.3	67.1	-
336	Nonferrous foundries	94.2	95.9	96.4	97.7	-	78.1	79.5	78.9	79.9	-
3361	Aluminum foundries	53.3	54.3	55.1	55.7	-	44.9	45.6	45.8	46.4	-
34	FABRICATED METAL PRODUCTS	1,707.2	1,717.9	1,735.3	1,738.7	1,741.2	1,298.7	1,307.4	1,311.6	1,312.3	1,313.3
341	Metal cans and shipping containers	78.0	78.5	79.3	77.1	-	65.5	66.1	67.1	64.8	-
3411	Metal cans	64.2	64.8	64.6	62.6	-	54.2	54.9	55.1	53.0	-
342	Cutlery, hand tools, and hardware	185.5	187.1	181.9	183.3	-	144.4	145.9	141.0	142.0	-
3423,5	Hand and edge tools, and hand saws and blades	64.3	64.9	64.1	64.7	-	50.5	50.9	50.4	50.6	-
3429	Hardware, nec	104.7	105.7	101.8	102.4	-	81.8	82.9	79.0	79.7	-
343	Plumbing and heating, except electric	75.3	76.2	77.3	77.4	-	56.5	57.1	57.7	57.6	-
3432	Plumbing fittings and brass goods	28.2	28.6	29.4	29.2	-	23.0	23.4	24.1	23.9	-
3433	Heating equipment, except electric	36.3	36.0	36.5	37.1	-	25.9	25.1	25.6	26.1	-
344	Fabricated structural metal products	517.0	519.0	531.0	531.8	-	368.0	369.1	376.7	375.7	-
3441	Fabricated structural metal	101.4	102.3	108.2	108.8	-	73.3	74.1	78.4	78.3	-
3442	Metal doors, sash, and trim	88.6	89.2	90.3	90.7	-	66.9	67.4	67.8	68.4	-
3443	Fabricated plate work (boiler shops)	147.3	148.6	149.9	148.3	-	96.3	97.1	98.3	95.4	-
3444	Sheet metal work	107.1	107.2	109.7	111.1	-	80.0	79.9	81.3	82.4	-
3446	Architectural metal work	31.3	31.5	31.7	31.8	-	22.7	22.7	23.0	23.1	-
345	Screw machine products, bolts, etc.	112.7	114.2	120.3	121.1	-	88.5	89.9	94.8	95.0	-
3451	Screw machine products	53.7	54.2	57.5	57.9	-	44.3	44.8	47.8	47.9	-
3452	Bolts, nuts, rivets, and washers	59.0	60.0	62.8	63.2	-	44.2	45.1	47.0	47.1	-
346	Metal forgings and stampings	311.6	313.8	303.0	302.8	-	253.2	255.2	242.4	242.7	-
3462	Iron and steel forgings	53.5	54.3	56.5	56.2	-	42.7	43.5	44.1	44.2	-
3465	Automotive stampings	120.3	121.0	105.4	105.0	-	101.8	102.6	87.8	87.7	-
3469	Metal stampings, nec	127.1	127.2	129.6	130.3	-	100.4	100.3	101.5	102.0	-
347	Metal services, nec	106.2	106.7	109.1	109.4	-	87.4	87.8	88.8	89.2	-
3471	Plating and polishing	72.7	73.4	73.5	73.9	-	60.7	61.2	60.6	60.9	-
3479	Metal coating and allied services	33.5	33.3	35.6	35.5	-	26.7	26.6	28.2	28.3	-
348	Ordnance and accessories, nec	60.7	60.9	60.0	59.9	-	42.3	42.4	40.6	40.6	-
3483	Ammunition, exc. for small arms, nec	26.2	26.4	26.6	26.5	-	18.3	18.5	18.3	18.3	-
349	Misc. fabricated metal products	260.2	261.5	273.4	275.9	-	192.9	193.9	202.5	204.7	-
3494	Valves and pipe fittings	101.4	102.4	108.3	108.3	-	68.9	69.6	74.1	74.2	-
3496	Misc. fabricated wire products	58.6	55.5	57.1	58.7	-	42.3	42.8	44.3	45.8	-
35	MACHINERY, EXCEPT ELECTRICAL	2,362.1	2,384.5	2,496.4	2,443.3	2,451.6	1,553.8	1,571.7	1,635.1	1,593.9	1,609.1
351	Engines and turbines	138.0	138.9	142.8	139.8	-	90.6	91.3	93.7	91.7	-
3511	Turbines and turbine generator sets	43.6	43.4	41.0	41.0	-	23.1	22.8	20.9	21.0	-
3519	Internal combustion engines, nec	94.4	95.5	101.8	98.8	-	67.5	68.5	72.8	70.7	-
352	Farm and garden machinery	164.8	165.9	177.7	156.2	-	115.1	117.3	125.6	106.7	-
3523	Farm machinery and equipment	146.8	146.8	157.9	137.4	-	102.9	104.0	111.9	93.4	-
353	Construction and related machinery	387.2	391.7	416.1	376.7	-	258.7	261.9	276.4	247.2	-
3531	Construction machinery	169.7	171.6	179.5	138.1	-	116.1	117.7	122.3	91.8	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery	36.8	36.8	39.8	40.1	-	23.6	23.5	25.3	25.4	-
3533	Oil field machinery	80.0	81.1	86.2	87.0	-	55.6	56.1	58.7	59.4	-
3535	Conveyers and conveying equipment	33.9	34.3	37.0	37.3	-	19.9	20.2	21.2	21.3	-
3537	Industrial trucks and tractors	36.8	37.5	39.8	40.0	-	25.5	26.2	27.7	27.7	-
354	Metalworking machinery	349.9	353.7	371.6	373.9	-	255.1	257.8	270.0	271.9	-
3541	Machine tools, metal cutting types	72.4	73.7	80.2	80.7	-	46.4	47.3	51.6	51.8	-
3542	Machine tools, metal forming types	25.1	25.5	26.9	27.2	-	16.6	16.8	17.7	17.9	-
3544	Special dies, tools, jigs, and fixtures	130.4	131.5	135.1	135.8	-	104.7	105.6	107.6	108.5	-
3545	Machine tool accessories	63.3	64.2	68.1	68.4	-	45.0	45.6	48.1	48.3	-
3546	Power driven hand tools	34.6	34.6	36.6	36.8	-	26.0	26.0	28.2	28.4	-
355	Special industry machinery	199.6	202.9	209.3	209.7	-	124.8	127.7	131.5	131.6	-
3551	Food products machinery	46.0	46.4	48.5	48.5	-	28.4	28.8	30.5	30.4	-
3552	Textile machinery	26.3	26.6	27.2	27.2	-	18.5	18.8	19.2	19.2	-
3555	Printing trades machinery	38.7	40.1	42.6	43.1	-	22.9	24.0	26.0	26.3	-
356	General industrial machinery	316.6	319.7	325.3	327.3	-	211.4	213.3	214.6	216.4	-
3561	Pumps and pumping equipment	59.8	59.7	61.1	60.8	-	37.0	36.7	37.2	37.0	-
3562	Ball and roller bearings	57.3	58.4	56.5	57.8	-	44.2	45.3	43.8	45.0	-
3563	Air and gas compressors	31.3	31.3	30.7	30.7	-	18.3	18.1	18.0	18.0	-
3564	Blowers and fans	39.7	40.3	42.1	42.2	-	25.3	25.5	25.8	25.7	-
3566	Speed changers, drives, and gears	25.6	26.0	27.8	28.0	-	17.6	17.9	19.1	19.2	-
3568	Power transmission equipment, nec	24.3	24.5	24.6	24.7	-	17.7	17.9	17.8	17.9	-
357	Office and computing machines	355.3	358.8	391.6	394.3	-	162.5	165.3	180.3	181.0	-
3573	Electronic computing equipment	281.5	283.7	315.7	318.3	-	117.5	119.7	135.1	136.1	-
358	Refrigeration and service machinery	186.5	184.6	180.8	183.4	-	131.8	129.6	125.3	128.6	-
3585	Refrigeration and heating equipment	129.2	127.4	123.0	126.2	-	91.5	89.8	85.4	89.1	-
359	Misc. machinery, except electrical	264.2	268.3	281.2	282.0	-	203.8	207.5	217.7	218.8	-
3592	Carburetors, pistons, rings, valves	41.7	42.4	44.7	45.1	-	32.9	33.5	35.2	35.8	-
3599	Machinery, except electrical, nec	222.5	225.9	236.5	236.9	-	170.9	174.0	182.5	183.0	-
ELECTRIC AND ELECTRONIC EQUIPMENT		2,042.9	2,057.2	2,136.1	2,141.1	2,144.9	1,342.3	1,356.2	1,391.2	1,396.4	1,395.5
361	Electric distributing equipment	122.1	122.6	122.0	121.1	-	87.5	88.0	85.8	85.5	-
3612	Transformers	55.5	55.8	56.3	55.6	-	39.4	39.7	40.2	39.4	-
3613	Switchgear and switchboard apparatus	66.6	66.8	65.7	65.5	-	48.1	48.3	45.6	46.1	-
362	Electrical industrial apparatus	251.2	253.3	258.4	259.7	-	180.4	182.3	183.2	185.5	-
3621	Motors and generators	137.6	138.3	135.8	136.3	-	103.5	104.6	101.3	102.1	-
3622	Industrial controls	67.0	67.6	72.2	72.6	-	43.5	43.7	45.3	46.5	-
363	Household appliances	183.2	178.3	179.0	179.8	-	144.7	140.1	141.2	142.8	-
3632	Household refrigerators and freezers	40.9	39.8	38.3	37.9	-	31.8	31.0	30.7	30.4	-
3633	Household laundry equipment	22.8	21.9	23.9	23.8	-	17.8	17.0	18.9	18.8	-
3634	Electric housewares and fans	56.2	54.6	53.2	53.5	-	45.4	43.9	42.2	43.0	-
364	Electric lighting and wiring equipment	223.9	226.0	229.9	230.0	-	170.2	172.6	172.9	173.3	-
3641	Electric lamps	38.1	38.5	38.8	38.4	-	33.4	33.9	34.3	34.0	-
3643	Current-carrying wiring devices	93.2	93.9	98.9	99.9	-	66.3	66.9	68.8	69.7	-
3644	Noncurrent-carrying wiring devices	22.2	22.6	22.8	22.5	-	16.2	16.6	16.7	16.4	-
3645	Residential lighting fixtures	26.9	26.9	27.8	28.0	-	20.9	20.9	21.5	21.9	-
365	Radio and TV receiving equipment	120.4	120.4	114.9	114.3	-	90.1	90.4	86.5	85.2	-
3651	Radio and TV receiving sets	94.3	94.3	90.8	90.2	-	69.2	69.5	66.3	65.4	-
366	Communication equipment	503.5	508.9	539.7	541.1	-	246.4	251.8	269.5	269.9	-
3661	Telephone and telegraph apparatus	153.2	153.8	163.1	164.6	-	106.0	106.4	114.5	116.1	-
3662	Radio and TV communication equipment	350.3	355.1	376.6	376.5	-	140.4	145.4	155.0	153.8	-
367	Electronic components and accessories	472.0	479.2	524.7	528.2	-	297.4	303.6	328.1	330.5	-
3671-3	Electronic tubes	41.7	42.1	44.8	44.9	-	27.3	27.6	28.2	28.1	-
3674	Semiconductors and related devices	175.2	178.6	197.9	199.6	-	82.8	85.8	91.3	92.4	-
3679	Electronic components, nec	186.8	189.2	207.0	208.5	-	132.3	134.2	147.5	148.9	-
369	Misc. electrical equipment and supplies	166.6	168.5	167.5	166.9	-	125.6	127.4	124.0	123.7	-
3691	Storage batteries	31.7	32.1	33.0	33.2	-	25.2	25.7	26.6	26.8	-
3694	Engine electrical equipment	79.3	80.0	74.4	73.4	-	62.9	63.6	56.9	56.3	-
TRANSPORTATION EQUIPMENT		2,053.5	2,073.4	2,051.0	2,040.1	2,011.4	1,429.0	1,446.4	1,393.9	1,388.1	1,354.7
371	Motor vehicles and equipment	1,033.6	1,043.2	973.0	952.6	-	810.3	820.8	748.1	728.9	-
3711	Motor vehicles and car bodies	478.0	481.1	445.7	431.7	-	358.6	362.1	327.5	315.0	-
3713	Truck and bus bodies	48.0	48.4	47.8	47.2	-	39.1	39.4	37.9	37.2	-
3714	Motor vehicle parts and accessories	474.6	479.8	446.0	440.4	-	386.5	392.4	356.6	350.9	-
3715	Truck trailers	33.0	33.9	33.5	33.3	-	26.1	26.9	26.1	25.8	-
372	Aircraft and parts	548.8	560.3	618.2	624.6	-	292.1	299.6	332.1	341.0	-
3721	Aircraft	304.7	311.3	344.5	347.4	-	146.9	151.2	172.3	175.3	-
3724	Aircraft engines and engine parts	136.2	138.9	151.7	152.9	-	76.7	78.2	82.3	87.2	-
3728	Aircraft equipment, nec	107.9	110.1	122.0	124.3	-	68.5	70.2	77.5	78.5	-
373	Ship and boat building and repairing	220.9	219.2	216.4	216.1	-	177.8	176.3	172.7	174.0	-
3731	Ship building and repairing	166.8	165.1	168.3	168.0	-	133.2	131.6	133.1	134.2	-
3732	Boat building and repairing	54.1	54.1	48.1	48.1	-	44.6	44.7	39.6	39.8	-
374	Railroad equipment	67.1	68.5	71.7	72.7	-	51.1	52.5	55.3	56.4	-
376	Guided missiles, space vehicles, parts	92.8	92.6	99.9	100.6	-	28.0	28.0	32.3	32.6	-
3761	Guided missiles and space vehicles	73.8	73.3	78.6	79.4	-	20.1	20.0	23.3	23.7	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
	TRANSPORTATION EQUIPMENT—Continued										
379	Miscellaneous transportation equipment	73.1	72.2	52.3	53.8	-	56.3	55.7	37.8	39.3	-
3792	Travel trailers and campers	51.0	49.9	30.7	32.4	-	40.7	40.1	23.2	24.7	-
	INSTRUMENTS AND RELATED PRODUCTS										
38	Engineering and scientific instruments	665.4	672.0	692.7	695.0	696.9	408.4	414.4	420.0	419.3	420.6
381	Measuring and controlling devices	66.9	67.7	73.6	74.3	-	33.4	34.4	37.0	37.2	-
382	Environmental controls	217.9	220.6	230.5	230.3	-	138.7	140.9	147.1	146.0	-
3822	Process control instruments	47.4	47.4	46.4	46.3	-	32.6	32.6	32.7	32.6	-
3823	Instruments to measure electricity	49.7	50.3	50.4	51.1	-	26.6	27.0	25.9	26.2	-
3825	Optical instruments and lenses	85.1	85.4	94.4	93.6	-	54.3	54.7	59.9	58.6	-
383	Medical instruments and supplies	28.7	29.1	32.1	32.5	-	16.3	16.6	17.9	18.3	-
384	Surgical and medical instruments	140.8	143.3	146.3	147.3	-	93.3	95.8	94.6	95.0	-
3841	Surgical appliances and supplies	60.0	62.0	62.8	63.3	-	39.7	41.9	40.0	40.2	-
3842	Ophthalmic goods	63.3	63.7	66.4	66.7	-	42.4	42.4	43.7	43.7	-
385	Photographic equipment and supplies	44.5	44.6	45.3	46.2	-	32.9	33.0	32.9	32.8	-
386	Watches, clocks, and watchcases	135.4	135.6	135.7	136.1	-	69.5	69.6	67.9	68.0	-
387	Watches, clocks, and watchcases	31.2	31.1	29.2	28.3	-	24.3	24.1	22.6	22.0	-
	MISCELLANEOUS MANUFACTURING										
39	INDUSTRIES	476.5	473.4	463.8	466.5	463.1	366.4	363.0	356.7	358.7	354.1
391	Jewelry, silverware, and plated ware	66.0	66.0	60.1	60.9	-	48.8	48.7	44.0	44.4	-
3911	Jewelry, precious metal	43.1	43.3	38.2	39.3	-	31.3	31.5	27.8	28.3	-
393	Musical instruments	25.9	26.3	24.3	24.5	-	21.2	21.6	20.1	20.2	-
394	Toys and sporting goods	131.7	127.8	130.6	131.8	-	103.1	99.6	101.7	102.8	-
3942, 4	Dolls, games, toys, and children's vehicles	70.2	67.0	68.8	70.3	-	54.6	51.6	52.8	54.3	-
3949	Sporting and athletic goods, nec	61.5	60.8	61.8	61.5	-	48.5	48.0	48.9	48.5	-
395	Pens, pencils, office and art supplies	38.7	39.2	42.0	42.2	-	28.1	28.3	30.5	30.6	-
396	Costume jewelry and notions	67.8	68.6	61.2	60.7	-	55.0	56.1	49.3	49.2	-
3961	Costume jewelry	38.5	38.8	34.2	33.9	-	31.5	32.2	27.8	27.6	-
399	Miscellaneous manufactures	146.4	145.5	145.6	146.4	-	110.2	108.7	111.1	111.5	-
3993	Signs and advertising displays	48.8	48.9	50.2	50.5	-	35.4	35.2	36.9	37.0	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	1,768.2	1,740.9	1,814.1	1,765.9	1,731.2	1,217.9	1,192.8	1,270.4	1,225.3	1,191.8
201	Meat products	357.8	361.9	365.8	367.3	-	296.6	300.4	305.3	306.9	-
2011	Meat packing plants	168.5	170.5	164.6	162.7	-	136.3	138.2	134.2	133.0	-
2013	Sausages and other prepared meats	71.1	71.6	69.7	70.7	-	52.4	53.0	51.2	51.7	-
2016	Poultry dressing plants	105.2	106.3	117.6	119.0	-	96.3	97.3	108.0	109.1	-
202	Dairy products	183.6	182.5	184.3	182.4	-	96.3	95.7	98.0	97.2	-
2022	Cheese, natural and processed	32.1	32.1	32.9	32.8	-	25.0	24.9	25.5	25.4	-
2026	Fluid milk	117.4	117.0	116.2	115.5	-	50.4	50.3	50.6	50.7	-
203	Preserved fruits and vegetables	277.1	251.9	328.2	268.5	-	229.1	204.8	280.5	224.2	-
2032	Canned specialties	27.2	26.8	27.6	26.6	-	19.4	18.6	19.9	18.9	-
2033	Canned fruits and vegetables	104.5	87.3	162.1	106.0	-	86.2	70.1	143.6	90.6	-
2037	Frozen fruits and vegetables	59.2	56.8	57.2	56.6	-	52.1	49.7	50.2	49.6	-
204	Grain mill products	147.1	146.1	144.9	144.9	-	100.4	100.0	99.0	99.2	-
2041	Flour and other grain mill products	26.0	25.8	26.1	26.4	-	16.4	16.5	16.2	16.5	-
2048	Prepared feeds, nec	59.4	59.3	59.3	59.5	-	37.9	37.8	38.3	38.5	-
205	Bakery products	235.5	236.1	234.6	235.6	-	136.9	137.3	137.6	138.3	-
2051	Bread, cake, and related products	191.8	192.5	191.1	190.7	-	102.3	103.0	103.6	103.0	-
2052	Cookies and crackers	43.7	43.6	43.5	44.9	-	34.6	34.3	34.0	35.3	-
206	Sugar and confectionery products	121.9	122.0	109.8	118.3	-	95.6	94.8	84.2	91.9	-
2061-3	Cane and beet sugar	39.1	39.6	26.7	32.9	-	29.9	29.8	18.6	24.3	-
2066	Confectionery products	61.7	61.7	61.9	64.4	-	50.2	50.0	50.4	52.5	-
207	Fats and oils	41.2	41.9	38.6	40.7	-	29.8	30.3	27.9	29.9	-
208	Beverages	231.0	229.0	234.3	233.5	-	109.1	107.5	108.4	107.6	-
2082	Malt beverages	50.1	49.7	50.3	49.3	-	33.6	33.4	34.2	33.3	-
2086	Bottled and canned soft drinks	135.4	135.1	139.7	138.9	-	47.8	47.1	48.7	48.3	-
209	Misc. foods and kindred products	173.0	169.5	173.6	174.7	-	124.1	122.0	129.5	130.1	-
21	TOBACCO MANUFACTURES	76.4	74.2	72.2	72.2	64.6	62.2	60.3	58.2	58.3	50.6
211	Cigarettes	44.2	44.4	44.1	43.8	-	34.6	34.8	34.1	33.8	-
22	TEXTILE MILL PRODUCTS	900.0	901.8	888.9	889.0	893.6	783.8	786.9	774.6	775.3	779.7
221	Weaving mills, cotton	148.2	148.8	150.0	150.0	-	133.3	134.0	135.0	135.1	-
222	Weaving mills, synthetics	125.2	125.6	123.6	124.6	-	111.9	112.3	111.1	112.0	-
223	Weaving and finishing mills, wool	21.0	21.1	20.9	20.7	-	17.5	17.6	17.3	17.1	-
224	Narrow fabric mills	25.9	26.0	25.4	25.2	-	22.7	22.9	22.2	22.1	-
225	Knitting mills	239.1	235.9	232.0	230.6	-	206.8	204.4	200.8	199.7	-
2251	Women's hosiery, except socks	29.3	30.0	30.2	30.5	-	26.2	26.9	27.0	27.6	-
2252	Hosiery, nec	34.7	35.0	33.7	33.6	-	31.6	31.8	30.5	30.5	-
2253	Knit outerwear mills	80.5	78.1	77.3	76.5	-	68.7	66.7	66.5	65.6	-
2254	Knit underwear mills	34.1	33.8	33.3	33.0	-	29.3	29.1	28.8	28.6	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979P	Nov. 1979P
TEXTILE MILL PRODUCTS—Continued											
2257	Circular knit fabric mills	35.2	34.0	32.6	32.5	-	29.5	28.8	27.2	27.0	-
226	Textile finishing, except wool	76.3	79.3	76.7	77.6	-	64.5	67.4	64.5	65.6	-
2261	Finishing plants, cotton	33.5	33.6	32.1	32.4	-	28.1	28.2	26.7	27.1	-
2262	Finishing plants, synthetics	26.5	29.2	28.3	28.6	-	22.4	25.1	23.8	24.2	-
227	Floor covering mills	62.7	62.4	61.5	60.8	-	51.0	51.0	50.2	49.6	-
228	Yarn and thread mills	131.6	132.4	131.2	131.5	-	119.7	120.7	119.3	119.6	-
2281	Yarn mills, except wool	88.4	88.8	88.7	89.0	-	81.7	82.2	82.2	82.5	-
2282	Throwing and winding mills	22.3	22.2	21.7	21.7	-	19.8	19.8	19.2	19.2	-
229	Miscellaneous textile goods	70.0	70.3	67.6	68.0	-	56.4	56.6	54.2	54.5	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	1,348.3	1,345.0	1,309.1	1,316.2	1,312.5	1,160.3	1,156.0	1,118.8	1,125.3	1,121.9
231	Men's and boys' suits and coats	90.8	90.6	83.8	83.4	-	79.6	79.4	72.9	71.8	-
232	Men's and boys' furnishings	365.9	366.4	367.2	368.9	-	316.1	316.2	316.2	317.1	-
2321	Men's and boys' shirts and nightwear	108.5	107.4	106.9	106.7	-	94.3	93.3	93.3	92.8	-
2327	Men's and boys' separate trousers	80.0	79.7	78.8	79.6	-	70.1	69.7	68.7	69.3	-
2328	Men's and boys' work clothing	94.4	97.6	100.5	102.0	-	80.0	82.8	84.3	85.5	-
233	Women's and misses' outerwear	452.2	449.6	435.1	438.4	-	391.6	388.6	372.6	376.3	-
2331	Women's and misses' blouses and waists	61.9	62.6	59.3	59.6	-	54.5	54.9	51.3	51.6	-
2335	Women's and misses' dresses	175.4	173.4	168.4	168.8	-	155.3	153.1	147.5	147.9	-
2337	Women's and misses' suits and coats	67.6	64.8	67.3	66.9	-	58.3	55.6	58.5	58.2	-
2339	Women's and misses' outerwear, nec.	147.3	148.8	140.1	143.1	-	123.5	125.0	115.3	118.6	-
234	Women's and children's undergarments	93.1	92.4	90.6	90.6	-	79.4	79.0	76.9	76.7	-
2341	Women's and children's underwear	73.3	72.6	71.8	71.8	-	63.7	63.2	61.9	62.1	-
2342	Brassieres and allied garments	19.8	19.8	18.8	18.8	-	15.7	15.8	15.0	14.6	-
236	Children's outerwear	69.2	68.4	65.3	63.9	-	59.1	58.2	56.3	55.1	-
2361	Children's dresses and blouses	26.8	26.8	24.6	24.9	-	23.9	24.0	22.1	22.5	-
238	Misc. apparel and accessories	60.3	60.2	57.6	57.1	-	51.9	51.9	49.5	49.5	-
239	Misc. fabricated textile products	196.8	197.6	189.9	194.6	-	165.1	165.4	157.7	162.4	-
2391	Curtains and draperies	31.3	31.1	31.0	31.5	-	27.5	27.2	26.8	27.4	-
2392	House furnishings, nec.	52.9	52.8	52.6	54.0	-	44.3	44.1	44.0	45.3	-
2396	Automotive and apparel trimmings	38.8	38.9	36.7	38.2	-	32.5	32.7	30.4	32.1	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	695.0	702.4	718.5	717.6	717.5	522.3	527.9	546.9	546.5	546.0
261, 2, 6	Paper mills, except building paper	185.4	193.2	201.6	200.2	-	137.4	143.3	151.9	150.8	-
262	Paper mills, except building paper	156.6	164.5	171.8	170.5	-	114.8	120.8	127.9	126.9	-
263	Paperboard mills	69.4	69.2	71.8	71.7	-	54.5	54.5	57.0	56.8	-
264	Misc. converted paper products	222.5	221.7	227.9	227.3	-	161.2	160.7	169.7	169.4	-
2641	Paper coating and glazing	57.2	57.0	61.2	60.8	-	33.0	33.5	40.0	39.7	-
2642	Envelopes	24.4	24.4	24.8	24.9	-	19.2	19.1	19.7	19.8	-
2643	Bags, except textile bags	50.6	51.2	52.3	52.5	-	39.4	39.8	40.7	41.0	-
265	Paperboard containers and boxes	217.7	218.3	217.2	218.4	-	169.2	169.4	168.3	169.5	-
2651	Folding paperboard boxes	47.0	46.9	46.9	47.2	-	37.7	37.6	37.4	37.5	-
2653	Corrugated and solid fiber boxes	108.4	108.8	108.9	109.2	-	80.8	80.8	80.9	81.4	-
2654	Sanitary food containers	28.3	28.6	27.8	28.0	-	23.5	23.8	23.1	23.3	-
PRINTING AND PUBLISHING											
27	Newspapers	1,201.2	1,215.1	1,246.1	1,255.4	1,264.8	673.7	682.9	705.2	710.0	717.5
271	Newspapers	405.0	413.7	421.8	424.7	-	160.1	166.3	169.1	169.8	-
272	Periodicals	81.3	81.8	82.3	82.9	-	14.0	14.1	13.7	13.6	-
273	Books	98.4	99.8	100.8	101.2	-	47.6	49.0	51.0	50.7	-
2731	Book publishing	70.0	70.9	72.2	72.1	-	23.8	24.7	26.9	26.3	-
2732	Book printing	28.4	28.9	28.6	29.1	-	23.8	24.3	24.1	24.4	-
274	Miscellaneous publishing	46.2	46.7	47.8	48.1	-	28.2	28.8	28.6	29.0	-
275	Commercial printing	399.5	401.8	414.7	418.8	-	296.0	297.3	309.3	312.7	-
2751	Commercial printing, letterpress	171.3	172.4	173.6	174.7	-	127.6	127.8	129.1	129.9	-
2752	Commercial printing, lithographic	206.4	207.3	219.1	221.2	-	150.4	151.3	161.9	163.7	-
276	Manifold business forms	45.8	46.2	49.2	49.5	-	32.9	33.2	34.8	35.1	-
278	Blankbooks and bookbinding	62.3	62.2	65.6	66.3	-	51.5	51.1	54.4	55.1	-
279	Printing trade services	40.1	40.5	40.7	40.8	-	29.4	29.5	30.2	30.1	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	1,100.6	1,103.2	1,114.9	1,116.1	1,118.8	629.8	630.8	637.5	638.2	642.2
281	Industrial inorganic chemicals	167.0	167.3	171.9	172.2	-	92.9	93.0	92.4	92.4	-
2819	Industrial inorganic chemicals, nec.	109.0	109.1	110.3	110.8	-	59.8	59.9	58.8	58.9	-
282	Plastics materials and synthetics	215.3	216.2	217.6	217.6	-	146.5	147.5	147.9	148.2	-
2821	Plastics materials and resins	83.6	83.9	84.5	84.4	-	51.4	51.7	51.1	51.0	-
2824	Organic fibers, noncellulosic	96.4	96.7	96.2	96.1	-	69.0	69.4	69.2	69.3	-
283	Drugs	187.4	188.6	191.4	191.8	-	89.2	90.0	94.7	95.0	-
2834	Pharmaceutical preparations	150.1	151.2	152.9	153.3	-	68.4	69.1	72.8	73.1	-
284	Soap, cleaners, and toilet goods	140.4	139.7	139.9	140.7	-	86.5	86.0	84.9	85.2	-
2841	Soap and other detergents	41.4	41.8	41.1	41.0	-	26.6	27.4	26.5	26.5	-
2844	Toilet preparations	58.6	57.4	57.2	58.1	-	37.1	35.8	35.9	35.9	-
2842, 3	Polishing, sanitation, and finishing preparations	40.4	40.5	41.6	41.6	-	22.8	22.8	22.5	22.8	-
285	Paints and allied products	69.5	70.3	70.0	69.2	-	36.3	36.1	36.4	35.8	-
286	Industrial organic chemicals	165.1	165.1	165.7	165.4	-	86.0	85.8	86.9	86.9	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates.....	36.8	37.0	37.9	37.8	-	23.2	23.3	23.7	23.7	-
2861,9	Gum, wood, and industrial organic chemicals, nec.....	128.3	128.1	127.8	127.6	-	62.8	62.5	63.2	63.2	-
287	Agricultural chemicals.....	66.0	66.0	68.6	68.6	-	41.5	41.5	43.6	43.3	-
289	Miscellaneous chemical products.....	89.9	90.0	89.8	90.6	-	50.9	50.9	50.7	51.4	-
29	PETROLEUM AND COAL PRODUCTS	211.7	210.7	218.1	218.0	219.1	138.4	137.9	142.6	142.2	144.7
291	Petroleum refining.....	165.3	165.1	171.2	171.6	-	104.0	104.2	107.5	107.7	-
295	Paving and roofing materials.....	35.3	34.5	35.3	34.9	-	27.5	26.9	27.8	27.2	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	766.6	771.9	762.0	762.5	762.1	601.5	606.9	595.3	597.0	596.8
301	Tires and inner tubes.....	127.8	128.8	119.4	117.6	-	92.6	93.4	85.2	83.8	-
302	Rubber and plastics footwear.....	25.0	24.6	22.4	22.5	-	21.9	21.5	19.6	19.8	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting.....	23.7	23.4	23.1	23.2	-	17.6	17.6	17.0	17.1	-
306	Fabricated rubber products, nec.....	114.5	116.1	113.5	113.1	-	90.1	91.5	89.2	88.9	-
307	Miscellaneous plastics products.....	475.6	479.0	483.6	486.1	-	379.3	382.9	384.3	387.4	-
31	LEATHER AND LEATHER PRODUCTS	256.3	255.1	243.1	243.0	245.3	219.3	218.4	206.8	206.3	208.8
311	Leather tanning and finishing.....	21.7	21.4	19.3	19.5	-	18.3	18.0	16.2	16.4	-
314	Footwear, except rubber.....	156.8	156.7	147.8	146.6	-	136.0	135.9	126.9	125.2	-
3143	Men's footwear, except athletic.....	63.5	62.9	57.0	56.3	-	55.9	55.3	49.3	48.5	-
3144	Women's footwear, except athletic.....	61.9	62.2	61.4	60.6	-	53.2	53.6	52.5	51.4	-
316	Luggage.....	18.1	18.0	17.7	17.6	-	14.0	13.9	13.7	13.7	-
317	Handbags and personal leather goods.....	33.5	32.9	33.9	34.6	-	28.4	28.0	29.2	29.9	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,039	5,063	5,242	5,243	5,259	4,231	4,249	4,393	4,398	4,413
40	RAILROAD TRANSPORTATION	551.4	552.9	552.9	555.9	-	-	-	-	-	-
4011	Class I railroads ²	508.5	509.9	508.2	511.0	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	265.7	267.9	271.1	273.5	-	245.9	247.5	249.9	252.9	-
411	Local and suburban transportation.....	70.1	70.7	73.9	74.1	-	65.0	65.5	68.3	68.6	-
412	Taxicabs.....	64.2	65.1	63.4	63.8	-	-	-	-	-	-
413	Intercity highway transportation.....	35.6	35.4	39.1	37.6	-	32.6	32.4	36.2	34.6	-
415	School buses.....	81.9	82.9	80.4	83.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,362.2	1,373.0	1,401.5	1,408.0	-	1,208.9	1,219.2	1,239.3	1,245.4	-
421,3	Trucking and trucking terminals.....	1,269.3	1,280.6	1,311.1	1,310.8	-	1,128.1	1,139.0	1,161.4	1,160.9	-
422	Public warehousing.....	92.9	92.4	90.4	97.2	-	80.8	80.2	77.9	84.5	-
44	WATER TRANSPORTATION	213.8	214.6	234.3	226.4	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	406.9	411.6	433.2	431.7	-	-	-	-	-	-
451,2	Air transportation.....	364.5	368.9	386.3	384.6	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.5	19.5	19.3	19.0	-	14.0	13.9	13.7	13.5	-
47	TRANSPORTATION SERVICES	174.5	174.9	191.4	192.9	-	-	-	-	-	-
48	COMMUNICATION	1,261.6	1,263.3	1,320.7	1,318.7	-	953.7	954.3	993.5	996.4	-
481	Telephone communication.....	1,010.4	1,011.7	1,055.2	1,052.3	-	749.3	749.2	773.8	776.4	-
483	Radio and television broadcasting.....	184.0	184.7	194.8	195.2	-	145.7	146.5	157.0	157.0	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	783.7	785.0	817.5	816.5	-	639.1	640.2	666.0	663.9	-
491	Electric services.....	359.9	360.3	377.2	377.6	-	290.5	290.6	304.4	304.1	-
492	Gas production and distribution.....	164.2	164.7	170.6	169.8	-	134.2	134.7	139.3	138.1	-
493	Combination utility services.....	191.9	192.2	196.1	196.1	-	155.8	156.2	158.7	159.0	-
495	Sanitary services.....	44.0	44.1	48.3	47.8	-	39.0	39.1	42.8	42.1	-
-	WHOLESALE AND RETAIL TRADE	19,813	20,095	20,260	20,315	20,557	17,453	17,725	17,792	17,852	18,074
50,51	WHOLESALE TRADE	5,050	5,069	5,206	5,234	5,254	4,163	4,174	4,276	4,301	4,316
50	WHOLESALE TRADE - DURABLE GOODS	2,934	2,956	3,067	3,081	-	2,410	2,426	2,517	2,529	-
501	Motor vehicles and automotive equipment.....	427.5	430.4	438.0	436.7	-	350.4	352.6	357.2	355.9	-
502	Furniture and home furnishing.....	103.9	104.7	106.4	106.3	-	84.3	84.9	86.5	86.8	-
503	Lumber and construction materials.....	182.6	183.7	188.0	188.4	-	152.6	153.3	157.2	157.7	-
504	Sporting goods, toys, and hobby goods.....	64.8	65.6	64.0	65.2	-	53.8	54.4	52.6	53.6	-
505	Metals and minerals, except petroleum.....	145.5	146.4	155.0	155.8	-	118.5	119.0	126.3	126.9	-
506	Electrical goods.....	394.8	398.3	416.2	418.6	-	324.4	328.6	339.5	341.9	-
507	Hardware, plumbing, and heating equipment.....	234.7	236.3	241.7	243.0	-	194.8	195.6	200.4	201.3	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,182.5	1,188.2	1,249.9	1,256.4	-	964.7	966.2	1,020.9	1,026.9	-
509	Miscellaneous durable goods	198.1	202.8	208.2	210.8	-	166.6	170.9	176.1	178.3	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,116	2,113	2,139	2,153	-	1,753	1,748	1,759	1,772	-
511	Paper and paper products	135.7	136.9	139.5	140.6	-	110.2	111.2	113.1	114.1	-
512	Drugs, proprietaries, and sundries	140.9	141.6	141.9	143.9	-	120.5	121.4	120.7	122.5	-
513	Apparel, piece goods, and notions	165.9	165.7	171.1	172.8	-	132.5	132.0	136.1	137.5	-
514	Groceries and related products	648.9	643.4	654.0	650.7	-	563.6	557.9	564.5	561.7	-
516	Chemicals and allied products	114.2	114.3	117.0	116.7	-	81.9	82.0	85.4	85.4	-
517	Petroleum and petroleum products	223.9	225.0	221.3	221.7	-	169.8	169.8	161.4	161.7	-
518	Beer, wine, and distilled beverages	132.2	133.8	140.5	140.6	-	112.4	114.1	119.3	119.5	-
519	Miscellaneous nondurable goods	392.5	392.0	403.1	409.7	-	325.0	324.4	333.1	339.5	-
52-59	RETAIL TRADE	14,763	15,026	15,054	15,081	15,303	13,290	13,551	13,516	13,551	13,758
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	618.7	620.7	628.9	633.5	-	529.4	530.5	536.7	540.6	-
521	Lumber and other building materials	331.4	330.5	338.1	339.6	-	285.8	284.7	290.0	291.0	-
525	Hardware stores	142.6	145.3	146.6	149.1	-	122.2	124.5	126.5	129.1	-
53	GENERAL MERCHANDISE STORES	2,325.2	2,452.4	2,228.0	2,261.4	-	2,170.1	2,299.2	2,074.5	2,105.3	-
531	Department stores	1,894.7	2,002.0	1,794.6	1,828.4	-	1,780.5	1,889.2	1,681.5	1,714.2	-
533	Variety stores	292.0	304.4	280.0	281.6	-	270.9	284.0	259.6	260.1	-
539	Misc. general merchandise stores	138.5	146.0	153.4	151.4	-	118.7	126.0	133.4	131.0	-
54	FOOD STORES	2,226.4	2,264.5	2,286.0	2,309.8	-	2,052.7	2,089.2	2,107.3	2,132.4	-
541	Grocery stores	1,945.3	1,975.0	2,014.5	2,031.6	-	1,796.7	1,824.5	1,859.3	1,877.5	-
542	Meat markets and freezer provisioners	51.5	52.3	51.5	51.8	-	-	-	-	-	-
546	Retail bakeries	125.7	127.8	125.2	127.2	-	115.6	117.6	114.6	116.8	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,879.3	1,880.6	1,795.0	1,800.5	-	1,614.3	1,614.0	1,526.3	1,532.5	-
551.2	New and used car dealers	903.6	905.0	880.5	877.3	-	756.0	755.5	729.1	726.8	-
553	Auto and home supply stores	260.5	262.0	260.7	260.8	-	226.7	228.9	227.4	227.4	-
554	Gasoline service stations	632.1	631.4	565.0	573.9	-	560.6	559.7	494.0	502.9	-
56	APPAREL AND ACCESSORY STORES	914.3	958.3	921.6	941.5	-	789.4	833.7	793.0	811.1	-
561	Men's and boys' clothing and furnishings	138.1	145.6	138.6	140.9	-	117.8	124.6	117.6	119.2	-
562	Women's ready-to-wear stores	351.7	366.3	350.8	359.5	-	305.9	321.2	305.8	313.7	-
565	Family clothing stores	166.4	178.0	173.4	177.4	-	146.8	158.1	151.7	155.6	-
566	Shoe stores	171.7	177.2	173.6	175.8	-	143.7	149.2	143.8	145.9	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	603.1	615.9	612.7	616.0	-	500.9	513.2	505.2	508.8	-
571	Furniture and home furnishings	365.5	371.2	365.5	367.2	-	308.1	313.3	304.8	306.9	-
572	Household appliance stores	87.3	89.6	90.3	91.0	-	74.3	76.2	77.3	78.2	-
573	Radio, television, and music stores	150.3	155.1	156.9	157.8	-	118.5	123.7	123.1	123.7	-
58	EATING AND DRINKING PLACES	4,348.3	4,319.5	4,713.7	4,610.6	-	4,006.7	3,980.1	4,333.5	4,243.5	-
59	MISCELLANEOUS RETAIL	1,847.9	1,914.1	1,868.2	1,907.2	-	1,626.9	1,691.1	1,639.6	1,676.3	-
591	Drug stores and proprietary stores	490.8	496.6	508.1	510.5	-	447.4	453.4	462.6	464.3	-
592	Liquor stores	124.1	128.2	137.7	140.8	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	558.2	590.5	569.4	580.0	-	478.9	508.4	484.9	494.6	-
596	Nonstore retailers	290.7	304.5	263.5	273.7	-	272.2	285.8	247.4	257.8	-
598	Fuel and ice dealers	100.2	103.7	97.1	101.5	-	84.8	88.3	81.5	85.5	-
599	Retail stores, nec.	230.7	236.7	237.6	245.1	-	194.9	201.6	199.1	206.5	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE	4,788	4,817	5,002	5,013	5,046	3,643	3,669	3,798	3,801	3,814
60	BANKING	1,438.7	1,447.2	1,493.7	1,497.3	-	1,121.7	1,128.6	1,154.7	1,157.2	-
602	Commercial and stock savings banks	1,313.9	1,321.5	1,363.1	1,366.4	-	1,019.9	1,026.1	1,048.5	1,050.9	-
61	CREDIT AGENCIES OTHER THAN BANKS	523.8	528.3	554.7	558.2	-	403.9	407.5	425.6	427.8	-
612	Savings and loan associations	223.2	224.6	240.9	242.7	-	174.8	176.0	186.3	187.8	-
614	Personal credit institutions	201.5	204.1	211.5	214.1	-	153.6	155.7	161.4	163.0	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	194.2	196.5	207.7	210.0	-	-	-	-	-	-
621	Security brokers and dealers	156.4	158.4	166.3	168.1	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,185.4	1,189.8	1,218.5	1,220.0	-	829.5	832.5	852.0	851.7	-
631	Life insurance	517.9	518.6	523.4	523.9	-	310.6	311.3	311.8	312.7	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979P	Nov. 1979P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979P	Nov. 1979P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	136.5	137.2	137.3	137.8	-	110.0	110.8	110.1	110.7	-
633	Fire, marine, and casualty insurance	457.5	460.4	481.8	482.0	-	348.4	349.8	368.4	366.8	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	414.1	417.2	432.6	435.6	-	-	-	-	-	-
65	REAL ESTATE	902.8	906.9	958.3	954.0	-	-	-	-	-	-
651	Real estate operators and lessors	422.9	426.1	442.4	442.3	-	-	-	-	-	-
653	Real estate agents and managers	330.0	329.7	354.0	352.8	-	-	-	-	-	-
655	Subdividers and developers	126.0	126.8	137.5	134.1	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	26.9	26.9	26.5	26.8	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	102.1	103.7	110.3	111.4	-	-	-	-	-	-
-	SERVICES	16,497	16,537	17,225	17,295	17,317	14,644	14,684	15,291	15,365	15,381
70	HOTELS AND OTHER LODGING PLACES	964.2	937.4	1,093.4	1,049.7	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	928.2	904.9	1,048.4	1,008.6	-	854.0	831.4	965.1	927.0	-
72	PERSONAL SERVICES	906.9	907.7	889.3	894.3	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	360.0	359.8	351.0	353.1	-	320.8	320.6	313.1	315.0	-
723	Beauty shops	280.2	279.3	275.3	274.1	-	258.0	257.1	254.4	252.7	-
726	Funeral service and crematories	69.2	69.5	71.7	71.7	-	-	-	-	-	-
73	BUSINESS SERVICES	2,711.5	2,735.3	2,901.3	2,935.6	-	2,366.8	2,384.8	2,529.8	2,563.1	-
731	Advertising	144.2	145.0	148.8	149.9	-	106.4	107.1	110.0	111.3	-
732	Credit reporting and collection	78.0	77.8	74.9	75.1	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	106.9	109.8	105.0	108.9	-	-	-	-	-	-
734	Services to buildings	454.8	453.8	497.6	499.2	-	408.5	407.4	450.7	452.4	-
736	Personnel supply services	476.8	481.2	513.7	518.1	-	-	-	-	-	-
737	Computer and data processing services	230.9	234.7	262.1	267.5	-	190.0	193.0	216.1	220.9	-
75	AUTO REPAIR, SERVICES, AND GARAGES	561.7	561.0	568.0	573.5	-	482.9	482.6	486.6	491.0	-
753	Automotive repair shops	354.7	349.1	357.6	359.7	-	303.3	298.5	304.4	305.7	-
76	MISCELLANEOUS REPAIR SERVICES	262.0	263.6	281.5	282.9	-	223.8	225.7	240.8	242.8	-
78	MOTION PICTURES	212.6	210.6	218.8	210.0	-	187.6	185.4	195.0	187.0	-
781	Motion picture production and services	79.4	80.6	78.7	78.6	-	68.8	69.2	68.6	68.9	-
783	Motion picture theaters	122.1	118.8	129.2	120.4	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	710.0	683.3	765.9	690.5	-	639.8	613.3	691.8	623.6	-
80	HEALTH SERVICES	4,866.9	4,894.0	5,085.3	5,106.9	-	4,333.2	4,357.5	4,527.7	4,549.5	-
801	Offices of physicians	688.8	691.2	722.3	726.5	-	566.0	566.4	591.3	594.7	-
802	Offices of dentists	300.9	305.3	318.0	320.8	-	261.0	265.9	275.0	277.3	-
805	Nursing and personal care facilities	935.5	940.0	991.9	995.1	-	843.4	846.9	893.4	896.4	-
806	Hospitals	2,577.6	2,587.7	2,666.4	2,676.5	-	2,351.6	2,361.5	2,435.4	2,447.1	-
81	LEGAL SERVICES	436.9	441.4	465.5	471.9	-	376.9	380.5	399.3	404.0	-
82	EDUCATIONAL SERVICES	1,107.1	1,126.0	1,012.6	1,130.9	-	-	-	-	-	-
821	Elementary and secondary schools	232.6	237.4	230.0	240.5	-	-	-	-	-	-
822	Colleges and universities	762.2	774.9	670.8	774.0	-	-	-	-	-	-
83	SOCIAL SERVICES	986.5	995.1	1,016.6	1,020.5	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,520.2	1,530.4	1,577.8	1,593.9	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	882.1	891.2	950.3	953.7	-	729.3	738.9	787.1	787.7	-
891	Engineering and architectural services	480.5	485.2	519.3	522.2	-	405.0	409.0	440.5	442.5	-
893	Accounting, auditing, and bookkeeping	276.3	279.0	296.1	296.1	-	219.2	222.7	235.6	233.4	-
-	GOVERNMENT⁴	15,556	15,703	15,326	15,758	15,907	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,746	2,746	2,751	2,756	2,760	-	-	-	-	-
-	Executive	2,694.5	2,694.4	2,697.8	2,702.7	-	-	-	-	-	-
-	Department of Defense	905.8	905.3	887.2	887.8	-	-	-	-	-	-
-	Postal Service	646.9	651.4	659.0	653.7	-	-	-	-	-	-
-	Other executive agencies	1,141.8	1,137.7	1,151.6	1,161.2	-	-	-	-	-	-
-	Manufacturing activities	122.5	122.6	119.4	122.1	-	-	-	-	-	-
-	Shipbuilding	71.7	71.7	69.8	71.5	-	-	-	-	-	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979p	Nov. 1979p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979p	Nov. 1979p
	Executive—Continued										
-	Transportation and public utilities, except Postal Service	48.4	49.0	52.4	52.7	-	-	-	-	-	-
-	Services	386.4	384.4	385.4	377.6	-	-	-	-	-	
-	Hospitals	226.6	225.3	225.7	222.9	-	-	-	-	-	
-	Legislative	38.9	38.7	40.0	39.6	-	-	-	-	-	
-	Judicial	13.0	12.9	13.0	13.3	-	-	-	-	-	
-	STATE AND LOCAL GOVERNMENT	12,810	12,957	12,575	13,002	13,147	-	-	-	-	
-	State government	3,479.9	3,504.4	3,411.7	3,543.9	-	-	-	-	-	
-	Hospitals	554.5	556.5	560.5	559.8	-	-	-	-	-	
-	State education	1,453.0	1,479.7	1,336.5	1,477.8	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions	895.2	893.0	915.9	914.0	-	-	-	-	-	
-	Local government	9,329.8	9,452.2	9,163.5	9,458.1	-	-	-	-	-	
-	Transportation and public utilities	572.0	574.3	593.2	591.7	-	-	-	-	-	
-	Hospitals	516.1	517.9	532.5	532.6	-	-	-	-	-	
-	Local education	5,199.9	5,308.5	4,874.1	5,246.5	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions	2,708.7	2,716.8	2,797.0	2,735.4	-	-	-	-	-	

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 Office of Personnel Management. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

* Not available.
p = preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
-	TOTAL	34,736	35,542	36,341	36,524	37,105
-	PRIVATE SECTOR	28,351	28,593	29,617	29,801	29,987
-	MINING	80	80	94	96	94
10	METAL MINING	7.3	7.0	8.8	8.7	8.4
11, 12	COAL MINING	8.4	8.5	9.2	9.5	9.3
13	OIL AND GAS EXTRACTION	56.3	56.4	66.9	68.1	66.2
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	36.6	36.3	43.2	43.7	42.6
138	Oil and gas field services.....	19.7	20.1	23.7	24.4	23.6
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.2	8.3	9.5	9.5	9.6
142	Crushed and broken stone.....	2.5	2.5	2.8	2.8	2.7
144	Sand and gravel.....	2.6	2.7	3.2	3.2	3.3
-	CONSTRUCTION	346	344	385	388	388
15	GENERAL BUILDING CONTRACTORS	127.1	125.9	140.1	140.5	140.1
152	Residential building construction.....	77.5	76.1	84.7	84.5	84.2
153	Operative builders.....	16.8	17.0	17.9	17.6	17.7
154	Nonresidential building construction.....	32.8	32.8	37.5	38.4	38.2
16	HEAVY CONSTRUCTION CONTRACTORS	53.3	52.8	57.9	58.7	59.1
161	Highway and street construction.....	15.4	15.3	19.9	20.3	20.5
162	Heavy construction, except highway.....	37.9	37.5	38.0	38.4	38.6
17	SPECIAL TRADE CONTRACTORS	165.2	164.9	187.3	188.5	188.8
171	Plumbing, heating, air conditioning.....	45.1	44.9	49.3	49.3	49.1
172	Painting, paper hanging, decorating.....	10.4	10.2	13.0	12.8	12.5
173	Electrical work.....	29.8	29.6	32.1	31.7	32.4
174	Masonry, stonework, and plastering.....	18.5	18.5	22.3	22.5	22.9
175	Carpentering and flooring.....	13.4	13.4	16.2	16.2	16.2
176	Roofing and sheet metal work.....	11.4	11.4	13.1	13.5	13.4
-	MANUFACTURING	6,317	6,405	6,414	6,505	6,568
24, 25, 32-39	DURABLE GOODS	2,906	2,966	3,075	3,067	3,122
20-23, 26-31	NONDURABLE GOODS	3,411	3,439	3,339	3,438	3,446
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	109.7	110.0	114.1	115.1	116.7
241	Logging camps and logging contractors.....	5.2	5.1	5.5	5.4	5.3
242	Sawmills and planing mills.....	21.5	21.7	22.6	22.9	23.2
2421	Sawmills and planing mills, general.....	14.9	14.9	15.7	15.9	16.1
243	Millwork, plywood, and structural members.....	44.2	44.9	46.6	46.9	47.6
244	Wooden containers.....	7.5	7.2	7.7	7.3	7.2
245	Wood buildings and mobile homes.....	10.9	10.9	11.1	11.3	11.3
249	Miscellaneous wood products.....	20.4	20.2	20.6	21.3	22.1
25	FURNITURE AND FIXTURES	140.9	144.7	140.2	142.9	144.4
251	Household furniture.....	105.2	108.6	103.2	105.6	106.8
2511	Wood household furniture.....	44.0	44.8	43.0	44.7	45.2
2512	Upholstered household furniture.....	36.9	37.3	35.2	35.6	35.9
2515	Mattresses and bedsprings.....	8.7	8.9	8.7	8.9	8.9
252	Office furniture.....	10.6	10.9	11.3	11.5	11.5
253	Public building and related furniture.....	5.0	5.1	5.3	5.4	5.4
254	Partitions and fixtures.....	9.7	10.1	10.8	10.7	10.7
259	Miscellaneous furniture and fixtures.....	10.4	10.0	9.6	9.7	10.0
32	STONE, CLAY, AND GLASS PRODUCTS	130.7	131.3	135.3	134.7	136.1
322	Glass and glassware, pressed or blown.....	47.1	46.4	44.3	43.6	44.4
3221	Glass containers.....	27.7	26.9	25.2	24.6	24.6
3229	Pressed and blown glass, nec.....	19.4	19.5	19.1	19.0	19.8
323	Products of purchased glass.....	11.7	12.1	13.9	14.0	14.5
324	Cement, hydraulic.....	1.7	1.7	1.8	1.8	1.8
325	Structural clay products.....	6.2	6.2	6.7	6.8	6.8
326	Pottery and related products.....	16.1	16.7	16.0	16.4	16.6
327	Concrete, gypsum, and plaster products.....	15.0	15.0	16.0	15.9	16.0
329	Misc. nonmetallic mineral products.....	30.0	30.3	33.3	33.1	32.9
33	PRIMARY METAL INDUSTRIES	122.5	125.2	136.8	134.6	133.9
331	Blast furnace and basic steel products.....	40.3	39.7	46.8	46.4	44.7
3312	Blast furnaces and steel mills.....	31.5	30.8	37.1	36.6	35.1
332	Iron and steel foundries.....	17.4	19.6	20.8	20.2	20.4

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	9.2	10.0	10.1	9.5	9.7
3322	Malleable iron foundries	1.5	1.6	1.8	1.6	1.4
3325	Steel foundries, nec	4.1	4.3	4.6	4.8	4.8
333	Primary nonferrous metals	4.7	4.5	5.1	5.1	4.9
3334	Primary aluminum	1.8	1.7	2.2	2.2	2.0
335	Nonferrous rolling and drawing	40.1	40.9	42.7	41.6	42.2
3351	Copper rolling and drawing	3.7	3.7	4.0	4.0	3.7
3353	Aluminum sheet, plate, and foil	4.3	4.3	4.6	4.6	4.5
3357	Nonferrous wire drawing and insulating	23.3	24.0	24.6	23.6	24.8
336	Nonferrous foundries	15.1	15.7	16.1	15.9	16.3
3361	Aluminum foundries	7.2	7.3	8.0	8.0	8.1
34	FABRICATED METAL PRODUCTS	341.8	348.3	358.6	359.2	363.2
341	Metal cans and shipping containers	13.4	13.3	13.8	13.8	13.7
3411	Metal cans	11.8	11.6	11.9	11.9	11.8
342	Cutlery, hand tools, and hardware	60.3	61.4	60.9	60.5	61.1
3423, 5	Hand and edge tools, and hand saws and blades	16.7	16.9	17.3	18.0	17.6
3429	Hardware, nec	36.5	37.3	36.7	35.4	36.4
343	Plumbing and heating, except electric	17.5	18.3	19.1	19.6	19.7
344	Fabricated structural metal products	70.2	70.6	73.9	74.8	75.7
3441	Fabricated structural metal	7.0	7.0	7.6	7.9	8.0
3442	Metal doors, sash, and trim	23.8	24.0	24.2	24.4	24.7
3443	Fabricated plate work (boiler shops)	15.2	15.2	16.5	16.7	17.0
3444	Sheet metal work	14.5	14.6	15.5	15.5	15.8
345	Screw machine products, bolts, etc.	22.9	23.5	26.2	26.3	26.7
3451	Screw machine products	11.7	12.1	13.3	13.5	13.8
3452	Bolts, nuts, rivets, and washers	11.2	11.4	12.9	12.8	12.9
346	Metal forgings and stampings	57.0	59.4	58.2	58.6	58.7
3462	Iron and steel forgings	4.0	4.1	4.5	4.6	4.6
3465	Automotive stampings	14.2	15.7	14.1	13.3	14.1
3469	Metal stampings, nec	36.7	37.5	37.5	38.5	37.9
347	Metal services, nec	25.8	25.9	26.0	25.9	26.6
3471	Plating and polishing	18.2	18.1	17.7	17.9	18.2
3479	Metal coating and allied services	7.6	7.8	8.3	8.0	8.4
348	Ordnance and accessories, nec	16.8	16.6	17.7	17.2	17.1
349	Misc. fabricated metal products	57.9	59.3	62.8	62.5	63.9
3494	Valves and pipe fittings	21.0	21.5	23.4	23.3	23.7
3496	Misc. fabricated wire products	13.4	13.5	14.3	14.3	14.6
35	MACHINERY, EXCEPT ELECTRICAL	430.3	437.3	476.3	473.7	481.3
351	Engines and turbines	22.6	23.2	25.2	25.6	26.0
3511	Turbines and turbine generator sets	5.9	6.0	5.8	5.8	5.8
3519	Internal combustion engines, nec	16.7	17.2	19.4	19.8	20.2
352	Farm and garden machinery	22.4	23.8	27.0	25.2	26.7
3523	Farm machinery and equipment	17.4	18.1	20.9	20.4	21.1
353	Construction and related machinery	41.0	40.9	46.0	46.1	47.1
3531	Construction machinery	14.1	13.9	14.3	14.9	15.3
3533	Oil field machinery	9.5	9.5	11.8	11.7	11.9
354	Metalworking machinery	52.4	53.0	58.2	58.9	58.8
3541	Machine tools, metal cutting types	8.7	8.6	10.2	10.2	10.2
3544	Special dies, tools, jigs, and fixtures	14.4	14.6	15.8	15.7	15.4
3545	Machine tool accessories	12.7	12.8	14.1	14.5	14.6
355	Special industry machinery	29.5	29.6	31.4	31.4	31.5
3551	Food products machinery	6.0	6.2	6.6	6.6	6.7
3552	Textile machinery	5.0	5.1	5.3	5.4	5.5
3555	Printing trades machinery	7.3	7.2	7.4	7.4	7.3
356	General industrial machinery	57.4	58.5	62.8	62.1	62.7
3561	Pumps and pumping equipment	10.6	10.6	11.1	11.0	11.2
3562	Ball and roller bearings	12.8	13.3	13.8	13.6	13.6
357	Office and computing machines	122.5	125.2	139.2	139.7	141.5
3573	Electronic computing equipment	95.7	97.6	112.5	113.1	114.2
358	Refrigeration and service machinery	36.4	36.5	37.6	36.3	38.2
3585	Refrigeration and heating equipment	23.5	23.4	24.7	23.3	24.9
359	Misc. machinery, except electrical	46.1	46.6	48.9	48.4	48.8
3599	Machinery, except electrical, nec	36.3	36.0	37.5	37.1	37.1
36	ELECTRIC AND ELECTRONIC EQUIPMENT	838.6	852.6	893.7	887.5	909.4
361	Electric distributing equipment	42.9	43.1	44.2	42.4	45.4
3612	Transformers	19.0	19.3	19.2	19.2	20.5
3613	Switchgear and switchboard apparatus	23.9	23.8	25.0	23.2	24.9
362	Electrical industrial apparatus	94.0	95.6	101.5	95.5	98.1
3621	Motors and generators	52.9	54.1	56.4	51.1	54.6
3622	Industrial controls	28.6	28.7	30.5	30.2	29.1
363	Household appliances	62.6	63.5	58.7	59.3	61.7
3632	Household refrigerators and freezers	11.5	10.9	9.8	9.4	10.5
3633	Household laundry equipment	5.0	4.8	5.0	5.0	5.1
3634	Electric housewares and fans	28.1	29.7	25.9	26.5	27.2
364	Electric lighting and wiring equipment	100.2	103.0	105.3	102.3	106.8
3641	Electric lamps	23.5	24.0	24.5	21.4	24.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	44.6	46.0	48.3	48.7	49.0
365	Radio and TV receiving equipment	61.2	64.1	57.9	59.3	62.4
3651	Radio and TV receiving sets	46.3	48.0	45.4	46.7	47.4
366	Communication equipment	177.9	180.2	197.1	197.9	201.5
3661	Telephone and telegraph apparatus	72.2	72.9	78.8	79.4	80.2
3662	Radio and TV communication equipment	105.7	107.3	118.3	118.5	121.3
367	Electronic components and accessories	243.7	245.9	272.6	274.8	275.9
3671-3	Electronic tubes	15.8	15.9	17.0	16.7	17.0
3674	Semiconductors and related devices	81.8	82.3	93.0	93.6	94.0
3679	Electronic components, nec	100.1	101.3	111.4	112.7	112.9
369	Misc. electrical equipment and supplies	56.1	57.2	56.4	56.0	57.6
3694	Engine electrical equipment	27.1	27.8	25.9	24.7	25.1
TRANSPORTATION EQUIPMENT						
37		291.5	307.3	321.6	304.6	319.5
371	Motor vehicles and equipment	129.7	142.9	141.7	125.4	136.0
3711	Motor vehicles and car bodies	48.0	56.8	55.9	44.6	53.2
3713	Truck and bus bodies	5.3	5.4	6.2	4.7	5.7
3714	Motor vehicle parts and accessories	74.2	78.5	77.2	73.7	74.8
372	Aircraft and parts	93.7	96.0	113.4	112.5	115.0
3721	Aircraft	54.7	55.8	65.6	66.5	66.2
3724	Aircraft engines and engine parts	20.1	20.9	24.9	23.2	25.7
3728	Aircraft equipment, nec	18.9	19.3	22.9	22.8	23.1
373	Ship and boat building and repairing	22.8	23.4	22.9	22.4	23.8
3731	Ship building and repairing	14.3	14.7	15.3	15.2	16.2
374	Railroad equipment	5.7	5.7	6.4	6.5	6.4
376	Guided missiles, space vehicles, parts	18.3	18.4	20.8	21.0	21.1
3761	Guided missiles and space vehicles	15.2	15.2	17.2	17.4	17.4
379	Miscellaneous transportation equipment	15.2	15.2	9.6	9.9	10.1
INSTRUMENTS AND RELATED PRODUCTS						
38		280.3	281.9	293.0	296.1	295.1
381	Engineering and scientific instruments	20.1	20.2	22.5	22.5	22.7
382	Measuring and controlling devices	92.7	93.2	99.2	100.1	100.2
3822	Environmental controls	23.1	23.5	23.1	23.6	23.7
3823	Process control instruments	15.9	16.0	16.9	16.5	16.2
3825	Instruments to measure electricity	39.4	39.1	42.9	43.8	43.7
383	Optical instruments and lenses	9.6	9.8	10.8	11.3	11.6
384	Medical instruments and supplies	75.0	75.5	76.8	77.8	77.5
3841	Surgical and medical instruments	33.9	33.9	34.2	35.3	35.4
3842	Surgical appliances and supplies	32.6	33.0	34.4	34.5	34.4
385	Ophthalmic goods	25.0	25.5	25.2	26.1	26.2
386	Photographic equipment and supplies	38.2	37.6	40.8	39.7	38.1
387	Watches, clocks, and watchcases	19.7	20.1	17.7	18.6	18.8
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39		220.0	227.5	205.4	218.2	222.4
391	Jewelry, silverware, and plated ware	31.1	31.2	26.4	28.1	28.8
393	Musical instruments	11.9	12.3	10.5	10.9	10.8
394	Toys and sporting goods	67.7	71.8	62.1	68.7	71.2
3942, 4	Dolls, games, toys, and children's vehicles	38.5	41.8	32.6	38.6	40.6
3949	Sporting and athletic goods, nec	29.2	30.0	29.5	30.1	30.6
395	Pens, pencils, office and art supplies	20.8	21.1	22.7	22.9	23.4
396	Costume jewelry and notions	36.6	38.7	32.5	35.4	35.8
399	Miscellaneous manufactures	51.9	52.4	51.2	52.2	52.4
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20		545.6	556.7	510.9	553.7	558.4
201	Meat products	109.6	109.7	118.4	118.2	118.2
2011	Meat packing plants	27.2	27.3	28.3	28.8	28.7
2013	Sausages and other prepared meats	21.0	21.0	21.5	21.3	20.9
2016	Poultry dressing plants	55.1	55.0	61.6	61.2	61.5
202	Dairy products	38.4	37.9	38.8	39.1	38.0
2026	Fluid milk	19.7	19.3	19.5	19.5	19.2
203	Preserved fruits and vegetables	147.2	157.2	109.2	144.6	149.9
2032	Canned specialties	9.2	10.0	8.5	9.0	9.6
2033	Canned fruits and vegetables	74.6	77.2	39.3	72.2	75.6
2037	Frozen fruits and vegetables	23.8	29.1	25.7	26.5	27.8
204	Grain mill products	29.2	29.2	28.8	29.5	29.2
205	Bakery products	62.7	63.4	61.9	62.2	62.1
2051	Bread, cake, and related products	42.3	42.5	41.9	42.0	41.9
2052	Cookies and crackers	20.4	20.9	20.0	20.2	20.2
206	Sugar and confectionery products	39.0	43.1	39.2	43.4	45.0
207	Fats and oils	5.4	5.0	5.1	5.1	5.3
208	Beverages	36.7	36.1	36.7	37.7	38.6
2082	Malt beverages	5.9	5.8	6.4	6.5	6.6
2086	Bottled and canned soft drinks	16.7	16.5	17.6	17.8	17.8
209	Misc. foods and kindred products	77.4	75.1	72.8	73.9	72.1
TOBACCO MANUFACTURES						
21		26.3	28.7	21.1	25.7	27.6
211	Cigarettes	13.6	13.5	13.4	13.7	13.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
22	TEXTILE MILL PRODUCTS	425.7	427.8	414.0	423.7	424.2
221	Weaving mills, cotton	63.1	63.2	65.0	65.3	65.5
222	Weaving mills, synthetics	49.5	50.4	50.9	51.6	51.4
223	Weaving and finishing mills, wool	7.8	8.1	7.8	8.3	8.3
224	Narrow fabric mills	15.1	15.2	13.8	14.9	15.2
225	Knitting mills	157.7	157.1	146.1	150.9	149.6
2251	Women's hosiery, except socks	21.9	22.2	23.0	23.4	23.5
2252	Hosiery, nec	25.9	25.6	25.1	25.2	24.0
2253	Knit outerwear mills	60.5	59.8	51.2	54.5	54.4
2254	Knit underwear mills	25.0	25.3	24.0	25.2	25.2
2257	Circular knit fabric mills	14.0	14.1	13.2	12.9	12.8
226	Textile finishing, except wool	23.1	23.5	22.6	23.0	23.4
2261	Finishing plants, cotton	10.2	10.2	10.1	10.1	10.1
2262	Finishing plants, synthetic	6.0	6.4	6.1	6.2	6.4
227	Floor covering mills	25.1	25.1	25.0	25.0	25.2
228	Yarn and thread mills	63.5	64.3	62.2	64.6	65.0
2281	Yarn mills, except wool	40.1	40.6	39.9	41.5	41.6
2282	Throwing and winding mills	12.3	12.6	12.0	12.3	12.5
229	Miscellaneous textile goods	20.8	20.9	20.6	20.1	20.6
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,085.4	1,095.2	1,032.5	1,059.0	1,060.3
231	Men's and boys' suits and coats	71.6	71.1	66.3	66.2	64.4
232	Men's and boys' furnishings	312.0	312.2	300.4	311.2	309.8
2321	Men's and boys' shirts and nightwear	95.2	95.0	88.4	93.5	93.5
2327	Men's and boys' separate trousers	66.4	66.2	64.3	65.8	65.4
2328	Men's and boys' work clothing	80.3	81.3	83.3	85.9	84.2
233	Women's and misses' outerwear	379.4	384.5	361.1	369.9	371.1
2331	Women's and misses' blouses and waists	52.7	54.0	51.8	52.6	52.0
2335	Women's and misses' dresses	148.5	151.6	142.3	145.9	146.4
2337	Women's and misses' suits and coats	56.4	56.7	53.3	55.8	54.7
2339	Women's and misses' outerwear, nec	121.8	122.2	113.7	115.6	118.0
234	Women's and children's undergarments	80.2	81.3	73.9	78.9	78.7
2341	Women's and children's underwear	64.1	65.0	59.0	63.1	63.1
2342	Brassieres and allied garments	16.1	16.3	14.9	15.8	15.6
236	Children's outerwear	59.6	59.5	56.9	56.7	56.3
2361	Children's dresses and blouses	22.9	23.5	22.9	21.5	21.9
238	Misc. apparel and accessories	47.1	47.5	42.5	44.5	45.0
239	Misc. fabricated textile products	122.9	126.0	118.1	118.6	121.7
2391	Curtains and draperies	25.1	25.1	22.7	24.4	24.8
2392	House furnishings, nec	33.3	33.5	32.3	33.1	33.4
2396	Automotive and apparel trimmings	18.1	19.8	17.3	16.1	18.8
26	PAPER AND ALLIED PRODUCTS	161.4	161.1	164.8	166.4	165.5
261, 2.6	Paper and pulp mills	25.4	24.7	27.3	27.4	26.5
262	Paper mills, except building paper	22.6	21.9	24.3	24.5	23.6
263	Paperboard mills	6.2	6.0	6.6	6.6	6.4
264	Misc. converted paper products	78.4	78.4	79.0	80.3	79.9
265	Paperboard containers and boxes	51.4	52.0	51.9	52.1	52.7
27	PRINTING AND PUBLISHING	458.1	457.2	485.4	487.5	490.5
271	Newspapers	144.3	141.6	153.3	154.1	154.7
272	Periodicals	48.4	48.5	50.0	51.2	50.6
273	Books	52.5	51.3	55.0	54.1	53.9
274	Miscellaneous publishing	24.9	25.5	26.1	26.4	25.7
275	Commercial printing	119.1	122.0	127.3	127.6	131.7
2751	Commercial printing, letterpress	54.2	55.8	57.1	56.6	58.9
2752	Commercial printing, lithographic	60.1	61.3	65.1	65.4	67.2
276	Manifold business forms	14.0	14.2	15.6	15.7	15.9
278	Blankbooks and bookbinding	32.5	32.2	34.7	35.0	34.8
279	Printing trade services	8.4	8.4	9.2	9.2	9.2
28	CHEMICALS AND ALLIED PRODUCTS	263.6	263.7	275.7	275.5	274.3
281	Industrial inorganic chemicals	23.0	22.9	25.4	25.3	25.1
2819	Industrial inorganic chemicals, nec	15.7	15.6	16.8	16.7	16.6
282	Plastics materials and synthetics	45.4	44.9	47.7	47.9	47.2
2821	Plastics materials and resins	10.3	10.1	11.5	11.5	11.2
2824	Organic fibers, noncellulosic	26.4	26.2	27.0	26.8	26.6
283	Drugs	75.1	74.8	79.4	79.3	78.8
2834	Pharmaceutical preparations	64.1	63.6	67.4	67.3	67.2
284	Soap, cleaners, and toilet goods	56.2	57.4	55.6	55.8	56.5
2841	Soap and other detergents	9.3	9.5	9.3	9.2	9.2
2844	Toilet preparations	33.9	34.8	32.9	33.2	33.9
285	Paints and allied products	12.5	12.6	13.2	13.3	13.1
286	Industrial organic chemicals	24.0	23.8	24.7	24.5	24.3
2861,9	Gum, wood, and industrial organic chemicals, nec	19.4	19.1	19.9	19.6	19.3
287	Agricultural chemicals	8.9	9.1	10.1	10.0	10.2
289	Miscellaneous chemical products	18.5	18.2	19.6	19.4	19.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
29	PETROLEUM AND COAL PRODUCTS	25.4	25.0	27.6	27.7	27.6
291	Petroleum refining	20.6	20.2	22.3	22.3	22.3
30	RUBBER AND MISC. PLASTICS PRODUCTS	260.9	266.4	271.4	269.5	269.2
301	Tires and inner tubes	12.3	12.3	12.0	11.9	11.7
302	Rubber and plastics footwear	14.0	13.8	12.6	13.0	13.2
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.2	6.3	6.2	6.1	6.1
306	Fabricated rubber products, nec	39.5	39.7	41.0	40.7	40.0
307	Miscellaneous plastics products	188.9	194.3	199.6	197.8	198.2
31	LEATHER AND LEATHER PRODUCTS	158.3	157.4	135.4	148.8	148.0
311	Leather tanning and finishing	3.3	3.2	2.9	3.0	2.8
314	Footwear, except rubber	107.4	106.2	88.2	98.2	97.2
3143	Men's footwear, except athletic	40.4	40.8	33.6	35.5	35.2
3144	Women's footwear, except athletic	44.7	43.9	35.8	43.2	42.2
316	Luggage	10.0	10.0	9.6	9.6	9.6
317	Handbags and personal leather goods	23.2	23.3	22.3	24.5	24.6
-	TRANSPORTATION AND PUBLIC UTILITIES	1,132	1,154	1,227	1,232	1,256
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	33.5	55.6	36.3	35.2	65.1
411	Local and suburban transportation	9.0	9.3	10.7	10.8	11.5
412	Taxicabs	6.7	7.0	7.1	6.7	7.5
413	Intercity highway transportation	4.7	4.6	4.7	5.2	5.1
415	School buses	11.0	32.3	11.7	10.6	38.4
42	TRUCKING AND WAREHOUSING	145.5	145.9	157.3	158.4	158.2
421,3	Trucking and trucking terminals	129.4	129.5	141.0	141.6	141.0
422	Public warehousing	16.1	16.4	16.3	16.8	17.2
44	WATER TRANSPORTATION	18.2	18.1	20.4	20.3	20.2
45	TRANSPORTATION BY AIR	125.5	125.7	136.8	137.9	136.3
451,2	Air transportation	118.6	119.0	129.1	130.4	128.7
46	PIPE LINES, EXCEPT NATURAL GAS	2.0	2.0	2.2	2.2	2.3
47	TRANSPORTATION SERVICES	78.7	78.4	86.5	87.8	88.2
48	COMMUNICATION	574.4	574.8	619.9	621.5	618.6
481	Telephone communication	505.1	505.3	543.0	543.6	540.5
483	Radio and television broadcasting	53.9	54.1	59.8	60.5	60.7
49	ELECTRIC, GAS, AND SANITARY SERVICES	135.1	133.1	144.9	146.1	144.3
491	Electric services	59.4	59.1	64.8	65.4	65.1
492	Gas production and distribution	34.4	33.7	36.4	36.6	35.7
493	Combination utility services	32.1	31.3	33.7	34.0	33.4
495	Sanitary services	4.5	4.4	4.8	4.9	5.0
-	WHOLESALE AND RETAIL TRADE	8,274	8,383	8,603	8,635	8,740
50,51	WHOLESALE TRADE	1,237	1,247	1,310	1,316	1,323
50	WHOLESALE TRADE-DURABLE GOODS	675	677	726	728	728
501	Motor vehicles and automotive equipment	89.1	90.0	94.5	94.2	94.4
502	Furniture and home furnishings	35.7	35.9	37.9	37.9	38.6
503	Lumber and construction materials	29.5	29.5	32.2	32.3	32.4
504	Sporting goods, toys, and hobby goods	22.0	22.0	22.1	22.0	22.0
505	Metals and minerals, except petroleum	26.0	26.3	28.1	28.4	28.3
506	Electrical goods	108.2	109.3	116.1	115.9	116.7
507	Hardware, plumbing, and heating equipment	62.4	62.6	67.9	68.4	67.5
508	Machinery, equipment, and supplies	254.7	253.7	279.2	280.7	279.3
509	Miscellaneous durable goods	47.1	47.9	48.0	48.3	48.9
51	WHOLESALE TRADE-NONDURABLE GOODS	562	570	584	588	595
511	Paper and paper products	38.6	39.0	41.4	41.5	40.7
512	Drugs, proprietaries, and sundries	58.4	59.8	63.6	64.9	64.8
513	Apparel, piece goods, and notions	79.1	79.5	81.2	81.6	82.5
514	Groceries and related products	148.3	148.5	146.1	146.3	150.0
516	Chemicals and allied products	28.7	28.8	30.4	30.4	30.2
517	Petroleum and petroleum products	48.3	47.9	49.5	49.4	48.8
518	Beer, wine, and distilled beverages	19.5	19.4	21.0	21.1	21.1
519	Miscellaneous nondurable goods	109.2	109.4	117.6	118.5	120.0

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
52-59	RETAIL TRADE	7,037	7,136	7,293	7,319	7,417
52	BUILDING MATERIALS AND GARDEN SUPPLIES	147.8	148.5	153.4	152.4	155.1
521	Lumber and other building materials	60.8	60.4	62.8	62.3	62.8
525	Hardware stores	48.8	48.9	52.7	52.9	53.2
53	GENERAL MERCHANDISE STORES	1,513.2	1,548.2	1,462.2	1,461.4	1,497.5
531	Department stores	1,206.5	1,234.2	1,149.7	1,145.9	1,178.0
533	Variety stores	219.1	226.6	214.8	216.0	217.5
539	Misc. general merchandise stores	87.6	87.4	97.7	99.5	102.0
54	FOOD STORES	890.7	901.9	937.6	941.5	953.7
541	Grocery stores	746.5	751.5	793.9	798.0	806.7
542	Meat markets and freezer provisioners	14.5	14.5	17.3	17.1	17.2
546	Retail bakeries	71.4	75.1	72.7	72.7	74.7
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	302.8	303.8	312.8	315.9	315.4
551,2	New and used car dealers	121.7	122.0	125.5	125.2	124.6
553	Auto and home supply stores	46.1	46.8	47.5	47.8	47.5
554	Gasoline service stations	120.0	119.9	122.7	125.9	126.8
56	APPAREL AND ACCESSORY STORES	602.0	614.7	625.1	632.7	641.7
561	Men's and boys' clothing and furnishings	58.3	57.4	60.0	60.1	61.1
562	Women's ready-to-wear stores	291.9	301.6	303.0	304.3	310.5
565	Family clothing stores	122.0	122.2	127.1	129.9	130.7
566	Shoe stores	65.7	68.4	71.7	73.4	73.3
57	FURNITURE AND HOME FURNISHING STORES	183.4	185.7	197.3	196.3	200.7
571	Furniture and home furnishings	124.9	125.9	127.9	127.7	129.2
572	Household appliance stores	22.6	23.3	24.6	24.2	24.4
573	Radio, television, and music stores	35.9	36.5	44.8	44.4	47.1
58	EATING AND DRINKING PLACES	2,469.8	2,484.7	2,636.5	2,651.2	2,663.1
59	MISCELLANEOUS RETAIL	926.9	948.5	967.9	967.3	989.7
591	Drug stores and proprietary stores	286.8	290.2	309.9	310.0	312.1
592	Liquor stores	26.5	27.2	33.5	33.7	34.5
594	Miscellaneous shopping goods stores	316.1	325.3	333.6	331.6	343.1
596	Nonstore retailers	152.9	157.0	139.0	141.9	147.8
598	Fuel and ice dealers	20.8	21.3	21.6	21.6	21.8
599	Retail stores, nec	103.7	106.1	110.6	109.0	110.7
-	FINANCE, INSURANCE, AND REAL ESTATE	2,757	2,749	2,915	2,932	2,916
60	BANKING	999.0	995.7	1,053.8	1,060.5	1,053.7
602	Commercial and stock savings banks	920.1	917.1	969.7	975.9	969.7
61	CREDIT AGENCIES OTHER THAN BANKS	337.1	337.8	363.5	365.6	365.0
612	Savings and loan associations	161.2	161.3	174.9	175.9	176.0
614	Personal credit institutions	114.3	114.9	123.9	124.2	124.1
62	SECURITY, COMMODITY BROKERS, AND SERVICES	74.0	74.2	81.3	82.0	82.4
621	Security brokers and dealers	58.5	58.5	64.2	64.9	65.3
63	INSURANCE CARRIERS	702.1	700.9	736.5	738.3	736.1
631	Life insurance	272.1	270.2	281.2	280.9	278.9
632	Medical service and health insurance	98.4	98.3	99.8	100.2	100.2
633	Fire, marine, and casualty insurance	281.3	282.6	303.7	304.7	304.9
64	INSURANCE AGENTS, BROKERS, AND SERVICE	249.5	249.5	263.9	267.6	264.6
65	REAL ESTATE	326.2	322.6	342.8	344.4	341.2
651	Real estate operators and lessors	131.6	130.5	135.8	136.4	134.2
653	Real estate agents and managers	145.7	143.7	158.3	159.3	158.1
655	Subdividers and developers	32.2	32.0	31.1	31.3	31.6
66	COMBINED REAL ESTATE, INSURANCE, ETC	17.2	17.0	17.0	17.0	16.7
67	HOLDING AND OTHER INVESTMENT OFFICES	51.6	51.0	56.2	56.8	56.6
-	SERVICES	9,445	9,478	9,979	10,013	10,025
70	HOTELS AND OTHER LODGING PLACES	592.1	553.0	636.2	642.5	601.1
701	Hotels, motels, and tourist courts	549.4	529.7	593.3	595.5	576.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1978	Sept. 1978	July 1979	Aug. 1979	Sept. 1979
72	PERSONAL SERVICES	593.9	604.2	597.6	600.0	603.6
721	Laundry, cleaning, and garment services	221.0	222.8	220.5	218.0	219.7
723	Beauty shops	245.0	248.5	247.4	249.8	247.5
726	Funeral service and crematories	18.0	17.9	19.1	18.9	19.0
73	BUSINESS SERVICES	1,122.0	1,134.5	1,209.9	1,227.9	1,249.6
731	Advertising	65.2	65.4	69.0	69.3	70.0
732	Credit reporting and collection	58.3	58.4	56.9	56.5	55.4
733	Mailing, reproduction, stenographic	48.8	51.1	50.5	49.7	53.2
734	Services to buildings	163.1	162.6	174.2	181.3	185.9
736	Personnel supply services	262.8	268.9	281.9	291.0	298.8
737	Computer and data processing services	103.7	105.3	122.0	122.1	123.8
75	AUTO REPAIR, SERVICES, AND GARAGES	89.5	91.1	96.4	93.9	94.2
753	Automotive repair shops	41.3	42.3	45.2	42.5	42.2
76	MISCELLANEOUS REPAIR SERVICES	48.8	49.7	58.5	58.3	59.5
78	MOTION PICTURES	85.7	82.5	84.8	85.3	82.4
781	Motion picture production and services	22.4	22.3	21.3	22.4	23.3
783	Motion picture theaters	57.3	54.2	57.5	57.0	53.1
79	AMUSEMENT AND RECREATION SERVICES	320.6	304.0	333.1	325.5	301.3
80	HEALTH SERVICES	3,934.8	3,940.0	4,123.2	4,139.1	4,139.6
801	Offices of physicians	539.3	537.5	563.0	565.8	563.5
802	Offices of dentists	255.3	257.8	269.7	271.9	272.8
805	Nursing and personal care facilities	831.8	831.5	880.4	887.5	884.3
806	Hospitals	2,065.4	2,068.5	2,146.7	2,149.9	2,152.8
81	LEGAL SERVICES	311.7	307.7	330.5	332.1	331.3
82	EDUCATIONAL SERVICES	431.2	504.2	442.2	441.5	514.7
821	Elementary and secondary schools	119.1	140.8	123.8	124.2	145.2
822	Colleges and universities	254.9	304.0	255.9	255.5	305.9
83	SOCIAL SERVICES	730.8	722.8	789.7	786.6	764.1
89	MISCELLANEOUS SERVICES	262.4	259.5	286.6	290.0	289.9
891	Engineering and architectural services	93.7	92.1	104.3	104.5	103.9
893	Accounting, auditing, and bookkeeping	115.1	115.5	125.3	127.6	128.5
-	GOVERNMENT	6,385	6,949	6,724	6,723	7,118
-	FEDERAL GOVERNMENT	886	865	895	899	866
-	STATE AND LOCAL GOVERNMENT	5,499	6,084	5,829	5,824	6,252
-	State government	1,401.6	1,469.8	1,418.6	1,422.1	1,518.3
-	Hospitals	311.0	310.8	327.2	328.3	336.9
-	State education	479.8	570.8	509.6	508.1	602.3
-	General administration including executive, legislative, and judicial functions	414.6	400.3	385.5	386.7	385.7
-	Local government	4,097.8	4,614.1	4,410.7	4,402.2	4,733.9
-	Transportation and public utilities	77.1	77.9	88.5	88.3	89.7
-	Hospitals	396.7	396.4	418.7	422.5	423.6
-	Local education	2,426.1	3,052.1	2,679.4	2,681.6	3,090.2
-	General administration including executive, legislative, and judicial functions	994.4	896.1	1,000.3	995.2	925.7

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	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^p	Nov. p
TOTAL	87,840	88,133	88,433	88,700	89,039	89,036	89,398	89,626	89,713	89,762	89,803	89,967	90,185
GOODS-PRODUCING	26,120	26,272	26,382	26,448	26,627	26,565	26,651	26,674	26,723	26,599	26,593	26,559	26,604
MINING	919	922	927	937	940	940	944	949	956	968	973	980	986
CONSTRUCTION	4,429	4,469	4,497	4,486	4,614	4,559	4,648	4,662	4,688	4,674	4,671	4,693	4,731
MANUFACTURING	20,772	20,881	20,958	21,025	21,073	21,066	21,059	21,063	21,079	20,957	20,949	20,886	20,887
DURABLE GOODS	12,510	12,583	12,640	12,715	12,751	12,752	12,739	12,760	12,786	12,714	12,737	12,640	12,614
Lumber and wood products	760	765	768	768	769	761	762	757	753	752	758	760	752
Furniture and fixtures	492	494	497	496	493	490	487	485	488	484	480	482	485
Stone, clay, and glass products	704	710	709	712	718	714	715	715	711	710	708	708	708
Primary metal industries	1,242	1,247	1,250	1,256	1,259	1,260	1,254	1,257	1,256	1,245	1,236	1,225	1,227
Fabricated metal products	1,706	1,718	1,725	1,733	1,732	1,732	1,730	1,737	1,730	1,714	1,716	1,723	1,729
Machinery, except electrical	2,382	2,404	2,419	2,437	2,450	2,466	2,471	2,484	2,500	2,492	2,496	2,451	2,449
Electric and electronic equipment	2,037	2,050	2,065	2,079	2,093	2,101	2,106	2,124	2,131	2,092	2,117	2,122	2,124
Transportation equipment	2,057	2,063	2,069	2,094	2,094	2,084	2,077	2,057	2,073	2,079	2,086	2,024	1,995
Instruments and related products	670	674	679	682	685	689	688	693	694	695	692	696	695
Miscellaneous manufacturing ind.	460	458	459	458	458	455	449	451	450	451	448	449	450
NONDURABLE GOODS	8,262	8,298	8,318	8,310	8,322	8,314	8,320	8,303	8,293	8,243	8,212	8,246	8,273
Food and kindred products	1,725	1,736	1,735	1,729	1,736	1,728	1,725	1,720	1,707	1,696	1,691	1,706	1,716
Tobacco manufactures	69	69	68	68	69	69	70	69	68	64	65	65	60
Textile mill products	897	899	900	899	897	892	893	892	892	886	884	886	889
Apparel and other textile products	1,330	1,333	1,339	1,327	1,324	1,325	1,324	1,312	1,324	1,302	1,294	1,298	1,298
Paper and allied products	700	703	706	711	716	717	714	715	718	717	714	715	715
Printing and publishing	1,212	1,218	1,225	1,229	1,232	1,234	1,236	1,242	1,250	1,247	1,245	1,253	1,261
Chemicals and allied products	1,102	1,106	1,109	1,108	1,108	1,111	1,114	1,119	1,116	1,111	1,110	1,114	1,118
Petroleum and coal products	210	211	211	212	213	213	213	212	212	213	215	216	219
Rubber and misc. plastic products	763	770	774	779	780	781	784	775	777	764	751	750	753
Leather and leather products	254	253	251	248	247	244	247	247	229	243	243	243	244
SERVICE-PRODUCING	61,720	61,861	62,051	62,252	62,412	62,471	62,747	62,952	62,990	63,163	63,210	63,408	63,581
TRANSPORTATION AND PUBLIC UTILITIES	5,038	5,054	5,071	5,094	5,116	5,024	5,130	5,190	5,169	5,194	5,180	5,217	5,233
WHOLESALE AND RETAIL TRADE	19,829	19,858	19,965	20,016	20,054	20,088	20,129	20,116	20,122	20,126	20,169	20,244	20,285
WHOLESALE TRADE	5,054	5,077	5,102	5,118	5,134	5,138	5,156	5,180	5,182	5,185	5,190	5,208	5,238
RETAIL TRADE	14,775	14,781	14,863	14,898	14,920	14,950	14,973	14,936	14,940	14,941	14,979	15,036	15,047
FINANCE, INSURANCE, AND REAL ESTATE	4,827	4,847	4,868	4,884	4,899	4,915	4,936	4,958	4,972	5,003	4,997	5,018	5,056
SERVICES	16,554	16,630	16,670	16,763	16,833	16,880	16,954	17,051	17,092	17,141	17,191	17,260	17,334
GOVERNMENT	15,472	15,472	15,477	15,495	15,510	15,564	15,598	15,637	15,635	15,699	15,673	15,669	15,673
FEDERAL	2,757	2,734	2,758	2,757	2,757	2,758	2,770	2,788	2,785	2,813	2,762	2,770	2,771
STATE AND LOCAL	12,715	12,738	12,719	12,738	12,753	12,806	12,828	12,849	12,850	12,886	12,911	12,899	12,902

^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	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL	35,577	35,748	35,951	36,074	36,271	36,385	36,517	36,669	36,789	36,916	37,102	37,262	37,144
GOODS-PRODUCING	6,684	6,735	6,781	6,827	6,865	6,877	6,899	6,920	6,939	6,960	6,971	6,907	6,906
MINING	80	81	82	83	84	85	87	87	89	91	92	94	94
CONSTRUCTION	340	342	343	345	350	353	357	362	367	374	379	380	383
MANUFACTURING	6,264	6,312	6,356	6,399	6,431	6,439	6,455	6,471	6,483	6,495	6,500	6,433	6,429
DURABLE GOODS	2,927	2,960	2,985	3,012	3,029	3,053	3,069	3,082	3,087	3,102	3,109	3,068	3,082
Lumber and wood products	108	109	110	112	112	113	114	114	114	113	113	113	114
Furnitures and fixtures	143	144	145	146	146	146	145	145	144	145	146	145	143
Stone, clay, and glass products	129	130	130	132	131	132	134	134	134	135	134	133	134
Primary metal industries ¹	125	126	127	129	130	131	131	134	134	138	137	135	134
Fabricated metal products	345	349	352	355	357	360	361	361	362	363	363	360	359
Machinery, except electrical	438	444	446	453	456	460	464	469	473	473	479	478	482
Electric and electronic equipment	842	849	855	863	870	877	884	887	892	902	907	888	898
Transportation equipment	300	309	315	318	320	326	326	326	326	323	321	307	312
Instruments and related products	281	282	286	286	289	291	293	294	295	296	296	296	295
Miscellaneous manufacturing ind.	216	218	219	218	218	217	217	218	213	214	213	213	211
NONDURABLE GOODS	3,337	3,352	3,371	3,387	3,402	3,386	3,386	3,389	3,396	3,393	3,391	3,365	3,347
Food and kindred products	486	493	503	509	512	507	509	508	511	511	502	495	488
Tobacco manufactures	25	26	25	26	25	25	25	26	26	25	24	23	24
Textile mill products	424	424	424	425	425	424	423	422	422	424	422	422	421
Apparel and other textile products	1,083	1,081	1,080	1,081	1,087	1,075	1,071	1,072	1,072	1,062	1,073	1,056	1,049
Paper and allied products	159	159	160	161	163	163	165	165	164	164	165	164	164
Printing and publishing	458	462	467	470	474	476	477	479	479	482	487	488	491
Chemicals and allied products	260	262	264	266	268	268	268	269	271	273	274	271	271
Petroleum and coal products	25	25	25	25	25	25	25	26	26	27	27	27	28
Rubber and misc. plastics products	260	264	269	271	271	273	273	273	275	275	279	272	263
Leather and leather products	157	156	154	153	152	150	150	149	150	150	138	147	148
SERVICE-PRODUCING	28,893	29,013	29,170	29,247	29,406	29,508	29,618	29,749	29,850	29,956	30,131	30,355	30,238
TRANSPORTATION AND PUBLIC UTILITIES	1,149	1,163	1,170	1,179	1,195	1,205	1,209	1,202	1,214	1,233	1,236	1,243	1,251
WHOLESALE AND RETAIL TRADE ..	8,357	8,400	8,449	8,423	8,526	8,552	8,595	8,627	8,673	8,670	8,684	8,695	8,713
WHOLESALE TRADE	1,242	1,262	1,271	1,279	1,286	1,290	1,297	1,297	1,307	1,310	1,317	1,317	1,318
RETAIL TRADE	7,115	7,138	7,178	7,144	7,240	7,262	7,298	7,330	7,366	7,360	7,367	7,378	7,395
FINANCE, INSURANCE, AND REAL ESTATE	2,749	2,767	2,787	2,802	2,817	2,826	2,837	2,850	2,862	2,880	2,892	2,912	2,916
SERVICES	9,469	9,512	9,581	9,640	9,672	9,710	9,754	9,798	9,846	9,898	9,939	10,003	10,015
GOVERNMENT	7,169	7,171	7,183	7,203	7,196	7,215	7,223	7,272	7,255	7,275	7,380	7,502	7,343
FEDERAL	877	877	874	866	863	862	862	861	866	875	874	891	878
STATE AND LOCAL	6,292	6,294	6,309	6,337	6,333	6,353	6,361	6,411	6,389	6,400	6,506	6,611	6,465

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	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. P	Nov. P
TOTAL PRIVATE	59,248	59,470	59,688	59,883	60,161	60,051	60,326	60,495	60,544	60,475	60,528	60,669	60,823
GOODS-PRODUCING	19,163	19,289	19,372	19,409	19,555	19,475	19,542	19,537	19,560	19,415	19,416	19,368	19,384
MINING	695	697	700	707	707	708	708	709	713	725	730	734	735
CONSTRUCTION	3,535	3,571	3,587	3,574	3,695	3,633	3,722	3,732	3,757	3,734	3,729	3,744	3,772
MANUFACTURING	14,933	15,021	15,085	15,128	15,153	15,134	15,112	15,096	15,090	14,956	14,957	14,890	14,877
DURABLE GOODS	8,983	9,042	9,085	9,138	9,158	9,146	9,119	9,123	9,124	9,044	9,066	8,965	8,928
Lumber and wood products	649	654	656	655	657	649	649	646	643	642	646	648	638
Furniture and fixtures	404	406	408	406	404	401	397	395	398	394	392	394	395
Stone, clay, and glass products	559	563	562	564	569	563	564	565	560	558	557	556	557
Primary metal industries	980	985	987	992	995	995	987	991	988	976	970	959	959
Fabricated metal products	1,296	1,306	1,310	1,317	1,315	1,314	1,310	1,316	1,309	1,291	1,295	1,298	1,302
Machinery, except electrical	1,567	1,585	1,595	1,610	1,615	1,625	1,628	1,632	1,641	1,628	1,637	1,599	1,604
Electric and electronic equipment	1,338	1,346	1,360	1,369	1,378	1,384	1,384	1,393	1,395	1,359	1,375	1,380	1,376
Transportation equipment	1,428	1,434	1,439	1,456	1,455	1,446	1,438	1,417	1,426	1,431	1,433	1,370	1,337
Instruments and related products	412	414	418	421	422	423	421	424	422	421	420	420	419
Miscellaneous manufacturing ind.	350	349	350	348	348	346	341	344	342	344	341	341	341
NONDURABLE GOODS	5,950	5,979	6,000	5,990	5,995	5,988	5,993	5,973	5,966	5,912	5,891	5,925	5,949
Food and kindred products	1,176	1,189	1,191	1,184	1,191	1,187	1,184	1,181	1,170	1,157	1,153	1,168	1,175
Tobacco manufactures	55	55	55	54	55	56	56	55	54	50	52	52	46
Textile mill products	783	783	785	783	781	777	778	777	778	771	769	772	776
Apparel and other textile products	1,142	1,142	1,149	1,137	1,131	1,131	1,133	1,122	1,130	1,110	1,104	1,109	1,109
Paper and allied products	526	530	532	537	542	543	541	541	547	545	543	544	544
Printing and publishing	681	685	690	694	696	696	700	701	707	705	703	708	715
Chemicals and allied products	632	635	637	636	635	636	636	640	639	634	635	638	643
Petroleum and coal products	138	138	138	139	139	140	139	139	138	139	140	141	144
Rubber and misc. plastics products	599	606	609	614	614	614	616	607	609	595	585	586	589
Leather and leather products	218	216	214	212	211	208	210	210	194	206	207	207	208
SERVICE-PRODUCING	40,085	40,181	40,316	40,474	40,606	40,576	40,784	40,958	40,984	41,060	41,112	41,301	41,439
TRANSPORTATION AND PUBLIC UTILITIES	4,228	4,235	4,248	4,268	4,283	4,197	4,293	4,351	4,333	4,348	4,337	4,372	4,391
WHOLESALE AND RETAIL TRADE	17,468	17,487	17,578	17,618	17,648	17,662	17,691	17,689	17,681	17,689	17,721	17,790	17,814
WHOLESALE TRADE	4,157	4,175	4,194	4,206	4,222	4,221	4,237	4,257	4,255	4,256	4,259	4,280	4,299
RETAIL TRADE	13,311	13,312	13,384	13,412	13,426	13,441	13,454	13,432	13,426	13,433	13,462	13,510	13,515
FINANCE, INSURANCE, AND REAL ESTATE	3,676	3,690	3,705	3,716	3,729	3,743	3,756	3,777	3,788	3,804	3,794	3,805	3,822
SERVICES	14,713	14,769	14,785	14,872	14,946	14,974	15,044	15,141	15,182	15,219	15,260	15,334	15,412

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
1976				
January.....	77.0	85.8	86.9	84.0
February.....	70.3	84.3	85.8	83.7
March.....	69.2	82.3	79.4	85.2
April.....	70.6	73.8	72.4	77.6
May.....	59.6	64.8	67.7	82.6
June.....	51.7	62.5	71.5	80.2
July.....	59.0	56.4	60.8	78.2
August.....	54.4	68.3	66.9	77.3
September.....	68.9	55.8	68.6	78.8
October.....	47.4	66.9	73.8	79.4
November.....	65.1	62.2	77.9	80.8
December.....	66.0	78.8	78.2	82.6
1977				
January.....	73.0	80.2	86.3	80.5
February.....	67.2	84.3	84.6	81.4
March.....	72.4	82.6	84.0	82.8
April.....	71.5	81.7	82.3	84.6
May.....	70.3	76.5	79.1	85.2
June.....	65.1	72.7	77.6	86.6
July.....	70.3	70.3	75.3	84.9
August.....	57.8	70.9	76.7	83.1
September.....	67.2	67.7	79.7	83.1
October.....	64.2	76.2	80.5	82.8
November.....	73.3	79.7	84.0	81.1
December.....	75.3	79.4	82.3	82.0
1978				
January.....	68.3	80.2	83.1	81.4
February.....	69.2	75.6	79.1	83.1
March.....	69.5	77.3	77.6	81.1
April.....	68.0	69.8	73.5	82.0
May.....	57.8	67.2	72.7	81.7
June.....	66.6	66.6	71.2	82.3
July.....	64.5	69.5	73.0	81.4
August.....	60.5	67.2	77.3	78.2
September.....	62.5	71.2	79.7	77.9
October.....	73.0	78.2	82.3	73.5
November.....	75.9	81.1	82.3	76.2
December.....	74.4	82.3	80.5	71.8
1979				
January.....	70.3	76.5	74.1	71.8
February.....	65.1	72.1	67.4	70.6
March.....	60.5	57.8	61.9	63.7
April.....	44.8	55.2	58.1	63.7p
May.....	54.7	51.5	50.3	61.3p
June.....	57.0	58.4	46.8	
July.....	61.6	56.7	56.7p	
August.....	48.8	52.0	58.7p	
September.....	46.8	51.2p		
October.....	67.7p	66.3p		
November.....	65.4p			
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1978	SPP. 1979	OCT. 1979P	OCT. 1978	SPP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SPP. 1979	OCT. 1979P
1 ALABAMA	1,359.5	1,359.0	1,362.8	16.1	16.2	16.0	82.8	80.7	79.1	369.0	361.7	362.5
2 Birmingham	356.1	358.4	359.1	9.1	9.2	9.1	24.3	23.0	22.6	70.2	68.4	68.1
3 Huntsville	119.5	120.8	120.9	(1)	(1)	(1)	4.5	4.5	4.5	35.4	35.2	35.3
4 Mobile	148.0	143.7	145.5	(1)	(1)	(1)	11.4	12.0	13.0	30.6	28.7	20.4
5 Montgomery	104.6	107.6	107.7	(1)	(1)	(1)	6.7	8.3	8.4	15.9	16.3	16.3
6 Tuscaloosa	40.6	49.3	50.7	1.1	1.4	1.4	3.1	3.1	3.1	8.9	9.1	9.3
7 ALASKA	166.1	172.0	(*)	5.4	5.2	(*)	13.3	12.6	(*)	11.2	14.3	(*)
8 ARIZONA	910.8	955.0	971.6	19.6	21.9	22.1	74.8	78.7	78.3	130.4	142.8	145.6
9 Phoenix	566.0	592.2	604.7	.2	.2	.2	47.7	51.0	50.5	95.1	104.6	106.6
10 Tucson	165.9	172.9	176.2	5.8	7.2	7.2	13.3	14.2	14.5	16.7	19.0	19.3
11 ARKANSAS	737.5	751.6	753.6	4.8	5.3	5.3	37.9	40.0	38.5	217.2	214.4	216.1
12 Fayetteville-Springdale	62.8	64.1	64.5	(1)	(1)	(1)	3.1	3.3	3.2	18.6	18.8	19.1
13 Fort Smith	67.8	66.6	66.4	.8	.8	.9	3.2	3.3	3.2	24.7	22.9	22.9
14 Little Rock-North Little Rock	173.0	178.6	179.5	(1)	(1)	(1)	9.5	9.9	9.7	31.1	31.6	31.5
15 Pine Bluff	31.5	31.8	32.0	(1)	(1)	(1)	2.3	2.3	2.3	6.2	6.3	6.3
16 CALIFORNIA	9,404.0	9,764.0	9,811.6	37.6	39.4	39.4	448.7	461.2	458.5	1,925.1	2,029.4	2,054.4
17 Anaheim-Santa Ana-Garden Grove	770.5	807.4	817.6	2.3	2.3	2.3	50.6	50.7	50.4	202.2	213.9	215.1
18 Bakersfield	121.8	125.0	126.3	10.2	10.5	10.5	7.2	7.2	7.0	9.6	9.9	9.9
19 Fresno	178.5	198.1	197.4	.9	.9	.9	11.9	13.5	13.3	24.5	26.4	25.7
20 Los Angeles-Long Beach	3,501.1	3,581.6	3,613.7	11.4	11.7	11.7	114.0	117.6	117.1	899.3	926.8	933.9
21 Modesto	87.0	98.0	90.4	.1	.1	.1	6.2	6.7	6.7	19.7	29.3	20.6
22 Oxnard-Simi Valley-Ventura	136.6	139.9	141.6	2.3	2.5	2.5	7.2	7.8	7.8	21.4	22.2	22.2
23 Riverside-San Bernardino-Ontario	416.3	432.2	436.8	2.3	2.5	2.5	29.3	30.9	31.0	65.0	67.5	68.1
24 Sacramento	383.5	405.7	403.3	.4	.4	.4	24.0	26.6	26.8	27.1	32.4	28.1
25 Salinas-Seaside-Monterey	86.3	86.6	86.8	.6	.6	.6	3.8	3.5	3.6	10.5	10.0	10.1
26 San Diego	610.2	638.7	640.0	.7	.7	.7	41.5	41.6	41.5	91.9	99.6	100.2
27 San Francisco-Oakland	1,511.9	1,543.6	1,541.3	2.0	2.0	2.0	73.3	73.7	74.2	202.1	208.1	205.3
28 San Jose	609.8	637.5	636.9	.1	.1	.2	25.4	26.1	26.0	205.6	231.0	224.6
29 Santa Barbara-Santa Maria-Lompoc	114.0	115.4	116.4	1.1	1.1	1.1	4.9	5.2	5.2	15.3	15.4	16.0
30 Santa Rosa	84.5	87.8	88.4	.4	.5	.5	5.6	5.7	5.7	13.5	14.9	15.0
31 Stockton	117.5	126.5	122.7	.1	.1	.1	6.0	6.6	6.5	20.5	26.2	21.4
32 Vallejo-Fairfield-Napa	97.6	98.0	98.7	.3	.3	.3	5.2	5.3	5.2	10.8	11.2	10.9
33 COLORADO	1,166.0	1,198.1	1,206.9	28.3	31.8	31.6	78.9	82.5	84.5	172.6	182.0	182.3
34 Denver-Boulder	737.7	764.4	767.7	15.5	17.8	17.6	47.6	52.4	53.5	117.4	123.6	123.5
35 CONNECTICUT	1,377.6	1,409.8	1,414.5	(2)	(2)	(2)	53.0	54.0	54.0	425.5	429.4	430.5
36 Bridgeport	163.5	166.7	167.1	(2)	(2)	(2)	5.8	6.6	6.4	64.3	66.7	66.3
37 Hartford	377.5	398.0	390.7	(2)	(2)	(2)	13.5	14.0	14.0	89.7	93.7	94.0
38 New Britain	61.5	60.2	62.8	(2)	(2)	(2)	2.4	2.4	2.4	28.9	27.5	29.7
39 New Haven-West Haven	190.2	192.0	191.0	(2)	(2)	(2)	6.5	6.8	6.6	45.5	43.7	43.6
40 Stamford	103.5	107.6	107.4	(2)	(2)	(2)	5.1	5.2	5.2	29.8	30.8	30.7
41 Waterbury	87.8	90.9	89.1	(2)	(2)	(2)	3.5	3.8	3.7	32.9	33.2	32.9
42 DELAWARE	252.0	248.4	250.5	(1)	(1)	(1)	16.9	15.0	15.0	70.5	69.5	69.1
43 Wilmington	220.5	217.3	219.4	(1)	(1)	(1)	16.0	14.1	14.3	65.1	64.2	64.0
44 DISTRICT OF COLUMBIA	589.1	592.9	595.5	(1)	(1)	(1)	15.5	15.3	15.3	15.2	15.3	15.4
45 Washington SMSA	1,467.2	1,478.9	1,482.7	(1)	(1)	(1)	84.0	80.6	78.3	51.9	53.7	53.6
46 FLORIDA	3,144.8	3,259.4	3,293.8	9.5	9.7	9.7	214.4	235.1	237.1	429.1	450.1	453.9
47 Daytona Beach	69.9	72.4	72.1	(1)	(1)	(1)	4.4	4.7	4.7	7.5	8.0	8.1
48 Fort Lauderdale-Hollywood	287.0	295.9	298.6	(1)	(1)	(1)	23.2	25.1	24.7	36.5	39.0	39.3
49 Gainesville	60.6	60.4	61.2	(1)	(1)	(1)	3.2	3.9	4.1	3.9	3.8	3.8
50 Jacksonville	280.1	286.0	285.8	(1)	(1)	(1)	15.7	15.8	15.8	31.8	32.5	32.4
51 Miami	646.7	666.2	666.6	(1)	(1)	(1)	32.8	36.6	37.4	96.1	97.0	98.0
52 Orlando	251.2	262.5	263.7	(1)	(1)	(1)	15.9	18.1	18.7	32.4	34.6	34.7
53 Pensacola	92.9	94.6	95.3	(1)	(1)	(1)	6.5	6.8	6.8	13.1	13.0	12.9
54 Sarasota	60.6	62.0	62.7	(1)	(1)	(1)	7.0	6.4	6.5	6.3	6.7	6.6
55 Tallahassee	66.6	69.6	71.3	(1)	(1)	(1)	3.3	3.4	3.3	2.5	2.4	2.4
56 Tampa-St. Petersburg	478.8	486.6	491.3	(1)	(1)	(1)	32.4	32.4	32.8	68.0	69.1	70.3
57 West Palm Beach-Boca Raton	173.2	180.5	183.3	(1)	(1)	(1)	16.0	17.0	17.3	23.7	26.7	26.9
58 GEORGIA	2,010.4	2,025.5	2,028.8	7.6	7.8	7.8	100.4	95.1	94.8	515.9	521.7	518.1
59 Albany	42.1	43.7	44.1	(1)	(1)	(1)	3.4	3.6	3.5	10.6	11.5	11.5
60 Atlanta	859.5	867.3	870.0	(1)	(1)	(1)	39.6	37.6	37.2	137.1	138.9	137.4
61 Augusta	120.4	121.3	121.5	(1)	(1)	(1)	7.4	6.8	6.8	36.2	36.3	36.4
62 Columbus	80.5	82.2	81.7	(1)	(1)	(1)	5.1	4.6	4.3	20.4	20.7	20.8
63 Macon	96.4	94.6	94.5	(1)	(1)	(1)	5.0	4.3	4.3	15.6	14.8	14.6

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			
OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	
71.1	71.1	73.1	274.1	276.7	276.9	58.2	58.7	58.1	194.7	201.3	199.5	294.6	293.6	297.8	1
28.5	28.9	28.9	85.0	88.0	88.2	22.7	23.2	23.1	63.3	65.2	65.1	53.0	52.5	54.0	2
2.6	2.7	2.7	22.2	23.1	23.1	3.6	3.5	3.5	17.5	18.1	18.0	33.7	33.8	33.9	3
10.9	10.4	13.4	36.7	36.1	36.7	7.0	7.2	7.2	26.7	25.9	26.2	24.7	23.4	23.6	4
4.9	5.1	5.1	24.5	24.4	24.3	5.9	6.1	6.1	18.6	19.1	19.1	28.1	28.4	28.5	5
1.8	1.6	1.6	9.7	9.4	9.5	1.7	1.7	1.7	6.0	6.1	6.1	17.3	16.9	17.3	6
15.0	17.8	(*)	29.2	29.4	(*)	7.9	7.7	(*)	28.0	29.9	(*)	55.2	55.1	(*)	7
45.8	48.4	47.0	218.5	230.7	235.6	50.7	53.2	53.3	176.1	185.1	188.2	198.9	194.2	201.5	8
27.6	28.8	27.4	146.4	154.4	158.1	38.8	40.4	40.5	112.2	116.7	120.0	98.0	96.1	101.4	9
9.2	9.7	8.7	37.2	38.1	39.2	7.2	7.8	7.8	33.8	35.3	35.9	43.7	42.6	43.6	10
43.0	44.3	46.0	162.2	165.8	165.2	30.7	32.1	32.0	106.0	113.5	112.9	135.7	136.2	137.6	11
3.3	3.4	3.4	14.9	15.1	15.1	2.2	2.4	2.3	8.3	8.9	9.0	12.4	12.2	12.4	12
3.3	3.4	3.5	14.6	14.7	14.5	2.4	2.6	2.6	11.1	11.3	11.2	7.7	7.6	7.6	13
12.4	12.4	12.8	40.8	42.0	42.1	12.0	12.3	12.3	31.7	34.4	34.7	35.5	36.0	36.4	14
3.7	3.9	4.0	6.2	6.0	6.0	1.2	1.3	1.3	4.7	4.9	4.9	7.2	7.1	7.2	15
521.0	541.4	538.1	2,190.0	2,296.4	2,297.3	563.1	592.2	592.3	2,000.8	2,128.5	2,131.9	1,717.7	1,675.5	1,749.7	16
24.9	25.9	26.2	187.4	201.5	200.9	47.9	53.2	53.7	154.6	164.9	165.1	100.6	95.0	103.9	17
7.5	7.6	7.7	31.2	32.8	32.9	4.5	4.6	4.6	20.7	21.3	21.5	30.9	31.1	32.2	18
10.4	10.7	10.7	48.0	51.8	50.8	9.7	10.3	10.4	33.4	35.1	35.2	39.7	39.4	40.4	19
196.4	206.1	203.7	808.7	833.5	836.7	214.2	219.6	219.9	777.4	810.7	812.6	479.7	455.6	478.1	20
3.9	4.0	3.9	22.1	22.8	22.8	2.9	3.2	3.2	16.0	16.5	16.7	16.1	15.4	16.4	21
5.9	6.1	6.1	33.0	34.3	34.1	6.1	6.2	6.3	25.7	27.4	27.6	35.1	33.4	35.1	22
22.1	23.4	23.6	101.1	105.9	106.5	17.0	17.8	17.9	84.9	87.7	89.3	94.6	96.5	97.9	23
20.8	22.2	22.1	88.1	95.1	94.9	19.1	21.8	21.8	68.8	75.1	75.0	135.2	133.2	135.3	24
5.0	4.9	4.9	22.1	22.6	22.4	3.9	4.1	4.1	18.4	18.9	18.7	22.0	22.0	22.4	25
26.5	27.2	27.1	144.1	151.1	151.1	33.9	35.7	36.1	133.5	143.1	141.0	138.2	139.9	143.4	26
128.2	127.2	124.6	351.5	366.1	366.3	133.9	139.4	140.1	330.1	344.3	344.4	289.8	282.8	284.4	27
2.1	2.1	2.1	11.1	12.4	12.2	23.9	25.6	25.6	130.7	136.7	138.0	78.9	75.4	78.7	28
4.3	4.5	4.5	29.8	30.4	30.4	4.9	4.9	5.0	29.4	30.9	30.9	24.3	23.0	23.5	29
4.3	4.3	4.3	21.4	21.3	21.6	5.2	5.3	5.3	16.2	16.5	16.6	18.9	19.3	19.4	30
8.2	8.8	8.4	28.0	28.4	29.5	4.8	5.0	5.1	22.9	24.3	24.4	27.0	27.1	27.3	31
4.3	4.4	4.4	19.8	20.8	20.7	3.3	3.5	3.5	17.6	17.4	18.0	36.3	35.1	35.7	32
71.9	75.3	75.2	288.9	294.9	294.0	68.6	72.4	72.7	236.8	242.0	242.4	220.9	217.3	224.3	33
49.4	52.9	53.1	182.9	186.9	186.0	48.9	51.4	51.8	152.9	157.2	158.6	123.1	122.2	123.5	34
59.4	61.8	61.8	291.1	301.2	302.3	96.5	100.3	100.1	267.3	281.5	278.6	184.9	181.7	187.2	35
6.1	6.2	6.3	34.1	33.5	33.7	6.7	6.9	6.8	30.5	31.4	31.4	16.4	15.4	16.3	36
14.9	15.5	15.4	79.5	80.7	81.8	55.0	57.1	57.2	72.1	74.6	75.1	52.7	52.4	53.3	37
1.5	1.5	1.5	10.4	10.4	10.6	1.7	1.7	1.7	9.6	9.8	9.8	7.1	7.0	7.0	38
15.5	15.6	15.6	40.0	41.1	40.8	10.4	10.4	10.4	45.8	47.6	47.1	26.5	26.9	26.9	39
3.6	3.8	3.8	24.0	24.4	24.6	7.2	7.5	7.4	24.1	26.0	25.7	9.7	9.8	10.0	40
3.1	3.1	3.1	15.6	16.2	15.9	3.2	3.3	3.3	17.9	20.2	19.1	11.7	11.2	11.2	41
13.0	13.0	13.0	54.1	53.4	53.8	11.3	11.5	11.5	42.7	43.7	43.4	43.5	42.4	44.8	42
12.3	12.3	12.3	44.7	43.0	43.5	10.1	10.2	10.2	37.5	39.0	38.7	34.9	34.5	36.5	43
25.7	26.3	26.3	65.9	66.3	66.4	33.4	34.2	33.7	160.8	164.1	166.0	272.6	271.4	272.4	44
64.4	67.4	66.8	284.5	284.3	285.1	84.4	88.8	87.2	366.1	378.7	380.2	531.9	525.4	531.5	45
192.5	206.5	206.6	804.1	814.0	820.9	222.4	239.2	241.1	669.6	699.9	709.9	607.2	604.9	614.6	46
2.7	2.9	2.9	19.5	19.5	19.4	4.0	4.3	4.3	17.9	18.8	18.5	13.9	14.2	14.2	47
14.3	14.5	14.6	80.5	80.8	82.6	24.8	25.1	25.1	65.7	68.1	69.1	42.0	43.3	43.2	48
1.5	1.5	1.5	12.5	11.7	12.2	2.6	2.7	2.7	7.9	8.4	8.4	29.0	28.4	28.5	49
22.5	23.6	23.6	73.1	73.5	73.4	28.0	28.4	28.5	54.4	56.3	56.2	54.6	55.9	55.9	50
63.9	70.0	70.4	164.8	163.4	164.7	46.7	49.6	50.0	153.9	158.7	158.4	88.5	90.9	87.7	51
11.8	13.3	13.3	69.3	68.7	68.2	17.1	18.4	18.3	64.4	67.2	67.8	41.4	42.2	42.7	52
4.8	5.2	5.5	22.0	22.0	22.1	4.1	4.3	4.3	17.0	18.0	18.0	25.4	25.3	25.7	53
2.6	2.7	2.7	17.1	17.3	17.6	4.7	4.8	4.9	13.6	14.7	14.7	9.4	9.4	9.7	54
2.2	2.3	2.3	13.8	14.8	15.1	3.1	3.1	3.1	9.2	11.8	11.8	32.5	31.8	33.3	55
27.7	28.2	28.2	131.4	132.6	133.3	35.1	37.4	37.6	107.1	110.5	111.2	77.2	76.4	77.9	56
7.5	8.0	8.1	43.8	44.2	44.8	13.6	14.2	14.3	39.1	39.0	40.0	29.5	31.4	31.9	57
127.8	130.1	130.0	461.2	465.6	466.9	102.4	106.2	105.9	300.5	305.3	305.9	394.6	393.5	399.5	58
1.8	2.1	2.1	9.3	9.3	9.7	1.7	1.8	1.8	5.0	5.3	5.4	10.2	10.2	10.2	59
78.1	79.8	79.4	239.3	237.4	239.0	59.1	62.6	62.5	157.3	159.7	160.3	149.0	151.3	154.2	60
4.2	4.4	4.4	24.9	24.9	24.8	4.3	4.4	4.4	15.0	15.5	15.6	28.3	28.9	29.1	61
3.3	3.5	3.5	17.2	17.1	17.1	5.2	5.3	5.2	10.6	10.7	10.8	18.6	20.3	19.8	62
5.5	4.6	4.6	19.8	19.5	19.6	5.7	5.8	5.8	15.1	15.0	15.1	30.6	30.6	30.4	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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
GEORGIA—Continued												
1 Savannah	83.3	83.5	83.1	(1)	(1)	(1)	6.5	4.4	4.6	16.7	16.9	16.5
HAWAII												
2 Honolulu	379.7	390.3	392.5	(1)	(1)	(1)	21.4	23.4	23.3	21.9	23.6	22.0
3 Honolulu	314.2	321.9	324.5	(1)	(1)	(1)	17.6	18.6	18.5	15.9	17.5	16.0
IDAHO												
4 Boise City	344.4	344.2	342.4	4.1	4.4	4.3	21.2	20.2	20.1	61.4	59.8	59.5
5 Boise City	81.2	83.8	82.8	(1)	(1)	(1)	6.5	6.5	6.6	9.2	10.2	10.1
ILLINOIS												
6 Bloomington-Normal	4,831.9	4,886.8	4,849.4	27.9	29.1	29.0	191.4	189.6	185.6	1,247.1	1,239.9	1,186.6
7 Chicago-Gary	49.7	50.0	50.4	(2)	(2)	(2)	1.7	1.5	1.4	7.2	7.4	7.3
8 Champaign-Urbana-Rantoul	70.6	71.1	73.6	(2)	(2)	(2)	2.9	3.2	3.0	7.8	8.0	8.1
9 Chicago-Gary	3,450.3	3,499.0	(*)	4.9	5.1	(*)	150.7	155.8	(*)	948.1	943.9	(*)
10 Chicago SMSA ³	3,189.5	3,240.7	3,248.2	4.8	5.0	5.0	133.7	137.8	137.2	843.8	842.9	844.0
11 Davenport Rock Island-Moline	167.9	163.5	156.9	(2)	(2)	(2)	7.7	7.5	7.5	48.5	50.7	43.4
12 Decatur	55.1	55.2	51.0	(2)	(2)	(2)	3.3	3.5	3.5	19.4	18.7	14.5
13 Kankakee	34.0	33.1	33.2	(2)	(2)	(2)	1.2	1.2	1.1	10.0	9.4	9.5
14 Peoria	151.8	153.5	118.9	(2)	(2)	(2)	9.3	9.5	9.5	51.9	51.2	16.2
15 Rockford	122.3	123.4	123.3	(2)	(2)	(2)	3.8	3.6	3.4	56.5	56.8	56.7
16 Springfield	83.0	81.8	82.1	(2)	(2)	(2)	4.1	4.2	4.2	7.9	7.7	6.7
INDIANA												
17 Anderson	2,228.3	2,262.6	2,263.1	10.3	10.3	10.2	110.8	122.2	121.0	750.4	736.4	732.8
18 Evansville	53.5	52.2	51.6	(1)	(1)	(1)	1.2	1.2	1.2	26.1	24.8	24.2
19 Fort Wayne	126.3	125.8	125.7	2.5	2.6	2.6	8.6	8.4	8.4	38.7	37.4	37.5
20 Gary-Hammond-East Chicago ³	176.7	179.8	179.9	(1)	(1)	(1)	7.7	8.1	8.1	62.4	61.2	61.6
21 Indianapolis	260.8	261.7	260.3	(1)	(1)	(1)	17.0	18.5	18.6	104.3	101.7	99.6
22 Lafayette-West Lafayette	514.8	521.5	522.4	(1)	(1)	(1)	19.1	20.8	20.6	131.4	128.3	127.6
23 Muncie	59.2	59.8	59.8	(1)	(1)	(1)	2.1	2.3	2.3	13.0	12.5	12.5
24 South Bend	49.7	49.2	50.6	(1)	(1)	(1)	2.0	2.0	2.0	14.3	14.2	14.3
25 Terre Haute	112.8	113.9	114.2	(1)	(1)	(1)	5.2	5.0	4.8	34.6	34.2	34.1
26 Terre Haute	65.1	65.3	65.6	1.5	1.4	1.5	2.5	3.1	3.1	17.8	16.9	16.9
IOWA												
27 Cedar Rapids	1,126.7	1,143.7	1,130.5	2.5	2.4	2.4	63.3	64.8	64.0	253.9	260.1	240.9
28 Des Moines	85.6	86.6	88.4	(1)	(1)	(1)	4.2	4.4	4.5	31.1	30.2	30.1
29 Dubuque	182.0	181.5	180.5	(1)	(1)	(1)	9.2	8.9	8.8	26.0	26.5	24.6
30 Sioux City	44.3	46.0	40.4	(1)	(1)	(1)	2.3	2.3	2.3	17.1	17.7	12.3
31 Waterloo-Cedar Falls	52.1	51.0	51.2	(1)	(1)	(1)	4.3	3.9	3.7	9.9	9.2	9.2
32 Waterloo-Cedar Falls	65.4	69.9	59.7	(1)	(1)	(1)	2.9	3.2	3.3	21.7	24.4	14.0
KANSAS												
33 Lawrence	922.6	953.2	958.4	12.9	13.4	13.4	50.4	56.9	56.0	188.8	195.9	198.5
34 Topeka	26.8	28.2	28.6	(2)	(2)	(2)	1.3	1.5	1.5	4.3	4.6	4.7
35 Wichita	84.7	86.2	85.6	.3	.3	.3	3.9	3.9	3.8	11.1	11.2	10.6
36 Wichita	195.1	207.3	209.0	2.1	2.3	2.4	10.4	13.2	13.0	62.0	68.8	69.5
KENTUCKY												
37 Lexington-Fayette	1,262.5	1,287.2	1,287.8	59.8	59.5	60.2	75.6	75.7	72.6	292.4	288.2	287.3
38 Louisville	148.1	152.0	153.9	(1)	(1)	(1)	8.3	10.1	10.0	31.1	30.8	30.9
39 Owensboro	407.6	413.8	412.6	(1)	(1)	(1)	22.2	21.8	21.1	111.9	108.5	106.6
40 Owensboro	31.0	31.9	31.9	.9	.8	.8	2.7	2.8	2.8	7.2	7.2	6.9
LOUISIANA												
41 Alexandria	1,428.2	1,447.3	1,454.6	77.9	77.5	78.0	119.5	124.5	125.3	211.4	213.8	213.6
42 Baton Rouge	51.7	51.7	51.7	(1)	(1)	(1)	3.3	3.1	3.2	6.5	6.5	6.4
43 Lafayette	191.0	185.3	184.6	1.0	1.0	1.0	26.0	25.3	24.8	24.8	25.2	25.2
44 Lake Charles	64.0	69.2	69.9	11.7	12.2	12.3	5.2	6.6	7.0	3.7	4.3	4.3
45 Monroe	58.9	59.1	59.2	1.9	1.9	1.9	5.9	5.6	5.6	12.4	12.6	12.6
46 New Orleans	49.7	50.1	50.4	.4	.3	.4	4.8	4.6	4.9	8.6	8.7	8.7
47 Shreveport	477.1	479.5	482.8	15.7	16.3	16.3	28.7	28.9	28.9	52.7	52.2	51.9
48 Shreveport	142.8	146.3	146.1	5.3	5.5	5.5	10.2	11.4	11.6	28.5	28.1	28.3
MAINE												
49 Lewiston-Auburn	413.6	418.1	416.2	(1)	(1)	(1)	21.4	19.8	19.6	113.8	115.2	114.0
50 Portland	34.4	35.8	36.3	(1)	(1)	(1)	1.4	1.4	1.5	12.5	12.0	11.9
51 Portland	87.0	88.6	99.0	(1)	(1)	(1)	4.2	4.1	4.0	16.0	17.4	17.3
MARYLAND												
52 Baltimore	1,618.3	1,628.5	1,626.3	(1)	(1)	(1)	110.8	108.6	107.5	246.9	248.8	248.6
53 Baltimore	894.8	891.5	896.5	(1)	(1)	(1)	53.7	54.0	52.7	166.9	167.0	167.0
MASSACHUSETTS												
54 Boston	2,551.2	2,597.4	2,602.4	(1)	(1)	(1)	81.7	84.0	84.0	663.3	666.0	669.4
55 Brockton	1,382.8	1,406.4	1,411.7	(1)	(1)	(1)	41.1	43.6	42.6	286.6	283.7	284.7
56 Fall River	55.5	57.7	57.8	(1)	(1)	(1)	2.0	2.0	1.8	12.6	13.0	13.0
57 Lawrence-Haverhill	56.7	58.0	58.1	(1)	(1)	(1)	1.9	1.9	1.9	21.0	21.3	21.4
58 Lowell	107.3	107.2	107.6	(1)	(1)	(1)	3.1	3.2	3.1	40.2	39.3	39.9
59 New Bedford	71.8	75.7	76.0	(1)	(1)	(1)	3.0	3.1	3.1	24.1	26.2	26.6
60 Springfield-Chicopee-Holyoke	65.8	67.1	66.6	(1)	(1)	(1)	2.0	1.8	1.7	26.7	26.6	26.6
61 Springfield-Chicopee-Holyoke	233.3	241.2	241.3	(1)	(1)	(1)	6.1	6.4	6.5	68.3	68.8	70.0

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			
OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	
8.4	10.3	10.3	19.3	19.4	19.3	4.0	4.2	4.2	13.6	13.5	13.6	14.9	14.9	14.7	1
29.2	30.6	30.8	99.2	103.1	102.9	29.3	30.5	30.5	92.6	97.6	98.1	86.1	81.5	84.9	2
24.1	25.5	25.7	83.0	85.9	85.9	25.5	26.4	26.4	75.0	79.5	79.8	73.1	68.5	72.2	3
2.2	2.6	2.5	84.4	83.4	84.3	22.6	23.0	23.0	57.4	60.5	59.4	73.1	72.3	71.3	4
4.9	5.4	5.5	21.3	20.5	20.5	8.9	9.0	9.0	13.6	14.4	14.1	16.8	17.8	17.1	5
297.4	301.2	304.4	1,100.0	1,107.8	1,111.1	288.1	297.7	297.0	903.8	931.3	932.1	776.2	790.2	803.6	6
3.1	3.1	3.1	11.7	11.8	11.9	7.3	7.6	7.5	7.0	7.3	7.3	11.7	11.3	11.9	7
2.5	2.6	2.6	16.1	16.8	16.9	2.3	2.4	2.4	9.4	9.6	9.5	29.6	28.5	31.1	8
213.6	219.7	(*)	765.1	771.3	(*)	215.4	222.2	(*)	660.7	674.8	(*)	491.9	506.3	(*)	9
198.6	204.1	204.2	715.5	718.6	721.7	206.5	212.4	211.9	626.7	643.7	643.6	467.6	476.2	487.7	10
6.9	7.2	7.9	41.8	42.3	42.3	6.6	6.7	6.7	23.5	23.5	23.5	25.9	25.5	25.4	11
4.7	4.8	4.8	11.3	11.3	11.4	2.5	2.6	2.6	8.4	8.9	8.9	5.4	5.4	5.4	12
1.3	1.5	1.5	8.2	8.0	8.0	1.0	1.0	1.0	6.1	6.2	6.2	6.3	5.9	5.9	13
7.7	8.0	8.0	35.9	36.3	36.6	7.5	7.6	7.6	26.6	27.7	27.9	13.7	13.1	13.2	14
5.2	5.1	5.1	24.7	25.3	25.4	4.0	4.1	4.1	16.0	16.5	16.6	12.1	11.9	12.0	15
4.9	4.8	4.8	19.4	19.4	19.6	6.7	6.8	6.8	15.4	15.8	15.8	24.7	23.3	24.1	16
110.2	111.2	110.7	479.3	486.7	487.5	97.3	100.3	100.6	315.6	332.4	330.7	354.4	363.2	370.2	17
1.5	1.5	1.5	10.6	10.5	10.4	1.7	1.7	1.7	6.9	6.9	6.8	5.5	5.6	5.8	18
6.8	6.8	6.7	29.8	30.4	30.2	4.3	4.4	4.4	23.3	23.7	23.8	12.3	12.1	12.1	19
10.9	11.6	11.5	41.1	42.9	42.9	9.7	10.2	10.1	27.0	27.7	27.7	17.9	18.1	18.0	20
15.7	15.4	15.4	49.6	51.7	51.6	8.9	9.1	9.1	34.7	34.9	34.5	31.3	30.4	31.6	21
31.0	31.4	31.6	126.2	129.8	130.6	34.7	35.9	35.6	84.2	89.1	88.5	88.2	86.2	87.9	22
1.6	1.6	1.6	11.7	12.1	11.9	2.8	2.6	2.6	8.6	9.1	9.1	19.4	19.7	19.8	23
2.2	2.2	2.2	11.4	11.5	11.5	1.5	1.6	1.6	7.3	7.8	7.7	11.0	9.9	11.3	24
5.3	5.3	5.3	26.6	27.6	27.6	5.0	5.2	5.2	23.1	23.8	23.8	13.0	12.8	13.4	25
4.0	4.0	4.0	16.1	16.1	16.1	2.0	2.1	2.1	8.9	9.3	9.3	12.3	12.4	12.6	26
56.4	56.3	57.3	296.1	292.6	293.5	55.9	58.4	58.5	198.7	206.0	204.7	210.0	203.1	209.3	27
4.7	3.8	3.9	18.3	18.7	19.8	4.2	4.4	4.4	14.7	15.1	15.2	9.1	10.1	10.5	28
11.1	11.4	11.8	48.1	48.2	48.2	19.6	20.2	20.2	37.6	37.8	37.7	30.5	28.5	29.2	29
1.6	1.6	1.6	9.2	9.4	9.5	1.3	1.3	1.3	9.1	9.5	9.3	3.7	4.2	4.2	30
4.1	4.0	4.0	13.4	13.4	13.5	2.7	2.8	2.8	11.1	11.3	11.5	6.7	6.3	6.5	31
2.6	2.6	2.5	14.6	14.9	14.8	2.0	2.1	2.0	10.4	10.9	10.9	11.1	11.8	12.0	32
63.6	66.4	68.0	222.0	226.5	226.8	45.3	47.4	47.3	158.0	166.8	165.8	181.6	179.9	182.6	33
1.4	1.5	1.4	5.5	5.7	5.7	.8	.9	.9	3.3	3.5	3.5	10.3	10.5	10.9	34
7.4	7.5	7.5	19.2	19.4	19.5	5.7	5.9	5.9	16.2	16.9	16.9	21.1	21.1	21.1	35
10.2	10.8	10.8	43.3	44.4	44.5	9.1	9.3	9.4	36.7	37.3	37.1	22.3	21.2	22.3	36
69.9	69.8	69.0	269.5	287.6	285.7	49.1	50.5	50.4	205.7	212.1	213.9	241.2	243.8	248.7	37
6.9	7.7	7.8	33.5	34.1	34.4	6.9	7.0	7.1	26.0	28.6	29.7	35.4	33.7	34.0	38
74.8	25.7	25.8	94.9	100.7	100.6	22.0	23.0	23.0	73.9	76.9	76.5	57.9	57.3	59.1	39
2.2	2.3	2.3	7.3	7.4	7.5	1.1	1.2	1.2	5.3	5.9	6.0	4.3	4.4	4.4	40
110.3	110.4	111.9	338.3	343.5	344.4	70.2	72.6	72.6	243.1	245.5	244.2	262.5	259.5	264.6	41
2.5	2.6	2.6	11.3	11.0	11.0	3.1	3.3	3.2	9.8	10.0	10.2	15.2	15.2	15.1	42
9.7	9.7	9.8	39.6	38.8	38.4	10.6	10.9	11.0	27.9	27.0	26.7	51.4	47.4	47.7	43
4.5	4.7	4.7	16.5	17.5	17.9	2.9	2.2	2.2	11.4	12.2	11.9	9.0	9.5	9.6	44
3.2	2.9	2.9	12.9	13.1	13.1	2.5	2.6	2.6	9.5	9.4	9.5	10.6	11.0	11.0	45
2.3	2.5	2.5	13.1	12.6	12.6	3.3	3.4	3.4	7.7	8.2	8.2	9.5	9.8	9.7	46
48.2	49.0	49.7	119.5	118.8	119.7	28.5	29.7	29.8	104.2	107.6	105.7	79.6	77.0	80.8	47
9.0	10.4	10.4	34.6	35.7	35.7	6.5	6.8	6.8	24.2	24.7	24.7	23.6	24.4	23.8	48
18.3	19.1	18.9	91.7	92.6	91.5	16.1	16.2	16.3	70.1	74.3	72.0	82.2	80.9	83.9	49
1.1	1.2	1.2	7.7	8.8	8.9	1.4	1.6	1.5	6.8	7.4	7.7	3.5	3.4	3.6	50
5.3	5.4	5.4	23.7	22.8	23.2	6.7	7.2	7.2	18.0	19.3	18.8	13.1	12.4	13.1	51
87.6	86.8	87.9	381.7	385.6	382.1	86.4	90.7	89.6	322.8	337.7	334.3	382.1	370.3	376.3	52
60.4	61.3	62.1	196.2	190.8	193.7	52.2	54.6	54.1	172.0	177.0	177.8	193.4	186.8	189.1	53
119.4	118.6	118.0	563.8	576.0	576.1	148.4	153.7	152.0	575.1	597.4	599.1	400.5	401.7	403.8	54
70.1	72.5	71.8	370.0	390.7	310.0	101.5	105.8	105.5	374.7	389.0	391.0	201.8	202.1	206.1	55
4.2	4.5	4.5	14.7	15.0	15.0	2.1	2.2	2.2	8.8	9.3	9.6	11.1	11.7	11.7	56
1.9	2.0	2.0	11.9	12.0	12.0	2.2	2.6	2.6	9.7	10.2	10.3	7.7	7.7	7.7	57
4.2	4.3	4.4	22.8	23.2	22.9	3.7	3.7	3.9	16.2	16.4	16.3	17.1	17.1	17.2	58
3.5	3.9	3.9	15.4	16.1	15.8	2.1	2.2	2.2	11.0	11.5	11.6	12.7	12.7	12.8	59
2.4	2.5	2.4	12.2	12.6	12.5	1.9	2.0	2.0	8.7	9.3	8.9	11.9	12.3	12.5	60
9.7	10.2	10.2	48.8	51.8	51.2	12.6	13.2	13.0	44.0	47.5	46.5	43.8	43.3	43.9	61

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
MASSACHUSETTS—Continued												
1 Worcester	162.6	166.6	166.9	(1)	(1)	(1)	4.9	5.3	5.2	47.3	48.6	48.5
MICHIGAN	(*)	3,580.0	3,610.1	(*)	12.0	11.6	(*)	158.4	159.5	(*)	1,117.0	1,110.1
3 Ann Arbor	(*)	138.5	142.2	(*)	(1)	(1)	(*)	3.5	3.5	(*)	44.0	44.5
4 Battle Creek	(*)	67.9	67.9	(*)	(1)	(1)	(*)	2.5	2.4	(*)	23.6	23.1
5 Bay City	(*)	36.5	36.7	(*)	(1)	(1)	(*)	1.5	1.4	(*)	11.6	11.7
6 Detroit	(*)	1,776.1	1,785.3	(*)	1.2	1.2	(*)	68.2	68.2	(*)	572.5	565.0
7 Flint	(*)	200.5	203.2	(*)	(1)	(1)	(*)	6.7	6.7	(*)	85.7	86.0
8 Grand Rapids	(*)	261.8	265.3	(*)	(1)	(1)	(*)	14.9	14.9	(*)	91.0	90.9
9 Jackson	(*)	55.4	55.7	(*)	(1)	(1)	(*)	2.2	2.2	(*)	16.1	16.3
10 Kalamazoo-Portage	(*)	111.2	111.7	(*)	(1)	(1)	(*)	5.5	5.4	(*)	35.3	35.5
11 Lansing-East Lansing	(*)	188.9	198.6	(*)	(1)	(1)	(*)	7.6	7.4	(*)	43.8	43.9
12 Muskegon-Norton Shores-Musk. Hgts.	(*)	63.4	63.0	(*)	(1)	(1)	(*)	3.1	3.2	(*)	23.4	23.2
13 Saginaw	(*)	89.3	90.5	(*)	(1)	(1)	(*)	3.3	3.1	(*)	34.2	34.5
MINNESOTA	1,725.7	1,779.7	1,795.6	17.8	18.2	17.9	93.4	102.7	100.9	364.7	388.7	383.2
15 Duluth-Superior	63.2	62.7	64.5	(1)	(1)	(1)	2.7	3.0	3.1	8.1	8.6	8.5
16 Minneapolis-St. Paul	1,038.2	1,068.1	1,084.9	(1)	(1)	(1)	49.4	57.3	57.1	236.1	245.9	244.5
MISSISSIPPI	831.9	834.1	838.9	8.9	9.5	9.5	48.3	49.5	49.9	238.3	233.3	233.5
18 Jackson	142.8	146.2	147.1	1.1	1.2	1.2	8.5	9.6	9.8	19.3	19.0	18.9
MISSOURI	1,953.7	1,975.1	1,978.5	8.2	8.8	8.8	88.9	93.0	91.5	458.9	448.1	445.9
20 Kansas City	623.7	629.2	625.7	.6	.5	.5	30.2	32.9	30.8	125.8	124.0	124.6
21 St. Joseph	36.2	35.6	35.9	(2)	(2)	(2)	2.0	2.1	2.0	9.1	8.6	8.7
22 St. Louis	983.8	974.6	970.5	2.5	2.6	2.6	46.3	47.5	46.3	257.3	247.0	245.9
23 Springfield	83.6	83.1	83.6	(2)	(2)	(2)	4.0	4.0	3.9	18.4	18.3	18.2
MONTANA	281.6	300.2	294.3	7.3	8.2	8.2	18.5	18.4	18.1	27.2	28.1	28.1
25 Billings	46.1	49.3	48.7	(1)	(1)	(1)	2.6	3.2	3.1	4.2	4.5	4.5
26 Great Falls	30.9	31.8	31.4	(1)	(1)	(1)	2.0	2.0	2.0	2.0	1.9	2.0
NEBRASKA	608.8	621.9	620.1	1.7	1.6	1.6	35.2	35.6	35.2	93.6	96.6	96.7
28 Lincoln	101.3	101.9	100.6	(2)	(2)	(2)	4.8	4.9	4.9	14.1	13.9	13.6
29 Omaha	255.4	262.0	261.3	(2)	(2)	(2)	13.1	12.5	12.1	35.3	36.8	36.9
NEVADA	367.6	383.5	382.9	3.9	4.2	4.2	28.1	27.7	26.4	18.4	19.9	19.9
31 Las Vegas	194.3	204.5	205.4	.3	.3	.3	14.3	14.3	13.9	6.5	7.1	7.2
32 Reno	111.5	114.3	113.5	.6	.7	.7	9.2	8.4	7.8	8.1	8.6	8.5
NEW HAMPSHIRE	372.3	391.1	389.2	.5	.5	.5	21.1	22.8	22.5	111.0	114.5	114.7
34 Manchester	73.6	75.0	75.1	(2)	(2)	(2)	3.8	4.0	3.9	19.3	18.7	18.6
35 Nashua	57.1	60.7	60.9	(2)	(2)	(2)	2.9	3.5	3.4	25.9	27.2	27.4
NEW JERSEY	3,014.3	3,042.4	3,052.3	2.5	2.6	2.5	121.5	121.0	121.5	804.8	805.5	804.7
37 Atlantic City	73.1	87.9	83.9	-	-	-	3.6	7.4	7.5	8.6	7.9	7.8
38 Camden	327.3	329.9	331.8	.1	.1	.1	15.1	14.8	14.6	71.3	71.8	72.2
39 Hackensack	396.9	391.7	391.7	(1)	(1)	(1)	14.8	14.4	14.4	113.7	112.5	110.5
40 Jersey City	237.7	233.0	234.8	-	-	-	4.0	4.1	4.2	74.3	71.5	71.6
41 Long Branch-Asbury Park	153.5	156.3	154.6	(1)	(1)	(1)	6.3	5.7	5.9	23.9	24.4	24.3
42 New Bruns.-Perth Amboy-Sayreville	279.3	285.6	287.0	(1)	(1)	(1)	11.9	11.1	11.3	91.6	91.0	90.8
43 Newark	937.2	938.2	948.3	.9	.8	.9	35.9	35.5	35.7	255.3	257.6	260.1
44 Paterson-Clifton-Passaic	192.3	193.9	195.9	(1)	(1)	(1)	6.8	7.0	6.4	67.5	70.6	70.3
45 Trenton	163.7	164.9	167.9	(1)	(1)	(1)	3.2	3.2	3.2	37.2	36.9	36.9
46 Vineland-Millville-Bridgeton	57.3	59.2	59.4	(1)	(1)	(1)	1.7	1.8	1.8	19.8	20.3	19.9
NEW MEXICO	454.4	474.2	473.5	25.2	27.1	27.1	37.0	38.1	37.5	34.2	35.3	35.5
48 Albuquerque	182.0	188.3	189.7	(1)	(1)	(1)	15.9	15.9	15.6	17.5	18.2	18.3
NEW YORK	7,108.3	7,123.6	7,161.4	6.6	7.0	7.1	220.7	217.1	215.2	1,503.9	1,507.9	1,511.2
50 Albany-Schenectady-Troy	331.8	331.8	331.0	(1)	(1)	(1)	11.9	11.7	11.4	62.2	58.8	58.2
51 Binghamton	118.3	119.0	120.0	(1)	(1)	(1)	5.1	5.6	5.6	42.0	42.5	42.7
52 Buffalo	515.8	517.0	519.1	(1)	(1)	(1)	21.0	20.9	20.7	144.7	144.9	144.5
53 Elmira	38.1	38.3	38.3	(1)	(1)	(1)	1.7	1.5	1.5	11.9	12.1	12.1
54 Monroe County	335.4	334.5	339.7	(1)	(1)	(1)	11.2	11.0	10.4	132.9	133.7	134.1
55 Nassau-Suffolk	877.5	881.0	881.9	(1)	(1)	(1)	37.2	34.4	33.9	160.5	161.3	163.6
56 New York-Northeastern New Jersey	6,587.7	6,587.3	(*)	3.0	2.9	(*)	198.3	193.5	(*)	1,392.7	1,390.8	(*)
57 New York and Nassau-Suffolk	4,544.3	4,548.9	4,578.6	1.7	1.7	1.7	124.8	122.4	121.8	790.2	789.3	794.0
58 New York SMSA	3,666.9	3,667.9	3,696.7	1.5	1.5	1.5	87.6	87.9	87.9	629.7	628.0	630.5
59 New York City	3,242.2	3,238.7	3,265.5	1.3	1.3	1.3	69.5	71.0	71.0	540.5	536.8	539.1
60 Poughkeepsie	94.0	95.2	95.7	(1)	(1)	(1)	3.3	3.4	3.3	31.2	32.2	31.9
61 Rochester	414.6	413.7	419.3	(1)	(1)	(1)	13.6	13.5	13.1	155.9	156.1	156.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1978	SEP. 1979	OCT. 1979 ^o	OCT. 1978	SEP. 1979	OCT. 1979 ^o	OCT. 1978	SEP. 1979	OCT. 1979 ^o	OCT. 1978	SEP. 1979	OCT. 1979 ^o	OCT. 1978	SEP. 1979	OCT. 1979 ^o	
7.1	7.2	7.3	35.3	36.4	37.1	8.4	8.9	8.8	32.3	32.8	32.9	27.3	27.4	27.1	1
(*)	155.5	154.5	(*)	753.4	754.1	(*)	150.2	149.7	(*)	638.3	640.3	(*)	595.0	630.1	2
(*)	3.8	3.6	(*)	21.0	20.9	(*)	3.7	3.7	(*)	21.6	21.5	(*)	40.9	44.5	3
(*)	2.4	2.4	(*)	11.7	11.8	(*)	3.8	3.8	(*)	11.3	11.6	(*)	12.6	12.8	4
(*)	1.7	1.7	(*)	8.4	8.3	(*)	1.2	1.3	(*)	6.3	6.4	(*)	5.8	5.9	5
(*)	85.8	85.4	(*)	366.8	366.7	(*)	85.8	85.3	(*)	349.1	350.1	(*)	246.7	264.1	6
(*)	6.6	6.7	(*)	41.3	41.3	(*)	5.8	5.8	(*)	29.3	29.2	(*)	25.1	27.5	7
(*)	10.2	10.2	(*)	59.6	60.6	(*)	9.8	9.8	(*)	46.1	47.3	(*)	30.2	31.6	8
(*)	5.2	5.2	(*)	11.4	11.4	(*)	1.5	1.5	(*)	11.5	11.3	(*)	8.5	8.8	9
(*)	3.7	3.7	(*)	21.6	21.6	(*)	4.1	4.0	(*)	20.0	20.2	(*)	21.0	21.3	10
(*)	5.5	5.5	(*)	35.7	36.5	(*)	9.2	9.2	(*)	26.8	27.0	(*)	60.3	69.1	11
(*)	2.9	2.9	(*)	12.1	11.8	(*)	1.8	1.8	(*)	9.6	9.3	(*)	10.5	10.8	12
(*)	4.7	4.7	(*)	18.2	18.0	(*)	3.9	3.9	(*)	13.6	13.5	(*)	11.4	12.8	13
96.8	102.5	104.1	433.6	443.4	443.1	88.0	91.6	92.3	338.5	354.4	357.5	292.8	278.2	296.7	14
7.6	6.5	7.2	17.7	17.1	17.6	2.2	2.4	2.4	12.2	12.5	12.2	13.4	12.6	13.4	15
60.3	66.4	66.9	258.0	263.2	265.5	65.4	68.3	68.7	216.9	224.2	228.4	152.1	142.8	153.8	16
39.6	39.9	41.2	162.1	164.4	164.7	31.8	32.2	32.2	116.7	119.7	120.8	186.3	185.6	187.2	17
8.9	9.0	9.0	35.0	36.3	36.3	11.0	10.9	11.0	27.5	28.0	28.3	31.5	32.3	32.5	18
136.6	137.6	137.6	468.1	474.2	474.0	103.0	105.4	104.9	353.0	365.1	363.0	342.0	343.2	352.8	19
52.9	53.1	52.6	158.8	156.2	156.8	41.8	42.6	42.5	122.3	128.5	126.6	91.3	91.4	91.3	20
2.2	2.1	2.1	8.8	8.9	9.0	1.9	1.8	1.9	6.2	6.3	6.3	6.3	5.8	5.9	21
69.5	71.5	68.1	220.4	217.5	217.5	53.2	54.5	54.7	195.6	198.4	198.2	139.0	135.6	137.2	22
6.3	6.4	6.5	23.4	23.6	23.6	3.3	3.3	3.3	16.3	16.2	16.1	11.9	11.3	12.0	23
22.7	24.7	24.4	72.3	78.3	76.1	12.3	14.2	14.1	52.1	54.5	53.4	69.2	73.8	71.9	24
4.3	4.6	4.6	15.7	16.5	16.2	2.1	2.3	2.3	9.4	10.2	10.0	7.8	8.0	8.0	25
1.9	2.3	2.1	10.2	10.7	10.6	2.0	2.1	2.1	6.6	6.6	6.5	6.2	6.1	6.2	26
45.0	47.3	46.7	156.5	159.7	159.4	39.4	40.5	40.7	109.5	113.8	112.9	127.9	126.8	126.7	27
7.0	7.4	6.9	22.0	23.1	23.0	7.0	6.9	7.0	17.3	16.6	16.5	29.1	29.1	28.7	28
23.3	24.4	24.5	67.3	68.8	69.1	23.1	23.8	23.8	54.5	56.6	56.3	38.8	39.1	38.6	29
22.2	23.9	24.1	72.4	77.8	77.9	14.9	15.7	15.6	154.2	159.4	159.2	53.5	54.9	55.6	30
12.6	13.4	13.6	40.6	44.5	44.8	7.9	8.5	8.5	88.1	91.2	91.5	24.0	25.2	25.5	31
7.1	7.8	7.8	22.1	23.2	23.1	5.6	5.7	5.7	43.0	44.4	44.3	14.8	15.5	15.6	32
13.7	13.9	13.9	83.4	90.6	88.9	17.9	19.0	18.9	67.1	73.6	71.4	56.7	56.2	58.4	33
4.5	4.9	4.9	19.2	19.7	19.9	5.3	5.5	5.5	13.4	13.9	13.8	8.1	8.3	8.5	34
1.8	1.8	1.8	11.3	12.3	12.4	1.8	1.9	1.9	7.8	8.5	8.3	5.6	5.5	5.7	35
193.1	191.0	192.5	675.9	684.6	681.7	149.3	152.7	151.9	554.4	584.5	578.0	513.7	500.5	519.5	36
3.5	3.8	3.8	19.1	21.0	18.7	4.5	4.8	4.8	17.9	17.9	17.9	16.0	15.9	16.3	37
15.5	15.7	15.8	85.0	84.2	83.9	15.1	15.9	15.9	64.0	66.5	66.3	61.1	60.9	63.0	38
20.9	19.9	20.0	116.9	112.1	112.3	15.4	16.1	16.0	71.9	76.3	76.4	43.3	40.4	42.1	39
28.1	27.6	27.8	46.0	45.4	46.2	8.4	8.9	8.9	31.3	30.4	31.0	45.5	45.1	45.1	40
6.2	6.4	6.4	39.5	42.1	41.1	7.0	7.2	7.1	38.1	39.0	38.3	32.4	31.5	31.5	41
19.9	23.2	23.0	63.8	67.6	68.6	9.3	9.8	9.8	38.5	40.4	39.2	44.2	42.5	44.3	42
70.4	69.7	68.6	180.7	181.1	183.3	62.8	62.5	62.1	183.6	188.8	190.6	147.5	142.2	147.0	43
7.7	6.9	7.0	42.5	42.3	43.3	9.3	9.7	9.6	30.6	32.7	32.7	27.8	24.7	26.6	44
6.0	6.1	6.0	26.1	25.7	26.6	6.6	6.8	6.9	39.4	38.6	40.3	45.1	47.6	48.0	45
3.1	3.1	3.0	9.5	9.9	9.8	2.4	2.4	2.4	8.5	9.0	9.1	12.3	12.7	13.4	46
27.7	28.8	28.7	103.3	110.0	109.4	20.3	21.6	21.5	88.5	90.9	89.7	118.2	122.4	124.1	47
10.8	11.8	11.9	46.1	48.4	48.4	10.3	11.2	11.2	40.8	42.0	42.2	40.6	40.8	42.1	48
434.1	433.5	434.1	1,474.3	1,473.8	1,475.1	588.7	596.5	595.2	1,592.7	1,624.9	1,636.9	1,287.3	1,262.9	1,286.6	49
15.4	15.6	15.5	67.4	67.3	67.4	14.9	15.2	15.2	65.9	66.6	66.9	94.0	96.7	96.5	50
4.7	4.7	4.7	22.3	22.2	22.1	3.6	3.7	3.7	17.5	17.8	18.0	22.9	22.6	23.2	51
28.7	28.8	28.9	115.8	117.4	118.0	21.6	22.1	22.1	94.9	95.0	95.7	89.2	87.9	89.2	52
1.4	1.4	1.4	8.4	8.4	8.3	1.0	1.0	1.0	6.9	6.8	7.1	6.8	7.0	6.9	53
10.1	10.0	9.9	62.8	62.8	63.0	14.7	15.2	15.2	64.4	64.5	66.9	39.3	37.4	40.1	54
37.4	37.6	37.5	230.0	232.6	230.6	47.5	48.3	48.2	187.5	191.6	190.6	177.4	175.2	177.5	55
465.6	466.0	(*)	1,403.8	1,397.0	(*)	590.7	598.3	(*)	1,469.7	1,500.1	(*)	1,063.9	1,038.7	(*)	56
318.5	317.8	317.1	953.9	950.6	953.2	485.5	491.2	490.4	1,114.1	1,132.1	1,140.1	755.6	743.8	760.1	57
281.1	280.2	279.7	723.9	718.0	722.7	438.0	442.9	442.2	926.8	940.7	949.7	578.2	568.6	582.6	58
259.4	258.1	257.7	624.5	616.8	621.1	418.6	423.1	422.6	827.0	839.2	848.1	501.4	492.4	504.6	59
3.0	3.0	3.0	15.8	15.9	15.9	2.5	2.6	2.6	16.5	16.7	16.7	21.7	22.0	22.4	60
13.1	13.0	12.9	79.9	80.2	80.4	16.2	16.9	16.9	75.9	76.3	78.3	59.9	57.8	61.0	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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
NEW YORK—Continued												
1 Rockland County	78.1	79.1	78.6	(1)	(1)	(1)	2.7	2.3	2.2	15.6	15.7	15.3
2 Syracuse	262.1	267.1	264.1	(1)	(1)	(1)	11.8	11.6	11.6	61.4	60.4	60.0
3 Utica-Rome	117.3	118.0	118.6	(1)	(1)	(1)	3.7	4.0	4.0	32.5	32.3	32.4
4 Westchester County	334.2	337.9	340.4	(1)	(1)	(1)	14.6	13.8	13.8	72.4	74.3	74.8
NORTH CAROLINA	2,307.5	2,363.3	2,372.0	4.8	4.3	4.8	115.5	126.0	125.5	814.0	811.3	815.4
6 Asheville	69.3	69.7	69.0	(1)	(1)	(1)	3.7	3.3	3.2	21.8	21.4	21.5
7 Charlotte-Gastonia	312.4	315.5	316.9	(1)	(1)	(1)	16.2	16.2	16.2	87.1	87.8	88.2
8 Greensboro—Winston-Salem—High Pt.	378.2	381.8	384.6	(1)	(1)	(1)	17.0	15.6	15.6	146.0	148.2	148.9
9 Raleigh-Durham	252.1	258.1	260.7	(1)	(1)	(1)	13.0	12.7	12.7	39.7	42.2	42.5
NORTH DAKOTA	241.4	249.8	252.2	5.1	6.2	6.2	22.1	24.4	24.3	16.7	16.5	17.5
11 Fargo-Moorhead	63.0	63.6	65.4	(2)	(2)	(2)	5.1	5.5	5.4	5.4	5.3	5.5
OHIO	4,471.7	4,527.7	4,528.4	32.6	32.1	31.9	199.6	207.0	203.5	1,397.3	1,383.6	1,370.9
13 Akron	277.5	273.1	273.6	.4	.4	.4	10.7	10.2	10.0	86.0	83.7	83.7
14 Canton	157.4	162.7	162.0	1.2	1.2	1.2	7.5	7.5	7.5	57.4	59.2	58.2
15 Cincinnati	678.4	628.5	627.3	.4	.4	.4	28.9	30.3	29.9	174.0	175.7	175.5
16 Cleveland	921.1	931.8	928.0	1.6	1.6	1.6	35.7	37.3	36.9	283.1	279.7	276.1
17 Columbus	503.3	515.4	518.8	.9	.9	.9	23.2	24.5	24.0	101.4	99.3	99.1
18 Dayton	364.6	367.1	370.2	.5	.5	.5	15.7	16.9	16.6	113.2	117.1	117.5
19 Toledo	309.5	308.2	312.8	.6	.6	.6	13.3	13.6	13.5	92.7	90.5	89.2
20 Youngstown-Warren	215.3	218.0	218.3	.5	.5	.5	9.3	9.8	9.5	81.0	78.2	79.5
OKLAHOMA	1,045.9	1,091.2	1,091.7	55.4	59.2	59.6	59.1	60.7	60.1	174.3	181.1	182.4
22 Oklahoma City	369.8	393.4	396.3	12.8	13.5	13.6	21.0	21.0	20.7	48.4	54.2	55.4
23 Tulsa	272.7	279.6	279.8	17.7	18.3	18.3	14.9	14.8	14.4	57.0	59.0	59.5
OREGON	1,032.3	1,067.1	1,072.2	2.1	2.3	2.3	54.6	58.6	57.7	224.5	239.8	235.5
25 Eugene-Springfield	106.6	105.1	106.5	(1)	(1)	(1)	6.0	5.8	5.7	21.7	22.7	22.2
26 Jackson County	-	-	-	-	-	-	-	-	-	8.2	8.2	8.4
27 Portland	536.3	549.2	551.1	(1)	(1)	(1)	28.8	28.9	29.0	109.5	119.8	117.9
28 Salem	90.2	95.8	94.2	(1)	(1)	(1)	5.2	5.2	5.1	17.3	19.7	17.3
PENNSYLVANIA	4,721.0	4,698.5	4,734.5	53.4	52.3	51.4	214.3	204.9	203.4	1,372.1	1,376.5	1,371.7
29 Allentown-Bethlehem-Easton	262.0	259.4	260.8	(1)	(1)	(1)	9.9	8.8	8.9	110.2	110.3	110.4
31 Altoona	51.9	52.6	53.0	(1)	(1)	(1)	2.3	2.1	2.2	13.1	13.2	13.3
32 Delaware Valley	1,561.5	1,556.9	1,572.9	(1)	(1)	(1)	60.3	61.3	61.6	379.0	383.6	383.5
33 Erie	117.4	117.2	116.5	(1)	(1)	(1)	5.7	3.7	3.5	45.2	45.6	45.5
34 Harrisburg	216.3	212.9	212.4	(1)	(1)	(1)	10.7	8.6	8.4	42.2	43.2	43.1
35 Johnstown	88.2	89.9	90.2	9.7	8.8	8.8	3.4	3.2	3.2	19.9	20.0	20.0
36 Lancaster	150.5	149.7	150.3	(1)	(1)	(1)	8.5	8.5	8.6	59.9	59.4	59.4
37 Northeast Pennsylvania	243.1	237.9	238.9	1.2	1.2	1.2	13.3	12.7	12.7	73.3	69.9	69.4
38 Philadelphia SMSA	1,889.7	1,886.9	1,904.9	(1)	(1)	(1)	75.5	76.1	76.2	450.6	455.6	455.8
39 Philadelphia City	801.2	796.4	801.9	(1)	(1)	(1)	19.3	19.3	19.3	150.8	146.7	146.5
40 Pittsburgh	942.5	947.7	944.4	12.0	11.1	10.9	53.1	51.4	49.7	250.5	254.8	253.0
41 Reading	137.2	140.1	141.5	(1)	(1)	(1)	5.5	5.5	5.5	52.9	53.8	54.4
42 Scranton	86.8	85.6	86.7	(1)	(1)	(1)	2.3	2.3	2.4	28.7	27.8	28.4
43 Wilkes-Barre—Hazleton	126.9	122.5	122.8	1.1	1.1	1.2	9.5	8.9	8.9	40.0	37.3	36.4
44 Williamsport	50.0	49.5	49.3	(1)	(1)	(1)	2.1	2.1	2.1	18.4	17.8	17.4
45 York	154.4	153.4	154.1	(1)	(1)	(1)	7.4	7.1	7.2	66.6	65.6	66.6
RHODE ISLAND	417.7	406.8	405.2	(1)	(1)	(1)	15.8	14.8	14.6	140.1	135.8	136.7
47 Providence-Warwick-Pawtucket	422.1	417.0	415.7	(1)	(1)	(1)	16.0	15.1	14.8	156.6	151.8	152.9
SOUTH CAROLINA	1,150.6	1,167.7	1,176.2	1.9	2.0	2.0	69.2	65.9	65.1	394.1	392.6	394.1
49 Charleston-North Charleston	142.1	142.6	143.5	(1)	(1)	(1)	11.1	11.1	11.2	19.5	19.4	19.4
50 Columbia	173.2	175.5	176.2	(1)	(1)	(1)	8.5	8.0	8.0	26.3	26.8	27.1
51 Greenville-Spartanburg	257.7	259.8	259.8	(1)	(1)	(1)	15.7	16.5	16.5	105.2	104.4	104.3
SOUTH DAKOTA	236.2	238.2	236.6	2.6	2.9	2.9	14.3	14.6	14.4	24.7	26.2	26.3
53 Rapid City	29.2	29.3	28.6	(2)	(2)	(2)	3.2	2.9	2.9	2.7	2.6	2.5
54 Sioux Falls	53.5	53.0	53.0	(2)	(2)	(2)	4.0	3.8	3.7	7.1	7.7	7.9
TENNESSEE	1,736.7	1,737.8	1,745.5	10.0	10.3	10.3	92.6	97.2	97.4	523.9	517.9	519.0
56 Chattanooga	168.1	167.6	168.0	1.4	1.4	1.4	7.2	7.1	7.0	55.5	54.1	53.8
57 Knoxville	197.9	195.9	196.0	1.6	1.2	1.2	12.9	12.4	12.5	53.2	53.7	53.2
58 Memphis	354.1	354.7	354.7	.2	.2	.2	13.5	14.4	14.3	64.6	63.2	63.5
59 Nashville-Davidson	356.4	352.9	354.9	(1)	(1)	(1)	22.0	21.9	21.6	82.2	80.4	80.6

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			
OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	
3.4	3.4	3.4	17.0	17.5	17.6	2.3	2.4	2.4	16.6	16.6	16.6	20.6	21.2	21.1	1
14.6	15.1	15.1	58.4	59.5	59.3	15.2	15.5	15.5	53.0	51.2	53.6	47.7	47.0	49.2	2
4.0	4.1	4.1	22.1	22.3	22.2	5.4	5.5	5.5	20.3	20.9	21.1	29.3	28.9	29.4	3
17.7	18.1	17.9	79.3	80.4	80.8	16.6	17.0	16.7	81.0	82.7	82.9	52.8	51.7	53.4	4
109.8	115.9	114.4	451.1	469.4	470.1	85.9	89.5	89.3	318.0	336.5	336.5	407.5	409.9	416.0	5
3.6	3.6	3.6	14.4	14.3	14.2	2.3	2.3	2.2	12.1	12.9	12.8	11.4	11.9	11.5	6
29.1	29.8	29.9	76.4	78.3	79.0	19.8	20.0	19.9	46.5	46.7	47.0	37.3	36.7	36.7	7
21.0	21.2	21.3	76.4	77.7	78.4	17.4	17.6	17.9	54.5	56.0	55.8	45.9	45.5	46.7	8
12.4	13.6	13.3	48.7	49.8	50.2	14.6	14.9	14.8	52.5	54.9	55.4	71.2	70.0	71.8	9
15.4	16.4	16.5	66.0	68.9	68.7	10.7	11.2	11.2	46.0	47.7	47.8	59.4	58.5	60.0	10
4.1	4.4	4.5	19.0	19.4	19.5	3.7	3.9	3.9	13.3	13.3	14.0	12.4	11.8	12.6	11
231.9	239.7	239.6	973.7	1,000.3	999.1	193.4	203.9	203.6	788.6	835.3	827.5	654.7	625.8	652.2	12
14.7	15.0	15.0	59.9	62.7	62.3	9.2	9.7	9.7	47.5	50.2	50.1	42.8	41.3	42.6	13
7.4	7.6	7.6	34.0	36.0	35.8	5.5	5.9	5.9	27.7	29.2	29.2	16.7	16.1	16.7	14
34.0	35.3	36.4	139.7	144.3	144.5	30.7	32.3	32.3	117.5	129.3	128.2	83.3	79.8	80.2	15
48.4	50.2	50.0	212.1	218.9	218.7	45.8	46.8	46.5	182.1	191.6	191.9	112.4	105.5	106.3	16
25.8	27.4	27.3	121.6	126.4	127.3	34.7	37.1	36.9	98.3	103.9	104.2	97.5	95.9	99.0	17
13.1	14.2	14.3	76.1	79.0	79.4	12.8	13.3	13.2	67.3	70.3	71.5	65.8	65.9	67.4	18
21.3	21.8	22.0	69.2	70.9	71.2	10.0	10.6	10.6	56.6	59.5	60.0	45.8	40.8	45.7	19
10.2	10.6	10.5	46.2	48.7	48.4	6.8	7.1	7.1	35.5	38.0	36.9	25.8	25.2	26.0	20
61.4	62.9	64.2	249.0	259.1	257.2	51.7	53.5	53.4	172.7	186.0	184.5	223.3	228.7	230.3	21
21.9	22.0	21.9	89.6	96.8	96.8	23.0	24.4	24.1	63.0	67.7	67.7	90.1	93.8	96.1	22
29.5	21.2	21.5	66.7	67.2	66.8	13.7	14.2	14.1	53.1	55.1	55.5	29.1	29.8	29.7	23
58.5	60.8	60.9	252.3	263.6	263.2	65.2	68.6	69.1	175.9	178.6	179.5	199.2	194.8	204.1	24
5.2	5.6	5.5	26.2	25.7	26.3	5.2	5.3	5.2	18.9	18.8	19.0	23.4	21.2	22.6	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
34.7	35.8	35.5	137.7	138.3	138.7	41.3	43.1	43.3	102.3	103.1	104.0	82.0	80.2	82.7	27
3.2	3.4	3.4	18.5	19.1	19.1	5.3	5.5	5.5	14.2	14.5	14.8	26.5	28.4	29.0	28
269.0	269.9	271.4	984.1	959.6	971.5	228.4	237.7	237.7	905.9	918.3	933.9	693.9	680.0	694.2	29
13.9	14.1	14.2	49.8	49.3	49.3	8.3	8.6	8.6	39.3	39.6	39.7	30.6	28.7	29.7	30
8.2	7.6	7.6	11.6	12.6	12.7	1.3	1.3	1.3	9.4	8.8	8.7	7.0	7.0	7.2	31
84.4	83.5	83.3	333.0	326.1	331.8	104.8	106.8	107.0	369.6	364.6	370.9	230.4	231.0	234.7	32
5.3	5.1	5.1	22.9	24.5	24.8	4.5	4.5	4.5	19.7	19.6	19.6	14.8	14.2	13.5	33
15.9	15.1	16.1	44.5	43.2	42.9	12.0	11.9	11.9	35.2	36.2	35.4	55.8	53.7	54.6	34
5.4	5.6	5.7	16.7	17.2	17.1	3.6	3.7	3.7	14.8	15.5	15.4	14.7	15.9	16.3	35
6.7	6.5	6.6	33.9	34.3	34.7	5.2	5.5	5.4	20.9	21.4	21.4	15.4	14.1	14.2	36
13.4	13.6	13.7	53.2	51.5	51.5	9.3	9.5	9.5	41.4	41.8	41.0	38.0	37.7	39.9	37
99.9	99.2	99.1	418.2	410.4	415.8	119.9	122.6	123.0	433.7	431.2	437.3	291.2	291.8	297.7	38
56.5	56.5	56.1	155.9	151.5	155.4	68.4	69.8	69.6	208.8	205.0	210.4	141.5	147.6	144.6	39
58.3	58.4	58.6	209.2	214.1	212.0	43.8	44.7	44.6	198.1	197.6	197.3	117.5	115.6	118.3	40
6.5	6.6	6.6	26.8	27.8	28.1	5.7	6.0	6.0	22.4	23.5	23.7	17.4	16.9	17.2	41
4.7	4.7	4.8	19.9	19.3	19.5	3.3	3.4	3.4	16.5	16.5	16.2	11.4	11.6	12.1	42
6.8	6.9	6.8	28.0	26.6	26.6	5.2	5.3	5.3	17.9	17.8	17.8	18.4	18.6	19.8	43
2.5	2.5	2.5	10.6	10.5	10.6	1.9	2.0	2.0	7.6	7.9	7.9	6.9	6.7	6.8	44
7.0	6.7	6.7	31.3	31.6	31.3	3.9	4.1	4.1	19.5	20.2	19.5	18.7	18.1	18.7	45
13.6	13.7	13.3	81.2	81.4	81.0	20.1	20.6	20.8	78.1	79.9	78.2	61.1	60.6	60.6	46
13.5	13.6	13.3	82.8	81.8	81.5	20.3	20.8	21.0	74.8	76.5	74.9	58.1	57.4	57.3	47
51.5	52.1	52.2	215.1	225.7	224.5	44.4	46.5	46.7	147.1	159.4	159.6	228.4	223.5	232.1	48
8.5	9.0	8.9	30.7	31.2	31.3	5.9	6.2	6.2	21.5	23.4	23.7	44.9	42.3	42.8	49
8.8	9.2	9.2	38.1	38.4	38.7	13.1	13.6	13.7	25.9	25.8	25.7	52.7	53.7	53.8	50
10.3	10.2	10.2	50.2	50.1	50.0	8.8	8.8	8.8	33.7	35.4	35.5	33.8	34.4	34.5	51
13.5	13.5	13.5	63.8	62.3	61.2	11.1	11.8	12.1	48.9	50.6	49.5	57.3	56.3	56.7	52
1.9	1.9	1.9	8.3	9.1	8.4	1.4	1.4	1.4	6.2	5.6	5.6	5.5	5.8	5.9	53
5.0	4.8	4.9	15.2	14.9	15.2	3.2	3.0	3.1	12.0	12.0	11.8	6.8	6.8	6.4	54
84.1	83.7	82.9	375.3	369.8	369.7	72.8	75.3	74.8	268.3	274.8	276.5	309.7	308.8	314.9	55
6.6	6.8	6.8	30.4	30.1	29.8	9.4	9.8	9.9	26.3	26.1	26.2	31.3	32.3	33.1	56
7.7	7.9	7.9	42.3	41.4	41.4	7.8	8.2	8.2	30.5	30.7	30.7	41.9	40.4	40.9	57
25.8	26.4	26.5	94.7	93.7	93.4	18.7	19.2	19.2	68.6	70.8	70.8	68.0	66.8	66.8	58
19.0	19.2	19.5	81.3	80.4	80.0	22.2	22.5	22.5	65.8	64.7	66.4	63.9	63.8	64.3	59

**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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
1 TEXAS	5,341.1	5,562.4	5,593.4	184.7	198.6	198.3	390.0	407.9	410.9	970.0	1,001.7	1,007.2
2 Amarillo	72.4	73.9	74.2	(1)	(1)	(1)	5.2	5.6	5.6	8.8	9.7	9.7
3 Austin	220.1	227.6	230.7	(1)	(1)	(1)	13.2	14.5	14.3	26.9	28.0	28.2
4 Beaumont-Port Arthur-Orange	147.0	146.2	145.1	(1)	(1)	(1)	15.2	15.9	14.7	41.8	41.8	42.4
5 Corpus Christi	112.4	112.3	112.4	5.0	5.1	5.2	12.2	11.9	11.8	14.0	13.8	13.9
6 Dallas-Fort Worth	1,308.8	1,381.8	1,386.2	20.1	21.6	21.5	70.5	77.6	77.2	291.5	303.8	304.9
7 El Paso	151.5	155.2	155.4	(1)	(1)	(1)	8.8	7.7	7.5	31.3	31.2	31.0
8 Galveston-Texas City	68.2	68.3	67.8	(1)	(1)	(1)	5.1	4.9	4.9	12.2	12.3	12.1
9 Houston	1,284.1	1,325.0	1,329.4	62.5	63.3	63.4	139.5	140.5	137.5	211.6	218.0	218.3
10 Lubbock	89.7	88.9	89.9	(1)	(1)	(1)	5.6	5.7	5.6	13.5	12.6	12.6
11 San Antonio	366.7	373.1	374.6	1.9	1.9	1.9	23.9	25.1	25.1	46.9	47.1	47.4
12 Waco	66.7	68.8	69.1	(1)	(1)	(1)	3.6	3.3	3.2	16.0	17.4	17.4
13 Wichita Falls	49.6	50.5	50.6	2.6	2.5	2.5	2.4	2.8	2.8	9.1	9.5	9.5
14 UTAH	542.7	571.5	573.7	16.7	18.1	17.9	37.7	40.4	39.4	82.9	87.5	87.6
15 Salt Lake City-Ogden	383.3	402.1	406.1	7.2	7.6	7.5	26.1	27.6	27.3	55.6	58.8	59.3
16 VERMONT	195.1	199.2	200.2	.8	.9	.9	10.9	10.7	10.6	49.0	50.3	50.3
17 Burlington ¹³	52.8	54.4	55.6	-	-	-	-	-	-	12.8	13.7	13.8
18 Springfield ¹³	14.3	14.6	14.5	-	-	-	-	-	-	6.0	6.1	6.1
19 VIRGINIA	2,089.6	2,121.6	2,126.3	25.0	24.3	24.2	141.8	144.3	140.7	413.6	416.8	416.7
20 Bristol	28.4	28.0	28.0	(1)	(1)	(1)	1.6	1.6	1.6	10.0	9.9	9.8
21 Lynchburg	69.7	72.7	73.4	(1)	(1)	(1)	3.8	3.9	4.0	29.2	29.9	30.0
22 Newport News-Hampton	145.8	149.4	149.7	(1)	(1)	(1)	8.5	8.4	8.4	33.0	33.0	33.4
23 Norfolk-Virginia Beach-Po.smouth	282.6	284.4	283.4	(1)	(1)	(1)	20.2	20.1	19.7	29.8	30.2	30.3
24 Northern Virginia ¹⁴	411.5	420.8	420.9	.3	.4	.4	29.1	29.4	27.8	15.7	16.4	16.4
25 Petersburg-Colonial Hgts.-Hopewell	47.1	47.2	47.1	(1)	(1)	(1)	2.6	2.5	2.5	11.7	11.3	11.2
26 Richmond	320.5	324.2	323.6	.4	.4	.4	20.0	18.7	18.4	54.4	55.5	55.4
27 Roanoke	105.6	104.8	104.8	.2	.1	.1	6.4	6.2	6.0	21.5	20.7	20.7
28 WASHINGTON	1,550.4	1,634.4	(*)	3.1	3.2	(*)	104.8	114.0	(*)	295.2	320.2	(*)
29 Seattle-Everett	726.2	780.3	(*)	(1)	(1)	(*)	45.8	53.7	(*)	152.5	170.4	(*)
30 Spokane	127.7	128.5	(*)	(1)	(1)	(*)	8.1	8.2	(*)	18.1	18.7	(*)
31 Tacoma	136.3	144.5	(*)	(1)	(1)	(*)	9.0	10.2	(*)	21.6	22.3	(*)
32 WEST VIRGINIA	637.6	640.8	(*)	73.6	68.0	(*)	44.0	42.8	(*)	126.7	124.4	(*)
33 Charleston	110.9	113.9	(*)	6.8	6.8	(*)	7.5	7.4	(*)	19.6	19.1	(*)
34 Huntington-Ashland	104.3	104.7	(*)	1.0	1.0	(*)	6.7	7.1	(*)	29.2	29.1	(*)
35 Parkersburg-Marietta	57.4	57.6	(*)	.5	.5	(*)	4.1	4.4	(*)	18.2	17.5	(*)
36 Wheeling	67.2	64.8	(*)	7.1	6.4	(*)	4.5	3.8	(*)	13.7	13.2	(*)
37 WISCONSIN	1,932.1	1,994.9	2,006.1	2.9	3.0	3.0	94.4	95.7	95.4	571.1	583.7	582.9
38 Appleton-Oshkosh	125.3	128.3	131.0	(1)	(1)	(1)	7.2	7.2	7.2	48.5	50.0	50.4
39 Eau Claire	44.9	45.2	46.0	(1)	(1)	(1)	1.9	1.8	1.8	9.0	8.1	8.6
40 Green Bay	77.4	78.5	79.0	(1)	(1)	(1)	4.0	3.9	4.0	21.6	22.1	21.8
41 Kenosha	44.9	45.5	45.5	(1)	(1)	(1)	1.6	1.5	1.4	18.6	19.3	19.3
42 La Crosse	42.2	41.2	41.7	(1)	(1)	(1)	1.8	2.1	2.2	10.5	8.9	8.9
43 Madison	161.7	166.1	169.4	(1)	(1)	(1)	8.3	8.6	8.5	19.1	17.4	19.3
44 Milwaukee	665.9	684.2	688.3	(1)	(1)	(1)	26.1	26.5	26.3	211.7	214.7	215.1
45 Racine	70.1	72.2	72.2	(1)	(1)	(1)	2.7	2.4	2.4	30.9	31.6	31.6
46 WYOMING	196.7	220.5	221.5	29.7	34.7	35.2	24.6	27.9	27.4	10.1	10.9	11.6
47 Casper	38.0	47.6	48.3	7.7	11.3	11.6	4.4	6.2	6.3	1.7	2.0	1.9
48 Cheyenne	26.1	28.4	29.0	(1)	(1)	(1)	2.2	3.0	3.0	1.5	1.9	2.0

¹ Combined with services.

² Combined with construction.

³ Area included in Chicago-Gary Standard Consolidated Statistical Area.

⁴ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

⁵ Subarea of New York-Northeastern New Jersey.

⁶ Subarea of Rochester Standard Metropolitan Statistical Area.

⁷ Area included in New York and Nassau-Suffolk combined SMSA's.

⁸ Subarea of New York Standard Metropolitan Statistical Area.

⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

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

¹³ Total includes data for industry divisions not shown separately.

¹⁴ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	
339.3	353.7	353.8	1,297.1	1,341.5	1,344.4	300.9	313.3	314.4	900.2	939.2	945.4	958.9	1,006.5	1,019.0	1
6.8	7.7	6.9	22.0	21.5	21.5	3.6	3.6	3.6	13.9	14.5	14.6	12.1	12.0	12.3	2
6.7	6.6	6.7	44.7	47.6	47.9	13.1	13.5	13.6	36.1	38.0	38.2	79.4	79.4	81.8	3
10.8	10.8	10.8	31.6	30.3	30.3	29.5	5.3	5.4	24.0	23.6	23.5	18.3	18.4	18.8	4
6.4	6.5	6.6	26.2	25.6	25.5	5.2	5.6	5.6	17.6	18.1	18.2	25.8	25.7	25.6	5
84.7	90.6	91.4	34.2	367.5	369.8	95.7	101.1	101.1	229.1	243.5	244.0	176.0	176.1	176.3	6
10.1	10.6	10.5	37.3	39.2	39.1	6.9	7.5	7.4	24.9	25.9	26.2	32.2	33.1	33.7	7
6.7	6.7	6.8	13.0	12.9	12.8	4.4	4.6	4.5	10.4	10.5	10.5	16.4	16.4	16.2	8
95.3	99.4	99.1	308.4	314.7	317.1	76.6	80.3	80.8	247.0	260.2	261.4	143.2	148.6	151.8	9
5.0	5.0	5.0	26.1	25.9	26.3	4.4	4.7	4.7	15.6	16.2	16.4	19.5	18.8	19.3	10
15.9	16.9	16.9	91.4	93.0	93.3	24.4	24.9	24.9	68.8	70.6	71.3	93.5	93.6	93.8	11
3.2	3.3	3.3	15.6	15.7	15.9	3.7	4.1	4.1	13.5	14.1	14.3	11.1	10.9	10.9	12
2.4	2.4	2.4	12.2	12.3	12.4	2.2	2.3	2.3	7.5	7.5	7.5	11.2	11.2	11.2	13
33.2	35.4	35.1	130.9	136.9	137.0	24.9	26.5	26.3	93.7	103.7	104.3	122.8	123.7	126.1	14
26.2	27.9	27.8	97.0	101.6	101.9	20.2	21.6	21.5	63.8	70.6	71.1	87.3	86.4	89.8	15
8.9	9.0	9.0	40.4	42.2	42.1	7.4	7.7	7.7	42.1	43.6	42.9	35.6	34.8	36.7	16
2.2	2.2	2.2	11.3	12.0	12.1	-	-	-	10.7	11.8	11.7	-	-	-	17
.7	.7	.7	2.2	2.3	2.2	-	-	-	2.6	2.6	2.6	-	-	-	18
110.7	113.5	113.1	442.7	444.9	449.1	98.5	102.9	102.5	366.2	374.8	375.3	491.1	500.1	504.7	19
1.0	1.0	1.0	6.8	6.3	6.5	.9	1.0	1.0	3.3	3.5	3.4	4.8	4.7	4.7	20
2.5	2.7	2.7	11.6	12.0	12.3	3.1	3.5	3.5	9.6	10.8	10.8	9.9	9.9	10.1	21
4.9	5.1	5.0	27.7	28.1	27.7	4.8	5.1	5.0	26.8	28.0	28.2	40.1	41.7	42.0	22
17.9	17.9	17.5	68.6	70.2	70.0	14.3	14.7	14.6	50.8	51.5	50.3	81.0	79.8	81.0	23
27.2	28.9	28.6	98.9	98.6	98.9	25.2	26.4	26.0	99.5	103.6	104.3	115.6	117.1	118.5	24
1.4	1.6	1.6	8.9	8.8	8.7	1.3	1.3	1.3	5.8	6.1	6.1	15.4	15.6	15.7	25
19.3	20.1	20.1	74.0	71.7	72.0	25.1	26.4	26.0	55.7	57.6	57.3	71.6	73.8	74.0	26
10.1	10.0	10.0	26.1	25.9	26.3	5.8	5.9	5.9	19.3	19.4	19.2	16.2	16.6	16.6	27
88.7	95.5	(*)	380.3	401.1	(*)	87.3	93.0	(*)	284.3	307.5	(*)	306.7	299.9	(*)	28
48.8	52.7	(*)	177.6	187.8	(*)	50.8	53.5	(*)	135.1	146.0	(*)	115.6	116.2	(*)	29
7.9	8.0	(*)	35.1	37.1	(*)	7.9	8.2	(*)	28.9	29.1	(*)	21.7	19.2	(*)	30
6.6	6.9	(*)	32.9	35.1	(*)	6.8	7.2	(*)	28.3	31.2	(*)	31.1	31.6	(*)	31
41.6	43.8	(*)	126.6	132.6	(*)	20.5	21.3	(*)	89.5	91.3	(*)	115.0	116.5	(*)	32
9.4	9.8	(*)	25.6	27.8	(*)	4.9	4.9	(*)	18.7	19.8	(*)	18.5	18.4	(*)	33
9.5	9.6	(*)	23.2	23.3	(*)	3.7	3.7	(*)	14.2	14.3	(*)	16.9	16.6	(*)	34
2.6	2.6	(*)	12.1	12.2	(*)	1.9	1.9	(*)	8.6	8.6	(*)	9.6	10.0	(*)	35
3.8	3.7	(*)	15.3	15.2	(*)	2.4	2.5	(*)	12.8	12.6	(*)	7.6	7.4	(*)	36
91.6	91.9	93.4	444.8	469.5	474.7	86.7	91.5	92.2	342.7	365.6	363.9	297.9	294.0	300.5	37
4.3	4.2	4.4	26.3	26.9	27.6	4.8	5.2	5.2	19.4	20.2	20.2	14.9	14.7	15.9	38
2.6	2.6	2.7	11.9	12.9	12.8	1.4	1.4	1.4	9.0	9.6	9.5	9.0	8.8	9.2	39
5.4	5.5	5.6	19.9	20.7	21.1	2.7	2.8	2.8	13.7	13.6	13.7	10.0	9.9	10.1	40
2.5	1.8	1.7	8.2	8.6	8.6	.9	1.0	1.0	7.1	7.7	7.6	5.9	5.6	5.9	41
2.4	2.4	2.4	11.5	11.7	12.0	.9	1.0	1.0	8.7	9.2	9.2	6.3	5.9	6.0	42
5.8	6.0	6.1	35.8	37.2	37.7	11.8	13.0	13.1	28.1	29.6	29.9	52.8	54.2	54.9	43
33.8	34.6	35.1	151.0	156.5	158.7	35.6	36.6	36.9	133.5	141.9	142.4	74.2	73.5	73.7	44
2.3	2.5	2.3	13.0	13.3	13.4	2.2	2.3	2.3	10.7	11.1	11.1	8.4	9.0	9.1	45
15.1	17.3	17.5	44.1	50.4	49.9	6.6	7.3	7.4	26.2	31.2	29.6	40.3	40.8	42.9	46
2.6	2.9	3.0	10.6	13.5	13.7	1.4	1.5	1.6	5.1	5.7	5.7	4.5	4.5	4.5	47
3.6	3.8	3.8	6.7	8.1	8.2	1.5	1.5	1.5	3.9	3.5	3.6	6.7	6.6	6.9	48

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. P 1979	Nov. P 1979	Oct. 1978	Nov. 1978	Sept. 1979	Oct. P 1979	Nov. P 1979
-	TOTAL PRIVATE	\$210.73	\$210.50	\$225.90	\$225.62	\$225.07	\$5.87	\$5.88	\$6.31	\$6.32	\$6.34
-	MINING	348.73	352.59	372.80	373.65	381.50	7.98	8.05	8.57	8.57	8.71
10	METAL MINING	358.62	362.34	393.87	397.70	-	8.60	8.71	9.63	9.70	-
101	Iron ores	371.60	377.52	409.76	421.60	-	8.89	9.01	9.85	9.92	-
102	Copper ores	367.69	371.96	420.18	424.85	-	8.86	8.92	9.91	10.02	-
11, 12	COAL MINING	396.73	415.53	421.46	423.54	-	9.82	9.87	10.33	10.28	-
12	BITUMINOUS COAL AND LIGNITE MINING	397.94	416.37	422.28	424.77	-	9.85	9.89	10.35	10.31	-
13	OIL AND GAS EXTRACTION	327.41	323.73	351.33	352.56	-	7.18	7.21	7.79	7.80	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	337.00	338.23	373.33	360.39	-	8.14	8.15	8.91	8.79	-
138	Oil and gas field services	323.74	317.16	342.16	349.13	-	6.83	6.85	7.39	7.46	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	302.42	299.34	322.39	323.05	-	6.56	6.55	7.07	7.10	-
142	Crushed and broken stone	302.10	295.78	322.38	315.74	-	6.32	6.32	6.83	6.79	-
-	CONSTRUCTION	336.93	324.49	360.43	356.82	346.39	8.89	8.89	9.51	9.49	9.49
15	GENERAL BUILDING CONTRACTORS	300.20	293.81	324.06	321.93	-	8.27	8.23	8.83	8.82	-
152	Residential building construction	284.40	280.96	306.37	302.40	-	7.90	7.87	8.44	8.40	-
153	Operative builders	259.55	247.37	279.73	285.94	-	7.25	7.17	7.54	7.77	-
154	Nonresidential building construction	323.54	315.40	348.54	346.49	-	8.84	8.81	9.42	9.39	-
16	HEAVY CONSTRUCTION CONTRACTORS	351.12	321.98	372.80	369.56	-	8.36	8.32	8.94	8.82	-
161	Highway and street construction	348.83	300.70	381.94	369.36	-	7.91	7.77	8.72	8.63	-
162	Heavy construction, except highway	352.56	333.68	367.74	369.70	-	8.62	8.60	9.08	8.93	-
17	SPECIAL TRADE CONTRACTORS	350.76	341.64	374.44	369.75	-	9.48	9.49	10.12	10.13	-
171	Plumbing, heating, air conditioning	369.39	361.34	390.02	392.06	-	9.67	9.61	10.21	10.21	-
172	Painting, paper hanging, decorating	313.80	306.40	327.36	322.67	-	8.79	8.83	9.30	9.38	-
173	Electrical work	402.63	402.53	430.88	428.22	-	10.54	10.51	11.25	11.21	-
174	Masonry, stonework, and plastering	324.97	314.74	346.65	342.84	-	9.18	9.23	9.82	9.88	-
175	Carpentering and flooring	307.94	296.52	321.23	319.55	-	8.65	8.57	9.10	9.13	-
176	Roofing and sheet metal work	281.26	272.39	305.82	286.34	-	8.20	8.33	8.89	8.73	-
-	MANUFACTURING	257.00	260.94	274.04	274.85	275.37	6.33	6.38	6.80	6.82	6.85
24, 25, 32-39	DURABLE GOODS	279.86	283.71	295.39	295.80	296.30	6.76	6.82	7.24	7.25	7.28
20-23, 26-31	NONDURABLE GOODS	223.18	226.29	241.96	241.92	244.90	5.65	5.70	6.11	6.14	6.20
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	233.11	229.43	253.43	248.13	240.86	5.77	5.75	6.32	6.25	6.24
241	Logging camps and logging contractors	320.03	293.92	344.46	325.14	-	7.53	7.46	8.59	8.38	-
242	Sawmills and planing mills	245.37	243.19	267.56	262.34	-	5.97	5.99	6.51	6.43	-
2421	Sawmills and planing mills, general	259.97	257.22	282.91	277.16	-	6.31	6.32	6.85	6.76	-
2426	Hardwood dimension and flooring	165.64	166.87	175.47	175.96	-	4.04	4.10	4.42	4.41	-
243	Millwork, plywood, and structural members	224.87	227.03	243.14	240.73	-	5.65	5.69	6.14	6.11	-
2431	Millwork	210.30	213.10	232.25	232.46	-	5.42	5.45	5.85	5.90	-
2434	Wood kitchen cabinets	204.61	208.17	211.10	214.06	-	5.18	5.27	5.57	5.56	-
2435	Hardwood veneer and plywood	183.77	184.68	200.07	197.56	-	4.56	4.56	4.94	4.89	-
2436	Softwood veneer and plywood	290.90	293.97	315.93	306.86	-	7.13	7.17	7.82	7.71	-
244	Wooden containers	160.44	162.47	178.26	176.56	-	4.20	4.22	4.63	4.61	-
245	Wood buildings and mobile homes	211.29	206.36	221.55	220.41	-	5.39	5.36	5.71	5.71	-
2451	Mobile homes	207.13	201.25	221.34	220.17	-	5.38	5.31	5.69	5.66	-
249	Miscellaneous wood products	188.47	188.87	204.42	205.23	-	4.70	4.71	5.06	5.08	-
25	FURNITURE AND FIXTURES	189.29	189.12	202.02	204.36	204.10	4.78	4.80	5.18	5.20	5.22
251	Household furniture	176.46	176.73	188.57	190.42	-	4.49	4.52	4.86	4.87	-
2511	Wood household furniture	166.38	167.58	177.75	178.99	-	4.17	4.20	4.50	4.52	-
2512	Upholstered household furniture	187.11	187.98	195.14	198.78	-	4.81	4.87	5.19	5.19	-
2514	Metal household furniture	174.65	173.64	194.16	200.19	-	4.56	4.51	5.03	5.12	-
2515	Mattresses and bedsprings	196.72	191.89	217.56	211.30	-	5.07	5.09	5.55	5.46	-
252	Office furniture	211.64	211.64	220.09	221.05	-	5.20	5.20	5.53	5.54	-
253	Public building and related furniture	211.04	211.58	204.22	208.90	-	5.16	5.25	5.36	5.44	-
254	Partitions and fixtures	230.00	228.80	254.56	256.24	-	5.75	5.72	6.38	6.39	-
259	Miscellaneous furniture and fixtures	206.33	210.14	218.89	226.20	-	5.25	5.28	5.73	5.80	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
-	TOTAL PRIVATE	35.9	35.8	35.8	35.7	35.5	-	-	-	-	-
-	MINING	43.7	43.8	43.5	43.6	43.8	-	-	-	-	-
10	METAL MINING	41.7	41.6	40.9	41.0	-	-	-	-	-	-
101	Iron ores	41.8	41.9	41.6	42.5	-	-	-	-	-	-
102	Copper ores	41.5	41.7	42.4	42.4	-	-	-	-	-	-
11, 12	COAL MINING	40.4	42.1	40.8	41.2	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	40.4	42.1	40.8	41.2	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.6	44.9	45.1	45.2	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.4	41.5	41.9	41.0	-	-	-	-	-	-
138	Oil and gas field services	47.4	46.3	46.3	46.8	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	46.1	45.7	45.6	45.5	-	-	-	-	-	-
142	Crushed and broken stone	47.8	46.8	47.2	46.5	-	-	-	-	-	-
-	CONSTRUCTION	37.9	36.5	37.9	37.6	36.5	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.3	35.7	36.7	36.5	-	-	-	-	-	-
152	Residential building construction	36.0	35.7	36.3	36.0	-	-	-	-	-	-
153	Operative builders	35.8	34.5	37.1	36.8	-	-	-	-	-	-
154	Nonresidential building construction	36.6	35.8	37.0	36.9	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	42.0	38.7	41.7	41.9	-	-	-	-	-	-
161	Highway and street construction	44.1	38.7	43.8	42.8	-	-	-	-	-	-
162	Heavy construction, except highway	40.9	38.8	40.5	41.4	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	37.0	36.0	37.0	36.5	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	38.2	37.6	38.2	38.4	-	-	-	-	-	-
172	Painting, paper hanging, decorating	35.7	34.7	35.2	34.4	-	-	-	-	-	-
173	Electrical work	38.2	38.3	38.3	38.2	-	-	-	-	-	-
174	Masonry, stonework, and plastering	35.4	34.1	35.3	34.7	-	-	-	-	-	-
175	Carpentering and flooring	35.6	34.6	35.3	35.0	-	-	-	-	-	-
176	Roofing and sheet metal work	34.3	32.7	34.4	32.8	-	-	-	-	-	-
-	MANUFACTURING	40.6	40.9	40.3	40.3	40.2	3.8	3.8	3.6	3.4	3.3
24, 25, 32-39	DURABLE GOODS	41.4	41.6	40.8	40.8	40.7	4.1	4.1	3.6	3.5	3.4
20-23, 26-31	NONDURABLE GOODS	39.5	39.7	39.6	39.4	39.5	3.4	3.3	3.5	3.2	3.2
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	40.4	39.9	40.1	39.7	38.6	4.0	3.7	3.9	3.7	-
241	Logging camps and logging contractors	42.5	39.4	40.1	38.8	-	5.6	4.1	4.9	4.8	-
242	Sawmills and planing mills	41.1	40.6	41.1	40.8	-	4.8	4.6	4.6	4.5	-
2421	Sawmills and planing mills, general	41.2	40.7	41.3	41.0	-	5.1	4.8	5.0	4.8	-
2426	Hardwood dimension and flooring	41.0	40.7	39.7	39.9	-	3.9	3.6	3.4	3.3	-
243	Millwork, plywood, and structural members	39.8	39.9	39.6	39.4	-	3.3	3.3	3.3	2.9	-
2431	Millwork	38.8	39.1	39.7	39.4	-	2.2	2.3	2.2	1.9	-
2434	Wood kitchen cabinets	39.5	39.5	37.9	38.5	-	2.4	2.5	2.2	1.8	-
2435	Hardwood veneer and plywood	40.3	40.5	40.5	40.4	-	3.8	3.9	4.1	3.9	-
2436	Softwood veneer and plywood	40.8	41.0	40.4	39.8	-	5.0	5.0	5.2	4.7	-
244	Wooden containers	38.2	38.5	38.5	38.3	-	3.1	3.0	3.4	2.9	-
245	Wood buildings and mobile homes	39.2	38.5	38.8	38.6	-	2.7	2.3	2.4	2.4	-
2451	Mobile homes	38.5	37.9	38.9	38.9	-	2.1	1.8	2.3	2.2	-
249	Miscellaneous wood products	40.1	40.1	40.4	40.4	-	3.6	3.5	3.7	3.6	-
25	FURNITURE AND FIXTURES	39.6	39.4	39.0	39.3	39.1	2.8	2.7	2.6	2.6	-
251	Household furniture	39.3	39.1	38.8	39.1	-	2.8	2.6	2.4	2.4	-
2511	Wood household furniture	39.9	39.9	39.5	39.6	-	3.4	3.4	3.0	2.9	-
2512	Upholstered household furniture	38.9	38.6	37.6	38.3	-	2.2	1.9	1.7	1.8	-
2514	Metal household furniture	38.3	38.5	38.6	39.1	-	1.8	1.6	1.5	1.5	-
2515	Mattresses and bedsprings	38.8	37.7	39.2	38.7	-	3.2	2.1	3.4	3.1	-
252	Office furniture	40.7	40.7	39.8	39.9	-	2.7	2.8	2.5	2.4	-
253	Public building and related furniture	40.9	40.3	38.1	38.4	-	2.6	2.8	2.7	2.7	-
254	Partitions and fixtures	40.0	40.0	39.9	40.1	-	3.4	3.0	3.8	3.4	-
259	Miscellaneous furniture and fixtures	39.3	39.8	38.2	39.0	-	2.2	2.6	2.5	2.6	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
32	STONE, CLAY, AND GLASS PRODUCTS	\$274.53	\$275.33	\$291.07	\$291.48	\$293.15	\$6.49	\$6.54	\$6.98	\$6.99	\$7.03
321	Flat glass	357.47	372.96	355.37	362.82	-	8.18	8.40	8.71	8.68	-
322	Glass and glassware, pressed or blown	273.24	273.51	289.52	291.93	-	6.73	6.77	7.22	7.28	-
3221	Glass containers	286.71	283.61	303.91	305.83	-	7.01	7.02	7.56	7.57	-
3229	Pressed and blown glass, nec	254.47	260.18	271.20	273.93	-	6.33	6.44	6.78	6.90	-
323	Products of purchased glass	273.90	277.77	245.63	249.60	-	6.46	6.49	6.25	6.24	-
324	Cement, hydraulic	377.40	404.32	416.08	411.45	-	8.88	9.21	9.79	9.75	-
325	Structural clay products	213.79	219.12	232.52	234.68	-	5.24	5.28	5.63	5.71	-
326	Pottery and related products	210.28	213.20	223.05	224.01	-	5.31	5.33	5.69	5.70	-
327	Concrete, gypsum, and plaster products	288.18	278.63	309.67	306.94	-	6.52	6.51	7.07	7.04	-
3271	Concrete block and brick	263.73	260.89	285.09	281.80	-	5.90	5.97	6.45	6.39	-
3272	Concrete products, nec	245.23	242.76	264.39	265.44	-	5.77	5.78	6.28	6.32	-
3273	Ready-mixed concrete	326.07	305.83	345.88	339.24	-	7.23	7.23	7.79	7.71	-
329	Misc. nonmetallic mineral products	271.58	277.56	289.40	291.62	-	6.39	6.44	6.94	6.96	-
3291	Abrasive products	255.19	261.65	272.28	271.89	-	6.27	6.32	6.69	6.73	-
3292	Asbestos products	293.26	294.81	296.73	300.33	-	6.59	6.61	7.15	7.10	-
33	PRIMARY METAL INDUSTRIES	352.80	359.54	378.31	372.60	371.68	8.42	8.52	9.16	9.11	9.20
331	Blast furnace and basic steel products	399.92	410.48	438.29	424.66	-	9.66	9.82	10.69	10.59	-
3312	Blast furnaces and steel mills	411.18	422.24	451.95	435.81	-	9.98	10.15	11.05	10.95	-
3317	Steel pipe and tubes	326.70	330.54	357.79	353.53	-	7.76	7.87	8.58	8.56	-
332	Iron and steel foundries	315.78	319.27	316.20	316.88	-	7.43	7.53	7.75	7.71	-
3321	Gray iron foundries	322.48	324.78	313.20	311.52	-	7.57	7.66	7.83	7.73	-
3322	Malleable iron foundries	331.64	335.37	336.40	342.59	-	8.03	8.14	8.41	8.48	-
3325	Steel foundries, nec	300.48	305.73	328.52	333.50	-	7.07	7.16	7.64	7.72	-
333	Primary nonferrous metals	371.28	375.20	406.29	411.58	-	8.84	8.87	9.79	9.87	-
3334	Primary aluminum	397.71	391.25	423.05	432.01	-	9.38	9.36	10.42	10.36	-
335	Nonferrous rolling and drawing	321.21	328.74	348.73	348.89	-	7.47	7.54	8.11	8.19	-
3351	Copper rolling and drawing	300.40	303.02	318.38	322.70	-	6.89	6.95	7.37	7.47	-
3353	Aluminum sheet, plate, and foil	391.19	401.65	419.61	410.61	-	9.14	9.17	9.85	9.73	-
3357	Nonferrous wire drawing and insulating	299.34	309.60	317.05	322.91	-	7.06	7.15	7.46	7.67	-
336	Nonferrous foundries	263.72	263.94	271.22	278.11	-	6.37	6.36	6.73	6.85	-
3361	Aluminum foundries	273.16	275.81	276.58	286.12	-	6.63	6.63	6.88	7.03	-
34	FABRICATED METAL PRODUCTS	266.09	270.76	282.74	285.07	286.30	6.49	6.54	6.93	6.97	7.00
341	Metal cans and shipping containers	354.75	356.56	406.26	396.32	-	8.25	8.37	9.15	9.09	-
3411	Metal cans	365.93	368.07	420.97	410.78	-	8.51	8.62	9.46	9.40	-
342	Cutlery, hand tools, and hardware	249.67	252.55	263.74	271.75	-	6.18	6.19	6.61	6.76	-
3423, 5	Hand and edge tools, and hand saws and blades	237.80	243.81	265.12	268.71	-	5.96	6.02	6.53	6.57	-
3429	Hardware, nec	261.70	261.12	268.21	277.20	-	6.43	6.40	6.79	7.00	-
343	Plumbing and heating, except electric	226.46	229.20	243.76	252.53	-	5.69	5.73	6.14	6.22	-
3432	Plumbing fittings and brass goods	222.56	225.84	235.41	247.64	-	5.55	5.59	5.90	6.04	-
3433	Heating equipment, except electric	221.43	224.53	237.77	242.38	-	5.62	5.67	6.05	6.09	-
344	Fabricated structural metal products	249.05	251.91	276.89	276.35	-	6.18	6.22	6.77	6.79	-
3441	Fabricated structural metal	265.77	272.83	297.97	296.74	-	6.53	6.59	7.18	7.22	-
3442	Metal doors, sash, and trim	195.92	197.79	217.76	217.06	-	4.96	5.02	5.39	5.44	-
3443	Fabricated plate work (boiler shops)	273.78	276.35	307.19	314.49	-	6.76	6.79	7.42	7.47	-
3444	Sheet metal work	252.33	251.70	274.11	272.23	-	6.34	6.34	6.87	6.84	-
3446	Architectural metal work	241.38	246.24	262.76	257.11	-	6.08	6.05	6.52	6.46	-
345	Screw machine products, bolts, etc.	263.77	269.63	277.07	281.78	-	6.12	6.17	6.55	6.63	-
3451	Screw machine products	243.07	248.09	256.39	259.30	-	5.76	5.81	6.09	6.13	-
3452	Bolts, nuts, rivets, and washers	284.89	291.44	298.20	304.16	-	6.46	6.52	7.00	7.14	-
346	Metal forgings and stampings	318.44	326.83	311.58	320.31	-	7.60	7.69	7.77	7.87	-
3462	Iron and steel forgings	350.65	357.70	334.62	347.69	-	8.27	8.28	8.58	8.78	-
3465	Automotive stampings	385.53	400.58	368.28	376.00	-	9.05	9.23	9.30	9.40	-
3469	Metal stampings, nec	237.56	238.88	250.31	256.26	-	5.78	5.77	6.12	6.16	-
347	Metal services, nec	212.34	213.96	226.80	230.85	-	5.23	5.27	5.67	5.70	-
3471	Plating and polishing	203.52	205.23	217.25	222.00	-	5.05	5.08	5.50	5.55	-
3479	Metal coating and allied services	232.37	233.86	247.83	249.00	-	5.64	5.69	6.03	6.00	-
348	Ordnance and accessories, nec	255.91	256.64	284.56	285.93	-	6.35	6.40	6.89	6.94	-
3483	Ammunition, exc. for small arms, nec	231.00	232.86	256.40	255.76	-	6.00	6.08	6.41	6.41	-
349	Misc. fabricated metal products	251.94	256.27	269.78	269.94	-	6.16	6.19	6.58	6.60	-
3494	Valves and pipe fittings	270.17	278.38	292.45	291.87	-	6.51	6.55	7.03	7.05	-
3496	Misc. fabricated wire products	219.89	223.16	232.64	234.67	-	5.47	5.51	5.73	5.78	-
35	MACHINERY, EXCEPT ELECTRICAL	291.90	297.93	313.41	310.75	314.34	6.95	7.01	7.48	7.47	7.52
351	Engines and turbines	344.84	351.90	370.80	362.40	-	8.23	8.28	9.00	9.06	-
3511	Turbines and turbine generator sets	320.46	317.75	323.56	325.51	-	7.63	7.62	8.15	8.22	-
3519	Internal combustion engines, nec	353.64	363.80	383.97	373.33	-	8.44	8.50	9.23	9.31	-
352	Farm and garden machinery	307.13	312.07	387.62	313.94	-	7.64	7.63	8.16	7.62	-
3523	Farm machinery and equipment	316.36	321.85	359.02	323.18	-	7.85	7.85	8.33	7.75	-
353	Construction and related machinery	317.15	319.18	336.13	326.72	-	7.48	7.51	8.08	7.93	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
	STONE, CLAY, AND GLASS PRODUCTS										
32	STONE, CLAY, AND GLASS PRODUCTS	42.3	42.1	41.7	41.7	41.7	5.2	4.9	4.8	4.6	
321	Flat glass	43.7	44.4	40.8	41.8	-	5.8	6.4	3.5	3.8	
322	Glass and glassware, pressed or blown	40.6	40.4	40.1	40.1	-	4.2	4.1	4.0	3.9	
3221	Glass containers	40.9	40.4	40.2	40.4	-	4.8	4.5	4.3	4.3	
3229	Pressed and blown glass, nec	40.2	40.4	40.0	39.7	-	3.4	3.5	3.7	3.4	
323	Products of purchased glass	42.4	42.8	39.3	40.0	-	5.6	5.2	2.4	2.7	
324	Cement, hydraulic	42.5	43.9	42.5	42.2	-	4.4	4.1	4.5	3.9	
325	Structural clay products	40.8	41.5	41.3	41.1	-	4.4	4.2	4.3	4.2	
326	Pottery and related products	39.6	40.0	39.2	39.3	-	3.0	3.0	2.7	2.8	
327	Concrete, gypsum, and plaster products	44.2	42.8	43.8	43.6	-	7.2	6.2	6.8	6.4	
3271	Concrete block and brick	44.7	43.7	44.2	44.1	-	7.7	7.1	6.8	6.5	
3272	Concrete products, nec	42.5	42.0	42.1	42.0	-	6.0	5.6	5.6	5.1	
3273	Ready-mixed concrete	45.1	42.3	44.4	44.0	-	7.7	6.0	7.4	6.8	
329	Misc. nonmetallic mineral products	42.5	43.1	41.7	41.9	-	4.5	4.6	4.2	4.3	
3291	Abrasive products	40.7	41.4	40.7	40.4	-	3.6	3.9	3.4	3.7	
3292	Asbestos products	44.5	44.6	41.5	42.3	-	5.3	4.7	3.4	3.5	
	PRIMARY METAL INDUSTRIES										
33	PRIMARY METAL INDUSTRIES	41.9	42.2	41.3	40.9	40.4	4.3	4.3	3.8	3.6	
331	Blast furnace and basic steel products	41.4	41.8	41.0	40.1	-	3.6	3.5	3.5	2.9	
3312	Blast furnaces and steel mills	41.2	41.6	40.9	39.8	-	3.5	3.4	3.3	2.7	
3317	Steel pipe and tubes	42.1	42.0	41.7	41.3	-	4.4	4.2	4.0	3.6	
332	Iron and steel foundries	42.5	42.4	40.8	41.1	-	5.2	5.3	3.6	3.7	
3321	Gray iron foundries	42.6	42.4	40.0	40.3	-	5.6	5.6	3.0	3.2	
3322	Malleable iron foundries	41.3	41.2	40.0	40.4	-	5.1	5.1	3.7	3.7	
3325	Steel foundries, nec	42.5	42.7	43.0	43.2	-	4.4	4.5	5.0	4.8	
333	Primary nonferrous metals	42.0	42.3	41.5	41.7	-	3.5	3.7	4.0	3.9	
3334	Primary aluminum	42.4	41.8	40.6	41.7	-	3.8	3.9	4.0	3.9	
335	Nonferrous rolling and drawing	43.0	43.6	43.0	42.6	-	5.6	5.7	5.4	5.2	
3351	Copper rolling and drawing	43.6	43.6	43.2	43.2	-	6.1	5.4	5.8	5.8	
3353	Aluminum sheet, plate and foil	42.8	43.8	42.6	42.2	-	7.1	7.5	6.6	6.0	
3357	Nonferrous wire drawing and insulating	42.4	43.3	42.5	42.1	-	4.8	5.3	4.5	4.5	
336	Nonferrous foundries	41.4	41.5	40.3	40.6	-	3.8	3.8	3.1	3.2	
3361	Aluminum foundries	41.2	41.6	40.2	40.7	-	4.0	4.2	3.2	3.4	
	FABRICATED METAL PRODUCTS										
34	FABRICATED METAL PRODUCTS	41.0	41.4	40.8	40.9	40.9	3.9	4.0	3.6	3.6	
341	Metal cans and shipping containers	43.0	42.6	44.4	43.6	-	4.2	4.2	5.7	5.0	
3411	Metal cans	43.0	42.7	44.5	43.7	-	3.8	4.0	5.7	5.0	
342	Cutlery, hand tools, and hardware	40.4	40.8	39.9	40.2	-	3.3	3.4	2.9	3.0	
3423.5	Hand and edge tools, and hand saws and blades	39.9	40.5	40.6	40.9	-	3.0	3.2	3.4	3.5	
3429	Hardware, nec	40.7	40.8	39.5	39.6	-	3.6	3.5	2.4	2.5	
343	Plumbing and heating, except electric	39.8	40.0	39.7	40.6	-	3.1	3.0	2.9	3.4	
3432	Plumbing fittings and brass goods	40.1	40.4	39.9	41.0	-	3.2	3.4	2.6	3.4	
3433	Heating equipment, except electric	39.4	39.6	39.3	39.8	-	2.9	2.7	3.1	3.3	
344	Fabricated structural metal products	40.3	40.5	40.9	40.7	-	3.2	3.3	3.6	3.3	
3441	Fabricated structural metal	40.7	41.4	41.5	41.1	-	3.9	4.0	4.0	3.8	
3442	Metal doors, sash, and trim	39.5	39.4	40.4	39.9	-	2.7	2.8	3.4	3.0	
3443	Fabricated plate work (boiler shops)	40.5	40.7	41.4	42.1	-	3.0	3.2	3.6	3.5	
3444	Sheet metal work	39.8	39.7	39.9	39.8	-	3.5	3.3	3.5	3.3	
3446	Architectural metal work	39.7	40.7	40.3	39.8	-	2.3	2.4	2.9	2.6	
345	Screw machine products, bolts, etc.	43.1	43.7	42.3	42.5	-	5.7	5.9	4.6	4.7	
3451	Screw machine products	42.2	42.7	42.1	42.3	-	5.7	5.8	4.9	5.0	
3452	Bolts, nuts, rivets, and washers	44.1	44.7	42.6	42.6	-	5.8	5.9	4.4	4.4	
346	Metal forgings and stampings	41.9	42.5	40.1	40.7	-	5.0	5.2	3.5	3.7	
3462	Iron and steel forgings	42.4	43.2	39.0	39.6	-	5.7	6.0	3.8	4.1	
3465	Automotive stampings	42.6	43.4	39.6	40.0	-	5.9	6.3	2.9	3.1	
3469	Metal stampings, nec	41.1	41.4	40.9	41.6	-	3.7	3.7	3.7	3.8	
347	Metal services, nec	40.6	40.6	40.0	40.5	-	4.0	3.9	3.7	3.8	
3471	Plating and polishing	40.3	40.4	39.5	40.0	-	3.7	3.7	3.2	3.3	
3479	Metal coating and allied services	41.2	41.1	41.1	41.5	-	4.6	4.5	4.9	4.8	
348	Ordinance and accessories, nec	40.3	40.1	41.3	41.2	-	2.9	2.8	3.1	3.0	
3483	Ammunition, exc. for small arms, nec	38.5	38.3	40.0	39.9	-	1.6	1.4	2.2	2.0	
349	Misc. fabricated metal products	40.9	41.4	41.0	40.9	-	3.6	3.6	3.5	3.4	
3494	Valves and pipe fittings	41.5	42.5	41.6	41.4	-	3.7	4.1	3.9	3.8	
3496	Misc. fabricated wire products	40.2	40.5	40.6	40.6	-	3.3	3.3	3.4	3.2	
	MACHINERY, EXCEPT ELECTRICAL										
35	MACHINERY, EXCEPT ELECTRICAL	42.0	42.5	41.9	41.6	41.8	4.4	4.5	4.1	4.0	
351	Engines and turbines	41.9	42.5	41.2	40.0	-	4.2	4.3	3.5	3.2	
3511	Turbines and turbine generator sets	42.0	41.7	39.7	39.6	-	5.2	4.6	3.7	3.6	
3519	Internal combustion engines, nec	41.9	42.8	41.6	40.1	-	3.8	4.2	3.4	3.1	
352	Farm and garden machinery	40.2	40.9	42.6	41.2	-	4.2	4.3	5.4	3.3	
3523	Farm machinery and equipment	40.3	41.0	43.1	41.7	-	4.4	4.4	5.7	3.4	
353	Construction and related machinery	42.4	42.5	41.6	41.2	-	4.1	3.9	3.5	3.7	

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$347.36	\$346.53	\$366.74	\$341.42	-	\$8.33	\$8.33	\$8.88	\$8.60	-
3532	Mining machinery	315.66	314.63	336.66	344.43	-	7.29	7.30	7.94	8.01	-
3533	Oil field machinery	301.89	309.52	314.08	322.71	-	6.83	6.94	7.39	7.54	-
3535	Conveyers and conveying equipment	256.85	263.11	288.93	301.07	-	6.13	6.22	7.03	7.22	-
3537	Industrial trucks and tractors	280.98	281.52	295.16	298.82	-	6.82	6.80	7.27	7.36	-
354	Metalworking machinery	315.08	324.12	335.28	338.34	-	7.21	7.30	7.69	7.76	-
3541	Machine tools, metal cutting types	332.57	340.80	350.06	358.14	-	7.44	7.49	7.92	8.03	-
3542	Machine tools, metal forming types	322.39	334.40	337.93	343.31	-	7.48	7.60	7.97	8.04	-
3544	Special dies, tools, jigs, and fixtures	347.08	355.81	359.42	363.38	-	7.73	7.82	8.15	8.24	-
3545	Machine tool accessories	275.14	281.39	315.23	313.93	-	6.52	6.59	7.23	7.25	-
3546	Power driven hand tools	230.77	238.71	248.21	245.21	-	5.67	5.78	6.01	6.01	-
355	Special industry machinery	272.41	279.72	292.58	295.71	-	6.58	6.66	7.05	7.16	-
3551	Food products machinery	286.35	295.96	303.89	311.82	-	6.90	7.03	7.43	7.55	-
3552	Textile machinery	220.19	224.26	235.01	240.94	-	5.41	5.43	5.76	5.92	-
3555	Printing trades machinery	274.90	280.90	308.72	305.65	-	6.64	6.72	7.23	7.26	-
356	General industrial machinery	286.21	293.16	309.92	314.84	-	6.88	6.98	7.45	7.55	-
3561	Pumps and pumping equipment	284.28	288.43	300.17	306.12	-	6.90	6.95	7.43	7.54	-
3562	Ball and roller bearings	291.35	298.07	317.15	324.78	-	6.97	7.08	7.48	7.66	-
3563	Air and gas compressors	301.75	310.61	323.67	330.30	-	7.10	7.19	7.67	7.79	-
3564	Blowers and fans	248.44	258.13	280.85	281.52	-	6.18	6.25	6.85	6.80	-
3568	Speed changers, drives, and gears	322.51	328.24	360.47	367.48	-	7.38	7.46	8.23	8.39	-
3568	Power transmission equipment, nec	283.75	289.07	297.02	306.07	-	6.74	6.85	7.14	7.27	-
357	Office and computing machines	235.41	243.23	257.29	254.20	-	5.70	5.75	6.17	6.17	-
3573	Electronic computing equipment	235.00	242.95	261.66	256.68	-	5.69	5.73	6.23	6.23	-
358	Refrigeration and service machinery	257.67	259.20	271.89	273.88	-	6.30	6.40	6.73	6.83	-
3585	Refrigeration and heating equipment	263.86	265.52	277.14	280.30	-	6.42	6.54	6.86	6.99	-
359	Misc. machinery, except electrical	285.66	290.06	300.35	305.53	-	6.69	6.73	7.22	7.38	-
3592	Carburetors, pistons, rings, valves	325.71	337.70	343.62	348.94	-	7.61	7.71	8.26	8.49	-
3599	Machinery, except electrical, nec	277.98	281.22	292.03	297.56	-	6.51	6.54	7.02	7.17	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	240.38	242.98	261.63	261.55	\$266.67	5.95	5.97	6.46	6.49	\$6.52
361	Electric distributing equipment	245.03	249.08	259.69	263.09	-	6.05	6.09	6.46	6.48	-
3612	Transformers	233.54	238.46	247.23	249.28	-	5.71	5.76	6.15	6.14	-
3613	Switchgear and switchboard apparatus	254.87	258.62	270.95	274.86	-	6.34	6.37	6.74	6.77	-
362	Electrical industrial apparatus	244.62	251.12	268.06	267.71	-	6.04	6.11	6.57	6.61	-
3621	Motors and generators	250.70	255.22	265.28	267.71	-	6.19	6.24	6.55	6.61	-
3622	Industrial controls	229.39	236.74	272.80	262.15	-	5.65	5.76	6.67	6.62	-
363	Household appliances	233.23	233.25	263.31	262.91	-	5.86	5.92	6.55	6.54	-
3632	Household refrigerators and freezers	255.10	243.05	290.39	296.12	-	6.33	6.43	7.17	7.24	-
3633	Household laundry equipment	266.81	269.35	315.29	313.34	-	6.93	6.96	7.69	7.68	-
3634	Electric housewares and fans	203.00	207.46	214.66	211.07	-	5.00	5.06	5.38	5.33	-
364	Electric lighting and wiring equipment	223.91	226.95	239.40	241.40	-	5.57	5.59	5.97	5.99	-
3641	Electric lamps	247.61	251.40	268.37	275.28	-	6.01	6.00	6.61	6.57	-
3643	Current-carrying wiring devices	206.92	209.90	231.49	230.61	-	5.16	5.17	5.66	5.68	-
3644	Noncurrent-carrying wiring devices	224.80	227.86	241.02	242.03	-	5.62	5.64	6.18	6.19	-
3645	Residential lighting fixtures	168.66	167.32	176.70	182.13	-	4.45	4.45	4.65	4.65	-
365	Radio and TV receiving equipment	215.60	213.25	232.26	226.00	-	5.50	5.44	5.88	5.87	-
3651	Radio and TV receiving sets	218.48	215.39	236.73	233.09	-	5.66	5.58	6.07	6.07	-
366	Communication equipment	280.71	284.28	315.40	311.19	-	6.83	6.85	7.60	7.59	-
3661	Telephone and telegraph apparatus	278.20	283.91	335.54	327.54	-	6.99	7.01	7.97	7.95	-
3662	Radio and TV communication equipment	281.82	285.10	300.12	299.39	-	6.71	6.74	7.32	7.32	-
367	Electronic components and accessories	200.50	204.82	218.80	219.30	-	5.00	5.02	5.47	5.51	-
3671-3	Electronic tubes	263.96	270.07	288.84	288.27	-	6.33	6.31	6.91	6.98	-
3674	Semiconductors and related devices	226.70	229.50	254.62	250.92	-	5.57	5.53	6.18	6.15	-
3679	Electronic components, nec	185.87	191.63	211.22	203.06	-	4.67	4.72	5.12	5.18	-
369	Misc. electrical equipment and supplies	292.22	292.63	297.19	302.47	-	7.11	7.12	7.32	7.45	-
3691	Storage batteries	313.96	306.71	311.13	313.29	-	7.37	7.32	7.57	7.66	-
3694	Engine electrical equipment	321.18	323.99	324.82	334.94	-	7.95	7.98	8.08	8.27	-
37	TRANSPORTATION EQUIPMENT	350.57	355.61	349.61	356.38	350.73	8.21	8.27	8.59	8.65	8.66
371	Motor vehicles and equipment	389.39	395.60	364.81	373.83	-	8.87	8.91	9.03	9.14	-
3711	Motor vehicles and car bodies	412.83	423.49	392.69	400.82	-	9.34	9.39	9.72	9.80	-
3713	Truck and bus bodies	284.62	285.82	295.14	293.96	-	7.08	7.04	7.36	7.48	-
3714	Motor vehicle parts and accessories	388.95	392.93	355.19	367.50	-	8.78	8.81	8.77	8.92	-
3715	Truck trailers	222.66	225.59	241.96	243.43	-	5.68	5.89	6.22	6.21	-
372	Aircraft and parts	329.02	335.91	354.89	359.54	-	7.76	7.83	8.37	8.44	-
3721	Aircraft	337.50	345.40	360.81	367.18	-	7.96	8.07	8.55	8.66	-
3724	Aircraft engines and engine parts	334.05	340.00	375.82	378.38	-	8.03	8.00	8.74	8.82	-
3728	Aircraft equipment, nec	305.42	309.72	318.61	321.96	-	7.07	7.12	7.55	7.54	-
373	Ship and boat building and repairing	265.72	264.60	287.90	299.43	-	6.71	6.75	7.42	7.43	-
3731	Shipbuilding and repairing	283.54	282.63	301.85	315.87	-	7.16	7.21	7.82	7.78	-
3732	Boat building and repairing	212.51	213.01	240.56	244.67	-	5.38	5.42	6.09	6.21	-
374	Railroad equipment	329.11	336.36	383.05	390.83	-	8.29	8.43	9.32	9.35	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
		MACHINERY, EXCEPT ELECTRICAL—Continued									
3531	Construction machinery	41.7	41.6	41.3	39.7	-	3.1	2.9	2.5	2.3	-
3532	Mining machinery	43.3	43.1	42.4	43.0	-	3.8	3.6	3.8	3.5	-
3533	Oil field machinery	44.2	44.6	42.5	42.8	-	5.9	5.6	4.8	5.4	-
3535	Conveyers and conveying equipment	41.9	42.3	41.1	41.7	-	4.1	4.0	3.5	3.7	-
3537	Industrial trucks and tractors	41.2	41.4	40.6	40.6	-	3.8	3.8	3.5	3.2	-
354	Metalworking machinery	43.7	44.4	43.6	43.6	-	5.9	6.3	5.8	5.8	-
3541	Machine tools, metal cutting types	44.7	45.5	44.2	44.6	-	6.8	7.3	6.5	6.8	-
3542	Machine tools, metal forming types	43.1	44.0	42.4	42.7	-	5.9	6.7	6.2	6.3	-
3544	Special dies, tools, jigs, and fixtures	44.9	45.5	44.1	44.1	-	6.8	7.2	6.1	6.0	-
3545	Machine tool accessories	42.2	42.7	43.6	43.3	-	4.9	5.2	5.8	5.5	-
3546	Power driven hand tools	40.7	41.3	41.3	40.8	-	3.3	3.7	4.1	3.5	-
355	Special industry machinery	41.4	42.0	41.5	41.3	-	4.0	4.3	3.9	3.8	-
3551	Food products machinery	41.5	42.1	40.9	41.3	-	3.5	3.8	3.5	3.4	-
3552	Textile machinery	40.7	41.3	40.8	40.7	-	3.0	3.0	3.1	3.1	-
3555	Printing trades machinery	41.4	41.8	42.7	42.1	-	4.3	4.5	4.6	4.2	-
356	General industrial machinery	41.6	42.0	41.6	41.7	-	4.4	4.5	4.2	4.2	-
3561	Pumps and pumping equipment	41.2	41.5	40.4	40.6	-	4.1	4.1	3.5	3.5	-
3562	Ball and roller bearings	41.8	42.1	42.4	42.4	-	5.2	5.2	4.5	4.7	-
3563	Air and gas compressors	42.5	43.2	42.2	42.4	-	4.1	4.5	4.6	4.7	-
3564	Blowers and fans	40.2	41.3	41.0	41.4	-	3.5	3.6	4.4	4.1	-
3566	Speed changers, drives, and gears	43.7	44.0	43.8	43.8	-	5.1	5.4	5.8	6.0	-
3568	Power transmission equipment, nec	42.1	42.2	41.6	42.1	-	4.8	4.8	4.0	4.6	-
357	Office and computing machines	41.3	42.3	41.7	41.2	-	3.2	3.4	2.9	2.8	-
3573	Electronic computing equipment	41.3	42.4	42.0	41.2	-	3.1	3.3	3.1	2.8	-
358	Refrigeration and service machinery	40.9	40.5	40.4	40.1	-	3.2	3.1	2.6	2.5	-
3585	Refrigeration and heating equipment	41.1	40.6	40.4	40.1	-	3.3	3.3	2.7	2.7	-
359	Misc. machinery, except electrical	42.7	43.1	41.6	41.4	-	5.1	5.2	4.2	4.4	-
3592	Carburetors, pistons, rings, valves	42.8	43.8	41.6	41.1	-	4.0	4.7	3.4	3.2	-
3599	Machinery, except electrical, nec	42.7	43.0	41.6	41.5	-	5.3	5.3	4.4	4.6	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.4	40.7	40.5	40.3	40.9	3.0	3.1	2.9	2.8	-
361	Electric distributing equipment	40.5	40.9	40.2	40.6	-	3.0	3.1	2.7	3.0	-
3612	Transformers	40.9	41.4	40.2	40.6	-	3.0	3.3	3.0	3.0	-
3613	Switchgear and switchboard apparatus	40.2	40.6	40.2	40.6	-	2.9	3.0	2.5	2.9	-
362	Electrical industrial apparatus	40.5	41.1	40.8	40.5	-	3.1	3.2	3.1	3.0	-
3621	Motors and generators	40.5	40.9	40.5	40.5	-	3.2	3.3	2.9	3.2	-
3622	Industrial controls	40.6	41.1	40.9	39.6	-	2.5	2.8	3.3	2.1	-
363	Household appliances	39.8	39.4	40.2	40.2	-	2.3	2.3	2.8	2.7	-
3632	Household refrigerators and freezers	40.3	37.8	40.5	40.9	-	1.6	1.4	2.6	2.7	-
3633	Household laundry equipment	38.5	38.7	41.0	40.8	-	.8	1.5	1.7	1.5	-
3634	Electric housewares and fans	40.6	41.0	39.9	39.6	-	3.4	3.1	3.1	2.7	-
364	Electric lighting and wiring equipment	40.2	40.6	40.1	40.3	-	3.0	3.1	2.8	2.8	-
3641	Electric lamps	41.2	41.9	40.6	41.9	-	2.9	3.3	2.4	3.0	-
3643	Current-carrying wiring devices	40.1	40.6	40.9	40.6	-	3.0	2.9	3.3	3.2	-
3644	Noncurrent-carrying wiring devices	40.0	40.4	39.0	39.1	-	3.0	3.1	2.3	2.5	-
3645	Residential lighting fixtures	37.9	37.6	38.0	39.0	-	2.2	1.8	2.0	2.3	-
365	Radio and TV receiving equipment	39.2	39.2	39.5	38.5	-	2.4	2.1	2.3	1.7	-
3651	Radio and TV receiving sets	38.6	38.6	39.0	38.4	-	1.8	1.6	1.7	1.3	-
366	Communication equipment	41.1	41.5	41.5	41.0	-	3.0	3.3	3.1	2.8	-
3661	Telephone and telegraph apparatus	39.8	40.5	42.1	41.2	-	2.9	3.3	3.6	3.3	-
3662	Radio and TV communication equipment	42.0	42.3	41.0	40.9	-	3.1	3.3	2.7	2.5	-
367	Electronic components and accessories	40.1	40.8	40.0	39.8	-	2.8	3.0	3.0	3.0	-
3671-3	Electronic tubes	41.7	42.8	41.8	41.3	-	2.1	2.6	2.4	2.1	-
3674	Semiconductors and related devices	40.7	41.5	41.2	40.8	-	3.6	3.8	4.1	3.9	-
3679	Electronic components, nec	39.8	40.6	39.3	39.2	-	2.7	3.0	2.7	2.8	-
369	Misc. electrical equipment and supplies	41.1	41.1	40.6	40.6	-	4.0	3.9	2.7	2.7	-
3691	Storage batteries	42.6	41.9	41.1	40.9	-	5.4	5.1	4.0	3.6	-
3694	Engine electrical equipment	40.4	40.6	40.2	40.5	-	3.8	3.9	1.9	2.2	-
37	TRANSPORTATION EQUIPMENT	42.7	43.0	40.7	41.2	40.5	5.6	5.7	3.9	3.8	-
371	Motor vehicles and equipment	43.9	44.4	40.4	40.9	-	7.0	7.1	3.5	3.5	-
3711	Motor vehicles and car bodies	44.2	45.1	40.4	40.9	-	7.4	7.8	4.0	4.0	-
3713	Truck and bus bodies	40.2	40.6	40.1	39.3	-	4.0	3.6	3.6	2.6	-
3714	Motor vehicle parts and accessories	44.3	44.6	40.5	41.2	-	7.2	7.1	3.1	3.3	-
3715	Truck trailers	39.2	38.3	38.9	39.2	-	2.7	3.1	2.5	2.1	-
372	Aircraft and parts	42.4	42.9	42.4	42.6	-	4.7	4.8	4.8	4.9	-
3721	Aircraft	42.4	42.8	42.2	42.4	-	4.0	4.0	4.2	4.3	-
3724	Aircraft engines and engine parts	41.6	42.5	43.0	42.9	-	5.2	5.3	5.5	5.5	-
3728	Aircraft equipment, nec	43.2	43.5	42.2	42.7	-	5.6	5.8	5.5	5.4	-
373	Ship and boat building and repairing	39.6	39.2	38.8	40.3	-	2.8	2.6	3.7	3.6	-
3731	Ship building and repairing	39.6	39.2	38.6	40.6	-	2.9	2.7	4.0	3.8	-
3732	Boat building and repairing	39.5	39.3	39.5	39.4	-	2.8	2.4	2.6	2.7	-
374	Railroad equipment	39.7	39.9	41.1	41.8	-	3.6	3.6	4.7	4.3	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$336.01	\$345.93	\$355.26	\$350.14	-	\$7.76	\$7.88	\$8.54	\$8.54	-
3761	Guided missiles and space vehicles	331.55	345.56	360.26	354.65	-	7.97	8.15	8.66	8.65	-
379	Miscellaneous transportation equipment	220.97	221.60	258.84	254.80	-	5.58	5.61	6.62	6.55	-
3792	Travel trailers and campers	196.72	193.17	219.63	218.95	-	5.07	5.07	5.92	5.87	-
38	INSTRUMENTS AND RELATED PRODUCTS	237.39	241.19	252.75	257.86	\$267.30	5.79	5.84	6.21	6.32	\$6.41
381	Engineering and scientific instruments	260.65	262.88	278.28	279.14	-	6.09	6.20	6.61	6.71	-
382	Measuring and controlling devices	241.13	248.12	260.21	257.48	-	5.91	5.95	6.27	6.28	-
3822	Environmental controls	225.28	228.98	238.36	239.76	-	5.59	5.64	5.90	5.92	-
3823	Process control instruments	254.28	260.15	274.09	270.09	-	6.04	6.05	6.33	6.37	-
3825	Instruments to measure electricity	249.48	259.98	274.48	272.65	-	6.16	6.19	6.63	6.65	-
383	Optical instruments and lenses	271.92	282.06	299.10	295.12	-	6.18	6.31	6.86	6.80	-
384	Medical instruments and supplies	202.40	201.60	204.48	207.48	-	5.01	5.04	5.27	5.32	-
3841	Surgical and medical instruments	197.41	192.56	190.22	195.62	-	4.78	4.79	4.89	4.94	-
3842	Surgical appliances and supplies	206.96	209.48	216.28	217.28	-	5.20	5.25	5.56	5.60	-
385	Ophthalmic goods	179.80	184.71	192.34	192.84	-	4.67	4.70	4.97	4.97	-
386	Photographic equipment and supplies	308.25	310.25	327.85	361.99	-	7.27	7.30	7.90	8.36	-
387	Watches, clocks, and watchcases	176.31	178.75	186.76	187.31	-	4.43	4.48	4.74	4.84	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	186.12	188.73	199.25	201.33	204.17	4.76	4.79	5.07	5.11	5.13
391	Jewelry, silverware, and plated ware	191.69	197.69	203.84	206.46	-	4.89	4.93	5.20	5.24	-
3911	Jewelry, precious metal	184.89	192.94	195.97	198.51	-	4.84	4.86	5.09	5.09	-
393	Musical instruments	184.61	188.47	209.10	211.97	-	4.65	4.70	5.10	5.17	-
394	Toys and sporting goods	168.96	169.40	181.03	181.50	-	4.40	4.40	4.63	4.63	-
3942, 4	Dolls, games, toys, and children's vehicles	160.82	161.66	174.66	174.00	-	4.21	4.21	4.49	4.45	-
3949	Sporting and athletic goods, nec	178.41	177.49	187.85	189.43	-	4.61	4.61	4.78	4.82	-
395	Pens, pencils, office and art supplies	199.35	204.85	217.46	218.36	-	4.91	4.96	5.24	5.30	-
396	Costume jewelry and notions	156.15	155.45	162.69	162.06	-	4.12	4.08	4.35	4.38	-
3961	Costume jewelry	144.20	140.59	153.22	148.68	-	3.94	3.81	4.13	4.13	-
399	Miscellaneous manufactures	212.80	216.40	223.40	227.66	-	5.32	5.41	5.67	5.72	-
3993	Signs and advertising displays	220.81	226.40	229.70	234.81	-	5.59	5.66	5.92	5.99	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	235.01	238.80	257.00	255.04	259.60	5.89	5.97	6.33	6.36	6.49
201	Meat products	240.79	245.60	263.09	261.87	-	6.05	6.14	6.48	6.45	-
2011	Meat packing plants	302.74	311.22	331.43	336.77	-	7.26	7.34	7.91	7.85	-
2013	Sausages and other prepared meats	269.60	274.11	310.54	305.83	-	6.86	6.87	7.63	7.57	-
2016	Poultry dressing plants	145.88	146.49	164.58	160.44	-	3.89	3.97	4.22	4.20	-
202	Dairy products	246.79	249.04	269.19	264.45	-	5.99	6.03	6.44	6.45	-
2022	Cheese, natural and processed	227.03	226.86	242.53	242.53	-	5.69	5.70	6.14	6.14	-
2026	Fluid milk	257.65	262.03	285.98	276.78	-	6.12	6.18	6.62	6.59	-
203	Preserved fruits and vegetables	197.57	194.04	228.66	213.30	-	5.04	5.04	5.55	5.40	-
2032	Canned specialties	245.27	255.09	282.83	272.36	-	5.91	5.96	6.37	6.29	-
2033	Canned fruits and vegetables	192.27	187.21	231.30	203.06	-	4.93	4.85	5.56	5.22	-
2037	Frozen fruits and vegetables	195.62	179.45	223.93	209.47	-	4.94	4.85	5.37	5.33	-
204	Grain mill products	287.95	287.32	307.48	310.37	-	6.50	6.53	7.02	7.07	-
2041	Flour and other grain mill products	335.59	341.29	346.39	356.73	-	7.08	7.17	7.37	7.51	-
2048	Prepared feeds, nec	228.51	226.80	255.11	254.15	-	5.17	5.19	5.72	5.75	-
205	Bakery products	237.78	242.97	261.97	264.13	-	6.16	6.23	6.70	6.79	-
2051	Bread, cake, and related products	236.69	241.64	260.84	264.80	-	6.18	6.26	6.74	6.86	-
2052	Cookies and crackers	239.16	247.85	263.71	261.62	-	6.07	6.15	6.56	6.59	-
206	Sugar and confectionery products	226.63	227.03	239.55	241.08	-	5.68	5.69	6.08	6.15	-
2061-3	Cane and beet sugar	261.62	272.41	297.82	297.31	-	6.59	6.58	7.39	7.47	-
2065	Confectionery products	200.30	193.83	209.60	207.90	-	5.02	4.97	5.43	5.40	-
207	Fats and oils	267.09	277.50	292.95	287.11	-	6.14	6.25	6.75	6.57	-
208	Beverages	285.20	289.35	311.19	305.20	-	7.13	7.18	7.59	7.63	-
2082	Malt beverages	395.65	408.92	427.45	429.72	-	9.65	9.69	10.30	10.43	-
2086	Bottled and canned soft drinks	207.64	205.67	228.02	218.79	-	5.27	5.26	5.63	5.61	-
209	Misc. foods and kindred products	193.02	198.88	206.83	211.31	-	5.12	5.22	5.56	5.62	-
21	TOBACCO MANUFACTURES	218.83	232.97	255.71	249.10	271.99	5.82	6.02	6.54	6.42	7.01
211	Cigarettes	273.04	288.79	316.91	308.27	-	7.46	7.56	8.21	8.07	-
22	TEXTILE MILL PRODUCTS	178.13	180.67	196.66	197.06	199.34	4.42	4.45	4.82	4.83	4.85
221	Weaving mills, cotton	190.81	194.84	213.53	211.68	-	4.62	4.65	5.06	5.04	-
222	Weaving mills, synthetics	195.67	198.34	213.69	212.67	-	4.67	4.70	5.10	5.10	-
223	Weaving and finishing mills, wool	184.87	187.01	196.26	196.61	-	4.52	4.55	4.87	4.94	-
224	Narrow fabric mills	162.37	167.27	174.40	176.76	-	4.09	4.13	4.36	4.43	-
225	Knitting mills	155.50	156.62	171.38	172.60	-	4.06	4.10	4.44	4.46	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 _p	Nov. 1979 _p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 _p	Nov. 1979 _p
TRANSPORTATION EQUIPMENT—Continued											
378	Guided missiles, space vehicles, parts	43.3	43.9	41.6	41.0	-	5.2	5.5	5.0	4.3	-
3761	Guided missiles and space vehicles	41.6	42.4	41.6	41.0	-	4.0	4.4	4.4	3.5	-
379	Miscellaneous transportation equipment	39.6	39.5	39.1	38.9	-	2.3	2.2	1.5	1.6	-
3792	Travel trailers and campers	38.8	38.1	37.1	37.3	-	2.2	1.9	1.0	1.4	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	41.0	41.3	40.7	40.8	41.7	2.9	2.8	2.8	2.6	-
361	Measuring and controlling devices	42.8	42.4	42.1	41.6	-	3.7	3.6	4.2	3.8	-
382	Environmental controls	40.8	41.7	41.5	41.0	-	2.5	2.6	2.9	2.6	-
3622	Process control instruments	40.3	40.6	40.4	40.5	-	1.6	2.0	2.0	1.7	-
3823	Instruments to measure electricity	42.1	43.0	43.3	42.4	-	3.7	3.7	3.9	3.3	-
3825	Optical instruments and lenses	40.5	42.0	41.4	41.0	-	2.0	2.1	2.4	2.2	-
383	Medical instruments and supplies	44.0	44.7	43.6	43.4	-	3.5	4.0	3.6	3.9	-
384	Surgical and medical instruments	40.4	40.0	38.8	39.0	-	3.2	2.7	2.0	2.0	-
3841	Surgical appliances and supplies	41.3	40.2	38.9	39.6	-	4.3	3.3	2.4	2.3	-
3842	Ophthalmic goods	39.8	39.9	38.9	38.8	-	2.4	2.2	1.9	2.1	-
385	Photographic equipment and supplies	38.5	39.3	38.7	38.8	-	1.8	1.9	1.9	1.7	-
386	Watches, clocks, and watchcases	42.4	42.5	41.5	43.3	-	3.5	3.5	3.1	3.3	-
387	Watches, clocks, and watchcases	39.8	39.9	39.4	38.7	-	2.4	2.1	2.0	1.5	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	39.1	39.4	39.3	39.4	39.8	2.8	2.6	2.7	2.7	-
391	Jewelry, precious metal	39.2	40.1	39.2	39.4	-	3.2	3.8	2.5	2.6	-
3911	Musical instruments	38.2	39.7	38.5	39.0	-	2.8	4.0	2.3	2.5	-
393	Toys and sporting goods	39.7	40.1	41.0	41.0	-	2.1	2.1	2.3	2.4	-
394	Dolls, games, toys, and children's vehicles	38.4	38.5	39.1	39.2	-	2.4	1.9	2.4	2.6	-
3942, 4	Sporting and athletic goods, nec	38.2	38.4	38.9	39.1	-	2.8	2.0	2.4	2.8	-
3949	Pens, pencils, office and art supplies	38.7	38.5	39.3	39.3	-	1.8	1.7	2.5	2.5	-
395	Costume jewelry and notions	40.6	41.3	41.5	41.2	-	2.7	3.1	3.5	3.1	-
396	Costume jewelry and notions	37.9	38.1	37.4	37.0	-	3.1	2.7	2.0	2.0	-
3961	Miscellaneous manufactures	36.6	36.9	37.1	36.0	-	3.1	2.4	1.8	1.6	-
399	Signs and advertising displays	40.0	40.0	39.4	39.8	-	2.9	2.6	3.1	3.2	-
3993	Signs and advertising displays	39.5	40.0	38.8	39.2	-	2.8	2.7	2.8	2.8	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.9	40.0	40.6	40.1	40.0	4.1	4.0	4.8	4.3	-
201	Meat packing plants	39.8	40.0	40.6	40.6	-	4.0	4.0	4.7	4.6	-
2011	Sausages and other prepared meats	41.7	42.4	41.9	42.9	-	5.0	4.8	5.5	5.6	-
2013	Poultry dressing plants	39.3	39.9	40.7	40.4	-	3.1	3.4	4.6	4.3	-
2016	Dairy products	37.5	36.9	39.0	38.2	-	3.1	3.2	4.1	3.8	-
202	Cheese, natural and processed	41.2	41.3	41.8	41.0	-	4.0	3.9	4.5	3.9	-
2022	Fluid milk	39.9	39.8	39.5	39.5	-	3.9	3.3	3.6	3.4	-
2026	Preserved fruits and vegetables	42.1	42.4	43.2	42.0	-	4.2	4.3	4.9	4.2	-
203	Canned specialties	39.2	38.5	41.2	39.5	-	4.0	3.3	6.1	4.4	-
2032	Canned fruits and vegetables	41.5	42.8	44.4	43.3	-	5.9	7.2	8.2	7.4	-
2033	Frozen fruits and vegetables	39.0	38.6	41.6	38.9	-	4.6	3.5	7.1	4.7	-
2037	Grain mill products	39.6	37.0	41.7	39.3	-	3.9	2.5	6.0	4.8	-
204	Flour and other grain mill products	44.3	44.0	43.8	43.9	-	7.0	6.3	6.8	6.5	-
2041	Prepared feeds, nec	47.4	47.6	47.0	47.5	-	8.6	8.1	8.5	8.5	-
2048	Bakery products	44.2	43.7	44.6	44.2	-	6.8	6.0	7.3	6.7	-
205	Bread, cake, and related products	38.6	39.0	39.1	38.9	-	3.2	3.5	3.6	3.1	-
2051	Cookies and crackers	38.3	38.6	38.7	38.6	-	3.5	3.9	4.0	3.4	-
2052	Sugar and confectionery products	39.4	40.3	40.2	39.7	-	2.4	2.4	2.5	2.4	-
206	Cane and beet sugar	39.9	39.9	39.4	39.2	-	3.6	3.4	3.2	3.5	-
2061-3	Confectionery products	39.7	41.4	40.3	39.8	-	5.0	4.7	4.1	5.1	-
2065	Fats and oils	39.9	39.0	38.6	38.5	-	3.0	2.9	2.7	2.8	-
207	Beverages	43.5	44.4	43.4	43.7	-	6.0	6.1	5.9	6.4	-
208	Malt beverages	40.0	40.3	41.0	40.0	-	4.0	3.8	4.4	3.8	-
2082	Bottled and canned soft drinks	41.0	42.2	41.5	41.2	-	4.8	5.5	5.1	5.0	-
2086	Misc. foods and kindred products	39.4	39.1	40.5	39.0	-	3.4	2.8	4.4	3.3	-
209	Misc. foods and kindred products	37.7	38.1	37.2	37.6	-	3.3	3.6	3.3	3.3	-
TOBACCO MANUFACTURES											
21	Cigarettes	37.6	38.7	39.1	38.8	38.8	1.5	2.1	2.3	1.6	-
211	Cigarettes	36.6	38.2	38.6	38.2	-	1.3	2.2	2.6	1.6	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	40.3	40.6	40.8	40.8	41.1	3.6	3.8	3.8	3.8	-
221	Weaving mills, synthetics	41.3	41.9	42.2	42.0	-	4.1	4.7	4.8	4.6	-
222	Weaving and finishing mills, wool	41.9	42.2	41.9	41.7	-	4.2	4.5	4.0	4.3	-
223	Narrow fabric mills	40.9	41.1	40.3	39.8	-	4.0	3.6	3.1	3.3	-
224	Knitting mills	39.7	40.5	40.0	39.9	-	3.1	3.0	2.4	3.1	-
225	Knitting mills	38.3	38.2	38.6	38.7	-	2.7	2.7	2.7	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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$153.22	\$154.42	\$163.20	\$162.21	-	\$3.84	\$3.88	\$4.25	\$4.28	-
2252	Hosiery, nec	141.26	140.82	153.09	159.18	-	3.87	3.89	4.16	4.20	-
2253	Knit outerwear mills	146.80	147.86	169.56	168.14	-	4.00	4.04	4.37	4.39	-
2254	Knit underwear mills	143.25	144.02	146.56	150.90	-	3.75	3.79	4.14	4.18	-
2257	Circular knit fabric mills	184.91	183.06	198.13	199.92	-	4.51	4.52	4.88	4.90	-
226	Textile finishing, except wool	189.88	196.05	217.18	215.79	-	4.70	4.77	5.11	5.15	-
2261	Finishing plants, cotton	194.25	200.86	222.60	221.12	-	4.82	4.84	5.25	5.29	-
2262	Finishing plants, synthetics	201.06	203.77	226.61	227.06	-	4.88	4.97	5.27	5.33	-
227	Floor covering mills	189.28	193.28	205.76	206.57	-	4.55	4.58	4.97	4.93	-
228	Yarn and thread mills	168.90	168.87	186.59	187.46	-	4.16	4.18	4.54	4.55	-
2281	Yarn mills, except wool	168.90	169.30	189.24	191.03	-	4.16	4.17	4.56	4.57	-
2282	Throwing and winding mills	162.78	163.21	173.96	175.67	-	3.98	4.06	4.36	4.37	-
229	Miscellaneous textile goods	198.77	200.64	212.16	216.60	-	4.86	4.87	5.20	5.27	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	142.71	145.04	151.51	153.36	\$153.72	4.02	4.04	4.28	4.32	\$4.33
231	Men's and boys' suits and coats	175.29	180.18	176.81	181.79	-	4.91	4.95	5.11	5.30	-
232	Men's and boys' furnishings	128.88	131.77	143.02	144.97	-	3.60	3.65	3.94	3.95	-
2321	Men's and boys' shirts and nightwear	127.76	131.38	141.26	141.64	-	3.51	3.57	3.87	3.87	-
2327	Men's and boys' separate trousers	131.65	132.38	139.78	144.79	-	3.74	3.75	4.04	4.09	-
2328	Men's and boys' work clothing	126.73	131.02	144.01	147.07	-	3.53	3.57	3.83	3.83	-
233	Women's and misses' outerwear	134.06	135.94	142.33	143.09	-	3.99	4.01	4.30	4.31	-
2331	Women's and misses' blouses and waists	128.00	130.15	132.80	137.76	-	3.71	3.74	4.00	4.04	-
2336	Women's and misses' dresses	132.43	135.05	138.85	140.60	-	4.10	4.13	4.38	4.38	-
2337	Women's and misses' suits and coats	140.38	140.61	158.39	152.57	-	4.28	4.30	4.70	4.68	-
2339	Women's and misses' outerwear, nec	135.14	137.42	142.90	143.87	-	3.85	3.86	4.13	4.17	-
234	Women's and children's undergarments	131.41	132.13	141.54	142.27	-	3.62	3.64	3.91	3.93	-
2341	Women's and children's underwear	128.16	128.52	140.14	140.50	-	3.56	3.57	3.85	3.86	-
2342	Brassieres and allied garments	143.23	146.23	147.74	150.88	-	3.84	3.91	4.15	4.25	-
236	Children's outerwear	126.74	131.41	138.16	138.84	-	3.57	3.62	3.87	3.90	-
2361	Children's dresses and blouses	126.02	130.30	135.72	137.14	-	3.53	3.56	3.77	3.82	-
238	Misc. apparel and accessories	142.03	143.58	152.26	154.51	-	3.87	3.87	4.16	4.21	-
239	Misc. fabricated textile products	183.61	186.05	184.89	188.93	-	4.72	4.71	4.84	4.92	-
2391	Curtains and draperies	129.48	134.82	143.64	145.54	-	3.49	3.52	3.80	3.81	-
2392	House furnishing, nec	157.98	161.20	166.99	167.84	-	4.03	4.03	4.26	4.26	-
2396	Automotive and apparel trimmings	316.92	314.99	291.78	306.14	-	7.60	7.59	7.52	7.77	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	285.90	291.60	312.56	312.99	315.98	6.68	6.75	7.32	7.33	7.40
261, 2, 6	Paper mills, except building paper	347.85	351.85	381.37	390.53	-	7.73	7.75	8.57	8.64	-
262	Paper mills, except building paper	350.49	354.18	383.85	392.16	-	7.72	7.75	8.53	8.60	-
263	Paperboard mills	356.80	364.14	383.24	384.52	-	8.00	8.11	8.71	8.68	-
264	Misc. converted paper products	242.54	249.00	264.68	264.50	-	5.93	6.00	6.44	6.42	-
2641	Paper coating and glazing	295.31	299.15	315.08	312.33	-	6.82	6.83	7.21	7.18	-
2642	Envelopes	221.05	231.69	236.21	238.19	-	5.54	5.61	5.92	5.94	-
2643	Bags, except textile bags	235.31	239.13	251.74	254.20	-	5.67	5.68	6.14	6.14	-
265	Paperboard containers and boxes	254.82	258.83	273.23	269.75	-	6.01	6.09	6.49	6.50	-
2651	Folding paperboard boxes	264.12	270.24	279.18	277.80	-	6.20	6.27	6.60	6.63	-
2653	Corrugated and solid fiber boxes	272.16	274.34	292.32	285.60	-	6.30	6.38	6.83	6.80	-
2654	Sanitary food containers	226.55	234.17	257.79	256.27	-	5.58	5.67	6.08	6.19	-
PRINTING AND PUBLISHING											
27	Newspapers	249.86	253.75	266.82	264.75	268.71	6.61	6.66	7.04	7.06	7.09
271	Newspapers	234.27	247.81	250.88	251.20	-	6.83	7.06	7.23	7.26	-
272	Periodicals	232.02	233.36	247.41	240.17	-	5.98	6.03	6.58	6.58	-
273	Books	232.26	230.88	246.52	244.60	-	5.91	5.92	6.37	6.42	-
2731	Book publishing	223.47	223.44	235.01	233.38	-	5.73	5.70	6.12	6.24	-
2732	Book printing	241.38	238.23	259.35	256.74	-	6.08	6.14	6.65	6.60	-
274	Miscellaneous publishing	209.20	213.22	223.13	210.02	-	5.86	5.89	6.13	6.07	-
275	Commercial printing	267.63	269.01	286.99	284.10	-	6.88	6.88	7.34	7.36	-
2751	Commercial printing, letterpress	248.18	248.58	263.89	260.75	-	6.48	6.44	6.89	6.88	-
2752	Commercial printing, lithographic	278.24	278.95	299.38	295.99	-	7.08	7.08	7.56	7.57	-
276	Manifold business forms	260.21	263.55	278.12	280.30	-	6.27	6.29	6.80	6.82	-
278	Blankbooks and bookbinding	198.12	200.38	208.74	210.14	-	5.08	5.06	5.38	5.43	-
279	Printing trade services	331.19	332.35	351.51	346.71	-	8.67	8.61	9.13	9.10	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	301.98	305.41	323.11	325.68	331.33	7.19	7.22	7.73	7.81	7.87
281	Industrial inorganic chemicals	334.96	340.63	357.01	359.13	-	7.90	7.94	8.48	8.49	-
2819	Industrial inorganic chemicals, nec	328.64	333.48	356.14	361.23	-	7.90	7.94	8.52	8.56	-
282	Plastics materials and synthetics	298.78	302.87	311.33	318.66	-	7.03	7.06	7.52	7.66	-
2821	Plastics materials and resins	336.78	343.54	350.24	358.27	-	7.76	7.79	8.28	8.41	-
2824	Organic fibers, noncellulosic	273.19	274.03	290.69	297.88	-	6.52	6.54	7.09	7.23	-
283	Drugs	270.58	271.00	293.82	297.46	-	6.52	6.53	7.08	7.22	-
2834	Pharmaceutical preparations	262.86	261.76	281.93	283.39	-	6.38	6.40	6.91	6.98	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	39.9	39.8	38.4	37.9	-	3.1	3.1	3.1	3.1	-
2252	Hosiery, nec	36.5	36.2	36.8	37.9	-	2.3	2.1	1.9	2.2	-
2253	Knit outerwear mills	36.7	36.6	38.8	38.3	-	1.9	1.9	2.5	2.5	-
2254	Knit underwear mills	38.2	38.0	35.4	36.1	-	2.1	2.1	1.0	1.3	-
2257	Circular knit fabric mills	41.0	40.5	40.6	40.8	-	4.6	4.2	4.1	4.0	-
226	Textile finishing, except wool	40.4	41.1	42.5	41.9	-	3.7	4.1	4.2	4.1	-
2261	Finishing plants, cotton	40.3	41.5	42.4	41.8	-	3.8	4.1	4.0	4.0	-
2262	Finishing plants, synthetics	41.2	41.0	43.0	42.6	-	4.2	4.8	4.8	4.7	-
227	Floor covering mills	41.6	42.2	41.4	41.9	-	4.3	4.6	5.1	4.4	-
228	Yarn and thread mills	40.6	40.4	41.1	41.2	-	3.7	3.5	3.9	4.0	-
2281	Yarn mills, except wool	40.6	40.6	41.5	41.8	-	3.8	3.7	4.2	4.3	-
2282	Throwing and winding mills	40.9	40.2	39.9	40.2	-	3.7	3.5	3.2	3.5	-
229	Miscellaneous textile goods	40.9	41.2	40.8	41.1	-	4.2	3.7	3.6	3.8	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	35.5	35.9	35.4	35.5	35.5	1.4	1.4	1.2	1.2	-
231	Men's and boys' suits and coats	35.7	36.4	34.6	34.3	-	1.0	.9	.6	.5	-
232	Men's and boys' furnishings	35.8	36.1	36.3	36.7	-	1.0	1.0	1.2	1.2	-
2321	Men's and boys' shirts and nightwear	36.4	36.8	36.5	36.6	-	1.1	1.1	1.1	1.1	-
2327	Men's and boys' separate trousers	35.2	35.3	34.6	35.4	-	.7	.7	1.2	1.3	-
2328	Men's and boys' work clothing	35.9	36.7	37.6	38.4	-	.9	1.1	1.3	1.3	-
233	Women's and misses' outerwear	33.6	33.9	33.1	33.2	-	1.2	1.2	.9	.9	-
2331	Women's and misses' blouses and waists	34.5	34.8	33.2	34.1	-	1.0	1.1	.6	.6	-
2335	Women's and misses' dresses	32.3	32.7	31.7	32.1	-	1.2	1.2	1.0	1.0	-
2337	Women's and misses' suits and coats	32.8	32.7	33.7	32.6	-	.9	.7	1.0	.8	-
2339	Women's and misses' outerwear, nec	35.1	35.6	34.6	34.5	-	1.4	1.5	1.0	1.0	-
234	Women's and children's undergarments	36.3	36.3	36.2	36.2	-	1.3	1.2	1.4	1.5	-
2341	Women's and children's underwear	36.0	36.0	36.4	36.4	-	1.3	1.2	1.5	1.6	-
2342	Brassieres and allied garments	37.3	37.4	35.6	35.5	-	1.1	1.0	1.2	1.2	-
236	Children's outerwear	35.5	36.3	35.7	35.6	-	1.2	1.4	1.1	1.2	-
2361	Children's dresses and blouses	35.7	36.6	36.0	35.9	-	1.8	1.8	1.0	1.2	-
238	Misc. apparel and accessories	36.7	37.1	36.6	36.7	-	1.7	1.8	1.5	1.5	-
239	Misc. fabricated textile products	38.9	39.5	38.2	38.4	-	2.7	2.8	1.7	1.7	-
2391	Curtains and draperies	37.1	38.3	37.8	38.2	-	1.7	2.2	.9	1.0	-
2392	House furnishings, nec	39.2	40.0	39.2	39.4	-	2.6	2.7	2.8	2.6	-
2396	Automotive and apparel trimmings	41.7	41.5	38.8	39.4	-	5.1	4.6	1.5	1.8	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	42.8	43.2	42.7	42.7	42.7	5.3	5.3	5.2	5.0	-
261, 2, 6	Paper and pulp mills	45.0	45.4	44.5	45.2	-	6.8	6.9	7.0	7.1	-
262	Paper mills, except building paper	45.4	45.7	45.0	45.6	-	7.0	7.1	7.1	7.2	-
263	Paperboard mills	44.6	44.9	44.0	44.3	-	7.4	7.5	7.2	7.3	-
264	Misc. converted paper products	40.9	41.5	41.1	41.2	-	4.0	4.1	3.7	3.5	-
2641	Paper coating and glazing	43.3	43.8	43.7	43.5	-	5.8	5.7	4.9	4.4	-
2642	Envelopes	39.9	41.3	39.9	40.1	-	3.4	3.6	3.2	3.1	-
2643	Bags, except textile bags	41.5	42.1	41.0	41.4	-	3.8	4.1	3.8	3.5	-
265	Paperboard containers and boxes	42.4	42.5	42.1	41.5	-	4.6	4.4	4.3	3.9	-
2651	Folding paperboard boxes	42.6	43.1	42.3	41.9	-	4.9	4.6	4.0	3.8	-
2653	Corrugated and solid fiber boxes	43.2	43.0	42.8	42.0	-	5.2	4.8	5.1	4.5	-
2654	Sanitary food containers	40.6	41.3	42.4	41.4	-	3.1	3.3	3.7	3.3	-
PRINTING AND PUBLISHING											
27	Printing and publishing	37.8	38.1	37.9	37.5	37.9	3.3	3.2	3.2	2.9	-
271	Newspapers	34.3	35.1	34.7	34.6	-	2.2	2.6	2.2	2.2	-
272	Periodicals	38.8	38.7	37.6	36.5	-	3.6	3.1	2.4	2.1	-
273	Books	39.3	39.0	38.7	38.1	-	3.8	3.6	3.3	2.8	-
2731	Book publishing	39.0	39.2	38.4	37.4	-	2.1	2.1	1.9	1.7	-
2732	Book printing	39.7	38.8	39.0	38.9	-	5.6	5.1	4.8	3.9	-
274	Miscellaneous publishing	35.7	36.2	36.4	34.6	-	2.5	2.4	2.1	1.9	-
275	Commercial printing	38.9	39.1	39.1	38.6	-	3.9	3.7	3.9	3.5	-
2751	Commercial printing, letterpress	38.3	38.6	38.3	37.9	-	3.3	2.9	3.2	2.8	-
2752	Commercial printing, lithographic	39.3	39.4	39.6	39.1	-	4.2	4.0	4.3	3.8	-
276	Manifold business forms	41.5	41.9	40.9	41.1	-	4.0	4.0	3.7	3.6	-
278	Blankbooks and bookbinding	39.0	39.6	38.8	38.7	-	2.6	2.5	2.6	2.4	-
279	Printing trade service	38.2	38.6	38.5	38.1	-	3.9	3.5	4.1	3.8	-
CHEMICALS AND ALLIED PRODUCTS											
28	Chemicals and allied products	42.0	42.3	41.8	41.7	42.1	3.7	3.6	3.7	3.5	-
281	Industrial inorganic chemicals	42.4	42.9	42.1	42.3	-	4.0	4.1	4.0	3.9	-
2819	Industrial inorganic chemicals, nec	41.6	42.0	41.8	42.2	-	3.4	3.2	3.7	3.8	-
282	Plastics materials and synthetics	42.5	42.9	41.4	41.6	-	3.4	3.5	3.2	3.3	-
2821	Plastics materials and resins	43.4	44.1	42.3	42.6	-	4.8	5.0	4.2	4.4	-
2824	Organic fibers, noncellulosic	41.9	41.9	41.0	41.2	-	2.2	2.2	2.4	2.5	-
283	Drugs	41.5	41.5	41.5	41.2	-	2.9	3.0	2.9	2.9	-
2834	Pharmaceutical preparations	41.2	40.9	40.8	40.6	-	2.9	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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$273.51	\$276.89	\$296.02	\$295.16	-	\$6.77	\$6.82	\$7.22	\$7.27	-
2841	Soap and other detergents	379.32	378.01	416.30	406.60	-	8.70	8.73	9.44	9.50	-
2844	Toilet preparations	212.42	219.22	229.70	232.66	-	5.59	5.65	5.83	5.89	-
2842, 3	Polishing, sanitation, and finishing preparations	248.06	247.04	260.80	265.60	-	6.14	6.13	6.52	6.64	-
285	Paints and allied products	266.15	268.69	280.42	277.26	-	6.46	6.49	6.89	6.88	-
286	Industrial organic chemicals	359.12	366.75	395.81	397.81	-	8.43	8.47	9.12	9.23	-
2865	Cyclic crudes and intermediates	322.63	329.30	362.94	365.05	-	7.70	7.73	8.48	8.63	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	372.36	381.06	407.66	410.13	-	8.70	8.74	9.35	9.45	-
287	Agricultural chemicals	299.75	299.75	323.04	324.42	-	7.02	7.02	7.53	7.58	-
289	Miscellaneous chemical products	280.73	284.01	302.74	305.34	-	6.70	6.73	7.26	7.34	-
29	PETROLEUM AND COAL PRODUCTS	385.41	390.71	425.10	419.90	\$421.08	8.70	8.78	9.51	9.50	\$9.57
291	Petroleum refining	407.09	417.25	455.62	449.96	-	9.38	9.44	10.17	10.18	-
295	Paving and roofing materials	332.02	318.30	344.44	338.23	-	6.86	6.86	7.57	7.45	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	234.58	236.39	244.22	247.65	245.01	5.68	5.71	6.03	6.13	6.11
301	Tires and inner tubes	362.37	370.05	363.38	378.07	-	8.18	8.26	8.82	9.11	-
302	Rubber and plastics footwear	148.61	150.54	163.49	162.96	-	3.84	3.88	4.16	4.20	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	238.71	245.95	269.24	268.13	-	5.78	5.87	6.38	6.43	-
306	Fabricated rubber products, nec	220.99	221.94	231.73	232.98	-	5.39	5.40	5.75	5.81	-
307	Miscellaneous plastics products	210.94	212.16	222.86	226.08	-	5.17	5.20	5.53	5.61	-
31	LEATHER AND LEATHER PRODUCTS	145.78	147.26	157.87	157.32	159.34	3.94	3.98	4.29	4.31	4.33
311	Leather tanning and finishing	202.93	205.15	219.45	223.29	-	5.19	5.22	5.70	5.74	-
314	Footwear, except rubber	139.85	139.78	151.48	149.70	-	3.79	3.84	4.15	4.17	-
3143	Men's footwear, except athletic	148.97	147.73	165.24	163.61	-	3.91	3.95	4.36	4.41	-
3144	Women's footwear, except athletic	132.10	133.46	140.94	136.22	-	3.69	3.77	3.97	3.96	-
316	Luggage	156.46	162.11	173.07	174.80	-	4.24	4.30	4.64	4.60	-
317	Handbags and personal leather goods	137.61	144.02	152.93	151.40	-	3.77	3.79	4.10	4.07	-
-	TRANSPORTATION AND PUBLIC UTILITIES	311.20	310.42	337.16	336.71	337.05	7.78	7.78	8.45	8.46	8.49
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	357.21	354.53	395.40	(*)	-	8.10	8.15	9.26	(*)	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	194.48	194.36	210.63	207.51	-	5.72	5.65	6.07	5.98	-
411	Local and suburban transportation	291.76	287.02	276.80	282.21	-	6.98	6.85	6.92	6.90	-
413	Intercity highway transportation	312.42	312.58	363.17	335.22	-	8.20	8.14	9.36	9.06	-
42	TRUCKING AND WAREHOUSING	321.57	319.20	342.86	343.73	-	7.94	7.96	8.55	8.68	-
421, 3	Trucking and trucking terminals	329.27	325.61	349.27	351.65	-	8.11	8.12	8.71	8.88	-
422	Public warehousing	219.29	225.50	238.34	235.38	-	5.58	5.68	6.08	6.02	-
46	PIPE LINES, EXCEPT NATURAL GAS	368.40	374.69	409.64	408.66	-	8.92	8.90	9.80	9.73	-
48	COMMUNICATION	302.91	300.53	336.15	332.43	-	7.63	7.57	8.30	8.29	-
481	Telephone communication	313.98	310.80	353.46	347.90	-	7.83	7.77	8.60	8.59	-
4817	Switchboard operating employees ³	222.33	226.24	234.80	231.99	-	6.52	6.52	7.03	7.03	-
4818	Line construction employees ⁴	426.82	424.70	497.73	475.28	-	9.57	9.48	10.59	10.40	-
483	Radio and television broadcasting	258.55	258.40	267.26	266.81	-	6.84	6.80	6.96	6.93	-
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	326.93	329.80	352.78	354.05	-	7.84	7.89	8.46	8.47	-
491	Electric services	328.97	334.22	359.92	359.52	-	7.87	7.92	8.59	8.56	-
492	Gas production and distribution	302.91	299.80	315.46	323.38	-	7.37	7.33	7.77	7.83	-
493	Combination utility services	365.43	370.90	398.98	395.32	-	8.68	8.81	9.41	9.39	-
495	Sanitary services	272.64	267.10	286.18	289.11	-	6.40	6.39	6.83	6.90	-
-	WHOLESALE AND RETAIL TRADE	157.11	156.00	167.75	167.05	167.83	4.79	4.80	5.13	5.14	5.18
50, 51	WHOLESALE TRADE	235.95	235.52	252.59	253.24	256.62	6.05	6.07	6.51	6.51	6.58
50	WHOLESALE TRADE-DURABLE GOODS	239.55	238.55	255.58	256.24	-	6.08	6.07	6.52	6.52	-
501	Motor vehicles and automotive equipment	217.70	219.04	233.31	232.93	-	5.64	5.66	6.06	6.05	-
502	Furniture and home furnishings	206.72	210.10	227.56	226.50	-	5.44	5.50	6.02	6.04	-
503	Lumber and construction materials	244.19	243.36	262.15	261.36	-	6.12	6.13	6.62	6.60	-
504	Sporting goods, toys, and hobby goods	230.49	231.10	245.97	247.66	-	6.13	6.13	6.63	6.73	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.4	40.6	41.0	40.6	-	3.4	3.1	3.4	3.0	-
2841	Soap and other detergents	43.6	43.3	44.1	42.8	-	5.5	5.0	5.2	4.5	-
2844	Toilet preparations	38.0	38.8	39.4	39.5	-	1.8	1.8	2.5	2.1	-
2842, 3	Polishing, sanitation, and finishing preparations	40.4	40.3	40.0	40.0	-	3.5	2.9	2.8	2.6	-
285	Paints and allied products	41.2	41.4	40.7	40.3	-	3.5	3.0	3.0	2.4	-
286	Industrial organic chemicals	42.6	43.3	43.4	43.1	-	3.9	3.9	4.6	4.4	-
2865	Cyclic crudes and intermediates	41.9	42.6	42.8	42.3	-	3.9	4.0	4.6	4.6	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.8	43.6	43.6	43.4	-	3.9	3.8	4.6	4.3	-
287	Agricultural chemicals	42.7	42.7	42.9	42.8	-	5.4	4.8	5.0	4.8	-
289	Miscellaneous chemical products	41.9	42.2	41.7	41.6	-	3.8	3.7	4.0	3.9	-
	PETROLEUM AND COAL PRODUCTS										
29	Petroleum refining	44.3	44.5	44.7	44.2	44.0	4.7	4.5	5.1	4.6	-
291	Paving and roofing materials	43.4	44.2	44.8	44.2	-	3.7	3.8	4.4	3.9	-
295	Reclaimed rubber, and rubber and plastics hose and belting	48.4	46.4	45.5	45.4	-	8.9	7.2	8.2	7.6	-
	RUBBER AND MISC. PLASTICS PRODUCTS										
30	Tires and inner tubes	41.3	41.4	40.5	40.4	40.1	4.0	3.9	3.4	3.3	-
301	Rubber and plastics footwear	44.3	44.8	41.2	41.5	-	6.1	5.7	4.0	4.0	-
302	Miscellaneous plastics products	38.7	38.8	39.3	38.8	-	2.3	2.0	2.6	2.1	-
303, 4	Fabricated rubber products, nec	41.3	41.9	42.2	41.7	-	4.4	4.8	4.1	4.0	-
306	Miscellaneous plastics products	41.0	41.1	40.3	40.1	-	3.6	3.5	3.0	2.7	-
307	Miscellaneous plastics products	40.8	40.8	40.3	40.3	-	3.7	3.5	3.3	3.3	-
	LEATHER AND LEATHER PRODUCTS										
31	Leather tanning and finishing	37.0	37.0	36.8	36.5	36.8	1.7	1.6	1.8	1.5	-
311	Footwear, except rubber	39.1	39.3	38.5	38.9	-	2.8	2.8	2.5	2.5	-
314	Men's footwear, except athletic	36.9	36.4	36.5	35.9	-	1.4	1.2	1.8	1.3	-
3143	Women's footwear, except athletic	38.1	37.4	37.9	37.1	-	1.3	1.1	1.9	1.7	-
3144	Luggage	35.8	35.4	35.5	34.4	-	1.6	1.2	1.9	1.0	-
316	Handbags and personal leather goods	36.9	37.7	37.3	38.0	-	2.0	2.1	2.1	2.0	-
317	Handbags and personal leather goods	36.5	38.0	37.3	37.2	-	2.2	2.5	2.1	2.1	-
	TRANSPORTATION AND PUBLIC UTILITIES										
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	40.0	39.9	39.9	39.8	39.7	-	-	-	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT										
41	Local and suburban transportation	44.1	43.5	42.7	(*)	-	-	-	-	-	-
411	Intercity highway transportation	34.0	34.4	34.7	34.7	-	-	-	-	-	-
413	Intercity highway transportation	41.8	41.9	40.0	40.9	-	-	-	-	-	-
	TRUCKING AND WAREHOUSING										
42	Trucking and trucking terminals	38.1	38.4	38.8	37.0	-	-	-	-	-	-
421, 3	Public warehousing	40.5	40.1	40.1	39.6	-	-	-	-	-	-
422	Public warehousing	40.6	40.1	40.1	39.6	-	-	-	-	-	-
	PIPE LINES, EXCEPT NATURAL GAS										
46	Telephone communication	41.3	42.1	41.8	42.0	-	-	-	-	-	-
	COMMUNICATION										
48	Telephone communication	39.7	39.7	40.5	40.1	-	-	-	-	-	-
481	Switchboard operating employees ³	40.1	40.0	41.1	40.5	-	-	-	-	-	-
4817	Line construction employees ⁴	34.1	34.7	33.4	33.0	-	-	-	-	-	-
4818	Radio and television broadcasting	44.6	44.8	47.0	45.7	-	-	-	-	-	-
483	Radio and television broadcasting	37.8	38.0	38.4	38.5	-	-	-	-	-	-
	ELECTRIC, GAS, AND SANITARY SERVICES										
49	Electric services	41.7	41.8	41.7	41.8	-	-	-	-	-	-
491	Gas production and distribution	41.8	42.2	41.9	42.0	-	-	-	-	-	-
492	Combination utility services	41.1	40.9	40.6	41.3	-	-	-	-	-	-
493	Sanitary services	42.1	42.1	42.4	42.1	-	-	-	-	-	-
495	Sanitary services	42.6	41.8	41.9	41.9	-	-	-	-	-	-
	WHOLESALE AND RETAIL TRADE										
	WHOLESALE TRADE										
50, 51	Motor vehicles and automotive equipment	32.8	32.5	32.7	32.5	32.4	-	-	-	-	-
50	Furniture and home furnishings	39.0	38.8	38.8	38.9	39.0	-	-	-	-	-
501	Lumber and construction materials	39.4	39.3	39.2	39.3	-	-	-	-	-	-
501	Sporting goods, toys, and hobby goods	38.6	38.7	38.5	38.5	-	-	-	-	-	-
502	Sporting goods, toys, and hobby goods	38.0	38.2	37.8	37.5	-	-	-	-	-	-
503	Sporting goods, toys, and hobby goods	39.9	39.7	39.6	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.6	37.7	37.1	36.8	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 P	Nov. 1979 P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$272.55	\$275.42	\$302.40	\$300.80	-	\$6.90	\$6.92	\$7.56	\$7.52	-
506	Electrical goods	242.26	238.78	261.12	259.96	-	6.18	6.17	6.73	6.70	-
507	Hardware, plumbing, and heating equipment	222.53	220.99	241.78	240.91	-	5.78	5.77	6.28	6.29	-
508	Machinery, equipment, and supplies	254.47	253.20	267.46	269.20	-	6.33	6.33	6.72	6.73	-
509	Miscellaneous durable goods	202.40	205.15	215.83	219.46	-	5.23	5.22	5.52	5.57	-
51	WHOLESALE TRADE-NONDURABLE GOODS	230.57	231.65	248.95	248.57	-	6.02	6.08	6.50	6.49	-
511	Paper and paper products	265.72	264.99	279.23	282.83	-	7.32	7.30	7.65	7.77	-
512	Drugs, proprietaries, and sundries	238.13	239.23	253.93	252.88	-	6.25	6.23	6.63	6.69	-
513	Apparel, piece goods, and notions	204.05	207.92	223.01	222.77	-	5.56	5.65	6.06	6.07	-
514	Groceries and related products	231.72	235.01	253.50	251.52	-	6.05	6.12	6.50	6.55	-
516	Chemicals and allied products	271.55	269.00	304.17	305.66	-	6.84	6.81	7.72	7.68	-
517	Petroleum and petroleum products	284.01	287.10	310.08	313.22	-	7.19	7.25	7.87	7.85	-
518	Beer, wine, and distilled beverages	262.26	273.35	277.13	271.22	-	7.05	7.27	7.49	7.37	-
519	Miscellaneous nondurable goods	190.58	190.62	204.82	205.06	-	4.95	4.99	5.39	5.34	-
52-59	RETAIL TRADE	132.13	131.89	140.61	140.00	\$140.45	4.29	4.31	4.58	4.59	\$4.62
52	BUILDING MATERIALS AND GARDEN SUPPLIES	181.92	181.61	194.16	193.02	-	4.80	4.83	5.15	5.12	-
521	Lumber and other building materials	201.60	202.29	216.00	214.92	-	5.04	5.07	5.40	5.40	-
525	Hardware stores	136.46	137.97	146.50	146.35	-	3.99	4.07	4.36	4.33	-
53	GENERAL MERCHANDISE STORES	119.19	117.91	131.27	130.98	-	4.11	4.08	4.42	4.44	-
531	Department stores	123.83	122.54	136.92	136.59	-	4.27	4.24	4.61	4.63	-
533	Variety stores	97.41	97.92	107.94	106.62	-	3.43	3.40	3.61	3.59	-
539	Misc. general merchandise stores	94.28	93.15	104.08	103.66	-	3.24	3.19	3.54	3.55	-
54	FOOD STORES	169.38	171.81	182.59	180.02	-	5.36	5.42	5.76	5.77	-
541	Grocery stores	176.09	179.44	189.44	187.70	-	5.52	5.59	5.92	5.94	-
546	Retail bakeries	116.51	116.58	130.68	131.12	-	3.99	4.02	4.46	4.46	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	188.75	188.50	204.12	202.45	-	5.02	5.04	5.40	5.37	-
551, 2	New and used car dealers	232.76	232.32	243.18	240.48	-	6.03	6.05	6.30	6.23	-
553	Auto and home supply stores	183.19	183.60	198.86	198.62	-	4.49	4.50	4.91	4.88	-
554	Gasoline service stations	130.59	130.18	144.38	144.90	-	3.71	3.73	4.09	4.14	-
56	APPAREL AND ACCESSORY STORES	112.60	110.78	116.35	117.96	-	3.83	3.82	4.04	4.11	-
561	Men's and boys' clothing and furnishings	140.83	139.43	143.64	148.36	-	4.32	4.33	4.56	4.68	-
562	Women's ready-to-wear stores	97.65	95.90	104.15	103.57	-	3.50	3.50	3.76	3.78	-
565	Family clothing stores	109.20	107.53	111.44	112.01	-	3.64	3.67	3.91	3.93	-
566	Shoe stores	124.68	121.64	124.41	128.13	-	4.27	4.18	4.29	4.48	-
57	FURNITURE AND HOME FURNISHINGS STORES	172.83	174.74	185.33	184.63	-	4.91	4.95	5.25	5.26	-
571	Furniture and home furnishings	176.59	180.93	190.10	189.39	-	5.06	5.14	5.37	5.35	-
572	Household appliance stores	184.26	187.82	194.35	194.02	-	5.09	5.09	5.49	5.45	-
573	Radio, television, and music stores	155.23	151.11	166.34	166.60	-	4.41	4.38	4.78	4.90	-
58	EATING AND DRINKING PLACES ⁵	88.56	87.45	92.30	90.91	-	3.28	3.30	3.47	3.47	-
59	MISCELLANEOUS RETAIL	133.66	133.24	146.06	145.92	-	4.19	4.19	4.55	4.56	-
591	Drug stores and proprietary stores	119.95	120.04	132.09	131.24	-	3.92	3.91	4.22	4.22	-
594	Miscellaneous shopping goods stores	120.98	118.04	130.36	129.86	-	3.89	3.87	4.26	4.30	-
596	Nonstore retailers	164.70	164.02	184.68	180.77	-	4.83	4.81	5.48	5.38	-
598	Fuel and ice dealers	216.61	222.22	225.82	236.79	-	5.54	5.64	5.82	6.01	-
599	Retail stores, nec	131.88	131.36	153.45	152.66	-	4.20	4.17	4.54	4.53	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	183.73	182.59	195.29	195.29	196.20	5.02	5.03	5.38	5.38	5.39
60	BANKING	157.01	156.09	167.54	166.42	-	4.29	4.30	4.59	4.61	-
602	Commercial and stock savings banks	153.72	153.19	164.98	163.08	-	4.20	4.22	4.52	4.53	-
61	CREDIT AGENCIES OTHER THAN BANKS	166.42	164.70	176.64	176.97	-	4.51	4.50	4.80	4.77	-
612	Savings and loan associations	158.34	153.87	169.73	172.05	-	4.35	4.31	4.65	4.65	-
614	Personal credit institutions	162.80	163.17	171.49	170.57	-	4.40	4.41	4.66	4.61	-
63	INSURANCE CARRIERS	198.97	199.76	213.33	216.58	-	5.32	5.37	5.75	5.76	-
631	Life insurance	196.31	197.42	210.08	211.64	-	5.32	5.35	5.74	5.72	-
632	Medical service and health insurance	191.52	195.56	210.56	210.38	-	5.04	5.16	5.63	5.61	-
633	Fire, marine, and casualty insurance	202.17	201.47	214.23	221.13	-	5.42	5.46	5.79	5.85	-

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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
		WHOLESALE TRADE-DURABLE GOODS—Continued									
505	Metals and minerals, except petroleum	39.5	39.8	40.0	40.0	-	-	-	-	-	
506	Electrical goods	39.2	38.7	38.8	38.8	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.5	38.3	38.5	38.3	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.2	40.0	39.8	40.0	-	-	-	-	-	
509	Miscellaneous durable goods	38.7	39.3	39.1	39.4	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS										
511	Paper and paper products	36.3	36.3	36.5	36.4	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	38.1	38.4	38.3	37.8	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.7	36.8	36.8	36.7	-	-	-	-	-	
514	Groceries and related products	38.3	38.4	39.0	38.4	-	-	-	-	-	
516	Chemicals and allied products	39.7	39.5	39.4	39.8	-	-	-	-	-	
517	Petroleum and petroleum products	39.5	39.6	39.4	39.9	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.2	37.6	37.0	36.8	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.5	38.2	38.0	38.4	-	-	-	-	-	
52-59	RETAIL TRADE	30.8	30.6	30.7	30.5	30.4	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES										
521	Lumber and other building materials	37.9	37.6	37.7	37.7	-	-	-	-	-	
525	Hardware stores	40.0	39.9	40.0	39.8	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES										
531	Department stores	34.2	33.9	33.6	33.8	-	-	-	-	-	
533	Variety stores	29.0	28.9	29.7	29.5	-	-	-	-	-	
539	Misc. general merchandise stores	29.0	28.9	29.7	29.5	-	-	-	-	-	
54	FOOD STORES										
541	Grocery stores	28.4	28.8	29.9	29.7	-	-	-	-	-	
546	Retail bakeries	29.1	29.2	29.4	29.2	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS										
551.2	New and used car dealers	37.6	37.4	37.8	37.7	-	-	-	-	-	
553	Auto and home supply stores	38.6	38.4	38.6	38.6	-	-	-	-	-	
554	Gasoline service stations	40.8	40.8	40.5	40.7	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES										
561	Men's and boys' clothing and furnishings	35.2	34.9	35.3	35.0	-	-	-	-	-	
562	Women's ready-to-wear stores	29.4	29.0	28.8	28.7	-	-	-	-	-	
565	Family clothing stores	32.6	32.2	31.5	31.7	-	-	-	-	-	
566	Shoe stores	27.9	27.4	27.7	27.4	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES										
571	Furniture and home furnishings	30.0	29.3	28.5	28.5	-	-	-	-	-	
572	Household appliance stores	29.2	29.0	29.3	29.4	-	-	-	-	-	
573	Radio, television, and music stores	35.2	35.3	35.3	35.1	-	-	-	-	-	
58	EATING AND DRINKING PLACES										
59	MISCELLANEOUS RETAIL										
591	Drug stores and proprietary stores	34.9	34.5	34.8	34.0	-	-	-	-	-	
594	Miscellaneous shopping goods stores	31.9	31.8	32.1	32.0	-	-	-	-	-	
596	Nonstore retailers	30.6	30.7	31.3	31.1	-	-	-	-	-	
598	Fuel and ice dealers	31.1	30.5	30.6	30.2	-	-	-	-	-	
599	Retail stores, nec.	34.1	34.1	33.7	33.6	-	-	-	-	-	
60	FINANCE, INSURANCE, AND REAL ESTATE										
602	Commercial and stock savings banks	39.1	39.4	38.8	39.4	-	-	-	-	-	
61	BANKING										
612	Savings and loan associations	37.0	37.0	36.8	37.0	-	-	-	-	-	
614	Personal credit institutions	36.6	36.3	36.3	36.3	36.4	-	-	-	-	
63	INSURANCE CARRIERS										
631	Life insurance	36.6	36.3	36.5	36.1	-	-	-	-	-	
632	Medical service and health insurance	36.6	36.3	36.5	36.0	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.9	36.6	36.8	37.1	-	-	-	-	-	
		36.4	35.7	36.5	37.0	-	-	-	-	-	
		37.0	37.0	36.8	37.0	-	-	-	-	-	
		37.4	37.2	37.1	37.6	-	-	-	-	-	
		36.9	36.9	36.6	37.0	-	-	-	-	-	
		38.0	37.9	37.4	37.5	-	-	-	-	-	
		37.3	36.9	37.0	37.8	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
-	SERVICES	\$167.10	\$167.24	\$178.22	\$178.65	\$179.95	\$5.11	\$5.13	\$5.45	\$5.48	\$5.52
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	116.55	114.82	125.74	123.41	-	3.70	3.74	4.03	4.02	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	132.21	133.21	142.35	144.70	-	3.81	3.85	4.15	4.17	-
723	Beauty shops	119.45	119.88	127.51	125.05	-	3.78	3.83	4.14	4.10	-
	BUSINESS SERVICES										
73	Advertising	169.52	169.85	179.95	179.95	-	5.20	5.21	5.52	5.52	-
731	Advertising	259.52	260.28	276.97	273.36	-	7.29	7.19	7.78	7.51	-
734	Services to buildings	124.85	123.94	127.91	128.78	-	4.59	4.54	4.72	4.70	-
737	Computer and data processing services	219.49	216.22	237.98	233.85	-	6.03	5.94	6.52	6.46	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	190.46	191.66	214.13	218.30	-	5.12	5.18	5.71	5.76	-
753	Automotive repair shops	214.40	217.28	235.35	241.16	-	5.54	5.60	6.05	6.09	-
76	MISCELLANEOUS REPAIR SERVICES	251.94	253.79	268.11	269.28	-	6.16	6.19	6.62	6.60	-
	MOTION PICTURES										
78	Motion picture production and services	197.18	191.82	200.27	209.39	-	7.17	6.95	7.39	7.67	-
781	Motion picture production and services	388.58	368.86	405.85	413.79	-	10.28	9.81	10.46	10.72	-
79	AMUSEMENT AND RECREATION SERVICES	150.61	151.70	152.00	153.88	-	4.89	4.99	5.17	5.27	-
	HEALTH SERVICES										
80	Offices of physicians	161.53	161.70	174.11	172.86	-	4.88	4.90	5.26	5.27	-
801	Offices of physicians	168.81	170.67	179.17	176.26	-	5.10	5.11	5.53	5.44	-
802	Offices of dentists	138.36	137.24	150.16	148.84	-	4.69	4.70	5.16	5.15	-
805	Nursing and personal care facilities	112.53	112.84	121.91	119.56	-	3.63	3.64	3.92	3.92	-
806	Hospitals	176.64	177.48	191.95	192.32	-	5.18	5.22	5.58	5.64	-
81	LEGAL SERVICES	219.30	218.88	235.25	232.22	-	6.45	6.40	6.96	6.83	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	282.34	280.82	300.09	301.37	-	7.43	7.39	7.96	7.91	-
891	Engineering and architectural services	302.23	303.42	322.49	324.24	-	7.85	7.82	8.42	8.40	-
893	Accounting, auditing, and bookkeeping	245.05	238.88	259.61	260.60	-	6.50	6.37	6.96	6.84	-

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.

**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				
		Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 p	Nov. 1979 p
--	SERVICES	32.7	32.6	32.7	32.6	32.6	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	31.5	30.7	31.2	30.7	-	-	-	-	-	
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	34.7	34.6	34.3	34.7	-	-	-	-	-	
723	Beauty shops	31.6	31.3	30.8	30.5	-	-	-	-	-	
73	BUSINESS SERVICES	32.6	32.6	32.6	32.6	-	-	-	-	-	
731	Advertising	35.6	36.2	35.6	36.4	-	-	-	-	-	
734	Services to buildings	27.2	27.3	27.1	27.4	-	-	-	-	-	
737	Computer and data processing services	36.4	36.4	36.5	36.2	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.2	37.0	37.5	37.9	-	-	-	-	-	
753	Automotive repair shops	38.7	38.8	38.9	39.6	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	40.9	41.0	40.5	40.8	-	-	-	-	-	
78	MOTION PICTURES	27.5	27.6	27.1	27.3	-	-	-	-	-	
781	Motion picture production and services	37.8	37.6	38.8	38.6	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	30.8	30.4	29.4	29.2	-	-	-	-	-	
80	HEALTH SERVICES	33.1	33.0	33.1	32.8	-	-	-	-	-	
801	Offices of physicians	33.1	33.4	32.4	32.4	-	-	-	-	-	
802	Offices of dentists	29.5	29.2	29.1	28.9	-	-	-	-	-	
805	Nursing and personal care facilities	31.0	31.0	31.1	30.5	-	-	-	-	-	
806	Hospitals	34.1	34.0	34.4	34.1	-	-	-	-	-	
81	LEGAL SERVICES	34.0	34.2	33.8	34.0	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.0	38.0	37.7	38.1	-	-	-	-	-	
891	Engineering and architectural services	38.5	38.8	38.3	38.6	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.7	37.5	37.3	38.1	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Executive Branch													
Total employment	2,760.3	2,738.5	2,691.2	2,694.5	2,694.4	2,681.2	2,677.5	2,686.3	2,688.3	2,697.4	2,720.3	2,770.2	2,783.0
Average weekly hours	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	39.5	39.5	39.4	39.4	39.8
Average overtime hours	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	1.1	1.1	1.0	1.0	1.2
Indexes (1967=100):													
Average weekly earnings	227.7	226.8	230.0	242.0	239.2	244.3	243.2	242.4	240.6	239.8	238.9	238.6	241.3
Average hourly earnings	225.4	225.1	229.5	238.9	242.2	240.0	241.4	240.5	240.0	239.2	238.9	238.6	238.9
Department of Defense													
Total employment	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	892.0	890.0	896.6	906.6	908.5
Average weekly hours	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	39.9	39.9	39.9	39.9	40.1
Average overtime hours .....	.9	1.0	1.2	1.0	.8	.9	.8	.9	.9	.8	.8	.8	.8
Indexes (1967=100):													
Average weekly earnings	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	235.2	234.4	235.2	233.6	233.4
Average hourly earnings	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	237.6	236.8	237.6	236.0	234.6
Postal Service													
Total employment	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	655.4	655.0	659.5	663.2	665.4
Average weekly hours	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	40.2	40.2	39.8	39.6	40.6
Average overtime hours	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	1.6	1.7	1.3	1.3	1.8
Indexes (1967=100):													
Average weekly earnings	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	271.5	271.8	268.1	274.0	281.2
Average hourly earnings	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	260.7	261.0	260.1	267.1	267.4
Other Agencies													
Total employment	1,185.7	1,170.9	1,134.6	1,141.8	1,137.7	1,127.8	1,128.5	1,136.1	1,140.9	1,152.4	1,164.2	1,200.4	1,209.1
Average weekly hours	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	38.8	38.8	38.8	38.8	39.2
Average overtime hours	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	1.0	1.0	1.1	1.0	1.2
Indexes (1967=100):													
Average weekly earnings	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	227.7	226.7	226.0	223.3	226.6
Average hourly earnings	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	227.7	226.7	226.0	223.3	224.3

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the Office of Personnel Management 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				
	Oct. 1978	Nov. 1978	Sept. 1979	Oct. 1979 ^p	Nov. 1979 ^p
MANUFACTURING	\$6.04	\$6.10	\$6.51	\$6.54	\$6.58
DURABLE GOODS	6.44	6.50	6.93	6.95	6.98
Lumber and wood products	5.49	5.50	6.02	5.97	-
Furniture and fixtures	4.62	4.64	5.01	5.03	-
Stone, clay, and glass products	6.12	6.18	6.60	6.62	-
Primary metal industries	8.01	8.11	8.75	8.73	-
Fabricated metal products	6.19	6.24	6.63	6.68	-
Machinery, except electrical	6.61	6.66	7.13	7.13	-
Electric and electronic equipment	5.74	5.75	6.24	6.27	-
Transportation equipment	7.70	7.76	8.20	8.26	-
Instruments and related products	5.60	5.65	6.00	6.13	-
Miscellaneous manufacturing industries	4.60	4.64	4.91	4.94	-
NONDURABLE GOODS	5.42	5.47	5.86	5.90	5.96
Food and kindred products	5.60	5.69	5.97	6.04	-
Tobacco manufactures	5.71	5.86	6.35	6.29	-
Textile mill products	4.23	4.26	4.60	4.62	-
Apparel and other textile products	3.94	3.96	4.21	4.25	-
Paper and allied products	6.29	6.36	6.90	6.93	-
Printing and publishing	6.33	6.39	6.75	6.79	-
Chemicals and allied products	6.89	6.93	7.40	7.50	-
Petroleum and coal products	8.26	8.36	9.00	9.03	-
Rubber and misc. plastics products	5.41	5.46	5.79	5.89	-
Leather and leather products	3.85	3.90	4.19	4.22	-

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

^p preliminary.

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		
	Oct. 1978	Sept. 1979	Oct. 1979 ^P	Oct. 1978	Sept. 1979	Oct. 1979 ^P	Oct. 1978	Sept. 1979	Oct. 1979 ^P
TOTAL PRIVATE:									
Current dollars	\$210.73	\$225.90	\$225.62	\$170.45	\$182.36	\$182.16	\$185.98	\$199.42	\$199.21
1967 dollars	105.00	100.98	100.01	84.93	81.52	80.74	92.67	89.15	88.30
MINING:									
Current dollars	348.73	372.80	373.65	262.81	280.18	280.68	288.42	308.87	309.49
1967 dollars	173.76	166.65	165.63	130.95	125.25	124.41	143.71	138.07	137.19
CONSTRUCTION:									
Current dollars	336.93	360.43	356.82	254.88	272.42	270.11	279.42	299.86	297.22
1967 dollars	167.88	161.12	158.16	127.00	121.78	119.73	139.22	134.05	131.75
MANUFACTURING:									
Current dollars	257.00	274.04	274.85	202.57	215.89	216.44	220.73	235.94	236.56
1967 dollars	128.05	122.50	121.83	100.93	96.51	95.94	109.98	105.47	104.86
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	311.20	337.16	336.71	238.38	257.55	257.27	260.91	282.90	282.57
1967 dollars	155.06	150.72	149.25	118.77	115.13	114.04	130.00	126.46	125.25
WHOLESALE AND RETAIL TRADE:									
Current dollars	157.11	167.75	167.05	131.42	139.68	139.16	144.81	156.97	156.50
1967 dollars	78.28	74.99	74.05	65.48	62.44	61.68	72.15	70.17	69.37
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	183.73	195.29	195.29	151.02	160.06	160.06	165.50	175.65	175.65
1967 dollars	91.54	87.30	86.56	75.25	71.55	70.95	82.46	78.52	77.86
SERVICES:									
Current dollars	167.10	178.22	178.65	138.91	147.52	147.85	152.59	164.03	164.32
1967 dollars	83.26	79.67	79.19	69.21	65.95	65.54	76.03	73.33	72.84
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	200.7	223.7	225.6						

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

p=preliminary (applicable to earnings data only).

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); a technical note on the calculation and uses of the spendable earnings series is available on request.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-8. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

[1987=100]

Industry division and group	Oct. 1978	Nov. 1978	Sept. 1979	Oct. p 1979	Nov. p 1979
	Hours				
TOTAL PRIVATE	124.5	124.6	127.7	127.3	127.1
GOODS-PRODUCING	111.1	110.9	113.2	112.3	110.8
MINING	150.8	152.6	159.8	160.5	161.6
CONSTRUCTION	138.2	130.4	147.9	146.4	139.1
MANUFACTURING	104.9	106.0	105.4	104.5	104.0
DURABLE GOODS	108.0	109.4	108.1	107.2	106.5
Lumber and wood products.....	116.8	114.1	117.7	115.9	108.8
Furniture and fixtures.....	111.9	111.9	106.9	108.5	108.5
Stone, clay, and glass products.....	115.3	114.7	114.4	113.8	113.4
Primary metal industries.....	97.2	98.7	96.7	93.9	92.5
Fabricated metal products.....	106.5	108.1	107.0	107.4	107.3
Machinery, except electrical.....	112.1	114.6	117.6	113.7	115.4
Electric and electronic equipment.....	104.9	106.9	108.9	108.8	110.3
Transportation equipment.....	108.9	107.1	97.5	98.4	94.3
Instruments and related products.....	124.9	127.7	127.5	127.6	130.8
Miscellaneous manufacturing industries.....	107.5	107.2	105.1	105.9	105.6
NONDURABLE GOODS	100.4	101.0	101.6	100.6	100.4
Food and kindred products.....	100.1	98.3	106.2	101.2	98.2
Tobacco manufactures.....	82.1	81.8	79.9	79.5	68.9
Textile mill products.....	91.0	91.9	91.0	91.0	92.3
Apparel and other textile products.....	92.5	93.2	88.8	89.7	89.3
Paper and allied products.....	99.3	101.4	103.6	103.7	103.6
Printing and publishing.....	100.3	102.5	105.2	104.9	107.0
Chemicals and allied products.....	107.3	108.4	108.3	108.2	109.8
Petroleum and coal products.....	125.3	125.4	130.4	128.6	130.2
Rubber and misc. plastics products.....	151.3	153.1	146.7	147.0	145.9
Leather and leather products.....	70.1	69.8	65.7	64.9	66.3
SERVICE-PRODUCING	133.7	134.2	137.7	137.7	138.5
TRANSPORTATION AND PUBLIC UTILITIES	112.3	112.4	116.4	116.2	116.4
WHOLESALE AND RETAIL TRADE	129.0	130.1	131.1	130.9	132.3
WHOLESALE TRADE	130.4	130.2	133.5	134.5	135.2
RETAIL TRADE	128.5	130.1	130.1	129.4	131.2
FINANCE, INSURANCE, AND REAL ESTATE	142.0	141.9	146.7	147.0	147.7
SERVICES	147.8	147.5	154.0	154.5	154.4

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	Oct. 1978	Nov. 1978	Sept. 1979	Oct. p 1979	Nov. p 1979
	Payrolls				
TOTAL PRIVATE	272.6	273.6	300.3	300.0	300.6
GOODS-PRODUCING	252.0	252.3	276.6	274.6	271.8
MINING	377.2	385.6	429.6	431.5	441.4
CONSTRUCTION	298.7	281.7	341.8	337.5	321.1
MANUFACTURING	235.0	239.5	253.8	252.3	252.4
DURABLE GOODS	243.6	248.7	261.1	259.3	258.5
Lumber and wood products	284.8	277.6	314.2	306.3	286.9
Furniture and fixtures	229.9	230.9	238.3	242.5	243.7
Stone, clay, and glass products	265.6	266.0	283.3	282.1	282.7
Primary metal industries	245.0	252.0	265.3	256.1	254.8
Fabricated metal products	232.0	237.3	249.0	251.5	252.3
Machinery, except electrical	244.5	251.9	276.0	266.3	272.2
Electric and electronic equipment	224.8	230.1	253.7	254.4	259.4
Transportation equipment	250.8	257.9	243.8	247.7	237.9
Instruments and related products	254.0	261.7	277.8	283.2	294.2
Miscellaneous manufacturing industries	217.9	218.9	226.9	230.3	230.6
NONDURABLE GOODS	220.5	223.7	241.4	240.3	242.0
Food and kindred products	223.6	222.2	254.6	243.7	241.7
Tobacco manufactures	210.7	217.2	230.2	225.0	212.8
Textile mill products	195.5	199.0	213.0	213.7	217.6
Apparel and other textile products	183.1	185.6	187.3	190.9	190.5
Paper and allied products	231.0	238.3	264.0	264.9	266.9
Printing and publishing	202.1	208.3	225.9	225.8	231.5
Chemicals and allied products	248.7	252.1	269.6	272.3	278.3
Petroleum and coal products	304.7	307.9	346.6	341.5	348.3
Rubber and misc. plastics products	312.7	318.7	322.0	328.0	324.6
Leather and leather products	133.5	134.3	136.5	135.3	138.9
SERVICE-PRODUCING	290.3	292.0	320.8	321.9	325.5
TRANSPORTATION AND PUBLIC UTILITIES	269.9	270.4	303.8	304.1	305.7
WHOLESALE AND RETAIL TRADE	274.1	277.5	298.5	298.8	304.5
WHOLESALE TRADE	274.2	274.9	302.3	304.3	309.0
RETAIL TRADE	274.0	279.0	296.4	295.8	302.0
FINANCE, INSURANCE, AND REAL ESTATE	276.1	276.3	305.7	306.1	308.5
SERVICES	330.2	330.7	366.8	369.7	372.2

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
TOTAL PRIVATE	35.8	35.8	35.8	35.7	35.9	35.3	35.7	35.6	35.6	35.6	35.7	35.6	35.6
MINING	43.3	43.4	43.4	43.1	43.1	42.9	42.8	43.0	41.6	43.2	43.1	43.0	43.3
CONSTRUCTION	36.8	37.0	37.1	36.6	37.1	35.5	37.1	37.2	36.8	37.2	37.5	36.6	36.8
MANUFACTURING	40.6	40.6	40.6	40.6	40.6	39.1	40.2	40.1	40.2	40.1	40.2	40.2	40.0
<i>Overtime hours</i>	3.7	3.7	3.7	3.7	3.7	2.7	3.5	3.4	3.3	3.2	3.2	3.2	3.2
DURABLE GOODS	41.3	41.4	41.4	41.4	41.4	39.5	40.9	40.7	40.7	40.7	40.7	40.7	40.5
<i>Overtime hours</i>	4.0	4.0	4.1	4.1	4.0	2.7	3.8	3.6	3.5	3.3	3.3	3.3	3.3
Lumber and wood products	40.0	39.9	39.9	39.6	40.0	39.1	39.4	39.4	39.3	39.5	39.7	39.3	38.7
Furniture and fixtures	39.1	39.2	38.9	38.8	39.1	38.1	38.5	38.5	38.4	38.3	38.6	38.8	38.8
Stone, clay, and glass products	41.9	41.9	41.8	41.6	42.0	41.2	41.7	41.6	41.4	41.3	41.5	41.3	41.5
Primary metal industries	42.2	42.2	42.3	42.2	42.0	41.8	41.4	41.2	41.3	41.0	41.0	41.1	40.4
Fabricated metal products	41.1	41.3	41.1	41.3	41.3	39.1	40.7	40.7	40.8	40.6	40.7	40.8	40.6
Machinery, except electrical	42.2	42.4	42.3	42.5	42.4	40.5	42.0	42.0	41.9	41.6	41.9	41.6	41.5
Electric and electronic equipment	40.4	40.5	40.5	40.7	40.7	39.0	40.4	40.3	40.2	39.8	40.3	40.3	40.6
Transportation equipment	42.7	42.8	42.8	42.7	42.3	37.9	41.5	40.8	40.9	41.7	40.6	41.2	40.3
Instruments and related products	40.9	40.9	41.1	41.2	41.2	40.3	40.8	40.6	40.7	40.5	40.6	40.7	41.3
Miscellaneous manufacturing ind	38.9	38.9	39.0	39.0	39.0	37.6	38.6	38.9	39.3	39.1	39.1	39.2	39.3
NONDURABLE GOODS	39.5	39.4	39.5	39.3	39.4	38.6	39.2	39.2	39.2	39.2	39.3	39.3	39.3
<i>Overtime hours</i>	3.2	3.2	3.2	3.2	3.3	2.7	3.0	3.0	3.0	3.0	3.1	3.0	3.1
Food and kindred products	39.8	39.9	40.0	39.8	40.0	39.6	39.8	39.8	39.8	39.7	40.0	40.0	39.8
Tobacco manufactures	37.5	38.1	37.2	36.9	38.0	37.6	38.9	37.6	38.5	38.0	38.6	38.3	37.6
Textile mill products	40.4	40.4	40.7	40.1	40.3	38.8	40.0	40.1	40.1	40.1	40.6	40.8	40.9
Apparel and other textile products	35.6	35.5	35.3	35.4	35.4	34.2	35.2	35.2	35.3	35.3	35.3	35.3	35.2
Paper and allied products	43.0	42.8	42.8	42.7	42.8	41.8	42.6	42.5	42.5	42.6	42.4	42.7	42.5
Printing and publishing	37.8	37.6	37.7	37.7	37.7	37.1	37.4	37.4	37.5	37.7	37.5	37.4	37.6
Chemicals and allied products	42.1	41.8	42.0	42.0	41.9	41.7	41.9	41.7	41.9	42.0	41.7	41.7	41.9
Petroleum and coal products	44.1	43.8	43.5	43.6	44.0	43.9	43.7	43.3	43.6	43.7	44.1	43.8	43.6
Rubber and misc. plastics products	41.1	41.2	41.4	41.2	41.3	39.7	40.9	40.7	40.6	40.2	40.3	40.2	39.8
Leather and leather products	36.9	36.7	36.8	36.4	36.3	35.6	36.1	36.4	36.6	36.5	37.0	36.5	36.7
TRANSPORTATION AND PUBLIC UTILITIES	39.9	40.0	40.0	40.0	40.0	39.2	39.8	39.8	39.7	39.9	39.9	39.8	39.7
WHOLESALE AND RETAIL TRADE	32.8	32.8	32.5	32.5	32.7	32.8	32.6	32.6	32.6	32.5	32.6	32.7	32.7
WHOLESALE TRADE	38.8	38.9	38.7	38.7	39.0	38.7	39.0	38.8	38.8	38.7	38.7	38.8	39.0
RETAIL TRADE	30.9	30.9	30.6	30.6	30.7	30.9	30.6	30.6	30.6	30.5	30.7	30.7	30.7
FINANCE, INSURANCE, AND REAL ESTATE	36.4	36.3	36.3	36.4	36.4	36.5	36.1	36.2	36.3	36.1	36.4	36.2	36.5
SERVICES	32.7	32.6	32.6	32.6	32.8	32.7	32.7	32.7	32.8	32.7	32.7	32.6	32.7

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

[1967=100]

Industry division and group	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
TOTAL PRIVATE	123.7	124.2	124.4	124.7	125.7	123.6	125.4	125.7	125.7	125.5	125.9	125.8	126.3
GOODS-PRODUCING	108.9	109.8	110.3	110.2	111.3	106.8	110.3	110.1	109.9	109.4	109.7	108.9	108.8
MINING	150.6	151.3	152.0	152.5	152.5	152.0	151.6	152.5	148.4	156.7	157.4	157.9	159.2
CONSTRUCTION	126.0	127.9	128.9	126.7	132.7	124.9	133.7	134.4	133.9	134.5	135.4	132.7	134.4
MANUFACTURING	104.4	105.1	105.6	105.8	106.0	102.0	104.7	104.3	104.4	103.3	103.4	103.0	102.6
DURABLE GOODS	107.9	108.8	109.2	109.9	110.1	105.0	108.3	107.9	107.9	106.8	107.1	106.0	105.0
Lumber and wood products	115.0	115.6	115.9	114.9	116.4	112.4	113.3	112.7	111.9	112.3	113.6	112.8	109.4
Furniture and fixtures	109.4	110.2	109.9	109.1	109.4	105.8	105.9	105.3	105.9	104.5	104.8	105.9	106.2
Stone, clay, and glass products	112.6	113.4	113.0	112.8	114.9	111.5	113.1	113.0	111.5	110.8	111.2	110.4	111.2
Primary metal industries	99.1	99.6	100.1	100.3	100.2	99.7	97.9	97.9	97.8	95.9	95.3	94.5	92.9
Fabricated metal products	106.5	107.8	107.6	108.7	108.6	102.7	106.6	107.1	106.7	104.8	105.4	105.9	105.7
Machinery, except electrical	113.5	115.3	115.8	117.4	117.5	113.0	117.4	117.6	118.0	116.2	117.7	114.2	114.3
Electric and electronic equipment	104.6	105.5	106.6	107.8	108.5	104.4	108.2	108.6	108.5	104.7	107.2	107.6	108.1
Transportation equipment	104.9	105.6	105.9	106.9	105.9	94.3	102.6	99.4	100.3	102.6	100.1	97.1	92.7
Instruments and related products	125.7	126.3	128.2	129.4	129.7	127.2	128.1	128.4	128.1	127.2	127.2	127.5	129.1
Miscellaneous manufacturing ind	102.1	101.8	102.3	101.7	101.7	97.5	98.7	100.3	100.7	100.8	99.9	100.2	100.4
NONDURABLE GOODS	99.5	99.8	100.3	99.8	100.1	97.8	99.5	99.1	99.1	98.2	98.1	98.7	98.9
Food and kindred products	96.4	97.7	98.1	97.0	98.1	96.8	97.0	96.8	95.9	94.6	95.0	96.2	96.3
Tobacco manufactures	72.4	73.6	71.8	70.0	73.4	73.9	76.5	72.6	73.0	66.7	70.5	69.9	60.7
Textile mill products	91.0	91.0	91.9	90.3	90.6	86.7	89.5	89.6	89.8	89.0	89.8	90.6	91.3
Apparel and other textile products	91.3	91.0	91.0	90.3	89.9	86.8	89.5	88.7	89.5	88.0	87.5	87.9	87.6
Paper and allied products	100.4	100.7	101.1	101.8	103.0	100.8	102.3	102.1	103.2	103.1	102.2	103.2	102.7
Printing and publishing	101.4	101.5	102.5	103.1	103.4	101.7	103.1	103.3	104.4	104.7	103.9	104.3	105.9
Chemicals and allied products	108.1	107.8	108.7	108.5	108.1	107.7	108.3	108.4	108.8	108.2	107.6	108.1	109.5
Petroleum and coal products	124.4	123.6	122.7	123.9	125.0	125.7	124.2	123.1	123.0	124.2	126.2	126.3	128.4
Rubber and misc. plastics products	149.9	152.0	153.5	154.0	154.4	148.4	153.4	150.4	150.5	145.6	143.5	143.4	142.7
Leather and leather products	69.4	68.4	67.9	66.6	66.1	63.9	65.4	66.0	61.3	64.9	66.1	65.2	65.9
SERVICE-PRODUCING	134.0	134.2	134.2	134.8	135.8	135.3	135.9	136.5	136.7	136.6	137.2	137.6	138.4
TRANSPORTATION AND PUBLIC UTILITIES	112.0	112.5	112.8	113.3	113.7	109.2	113.4	115.0	114.2	115.2	114.9	115.5	115.7
WHOLESALE AND RETAIL TRADE	129.2	129.5	129.0	129.3	130.2	130.6	130.2	130.0	129.9	129.6	130.4	131.1	131.4
WHOLESALE TRADE	129.6	130.5	130.5	130.8	132.3	131.3	132.8	132.8	132.7	132.4	132.5	133.5	134.8
RETAIL TRADE	129.0	129.0	128.5	128.7	129.3	130.3	129.1	128.9	128.9	128.5	129.6	130.1	130.2
FINANCE, INSURANCE, AND REAL ESTATE	142.6	142.7	143.3	144.1	144.6	145.5	144.5	145.7	146.5	146.3	147.1	146.7	148.6
SERVICES	148.3	148.4	148.6	149.5	151.1	151.0	151.7	152.6	153.5	153.4	153.8	154.1	155.4

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

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1978		1979										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (in current dollars) . . .	219.2	220.9	222.6	224.0	225.2	226.8	227.5	229.0	230.9	232.2	234.3	235.0	236.9
MINING	249.9	250.9	252.1	253.7	256.1	264.1	262.7	264.9	266.9	265.6	266.1	268.0	271.4
CONSTRUCTION	211.6	213.0	213.8	216.7	216.5	218.1	220.4	220.4	222.1	223.1	224.4	223.9	225.6
MANUFACTURING	222.4	224.2	225.4	227.2	228.7	231.0	232.3	233.9	235.4	236.9	238.7	240.0	241.9
TRANSPORTATION AND PUBLIC UTILITIES	236.3	239.0	240.8	241.7	243.1	241.7	243.7	246.4	251.3	252.6	255.6	256.6	258.2
WHOLESALE AND RETAIL TRADE	213.0	214.7	217.7	218.1	219.4	220.9	221.0	222.6	223.8	225.4	227.0	227.3	229.6
FINANCE, INSURANCE, AND REAL ESTATE	200.7	202.1	202.4	204.2	204.8	207.5	207.0	208.0	210.8	211.5	214.4	213.6	215.3
SERVICES	217.7	219.3	220.8	222.2	223.3	225.0	224.3	225.7	227.0	228.4	231.5	232.2	233.8
TOTAL PRIVATE (in 1967 dollars) ³	108.6	108.7	108.5	107.8	107.3	106.9	106.1	105.7	105.6	105.1	104.9	104.3	-
Average hourly earnings													
TOTAL PRIVATE	\$5.87	\$5.92	\$5.96	\$6.00	\$6.04	\$6.04	\$6.09	\$6.13	\$6.18	\$6.22	\$6.26	\$6.27	\$6.32
MINING	8.06	8.08	8.18	8.23	8.28	8.56	8.43	8.49	8.49	8.57	8.50	8.57	8.72
CONSTRUCTION	8.85	8.88	8.94	9.06	9.03	9.11	9.20	9.19	9.27	9.32	9.39	9.38	9.44
MANUFACTURING	6.38	6.43	6.46	6.51	6.56	6.56	6.65	6.68	6.72	6.74	6.78	6.82	6.85
TRANSPORTATION AND PUBLIC UTILITIES	7.74	7.83	7.88	7.92	7.96	7.91	7.99	8.09	8.21	8.30	8.37	8.40	8.45
WHOLESALE AND RETAIL TRADE	4.81	4.85	4.92	4.93	4.96	4.99	5.00	5.03	5.07	5.10	5.12	5.13	5.19
FINANCE, INSURANCE, AND REAL ESTATE	5.06	5.09	5.09	5.14	5.16	5.22	5.21	5.23	5.30	5.32	5.40	5.39	5.42
SERVICES	5.11	5.14	5.18	5.22	5.24	5.27	5.26	5.31	5.35	5.39	5.45	5.46	5.50
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	210.15	211.94	213.37	214.20	216.84	213.21	217.41	218.23	220.01	221.43	223.48	223.21	224.99
1967 dollars ³	104.14	104.30	103.98	103.13	103.31	100.48	101.40	100.75	100.60	100.24	100.04	99.03	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3, 4}	91.95	91.97	92.46	91.66	91.68	89.35	89.96	89.34	89.12	88.73	88.44	87.57	-

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

² The index excludes effects of two types of changes that are unrelated to underlying wage-rate developments: Fluctuations in overtime premiums in manufacturing (the only sector for which overtime data are available) and the effects of changes in the proportion of workers in high-wage and low-wage industries.

³ The CPI-W is used to deflate these series to 1967 dollars.

⁴ See footnote 2, table C-5.

N.A.=not available.

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		
	SEPTEMBER 1979	OCTOBER p1979	NOVEMBER p1979	Nov. 1978 to Nov. 1979	Sept. 1979 to Oct. 1979	Oct. 1979 to Nov. 1979
TOTAL	169,514	169,545	169,713	1.6	0.0	0.1
PRIVATE SECTOR	138,712	138,674	139,316	2.5	0.0	0.5
MINING	2,214	2,150	2,227	7.5	-2.9	3.6
CONSTRUCTION	9,159	8,978	9,107	6.9	-2.0	1.4
MANUFACTURING	43,373	43,392	43,300	-0.5	0.0	-0.2
DURABLE GOODS	26,606	26,554	26,431	-0.6	-0.2	-0.5
NONDURABLE GOODS	16,767	16,838	16,869	-0.2	0.4	0.2
TRANSPORTATION AND PUBLIC UTILITIES	10,753	10,787	10,842	3.9	0.3	0.5
WHOLESALE AND RETAIL TRADE	34,398	34,494	34,671	2.1	0.3	0.5
FINANCE, INSURANCE, AND REAL ESTATE	9,481	9,485	9,588	4.8	0.0	1.1
SERVICES	29,333	29,388	29,581	4.7	0.2	0.7
GOVERNMENT	30,802	30,871	30,397	-2.3	0.2	-1.5

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										
			1977				1978				1979		
	1977	1978	I	II	III	IV	I	II	III	IV	I	II	III
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	118.6	119.2	118.5	117.9	119.4	118.8	118.4	119.0	119.7	119.8	118.9	118.2	r118.0
Output	133.8	140.7	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.4	r144.0
Hours	112.8	118.1	110.6	112.6	113.2	114.5	115.6	117.9	118.4	120.2	121.5	121.3	r122.0
Compensation per hour	213.0	231.2	207.7	210.8	215.3	218.5	224.2	228.5	233.6	238.4	244.8	250.3	r255.6
Real compensation per hour	117.3	118.3	117.2	116.7	117.6	117.9	118.7	118.1	118.2	118.0	118.0	116.9	r115.8
Unit labor costs	179.6	194.0	175.2	178.8	180.2	183.8	189.4	192.1	195.2	199.0	205.9	211.7	r216.6
Unit nonlabor payments	165.6	174.3	161.4	164.7	167.9	168.6	164.8	173.9	177.0	181.3	180.8	183.7	r185.5
Implicit price deflator	174.8	187.2	170.5	173.9	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.0	r205.9
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	116.2	116.8	116.4	115.8	116.7	116.3	116.0	116.5	117.3	117.6	116.6	115.4	r115.2
Output	134.3	141.5	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.2	r144.8
Hours	115.6	121.1	113.2	115.2	116.2	117.3	118.4	121.1	121.6	123.4	124.8	124.9	r125.7
Compensation per hour	209.3	227.3	204.1	207.3	211.2	214.8	220.6	224.6	229.4	234.3	240.2	244.8	r249.8
Real compensation per hour	115.3	116.3	115.2	114.7	115.4	115.9	116.8	116.1	116.1	116.0	115.8	114.3	r113.2
Unit labor costs	180.1	194.5	175.4	179.0	180.9	184.7	190.2	192.7	195.6	199.3	206.0	212.1	r216.9
Unit nonlabor payments	163.9	169.9	159.1	163.2	167.1	166.0	161.1	169.2	173.0	176.1	174.3	177.6	r180.4
Implicit price deflator	174.5	186.1	169.8	173.6	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3	r204.4
MANUFACTURING:													
Output per hour of all persons	127.2	128.0	125.4	127.3	128.4	127.8	125.7	127.2	129.2	129.8	129.0	130.0	131.0
Output	128.2	134.5	124.2	128.1	129.9	130.8	130.1	133.4	135.9	138.5	140.1	139.7	r139.8
Hours	100.8	105.1	99.0	100.6	101.1	102.3	103.4	104.8	105.2	106.7	108.5	107.5	106.7
Compensation per hour	212.0	229.5	206.4	209.7	214.1	217.5	223.2	226.6	231.4	236.5	242.4	248.2	r253.1
Real compensation per hour	116.8	117.5	116.5	116.1	117.0	117.4	118.1	117.1	117.0	117.1	116.9	115.9	114.6
Unit labor costs	166.6	179.4	164.6	164.7	166.7	170.2	177.5	178.1	179.1	182.2	187.9	190.9	193.1
DURABLE GOODS													
Output per hour of all persons	121.2	121.3	119.5	121.6	122.3	121.7	118.9	120.9	122.5	122.8	121.8	122.7	122.6
Output	122.5	129.6	117.8	122.2	124.4	125.5	124.4	128.3	131.3	134.5	136.2	135.4	r134.6
Hours	101.0	106.9	98.6	100.5	101.7	103.2	104.6	106.1	107.2	109.5	111.8	110.3	r109.7
Compensation per hour	213.8	230.8	208.2	211.6	215.9	219.4	224.5	227.9	232.5	237.9	243.8	249.5	254.3
Real compensation per hour	117.8	118.1	117.5	117.1	118.0	118.4	118.9	117.8	117.6	117.7	117.5	116.5	115.2
Unit labor costs	176.4	190.4	174.3	174.0	176.6	180.3	188.8	188.5	189.9	193.7	200.1	203.3	207.4
NONDURABLE GOODS													
Output per hour of all persons	137.0	139.0	135.1	136.6	138.5	137.9	136.9	137.5	140.3	141.4	141.1	142.1	r145.1
Output	137.6	142.3	134.6	137.6	138.8	139.3	139.3	141.6	143.2	145.1	146.3	146.9	r148.4
Hours	100.4	102.4	99.6	100.7	100.2	101.1	101.7	103.0	102.1	102.6	103.7	103.4	102.3
Compensation per hour	208.6	226.1	203.6	206.6	210.6	213.8	220.1	223.6	228.1	232.4	238.0	244.1	r248.9
Real compensation per hour	114.9	115.7	114.9	114.4	115.1	115.3	116.5	115.5	115.4	115.0	114.8	114.0	r112.8
Unit labor costs	152.3	162.7	150.7	151.2	152.1	155.1	160.7	162.6	162.6	164.3	168.7	171.8	r171.6
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	116.8	117.9	116.8	116.5	117.4	116.7	116.7	117.8	118.4	118.8	118.1	117.3	p117.5
Output	141.2	150.0	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1	p154.7
Hours	120.9	127.2	118.5	120.5	121.5	122.9	124.1	127.1	127.8	129.8	131.3	131.4	p131.7
Compensation per hour	207.6	224.8	202.5	205.7	209.5	212.8	218.5	222.3	226.9	231.3	237.4	242.1	p247.1
Real compensation per hour	114.4	115.0	114.3	113.8	114.5	114.8	115.7	114.9	114.8	114.5	114.5	113.1	p111.9
Total unit costs	181.8	193.3	177.7	180.5	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.0	p212.6
Unit labor costs	177.7	190.6	173.4	176.6	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.4	p210.3
Unit nonlabor costs	194.3	201.8	191.0	192.4	194.8	198.7	201.5	200.8	201.6	203.1	206.5	213.2	p219.9
Unit profits	122.7	127.2	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	129.2	p129.0
Implicit price deflator	173.0	183.5	168.3	172.0	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3	p200.2

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 1978 to	II 1978 to	III 1978 to	IV 1978 to	I 1979 to	II 1979 to	II 1977 to	III 1977 to	IV 1977 to	I 1978 to	II 1978 to	III 1978 to
	II 1978	III 1978	IV 1978	I 1979	II 1979	III 1979	II 1978	III 1978	IV 1978	I 1979	II 1979	III 1979
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	2.0	2.4	0.3	-3.0	-2.2	r-0.7	0.9	0.2	0.8	0.4	-0.6	r-1.4
Output	10.5	4.2	6.4	1.2	-2.9	r 1.7	5.7	4.8	5.8	5.5	2.2	r 1.6
Hours	8.4	1.7	6.1	4.4	-0.7	r 2.5	4.7	4.6	5.0	5.1	2.8	3.0
Compensation per hour	7.9	9.2	8.5	11.1	9.3	r 8.8	8.4	8.5	9.1	9.2	9.5	9.4
Real compensation per hour	-2.1	0.3	-0.7	0.1	-3.8	r-3.6	1.2	0.4	0.1	-0.6	-1.0	r-2.0
Unit labor costs	5.8	6.6	8.1	14.6	11.8	r 9.6	7.4	8.3	8.3	8.7	10.2	r11.0
Unit nonlabor payments	24.0	7.4	9.9	-1.0	6.5	r 4.0	5.6	5.4	7.5	9.7	5.6	r 4.8
Implicit price deflator	11.2	6.9	8.7	9.3	10.1	r 7.8	6.8	7.4	8.0	9.0	8.7	r 9.0
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	1.9	2.7	0.8	-3.2	-4.1	r-0.7	0.6	0.5	1.1	0.5	-1.0	r-1.8
Output	11.5	4.5	6.8	1.2	-3.6	r 1.9	5.7	5.2	6.3	5.9	2.2	1.5
Hours	9.4	1.8	5.9	4.6	0.5	r 2.6	5.1	4.7	5.2	5.4	3.2	3.4
Compensation per hour	7.5	8.8	8.8	10.4	7.9	r 8.5	8.4	8.7	9.1	8.9	9.0	r 8.9
Real compensation per hour	-2.5	0.0	-0.4	-0.6	-5.0	r-3.9	1.2	0.6	0.1	-0.8	-1.5	r-2.5
Unit labor costs	5.4	6.0	8.0	14.0	12.5	r 9.3	7.7	8.1	7.9	8.3	10.1	r10.9
Unit nonlabor payments	21.5	9.4	7.3	-4.0	7.8	r 6.4	3.7	3.5	6.1	8.2	5.0	r 4.3
Implicit price deflator	10.2	7.0	7.8	8.1	11.0	r 8.4	6.4	6.6	7.3	8.3	8.5	r 8.8
MANUFACTURING:												
Output per hour of all persons	4.8	6.3	2.0	-2.4	2.9	r 3.3	-0.1	0.6	1.6	2.6	2.2	1.4
Output	10.6	7.6	8.1	4.6	-0.9	r 0.3	4.1	4.6	5.9	7.7	4.8	2.9
Hours	5.5	1.3	5.9	7.1	-3.7	r-2.9	4.2	4.0	4.3	4.9	2.6	r 1.5
Compensation per hour	6.3	8.7	9.3	10.3	9.8	r 8.1	8.0	8.1	8.7	8.6	9.5	9.4
Real compensation per hour	-3.5	-0.1	0.0	-0.6	-3.4	r-4.2	0.9	0.0	-0.3	-1.1	-1.0	-2.1
Unit labor costs	1.4	2.2	7.1	13.0	6.7	r 4.7	8.1	7.4	7.1	5.9	7.2	7.8
DURABLE GOODS												
Output per hour of all persons	6.9	5.1	1.2	-3.2	2.9	-0.2	-0.6	0.2	0.9	2.4	1.5	0.1
Output	13.3	9.6	10.0	5.3	-2.5	r-2.3	5.0	5.6	7.1	9.5	5.5	r 2.5
Hours	5.9	4.3	8.7	8.8	-5.2	r-2.2	5.6	5.4	6.1	6.9	4.0	r 2.3
Compensation per hour	6.1	8.3	9.6	10.3	9.7	r 8.0	7.7	7.7	8.4	8.6	9.5	9.4
Real compensation per hour	-3.7	-0.4	0.4	-0.6	-3.5	-4.4	0.5	-0.3	-0.5	-1.1	-1.1	-2.1
Unit labor costs	-0.8	3.1	8.3	13.9	6.6	8.2	8.3	7.5	7.4	6.0	7.9	9.2
NONDURABLE GOODS												
Output per hour of all persons	1.7	8.2	3.4	-0.9	2.7	r 8.7	0.6	1.3	2.6	3.1	3.3	3.4
Output	6.8	4.8	5.3	3.4	1.5	r 4.3	2.9	3.2	4.1	5.1	3.7	3.6
Hours	4.9	-3.2	1.8	4.4	-1.2	-4.1	2.2	1.9	1.5	1.9	0.4	0.2
Compensation per hour	6.5	8.3	7.8	10.0	10.6	r 8.1	8.2	8.3	8.7	8.1	9.2	9.1
Real compensation per hour	-3.3	-0.4	-1.3	-0.9	-2.6	r-4.3	1.0	0.3	-0.3	-1.5	-1.3	-2.3
Unit labor costs	4.7	0.1	4.2	11.0	7.7	r-0.6	7.5	7.0	6.0	4.9	5.7	5.5
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	4.1	2.0	1.1	-2.1	-2.8	p 0.7	1.2	0.8	1.8	1.3	-0.5	p-0.8
Output	14.5	4.6	7.6	2.5	-2.6	p 1.6	6.7	6.1	7.5	7.2	2.9	p 2.2
Hours	10.0	2.5	6.4	4.6	0.3	p 0.9	5.4	5.2	5.6	5.8	3.4	p 3.0
Compensation per hour	7.2	8.4	8.1	11.0	8.0	p 8.5	8.1	8.3	8.7	8.7	8.9	p 8.9
Real compensation per hour	-2.7	-0.4	-1.0	0.0	-4.9	p-3.9	0.9	0.2	-0.3	-1.0	-1.6	p-2.5
Total unit costs	1.8	5.1	5.9	11.7	11.8	p 9.2	6.2	6.4	5.6	6.1	8.6	p 9.6
Unit labor costs	2.9	6.2	6.9	13.4	11.2	p 7.8	6.8	7.4	6.8	7.3	9.4	p 9.8
Unit nonlabor costs	-1.3	1.7	2.9	6.8	13.5	p13.3	4.3	3.5	2.2	2.5	6.2	p 9.1
Unit profits	11.3	11.4	19.5	-22.1	-3.4	p-0.7	4.7	1.4	13.6	21.7	0.0	p-2.8
Implicit price deflator	9.3	5.7	7.3	7.6	10.2	p 8.2	6.0	5.8	6.4	7.5	7.7	p 8.3

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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
ALABAMA	\$223.26	\$238.79	\$251.10	40.3	39.6	41.3	\$5.54	\$6.03	\$6.08
Birmingham	265.72	292.13	292.03	40.2	40.8	40.9	6.61	7.16	7.14
Mobile	266.58	213.75	324.96	40.7	28.5	43.2	6.55	7.50	7.52
ALASKA	387.74	393.84	(*)	42.1	36.5	(*)	9.21	10.79	(*)
ARIZONA	249.08	280.03	275.27	40.5	41.0	40.6	6.15	6.83	6.78
Phoenix	253.99	277.84	275.54	40.9	41.1	40.7	6.21	6.76	6.77
Tucson	227.94	255.06	260.17	38.7	39.0	39.6	5.89	6.54	6.57
ARKANSAS	191.27	214.77	214.13	39.6	40.6	40.1	4.83	5.29	5.34
Fayetteville-Springdale	178.49	192.65	196.65	40.2	41.7	42.2	4.44	4.62	4.66
Fort Smith	195.71	218.65	217.33	39.3	39.9	39.3	4.98	5.48	5.53
Little Rock-North Little Rock	225.03	236.99	239.20	40.4	40.1	40.0	5.57	5.91	5.98
Pine Bluff	263.08	291.98	298.75	42.5	42.5	41.9	6.19	6.87	7.13
CALIFORNIA	264.77	287.20	288.72	40.3	40.0	40.1	6.57	7.18	7.20
Anaheim-Santa Ana-Garden Grove	246.60	263.97	266.24	41.1	40.3	40.4	6.00	6.55	6.59
Bakersfield	275.80	325.26	316.27	38.9	41.7	40.6	7.09	7.80	7.79
Fresno	244.21	256.24	263.56	40.1	39.3	40.3	6.09	6.52	6.54
Los Angeles-Long Beach	248.47	267.73	270.14	40.8	39.9	40.2	6.09	6.71	6.72
Modesto	252.98	285.29	280.40	38.8	39.9	40.0	6.52	7.15	7.01
Oxnard-Simi Valley-Ventura	229.20	254.23	250.49	40.0	39.6	39.2	5.73	6.42	6.39
Riverside-San Bernardino-Ontario	275.93	295.60	303.28	40.4	40.0	40.6	6.83	7.39	7.47
Sacramento	289.28	317.46	312.45	39.9	40.7	39.5	7.25	7.80	7.91
Salinas-Seaside-Monterey	268.40	279.35	259.04	40.0	39.4	36.9	6.71	7.09	7.02
San Diego	248.29	265.98	266.73	39.1	39.0	38.6	6.35	6.82	6.91
San Francisco-Oakland	318.09	339.37	342.68	39.8	39.6	39.8	7.99	8.57	8.61
San Jose	276.61	305.70	304.37	39.8	41.2	40.8	6.95	7.42	7.46
Santa Barbara-Santa Maria-Lompoc	228.13	244.22	244.57	38.6	37.4	37.0	5.91	6.53	6.61
Santa Rosa	239.27	268.94	260.70	38.1	40.2	39.5	6.28	6.69	6.60
Stockton	282.03	327.17	311.07	38.9	42.6	39.1	7.25	7.68	7.70
Vallejo-Fairfield-Napa	279.66	305.27	307.32	39.5	39.8	39.4	7.08	7.67	7.80
COLORADO	246.87	272.45	271.47	39.0	39.6	39.4	6.33	6.88	6.89
Denver-Boulder	248.14	273.44	272.83	39.2	39.4	39.2	6.33	6.94	6.96
CONNECTICUT	257.99	273.61	279.36	42.5	41.9	42.2	6.07	6.53	6.62
Bridgeport	270.07	288.77	294.01	43.7	43.1	43.3	6.18	6.70	6.79
Hartford	286.89	302.74	311.32	43.8	42.4	43.0	6.55	7.14	7.24
New Britain	264.69	281.96	295.06	42.9	42.4	43.2	6.17	6.65	6.83
New Haven-West Haven	263.08	260.80	279.47	42.5	39.1	41.9	6.19	6.67	6.67
Stamford	266.54	274.55	275.94	43.2	42.5	42.0	6.17	6.46	6.57
Waterbury	226.31	243.67	245.23	42.3	42.6	42.5	5.35	5.72	5.77
DELAWARE	262.91	289.16	287.10	40.2	40.9	39.6	6.54	7.07	7.25
Wilmington	294.23	318.00	316.01	39.6	39.9	39.6	7.43	7.97	7.98
DISTRICT OF COLUMBIA:									
Washington SMSA	269.99	280.30	293.73	39.3	40.1	38.7	6.87	6.99	7.59
FLORIDA	209.51	227.45	224.56	41.0	40.4	40.1	5.11	5.63	5.60
Fort Lauderdale-Hollywood	195.77	214.32	217.87	40.2	40.9	40.8	4.87	5.24	5.34
Jacksonville	248.81	275.04	257.90	41.4	41.8	39.8	6.01	6.58	6.48
Miami	177.51	194.04	197.51	39.8	39.6	39.9	4.46	4.90	4.95
Orlando	225.42	236.55	241.76	41.9	41.5	41.9	5.38	5.70	5.77
Pensacola	281.84	282.66	301.19	43.9	39.7	42.4	6.42	7.12	7.08
Tampa-St. Petersburg	217.46	233.95	230.11	41.5	40.9	40.3	5.24	5.72	5.71
West Palm Beach-Boca Raton	240.40	243.46	237.76	42.7	38.1	37.8	5.63	6.39	6.29
GEORGIA	202.71	219.37	220.19	40.3	40.7	40.7	5.03	5.39	5.41
Atlanta	232.83	255.44	255.71	39.0	40.1	39.4	5.97	6.37	6.49
Savannah	279.07	311.96	306.51	43.2	44.0	43.6	6.46	7.09	7.03
HAWAII ¹	242.42	254.10	275.37	39.1	38.5	41.1	6.20	6.60	6.70
Honolulu ¹	240.77	252.86	284.38	38.3	36.7	40.8	6.27	6.89	6.97
IDAHO	261.12	290.88	265.42	38.4	40.4	38.3	6.80	7.20	6.93
Boise City	233.73	247.26	(*)	37.1	39.0	(*)	6.30	6.34	(*)

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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
ILLINOIS	\$273.47	\$309.05	\$303.43	39.8	41.5	41.0	\$6.87	\$7.45	\$7.40
Bloomington—Normal	253.44	282.44	264.30	41.3	42.6	40.8	6.13	6.63	6.48
Champaign—Urbana—Rantoul	262.95	266.45	271.12	39.9	39.1	39.2	6.59	6.82	6.89
Chicago SMSA	272.05	289.30	291.19	40.4	40.7	40.5	6.73	7.11	7.19
Davenport—Rock Island—Moline	275.57	358.14	337.22	36.9	40.5	38.9	7.47	8.86	8.67
Decatur	319.18	347.32	313.65	41.8	42.1	39.0	7.63	8.25	8.03
Peoria	341.15	366.86	338.18	39.3	39.7	40.5	8.69	9.25	8.34
Rockford	288.11	297.99	308.63	42.4	41.3	42.0	6.80	7.21	7.33
Springfield	310.56	325.32	313.46	42.0	42.6	41.9	7.40	7.64	7.48
INDIANA	302.09	321.10	320.74	41.1	40.8	40.6	7.35	7.87	7.90
Gary—Hammond—East Chicago	422.78	423.60	(*)	42.0	40.0	(*)	9.59	10.59	(*)
Indianapolis	304.20	317.18	(*)	41.5	41.3	(*)	7.33	7.68	(*)
IOWA	294.35	325.16	306.73	40.6	40.9	40.2	7.25	7.95	7.63
Cedar Rapids	277.44	323.01	325.51	40.8	41.2	41.1	6.80	7.84	7.92
Des Moines	298.26	344.44	326.33	39.4	41.3	39.7	7.57	8.34	8.22
Dubuque	358.44	375.96	298.45	41.2	40.6	37.4	8.70	9.26	7.98
Sioux City	282.05	300.72	306.43	42.8	42.0	42.5	6.59	7.16	7.21
Waterloo—Cedar Falls	379.55	429.02	313.66	40.9	43.6	37.7	9.28	9.84	8.32
KANSAS	(*)	282.91	287.41	(*)	41.3	41.0	(*)	6.85	7.01
Topeka	(*)	304.46	313.53	(*)	41.2	41.2	(*)	7.38	7.61
Wichita	(*)	302.10	312.17	(*)	41.9	42.3	(*)	7.21	7.38
KENTUCKY	257.27	273.14	275.62	40.0	39.3	39.6	6.43	6.95	6.96
Louisville	292.73	312.44	313.98	40.6	39.7	40.1	7.21	7.87	7.83
LOUISIANA	274.56	298.91	303.74	41.6	42.1	42.6	6.60	7.10	7.13
Baton Rouge	347.33	371.95	362.53	43.2	43.0	42.5	8.04	8.65	8.53
New Orleans	260.04	284.09	295.60	39.7	39.9	41.4	6.55	7.12	7.14
Shreveport	246.56	271.42	272.02	41.3	41.0	40.6	5.97	6.62	6.70
MAINE	272.10	223.76	225.12	40.1	40.1	40.2	5.14	5.58	5.60
Lewiston—Auburn	160.18	177.71	176.05	37.6	37.1	36.6	4.26	4.79	4.81
Portland	202.40	212.78	215.21	40.0	38.9	39.2	5.06	5.47	5.49
MARYLAND	267.30	291.24	291.93	40.5	40.2	40.1	6.60	7.22	7.28
Baltimore	286.71	308.20	310.59	40.9	40.5	40.6	7.01	7.61	7.65
MASSACHUSETTS	224.53	249.64	250.34	39.6	40.2	39.8	5.67	6.21	6.29
Boston	245.96	275.37	282.98	39.8	40.2	40.6	6.18	6.85	6.97
Brockton	176.61	195.61	87.47	37.9	39.2	37.8	4.66	4.99	4.96
Fall River	157.89	182.09	188.84	35.4	37.7	37.1	4.46	4.83	5.09
Lawrence—Haverhill	223.28	245.41	243.98	39.8	40.1	39.1	5.61	6.12	6.24
Lowell	200.40	205.44	197.63	40.0	38.4	37.5	5.01	5.35	5.27
New Bedford	191.01	214.24	197.40	37.6	39.6	37.6	5.08	5.41	5.25
Springfield—Chicopee—Holyoke	233.19	247.85	249.90	41.2	40.9	40.9	5.66	6.06	6.11
Worcester	231.42	259.49	263.90	39.9	40.8	40.6	5.80	6.36	6.50
MICHIGAN	(*)	354.80	364.02	(*)	40.6	40.8	(*)	8.74	8.92
Ann Arbor	(*)	339.11	338.40	(*)	37.6	37.7	(*)	9.02	8.98
Battle Creek	(*)	365.98	366.06	(*)	41.2	41.2	(*)	8.88	8.89
Bay City	(*)	309.23	309.78	(*)	39.9	39.9	(*)	7.75	7.76
Detroit	(*)	382.41	394.46	(*)	40.9	41.5	(*)	9.35	9.51
Flint	(*)	396.65	426.50	(*)	41.3	42.4	(*)	9.60	10.06
Grand Rapids	(*)	299.65	302.63	(*)	40.4	40.2	(*)	7.42	7.53
Jackson	(*)	319.84	339.79	(*)	41.2	42.4	(*)	7.76	8.01
Kalamazoo—Portage	(*)	334.78	334.53	(*)	41.3	40.5	(*)	8.11	8.26
Lansing—East Lansing	(*)	370.31	381.19	(*)	39.1	39.0	(*)	9.50	9.77
Muskegon—Norton Shores—Muskegon Heights	(*)	314.61	321.66	(*)	40.8	40.9	(*)	7.71	7.84
Saginaw	(*)	380.17	403.60	(*)	39.7	40.4	(*)	9.58	9.99
MINNESOTA	266.64	281.80	284.71	40.4	40.2	40.1	6.60	7.01	7.10
Duluth—Superior	236.74	271.15	273.20	38.0	39.7	40.0	6.23	6.83	6.83
Minneapolis—St. Paul	284.90	303.69	303.91	40.7	40.6	40.2	7.00	7.48	7.56
MISSISSIPPI	186.19	186.12	202.51	40.3	37.6	40.1	4.62	4.95	5.05
Jackson	207.09	219.89	226.46	41.5	41.1	41.1	4.99	5.35	5.51

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		
	OCT. 1978	SEP. 1979	OCT. 1979p	OCT. 1978	SEP. 1979	OCT. 1979p	OCT. 1978	SEP. 1979	OCT. 1979p
MISSOURI	\$255.60	\$271.44	\$272.34	40.7	39.8	39.7	\$6.39	\$6.82	\$6.86
Kansas City	298.39	311.92	314.82	41.1	40.3	39.8	7.26	7.74	7.91
St. Joseph	238.27	258.34	272.15	40.8	38.5	40.2	5.84	6.71	6.77
St. Louis	299.21	307.89	307.09	41.1	40.3	40.3	7.28	7.64	7.62
Springfield	212.69	239.16	236.29	38.6	39.4	38.8	5.51	6.07	6.09
MONTANA	337.42	382.35	368.94	41.3	44.1	43.0	8.17	8.67	8.58
NEBRASKA	250.62	279.97	275.88	41.7	41.6	41.3	6.01	6.73	6.68
Lincoln	250.97	270.01	267.07	39.9	40.3	40.1	6.29	6.70	6.66
Omaha	268.27	289.48	286.96	41.4	40.6	39.8	6.48	7.13	7.21
NEVADA	250.61	271.35	271.75	37.8	39.1	39.1	6.63	6.94	6.95
Las Vegas	311.65	352.02	(*)	39.3	39.2	(*)	7.93	8.98	(*)
NEW HAMPSHIRE	274.62	223.26	221.92	40.2	40.3	39.7	5.09	5.54	5.59
Manchester	178.72	199.76	197.88	38.6	39.4	38.8	4.63	5.07	5.10
Nashua	228.11	245.44	243.36	41.4	41.6	40.9	5.51	5.90	5.95
NEW JERSEY	261.65	281.22	284.66	41.4	41.6	41.8	6.32	6.76	6.81
Atlantic City	187.02	197.36	200.19	38.8	38.1	37.7	4.82	5.18	5.31
Camden ²	255.03	276.14	274.90	41.2	41.4	41.4	6.19	6.67	6.64
Hackensack ³	249.83	263.95	262.55	43.0	42.3	42.9	5.81	6.24	6.12
Jersey City ³	253.43	271.61	276.14	40.1	40.6	41.4	6.32	6.69	6.67
New Brunswick—Perth Amboy—Sayreville ³	289.54	307.91	304.97	41.6	41.0	40.5	6.96	7.51	7.53
Newark ³	261.88	285.02	293.09	41.7	42.1	42.6	6.28	6.77	6.88
Paterson—Clifton—Passaic ³	244.82	262.67	264.27	40.6	41.3	41.1	6.03	6.36	6.43
Trenton	270.68	289.51	297.36	41.2	41.3	41.3	6.57	7.01	7.20
NEW MEXICO	190.68	214.34	207.76	38.6	38.9	39.2	4.94	5.51	5.30
Albuquerque	190.79	218.59	218.81	38.7	39.6	43.5	4.93	5.52	5.03
NEW YORK	244.99	263.48	267.06	39.9	39.8	39.8	6.14	6.62	6.71
Albany—Schenectady—Troy	269.33	290.39	285.82	40.5	40.9	40.6	6.65	7.10	7.04
Binghamton	231.84	247.76	249.87	41.4	41.5	41.3	5.60	5.97	6.05
Buffalo	334.85	347.17	356.29	41.7	40.7	41.0	8.03	8.53	8.69
Elmira	246.24	266.24	272.54	40.5	40.4	40.8	6.08	6.59	6.68
Monroe County ⁴	320.30	346.94	366.21	42.2	41.8	41.9	7.59	8.30	8.74
Nassau—Suffolk ⁵	229.28	251.03	251.93	39.6	40.1	39.8	5.79	6.26	6.33
New York—Northeastern New Jersey	232.85	251.54	(*)	39.6	39.8	(*)	5.88	6.32	(*)
New York and Nassau—Suffolk ³	208.62	228.05	230.57	38.7	38.2	38.3	5.49	5.97	6.02
New York SMSA ⁵	203.79	223.02	225.13	37.6	37.8	37.9	5.42	5.90	5.94
New York City ⁶	200.34	219.16	221.25	37.1	37.4	37.5	5.40	5.86	5.90
Poughkeepsie	247.57	273.49	270.26	41.4	42.6	41.9	5.98	6.42	6.45
Rochester	300.17	323.65	339.44	42.1	41.6	41.7	7.13	7.78	8.14
Rockland County ⁶	244.80	255.60	256.19	40.8	40.7	40.6	6.00	6.28	6.31
Syracuse	281.11	298.99	302.33	42.4	41.7	41.7	6.63	7.17	7.25
Utica—Rome	233.34	263.27	261.94	40.3	41.2	40.8	5.79	6.39	6.42
Westchester County ⁶	255.07	247.23	256.99	42.3	40.2	41.3	6.03	6.15	6.22
NORTH CAROLINA	183.26	200.90	200.80	40.1	40.1	40.0	4.57	5.01	5.02
Asheville	184.37	197.15	202.37	40.7	40.4	40.8	4.53	4.88	4.96
Charlotte—Gastonia	189.11	202.50	208.31	41.2	40.5	40.7	4.59	5.00	5.02
Greensboro—Winston-Salem—High Point	198.30	220.25	217.01	39.9	39.9	39.6	4.97	5.52	5.48
Raleigh—Durham	206.74	230.52	227.13	40.3	40.3	40.2	5.13	5.72	5.65
NORTH DAKOTA	232.72	251.07	252.14	40.9	40.3	40.8	5.69	6.23	6.18
Fargo—Moorhead	248.52	263.07	288.58	39.7	39.5	42.5	6.26	6.66	6.79
OHIO	317.34	326.27	328.34	42.2	41.3	41.3	7.52	7.90	7.95
Akron	309.86	315.06	326.93	42.1	40.6	41.7	7.36	7.76	7.84
Canton	307.69	334.56	334.56	39.6	41.0	40.8	7.77	8.16	8.20
Cincinnati	296.52	307.84	304.22	42.3	41.6	41.0	7.01	7.40	7.42
Cleveland	330.42	333.25	334.43	42.8	41.5	41.7	7.72	8.03	8.02
Columbus	273.10	286.40	288.55	40.4	40.0	39.8	6.76	7.16	7.25
Dayton	325.80	332.27	345.59	42.7	41.9	42.3	7.63	7.93	8.17
Toledo	333.91	339.89	340.30	42.7	41.4	41.0	7.82	8.21	8.30
Youngstown—Warren	362.34	382.82	380.66	41.6	40.9	40.8	8.71	9.36	9.33

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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
OKLAHOMA	\$240.40	\$269.84	\$271.22	40.2	40.7	40.3	\$5.98	\$6.63	\$6.73
Oklahoma City	235.62	281.82	285.53	39.8	42.0	42.3	5.92	6.71	6.75
Tulsa	253.29	293.90	291.20	39.7	40.5	40.0	6.38	7.01	7.28
OREGON	287.43	317.15	309.50	39.0	39.3	38.4	7.37	8.07	8.06
Eugene—Springfield	325.54	338.48	326.52	41.0	40.2	38.1	7.94	8.42	8.57
Jackson County	299.49	335.34	319.61	39.2	40.5	38.6	7.64	8.28	8.28
Portland	269.75	299.52	300.25	38.1	38.4	38.2	7.08	7.80	7.86
PENNSYLVANIA	262.10	285.51	284.17	40.2	40.1	39.8	6.52	7.12	7.14
Allentown—Bethlehem—Easton	258.34	287.54	289.09	38.5	38.7	38.7	6.71	7.43	7.47
Altoona	211.69	246.76	239.90	37.6	39.8	39.2	5.63	6.20	6.12
Delaware Valley	271.35	288.32	288.40	40.2	40.1	40.0	6.75	7.19	7.21
Erie	270.90	295.53	296.90	42.0	41.8	41.7	6.45	7.07	7.12
Harrisburg	239.40	273.97	276.89	40.1	41.7	41.7	5.97	6.57	6.64
Johnstown	279.71	296.73	304.51	39.9	37.8	38.4	7.01	7.85	7.93
Lancaster	231.49	250.51	252.77	40.4	40.8	41.1	5.73	6.14	6.15
Northeast Pennsylvania	189.21	203.86	204.03	37.1	37.2	37.3	5.10	5.48	5.47
Philadelphia SMSA	269.47	285.73	286.22	40.4	40.3	40.2	6.67	7.09	7.12
Pittsburgh	321.12	355.88	346.12	40.7	41.0	40.2	7.89	8.68	8.61
Reading	230.29	255.03	260.63	38.9	38.7	38.9	5.92	6.59	6.70
Scranton	199.29	209.91	209.37	39.0	38.8	38.7	5.11	5.41	5.41
Wilkes-Barre—Hazleton	181.20	197.97	191.75	35.6	35.8	34.8	5.04	5.53	5.51
Williamsport	234.21	255.42	259.25	39.9	39.6	39.4	5.87	6.45	6.58
York	244.70	265.02	259.38	41.9	42.0	41.5	5.84	6.31	6.25
RHODE ISLAND	187.50	204.09	203.31	38.9	39.4	38.8	4.82	5.18	5.24
Providence—Warwick—Pawtucket	190.79	204.46	201.89	39.5	39.7	38.9	4.83	5.15	5.19
SOUTH CAROLINA	195.84	215.78	215.25	40.8	41.1	41.0	4.80	5.25	5.25
Charleston—North Charleston	225.72	241.80	234.23	41.8	40.3	39.3	5.40	6.00	5.96
Columbia	186.91	211.82	212.22	39.6	40.5	40.5	4.72	5.23	5.24
Greenville—Spartanburg	192.44	210.53	212.16	40.6	40.8	40.8	4.74	5.16	5.20
SOUTH DAKOTA	226.31	254.23	250.49	42.3	42.8	44.1	5.35	5.94	5.68
Rapid City	175.76	201.44	195.16	33.8	36.1	35.1	5.20	5.58	5.56
Sioux Falls	297.18	362.32	342.41	46.8	47.8	45.9	6.35	7.58	7.46
TENNESSEE	218.80	222.24	224.64	40.0	39.9	39.9	5.22	5.57	5.63
Chattanooga	217.21	229.54	227.83	40.6	40.2	39.9	5.35	5.71	5.71
Knoxville	248.02	261.60	262.00	41.2	40.0	40.0	6.02	6.54	6.55
Memphis	241.59	271.75	265.83	40.4	41.3	40.4	5.98	6.58	6.58
Nashville—Davidson	228.63	243.41	248.88	40.9	40.3	40.8	5.59	6.04	6.10
TEXAS	247.76	270.03	272.24	41.5	41.1	41.0	5.97	6.57	6.64
Amarillo	242.78	260.71	264.12	41.5	42.6	42.6	5.85	6.12	6.20
Austin	191.78	206.23	207.24	41.6	41.0	41.2	4.61	5.03	5.03
Beaumont—Port Arthur—Orange	353.14	368.10	370.87	41.4	40.9	40.4	8.53	9.00	9.18
Corpus Christi	302.60	319.84	309.37	42.8	41.7	40.6	7.07	7.67	7.62
Dallas—Fort Worth	229.04	253.17	253.17	40.9	41.3	40.9	5.60	6.13	6.19
El Paso	185.44	205.59	201.20	40.4	41.2	40.0	4.59	4.99	5.03
Galveston—Texas City	410.77	415.88	420.85	42.7	43.1	42.9	9.62	9.64	9.81
Houston	314.79	343.37	344.67	43.3	43.3	43.3	7.27	7.93	7.96
Lubbock	182.66	205.67	207.67	40.5	41.3	41.7	4.51	4.98	4.98
San Antonio	179.20	199.51	199.10	40.0	40.8	40.8	4.48	4.89	4.88
Waco	210.14	239.03	237.86	39.8	41.0	40.8	5.28	5.83	5.83
Wichita Falls	215.74	241.35	235.22	40.1	39.5	39.4	5.38	6.11	5.97
UTAH	229.70	246.38	247.80	38.8	38.8	38.3	5.92	6.35	6.47
Salt Lake City—Ogden	221.48	233.79	231.00	39.2	38.9	38.5	5.65	6.01	6.00
VERMONT	214.35	230.72	228.63	41.3	41.2	40.9	5.19	5.60	5.59
Burlington	245.38	261.51	249.78	43.2	42.8	41.7	5.68	6.11	5.99
Springfield	243.67	272.64	270.94	41.3	42.6	42.4	5.90	6.40	6.39
VIRGINIA	211.41	227.60	227.03	40.5	40.0	39.9	5.22	5.69	5.69
Bristol	187.72	203.04	202.00	38.0	37.6	37.2	4.94	5.40	5.43
Lynchburg	220.72	234.26	235.53	40.5	40.6	40.4	5.45	5.77	5.83
Norfolk—Virginia Beach—Portsmouth	237.38	260.20	257.50	41.5	41.5	41.2	5.72	6.27	6.25
Northern Virginia	247.57	252.98	255.18	41.4	38.8	38.2	5.98	6.52	6.68
Petersburg-Colonial Heights-Hopewell	247.68	277.09	294.44	38.7	38.7	40.5	6.40	7.16	7.27

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		
	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P	OCT. 1978	SEP. 1979	OCT. 1979P
VIRGINIA—Continued									
Richmond	\$254.97	\$274.00	\$272.56	40.6	40.0	40.2	\$6.28	\$6.85	\$6.78
Roanoke	192.23	214.30	215.20	40.3	40.1	40.3	4.77	5.34	5.34
WASHINGTON	305.32	337.51	(*)	39.6	39.2	(*)	7.71	8.61	(*)
Seattle—Everett	310.86	335.86	(*)	39.6	39.7	(*)	7.85	8.46	(*)
Spokane	267.18	293.74	(*)	39.7	38.0	(*)	6.73	7.73	(*)
Tacoma	304.58	325.08	(*)	39.2	37.8	(*)	7.77	8.60	(*)
WEST VIRGINIA	272.23	300.53	(*)	39.8	39.7	(*)	6.84	7.57	(*)
Charleston	313.12	318.98	(*)	42.2	41.0	(*)	7.42	7.78	(*)
Huntington—Ashland	302.40	331.93	(*)	40.0	39.8	(*)	7.56	8.34	(*)
Parkersburg—Marietta	285.01	314.36	(*)	40.6	41.2	(*)	7.02	7.63	(*)
Wheeling	288.15	321.18	(*)	40.3	40.4	(*)	7.15	7.95	(*)
WISCONSIN	285.26	303.84	306.92	41.3	41.5	41.0	6.91	7.33	7.49
Appleton—Oshkosh	273.97	302.75	301.45	41.8	42.1	41.6	6.56	7.19	7.25
Eau Claire	276.12	297.45	313.82	40.2	41.2	42.2	6.87	7.23	7.44
Green Bay	293.25	308.01	318.10	42.6	41.8	42.2	6.89	7.37	7.44
Kenosha	333.05	376.65	357.48	40.5	42.1	40.3	8.23	8.94	8.87
La Crosse	219.44	231.74	237.20	39.5	40.9	41.1	5.56	5.67	5.77
Madison	276.06	260.01	299.37	39.6	41.5	39.5	6.98	6.27	7.58
Milwaukee	310.49	333.86	336.11	41.2	41.3	41.1	7.53	8.09	8.18
Racine	299.02	330.99	337.90	41.1	41.9	42.6	7.27	7.90	7.93
WYOMING	246.33	243.39	253.16	39.1	36.6	38.3	6.30	6.65	6.61
Casper	299.02	308.10	343.61	39.5	37.3	41.2	7.57	8.26	8.34
Cheyenne	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

¹ Data for 1979 not strictly comparable with earlier years.

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

³ Subarea of New York-Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York Standard Metropolitan Statistical Area.

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

⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lack-

awanna County.

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

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

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing, 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	5.3	4.6	3.9	3.1	2.4
1978	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979	-	4.0	3.4	3.8	3.9	4.7	4.8	4.3	4.9	4.4	P4.1		
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	3.0	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	P3.1		
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	1.0	.8	.6	.6	.6
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979	-	.9	.7	.7	.7	.8	.7	.9	.9	.8	P.7		
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	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	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	3.6	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	4.3	5.1	4.9	3.8	3.4	3.4
1978	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.8	4.1	3.5	3.4
1979	-	3.8	3.2	3.6	3.6	3.8	3.9	4.3	5.7	4.7	P4.2		
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	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	P2.3	1.7	1.3
1979	-	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	P2.1		
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	1.5	1.0	1.1	1.1	1.1	1.5
1978	.9	1.2	.9	.9	.8	.7	.7	1.0	.8	.8	P.9	1.0	1.4
1979	-	1.1	.8	.8	.9	.7	.8	1.4	1.3	1.1	P1.2		

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	
		Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P
-	MANUFACTURING	4.4	4.1	3.4	3.1	0.8	0.7	4.7	4.2	2.7	2.1	1.1	1.2
24, 25, 32-39	DURABLE GOODS	4.0	3.7	3.0	2.8	.7	.6	4.1	3.7	2.2	1.8	.9	1.0
20-23, 26-31	NONDURABLE GOODS	5.1	4.7	4.0	3.6	.9	.8	5.5	5.0	3.4	2.7	1.3	1.4
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.7	5.1	4.9	4.6	.6	.4	6.4	6.7	4.5	3.6	.7	1.9
242	Sawmills and planing mills	4.5	-	4.0	-	.4	-	5.7	-	4.1	-	.6	-
2421	Sawmills and planing mills, general	4.0	-	3.6	-	.3	-	5.2	-	3.7	-	.6	-
243	Millwork, plywood, and structural members	6.0	-	5.1	-	.8	-	6.0	-	4.2	-	.6	-
2431	Millwork	5.9	-	4.7	-	1.2	-	5.3	-	3.8	-	.5	-
244	Wooden containers	8.1	-	7.1	-	.8	-	8.0	-	6.3	-	.6	-
245	Wood buildings and mobile homes	8.4	-	7.7	-	.6	-	10.6	-	7.1	-	1.4	-
2451	Mobile homes	10.0	-	9.4	-	.5	-	11.8	-	8.0	-	1.4	-
249	Miscellaneous wood products	6.4	-	5.1	-	.7	-	5.5	-	4.1	-	.5	-
25	FURNITURE AND FIXTURES	5.8	5.5	5.2	4.8	.4	.6	5.4	5.3	3.6	3.2	.6	.8
251	Household furniture	6.4	-	5.7	-	.5	-	5.6	-	4.0	-	.4	-
2511	Wood household furniture	6.5	-	6.1	-	.2	-	5.5	-	4.2	-	(1)	-
2512	Upholstered household furniture	5.5	-	4.9	-	.4	-	5.1	-	3.7	-	.3	-
2515	Mattresses and bedsprings	7.3	-	6.9	-	.3	-	6.1	-	4.1	-	.5	-
252	Office furniture	2.6	-	2.5	-	.1	-	2.7	-	1.9	-	.3	-
254	Partitions and fixtures	6.0	-	5.6	-	.3	-	6.1	-	3.6	-	1.3	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.8	3.6	3.1	2.9	.6	.5	4.6	4.4	2.6	2.0	1.0	1.5
322	Glass and glassware, pressed or blown	2.9	-	1.6	-	.9	-	3.7	-	1.6	-	1.1	-
3221	Glass containers, pressed or blown	2.2	-	1.4	-	.6	-	3.8	-	1.9	-	1.2	-
3229	Pressed and blown glass, nec	3.6	-	1.8	-	1.2	-	3.7	-	1.3	-	1.0	-
323	Products of purchased glass	6.0	-	4.9	-	1.0	-	7.0	-	3.8	-	1.9	-
324	Cement, hydraulic	1.1	-	1.0	-	.1	-	2.2	-	1.4	-	.2	-
325	Structural clay products	5.6	-	5.0	-	.4	-	6.3	-	4.6	-	.5	-
326	Pottery and related products	4.6	-	3.8	-	.6	-	4.2	-	2.6	-	.5	-
327	Concrete, gypsum, and plaster products	4.7	-	4.2	-	.5	-	5.5	-	3.5	-	1.0	-
329	Misc. nonmetallic mineral products	2.9	-	2.2	-	.4	-	3.5	-	1.7	-	.9	-
33	PRIMARY METAL INDUSTRIES	2.4	2.5	1.6	1.5	.6	.7	3.9	3.6	1.3	1.0	1.6	1.8
331	Blast furnace and basic steel products	1.5	-	.6	-	.6	-	3.9	-	.9	-	2.0	-
3312	Blast furnaces and steel mills	1.4	-	.4	-	.6	-	4.0	-	.9	-	2.1	-
332	Iron and steel foundries	3.4	-	2.6	-	.6	-	5.2	-	1.9	-	2.3	-
3321	Gray iron foundries	3.3	-	2.4	-	.6	-	5.1	-	2.0	-	2.2	-
3325	Steel foundries, nec	3.2	-	2.8	-	.2	-	3.7	-	1.7	-	.6	-
333	Primary nonferrous metals	1.1	-	1.0	-	.1	-	1.9	-	1.1	-	.3	-
335	Nonferrous rolling and drawing	2.3	-	1.8	-	.3	-	2.5	-	1.1	-	.5	-
3351	Copper rolling and drawing	1.9	-	1.7	-	.2	-	2.7	-	1.4	-	.3	-
3353	Aluminum sheet, plate, and foil	1.1	-	.7	-	.2	-	2.2	-	.5	-	1.2	-
3357	Nonferrous wire drawing and insulating	2.6	-	2.1	-	.3	-	1.9	-	1.1	-	.2	-
336	Nonferrous foundries	5.2	-	3.3	-	1.5	-	5.5	-	2.6	-	1.8	-
3361	Aluminum foundries	6.0	-	3.7	-	1.8	-	5.5	-	2.6	-	1.6	-
34	FABRICATED METAL PRODUCTS	4.6	4.4	3.6	3.5	.7	.7	4.6	4.4	2.5	2.1	1.1	1.3
341	Metal cans and shipping containers	3.0	-	1.9	-	.8	-	6.1	-	1.6	-	3.3	-
3411	Metal cans	2.9	-	1.5	-	1.0	-	6.4	-	1.3	-	3.9	-
342	Cutlery, hand tools, and hardware	4.4	-	3.4	-	.9	-	3.7	-	2.2	-	.6	-
3423, 5	Hand and edge tools, and hand saws and blades	4.0	-	3.7	-	.3	-	3.5	-	2.2	-	.3	-
3429	Hardware, nec	5.0	-	3.4	-	1.3	-	3.9	-	2.3	-	.8	-
343	Plumbing and heating, except electric	6.0	-	4.5	-	1.4	-	4.5	-	2.5	-	.8	-
344	Fabricated structural metal products	5.2	-	4.5	-	.4	-	5.1	-	3.0	-	.9	-
3441	Fabricated structural metal	5.2	-	4.6	-	.4	-	5.2	-	2.8	-	1.1	-
3442	Metal doors, sash, and trim	7.8	-	7.0	-	.6	-	6.9	-	4.8	-	.3	-
3443	Fabricated plate work (boiler shops)	2.9	-	2.4	-	.3	-	2.9	-	1.7	-	.5	-
3444	Sheet metal work	5.7	-	4.7	-	.4	-	5.5	-	3.4	-	1.2	-
345	Screw machine products, bolts, etc.	3.7	-	3.2	-	.4	-	4.2	-	2.5	-	.8	-
3451	Screw machine products	4.6	-	4.2	-	.3	-	4.7	-	3.3	-	.6	-
3452	Bolts, nuts, rivets, and washers	2.9	-	2.3	-	.5	-	3.8	-	1.7	-	1.0	-
346	Metal forgings and stampings	4.5	-	2.2	-	1.6	-	4.5	-	1.7	-	1.9	-
3462	Iron and steel forgings	7.2	-	2.0	-	5.2	-	4.4	-	1.3	-	2.4	-
3465	Automotive stampings	3.9	-	.7	-	1.2	-	4.7	-	.9	-	2.9	-
3469	Metal stampings, nec	4.1	-	3.6	-	.4	-	4.6	-	2.7	-	.8	-
347	Metal services, nec	6.1	-	5.5	-	.4	-	5.7	-	3.9	-	.5	-
346	Ordnance and accessories, nec	2.2	-	1.8	-	.3	-	1.9	-	1.0	-	.4	-
349	Misc. fabricated metal products	4.2	-	3.6	-	.5	-	4.0	-	2.4	-	.8	-
3494	Valves and pipe fittings	3.5	-	2.8	-	.6	-	3.1	-	1.6	-	.7	-
3496	Misc. fabricated wire products	5.4	-	4.9	-	.4	-	5.2	-	3.6	-	.7	-

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	
		Sept. 1979	Oct. 1979 ^p	Sept. 1979	Oct. 1979 ^p	Sept. 1979	Oct. 1979 ^p	Sept. 1979	Oct. 1979 ^p	Sept. 1979	Oct. 1979 ^p	Sept. 1979	Oct. 1979 ^p
35	MACHINERY, EXCEPT ELECTRICAL	3.0	2.9	2.5	2.4	0.3	0.2	3.0	2.7	1.7	1.3	0.5	0.6
351	Engines and turbines	2.8	-	1.7	-	.1	-	2.6	-	.8	-	.5	-
3511	Turbines and turbine generator sets	2.2	-	1.1	-	(¹)	-	3.0	-	.5	-	1.1	-
3519	Internal combustion engines, nec	3.0	-	1.9	-	.1	-	2.5	-	1.0	-	.3	-
352	Farm and garden machinery	4.0	-	3.2	-	.3	-	3.1	-	2.0	-	.3	-
3523	Farm machinery and equipment	3.9	-	3.2	-	.3	-	3.1	-	1.9	-	.2	-
353	Construction and related machinery	2.2	-	2.0	-	.1	-	2.7	-	1.3	-	.8	-
3531	Construction machinery	1.5	-	1.3	-	.1	-	2.7	-	.9	-	1.4	-
3533	Oil field machinery	2.9	-	2.8	-	.1	-	2.9	-	2.1	-	.1	-
354	Metalworking machinery	3.0	-	2.5	-	.2	-	2.8	-	1.7	-	.3	-
3541	Machine tools, metal cutting types	2.4	-	2.1	-	.2	-	2.1	-	1.4	-	(¹)	-
3544	Special dies, tools, jigs, and fixtures	3.1	-	2.6	-	.3	-	3.5	-	1.9	-	.6	-
3545	Machine tool accessories	3.4	-	2.9	-	.2	-	2.6	-	1.7	-	.1	-
355	Special industry machinery	2.6	-	2.2	-	.2	-	2.7	-	1.5	-	.5	-
3551	Food products machinery	2.2	-	2.0	-	.2	-	2.5	-	1.2	-	.7	-
3552	Textile machinery	3.2	-	2.8	-	.2	-	4.6	-	2.2	-	1.4	-
356	General industrial machinery	2.5	-	1.9	-	.4	-	3.0	-	1.5	-	.7	-
3561	Pumps and pumping equipment	1.9	-	1.6	-	.2	-	2.6	-	1.4	-	.5	-
3562	Ball and roller bearings	2.3	-	1.1	-	.9	-	3.8	-	1.1	-	2.1	-
3564	Blowers and fans	3.4	-	3.1	-	.2	-	3.3	-	1.9	-	.4	-
357	Office and computing machines	3.3	-	2.9	-	.1	-	2.9	-	1.8	-	(¹)	-
3573	Electronic computing equipment	3.4	-	3.1	-	.1	-	2.9	-	1.8	-	(¹)	-
358	Refrigeration and service machinery	3.0	-	2.2	-	.4	-	3.6	-	1.6	-	1.0	-
3585	Refrigeration and heating equipment	2.8	-	2.0	-	.3	-	4.0	-	1.4	-	1.4	-
359	Misc. machinery, except electrical	4.5	-	3.8	-	.6	-	4.1	-	2.6	-	.6	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.7	3.3	2.9	2.6	.4	.4	3.7	3.0	2.2	1.6	.5	.5
361	Electric distributing equipment	3.2	-	2.4	-	.1	-	3.4	-	1.8	-	.5	-
3612	Transformers	3.2	-	2.3	-	.1	-	3.5	-	1.7	-	.6	-
3613	Switchgear and switchboard apparatus	3.2	-	2.4	-	.2	-	3.4	-	1.8	-	.4	-
362	Electrical industrial apparatus	2.9	-	1.9	-	.6	-	3.4	-	1.9	-	.8	-
3621	Motors and generators	3.1	-	1.6	-	.9	-	3.8	-	1.7	-	1.2	-
3622	Industrial controls	2.7	-	2.2	-	.3	-	2.9	-	1.9	-	.2	-
363	Household appliances	4.8	-	2.8	-	.7	-	4.9	-	2.6	-	.6	-
3632	Household refrigerators and freezers	5.4	-	1.7	-	1.2	-	5.7	-	2.6	-	.5	-
3633	Household laundry equipment	2.9	-	1.6	-	.4	-	2.8	-	1.5	-	.5	-
3634	Electric housewares and fans	5.6	-	4.3	-	.9	-	4.9	-	3.5	-	.4	-
364	Electric lighting and wiring equipment	4.3	-	3.2	-	.7	-	4.2	-	2.3	-	1.0	-
3641	Electric lamps	2.8	-	1.7	-	.4	-	3.6	-	1.0	-	1.6	-
3643	Current-carrying wiring devices	3.8	-	3.4	-	.2	-	4.0	-	2.5	-	.7	-
365	Radio and TV receiving equipment	3.9	-	3.0	-	.3	-	3.0	-	1.5	-	.4	-
3651	Radio and TV receiving sets	2.9	-	1.8	-	.3	-	2.8	-	1.3	-	.4	-
366	Communication equipment	2.3	-	1.9	-	.1	-	2.4	-	1.6	-	.2	-
3661	Telephone and telegraph apparatus	2.0	-	1.6	-	.1	-	1.5	-	1.0	-	.1	-
3662	Radio and TV communication equipment	2.5	-	2.1	-	.2	-	2.7	-	1.8	-	.3	-
367	Electronic components and accessories	5.2	-	4.6	-	.3	-	4.7	-	3.3	-	.3	-
3671-3	Electronic tubes	2.1	-	1.5	-	.1	-	2.7	-	1.5	-	.2	-
3674	Semiconductors and related devices	4.3	-	3.8	-	.3	-	3.7	-	2.5	-	.2	-
3679	Electronic components, nec	6.2	-	5.5	-	.3	-	5.4	-	4.2	-	.2	-
369	Misc. electrical equipment and supplies	3.1	-	2.1	-	.6	-	3.8	-	1.8	-	1.1	-
3694	Engine electrical equipment	1.8	-	1.1	-	.5	-	3.7	-	1.3	-	1.8	-
37	TRANSPORTATION EQUIPMENT	4.4	-	2.2	-	1.7	-	4.0	-	1.4	-	1.8	-
371	Motor vehicles and equipment	4.4	-	1.3	-	2.5	-	4.9	-	1.1	-	3.0	-
3711	Motor vehicles and car bodies	4.8	-	1.4	-	2.9	-	4.5	-	1.0	-	2.6	-
3713	Truck and bus bodies	8.2	-	2.3	-	5.5	-	4.4	-	2.4	-	1.1	-
3714	Motor vehicle parts and accessories	3.8	-	1.0	-	1.9	-	5.3	-	.9	-	3.6	-
3715	Truck trailers	3.4	-	3.0	-	.3	-	5.8	-	2.3	-	2.2	-
372	Aircraft and parts	3.2	-	2.7	-	.2	-	2.3	-	1.4	-	.2	-
3721	Aircraft	2.8	-	2.3	-	.2	-	2.1	-	1.3	-	.2	-
3724	Aircraft engines and engine parts	2.6	-	2.1	-	.1	-	1.9	-	.8	-	.3	-
3728	Aircraft equipment, nec	5.2	-	4.7	-	.2	-	3.7	-	2.5	-	.1	-
373	Ship and boat building and repairing	7.8	-	4.4	-	3.2	-	5.6	-	2.3	-	2.1	-
3731	Ship building and repairing	8.0	-	4.3	-	3.5	-	5.8	-	2.0	-	2.5	-
3732	Boat building and repairing	7.1	-	4.8	-	2.2	-	5.2	-	3.5	-	.6	-
374	Railroad equipment	3.2	-	1.5	-	.9	-	3.4	-	1.0	-	1.0	-
376	Guided missiles, space vehicles, parts	2.2	-	1.7	-	.2	-	1.8	-	1.3	-	.2	-
3761	Guided missiles and space vehicles	2.1	-	1.6	-	.2	-	1.6	-	1.1	-	.1	-
379	Miscellaneous transportation equipment	7.9	-	5.0	-	2.5	-	5.5	-	3.6	-	.8	-
38	INSTRUMENTS AND RELATED PRODUCTS	3.0	3.2	2.5	2.6	.2	.3	3.4	2.9	2.4	1.7	.3	.6
381	Engineering and scientific instruments	2.7	-	2.6	-	.1	-	2.3	-	1.7	-	.2	-
382	Measuring and controlling devices	3.3	-	2.7	-	.3	-	2.9	-	1.8	-	.4	-
3822	Environmental controls	3.8	-	3.1	-	.3	-	3.2	-	1.5	-	.9	-
3823	Process control instruments	3.1	-	2.3	-	.5	-	2.5	-	1.5	-	.1	-
3825	Instruments to measure electricity	3.3	-	2.7	-	.1	-	2.7	-	2.2	-	.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	
		Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.0	—	2.8	—	0.1	—	3.0	—	2.3	—	0.1	—
384	Medical instruments and supplies	3.3	—	3.1	—	.1	—	3.7	—	2.6	—	.4	—
3841	Surgical and medical instruments	4.0	—	3.8	—	(1)	—	4.1	—	3.2	—	.1	—
3842	Surgical appliances and supplies	2.9	—	2.5	—	.2	—	3.4	—	1.9	—	.7	—
385	Ophthalmic goods	4.8	—	3.4	—	.5	—	4.2	—	2.9	—	.7	—
386	Photographic equipment and supplies	1.2	—	1.1	—	(1)	—	3.9	—	3.3	—	.1	—
387	Watches, clocks, and watchcases	4.1	—	3.3	—	.5	—	4.8	—	3.0	—	.4	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.9	6.4	5.9	5.3	.7	0.9	6.7	6.5	4.0	3.4	1.1	1.7
391	Jewelry, silverware, and plated ware	6.1	—	5.0	—	1.0	—	4.8	—	3.0	—	.9	—
393	Musical instruments	5.0	—	3.6	—	.8	—	3.9	—	2.8	—	.3	—
394	Toys and sporting goods	10.6	—	9.7	—	.6	—	9.9	—	5.7	—	1.0	—
3942.4	Dolls, games, toys, and children's vehicles	14.4	—	13.9	—	.2	—	12.8	—	7.7	—	.5	—
3949	Sporting and athletic goods, nec	6.5	—	5.1	—	1.0	—	6.7	—	3.5	—	1.5	—
395	Pens, pencils, office and art supplies	3.6	—	3.3	—	.1	—	3.4	—	2.4	—	.2	—
396	Costume jewelry and notions	8.3	—	6.5	—	1.7	—	9.8	—	5.5	—	2.6	—
399	Miscellaneous manufactures	4.6	—	3.9	—	.5	—	4.9	—	2.9	—	1.0	—
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	8.0	6.5	6.0	4.9	1.8	1.3	8.9	8.1	5.1	4.0	2.7	3.2
201	Meat products	7.9	—	6.7	—	.8	—	8.1	—	5.9	—	1.2	—
2011	Meat packing plants	5.1	—	3.7	—	1.0	—	5.4	—	2.9	—	1.6	—
2013	Sausages and other prepared meats	4.3	—	3.3	—	.8	—	5.5	—	2.7	—	1.9	—
2016	Poultry dressing plants	13.4	—	12.2	—	.4	—	12.7	—	11.5	—	(1)	—
202	Dairy products	3.8	—	3.3	—	.4	—	5.2	—	3.3	—	1.2	—
203	Preserved fruits and vegetables	18.4	—	12.5	—	5.7	—	20.4	—	10.5	—	7.9	—
204	Grain mill products	4.4	—	3.4	—	.9	—	4.0	—	2.4	—	.8	—
205	Bakery products	4.1	—	3.5	—	.5	—	4.6	—	3.0	—	.8	—
2051	Bread, cake, and related products	4.1	—	3.7	—	.3	—	4.7	—	3.2	—	.6	—
2052	Cookies and crackers	4.2	—	2.5	—	1.5	—	4.3	—	2.1	—	1.5	—
206	Sugar and confectionery products	6.5	—	4.2	—	2.1	—	4.9	—	2.7	—	1.3	—
207	Fats and oils	4.0	—	3.3	—	.6	—	4.5	—	2.3	—	1.2	—
208	Beverages	4.9	—	3.6	—	1.1	—	6.0	—	3.2	—	1.6	—
2082	Malt beverages	4.4	—	1.2	—	2.6	—	5.4	—	.5	—	3.1	—
2086	Bottled and canned soft drinks	4.8	—	4.4	—	.3	—	7.1	—	4.6	—	1.5	—
209	Misc. foods and kindred products	7.3	—	5.6	—	1.4	—	10.6	—	5.3	—	4.1	—
21	TOBACCO MANUFACTURES	5.4	—	2.2	—	2.1	—	3.4	—	1.5	—	1.0	—
211	Cigarettes	1.5	—	.7	—	.3	—	1.8	—	.9	—	.1	—
22	TEXTILE MILL PRODUCTS	4.9	5.1	4.0	4.1	.5	.6	5.1	5.0	3.5	3.1	.6	.8
221	Weaving mills, cotton	4.4	—	3.5	—	.2	—	4.5	—	3.1	—	.3	—
222	Weaving mills, synthetics	4.3	—	3.7	—	.3	—	4.3	—	3.1	—	.2	—
223	Weaving and finishing mills, wool	5.3	—	4.6	—	.5	—	5.7	—	4.0	—	.6	—
224	Narrow fabric mills	4.5	—	3.6	—	.5	—	5.3	—	3.3	—	1.3	—
225	Knitting mills	5.3	—	4.2	—	.8	—	5.6	—	3.8	—	1.0	—
2251	Women's hosiery, except socks	6.1	—	5.5	—	.4	—	6.0	—	5.0	—	.3	—
2252	Hosiery, nec	5.1	—	4.5	—	.3	—	5.2	—	4.2	—	.4	—
2253	Knit outerwear mills	5.9	—	4.8	—	.8	—	5.8	—	3.7	—	1.1	—
2254	Knit underwear mills	4.0	—	3.2	—	.6	—	4.2	—	3.5	—	.2	—
2257	Circular knit fabric mills	5.6	—	3.6	—	1.8	—	6.1	—	3.5	—	1.1	—
226	Textile finishing, except wool	4.7	—	3.9	—	.5	—	4.6	—	2.7	—	1.0	—
227	Floor covering mills	4.8	—	4.3	—	.4	—	5.8	—	4.0	—	.6	—
228	Yarn and thread mills	5.9	—	5.0	—	.6	—	6.1	—	4.5	—	.3	—
229	Miscellaneous textile goods	3.7	—	3.0	—	.5	—	4.5	—	2.6	—	.9	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.2	6.2	4.4	4.5	1.5	1.5	6.2	6.1	3.9	3.4	1.4	1.7
231	Men's and boys' suits and coats	3.8	—	1.9	—	1.5	—	6.6	—	2.2	—	3.6	—
232	Men's and boys' furnishings	6.3	—	5.2	—	.9	—	6.4	—	5.0	—	.7	—
2321	Men's and boys' shirts and nightwear	6.2	—	4.8	—	1.0	—	6.0	—	4.8	—	.5	—
2327	Men's and boys' separate trousers	5.3	—	4.7	—	.5	—	5.5	—	4.6	—	.3	—
2328	Men's and boys' work clothing	7.2	—	6.3	—	.7	—	7.3	—	6.0	—	.6	—
233	Women's and misses' underwear	6.1	—	3.7	—	2.1	—	5.8	—	3.2	—	1.8	—
234	Women's and children's undergarments	6.2	—	4.7	—	1.2	—	6.0	—	4.1	—	1.0	—
2341	Women's and children's underwear	6.4	—	4.8	—	1.3	—	6.0	—	4.4	—	.9	—
2342	Brassieres and allied garments	5.6	—	4.3	—	1.0	—	5.7	—	2.8	—	1.4	—
236	Children's outerwear	5.1	—	3.9	—	.9	—	6.3	—	3.7	—	1.9	—
238	Misc. apparel and accessories	6.3	—	4.9	—	1.2	—	5.7	—	4.2	—	.9	—
239	Misc. fabricated textile products	7.4	—	5.3	—	1.9	—	6.5	—	4.1	—	1.4	—
26	PAPER AND ALLIED PRODUCTS	2.9	2.7	2.5	2.1	.3	.4	3.6	2.7	2.0	1.3	.7	.7
261,2,6	Paper and pulp mills	1.5	—	1.2	—	.1	—	2.4	—	1.4	—	.4	—
262	Paper mills, except building paper	1.4	—	1.1	—	.1	—	2.4	—	1.4	—	.4	—

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	
		Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P	Sept. 1979	Oct. 1979 ^P
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	1.9	—	1.6	—	0.2	—	3.0	—	1.5	—	0.3	—
264	Misc. converted paper products	3.6	—	3.1	—	.3	—	4.5	—	3.6	—	1.0	—
265	Paperboard containers and boxes	3.7	—	3.2	—	.4	—	3.9	—	2.1	—	.7	—
2651	Folding paperboard boxes	3.6	—	3.1	—	.4	—	3.5	—	1.9	—	.6	—
2653	Corrugated and solid fiber boxes	3.2	—	2.9	—	.1	—	3.7	—	2.1	—	.5	—
27	PRINTING AND PUBLISHING	4.1	3.9	3.6	3.4	.4	0.4	4.0	3.5	2.8	2.3	.5	0.6
271	Newspapers	4.5	—	4.2	—	.2	—	4.4	—	3.7	—	.2	—
272	Periodicals	3.8	—	3.6	—	.2	—	3.2	—	2.5	—	.2	—
273	Books	3.3	—	2.8	—	.4	—	4.3	—	2.1	—	1.7	—
274	Miscellaneous publishing	4.3	—	3.4	—	.9	—	4.0	—	2.3	—	.9	—
275	Commercial printing	3.7	—	3.1	—	.5	—	3.5	—	2.0	—	.5	—
2751	Commercial printing, letterpress	3.6	—	3.1	—	.4	—	3.6	—	2.2	—	.4	—
2752	Commercial printing, lithographic	3.8	—	3.2	—	.5	—	3.4	—	1.9	—	.7	—
278	Blankbooks and bookbinding	6.1	—	5.6	—	.4	—	5.1	—	3.6	—	.6	—
28	CHEMICALS AND ALLIED PRODUCTS	1.7	1.7	1.4	1.4	.2	.2	2.2	1.6	1.2	.7	.4	.4
281	Industrial inorganic chemicals	1.4	—	1.2	—	.1	—	1.8	—	1.1	—	.3	—
2819	Industrial inorganic chemicals, nec	1.5	—	1.2	—	.1	—	1.7	—	1.1	—	.2	—
282	Plastics materials and synthetics	1.1	—	.8	—	.1	—	1.8	—	1.0	—	.4	—
2821	Plastics materials and resins	1.4	—	1.3	—	(¹)	—	2.0	—	1.2	—	.2	—
2824	Organic fibers, noncellulosic	.6	—	.3	—	.1	—	1.3	—	.8	—	.1	—
283	Drugs	1.6	—	1.4	—	.1	—	1.9	—	1.0	—	.4	—
2834	Pharmaceutical preparations	1.7	—	1.5	—	.1	—	1.9	—	1.1	—	.5	—
284	Soap, cleaners, and toilet goods	2.8	—	2.1	—	.6	—	3.5	—	1.9	—	.7	—
2841	Soap and other detergents	1.5	—	1.0	—	.4	—	1.4	—	.7	—	.1	—
2844	Toilet preparations	4.1	—	2.9	—	1.1	—	5.0	—	2.9	—	1.0	—
285	Paints and allied products	2.2	—	1.9	—	.1	—	3.6	—	1.8	—	.9	—
286	Industrial organic chemicals	1.0	—	.9	—	(¹)	—	1.3	—	.8	—	.1	—
287	Agricultural chemicals	3.0	—	2.1	—	.6	—	2.4	—	1.4	—	.3	—
289	Miscellaneous chemical products	2.4	—	1.8	—	.4	—	3.1	—	1.7	—	.8	—
29	PETROLEUM AND COAL PRODUCTS	3.5	2.5	3.3	2.3	.1	(¹)	2.5	2.2	1.4	.8	.5	.8
291	Petroleum refining	3.2	—	3.1	—	(¹)	—	1.8	—	.8	—	.5	—
295	Paving and roofing materials	5.1	—	4.5	—	.6	—	5.6	—	3.7	—	.6	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	5.3	4.8	4.3	3.8	.6	.6	6.1	5.3	3.6	2.8	1.3	1.2
301	Tires and inner tubes	1.4	—	.6	—	.3	—	3.0	—	.8	—	1.5	—
302	Rubber and plastics footwear	8.7	—	7.4	—	.5	—	8.4	—	6.1	—	.6	—
303.4	Reclaimed rubber, and rubber and plastics hose and belting	3.1	—	2.0	—	.8	—	4.5	—	2.0	—	1.7	—
306	Fabricated rubber products, nec	3.5	—	2.3	—	.7	—	5.5	—	2.3	—	2.1	—
307	Miscellaneous plastics products	6.6	—	5.6	—	.6	—	7.0	—	4.5	—	1.1	—
31	LEATHER AND LEATHER PRODUCTS	7.3	6.6	5.6	5.1	1.2	1.1	8.6	7.1	5.3	4.3	2.2	1.7
311	Leather tanning and finishing	6.7	—	3.9	—	2.7	—	6.7	—	3.4	—	2.3	—
314	Footwear, except rubber	7.1	—	5.6	—	1.0	—	9.2	—	5.7	—	2.4	—
3143	Men's footwear, except athletic	6.4	—	5.4	—	.6	—	8.0	—	5.7	—	1.1	—
3144	Women's footwear, except athletic	6.4	—	4.5	—	1.3	—	9.8	—	5.1	—	3.6	—
	NONMANUFACTURING:												
—	MINING	4.9	4.5	3.8	3.6	.8	.6	4.7	4.2	3.1	2.7	.4	.7
10	METAL MINING	2.9	3.1	2.3	2.5	.2	.3	3.4	3.1	1.7	1.2	.7	1.1
101	Iron ores	2.3	—	.9	—	.6	—	3.3	—	1.1	—	1.1	—
102	Copper ores	2.0	—	1.8	—	.1	—	2.1	—	1.1	—	.4	—
12	BITUMINOUS COAL AND LIGNITE MINING	2.0	1.3	1.0	.8	.7	.3	2.2	2.3	.8	.7	.9	1.1
13	OIL AND GAS EXTRACTION	7.3	6.8	5.9	5.6	1.1	.9	6.7	5.5	4.8	4.2	.2	.3
131.2	Crude petroleum, natural gas, and natural gas liquids	2.6	—	1.9	—	.4	—	2.5	—	1.3	—	.2	—
138	Oil and gas field services	10.8	—	8.8	—	1.5	—	9.8	—	7.3	—	.3	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	3.2	3.1	2.6	2.6	.3	.2	3.1	3.8	2.2	1.6	.3	1.2
142	Crushed and broken stone	2.4	—	2.0	—	.3	—	2.6	—	1.9	—	.2	—
144	Sand and gravel	4.0	—	2.9	—	.5	—	3.5	—	2.3	—	.6	—
—	COMMUNICATION:												
481	Telephone communication	1.0	—	.8	—	(¹)	—	1.2	—	.6	—	.3	—

¹ Less than 0.05.

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 accessions												
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	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.7	3.6	3.8	4.1	4.0	3.9	3.8	3.8	3.8
1976	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.8	3.7	3.8	3.9
1977	4.0	4.4	4.1	3.9	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.3
1978	4.1	3.9	4.0	4.1	4.0	4.0	4.0	4.0	4.1	4.3	4.4	4.5
1979	4.3	4.2	4.0	3.9	4.0	4.0	3.9	3.7	3.8	p4.1		
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	3.3	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	2.4	2.3	2.4	2.5
1976	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.6
1977	2.7	2.8	2.9	2.9	3.0	2.8	2.8	2.8	2.8	2.9	2.9	3.2
1978	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1	3.3	3.4	3.5
1979	3.3	3.3	3.1	3.0	3.0	3.0	2.8	2.7	2.8	p2.9		
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	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.9	3.8	3.8	3.5
1976	3.6	3.6	3.8	3.9	3.8	3.9	4.0	3.9	3.9	3.8	3.7	3.7
1977	3.9	4.1	3.7	3.7	3.8	3.7	4.0	3.8	3.9	3.8	3.8	3.9
1978	3.7	3.9	3.8	4.0	4.0	4.0	3.8	3.9	3.7	3.9	4.0	4.0
1979	4.1	4.0	3.9	3.9	4.0	4.1	4.0	4.3	3.9	p3.9		
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	2.4	2.2	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	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.6	1.7
1977	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.0
1978	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2
1979	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	p2.0		
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	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.2
1977	1.3	1.5	1.1	1.1	1.1	1.1	1.3	1.2	1.1	1.1	1.0	1.0
1978	.9	1.0	1.0	1.0	1.0	1.0	.8	1.0	.8	p.9	.9	.9
1979	.9	.9	.9	1.1	1.0	1.1	1.2	1.5	1.2	p1.1		

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	
	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p
ALABAMA:												
Birmingham	3.4	2.5	2.5	1.9	0.5	0.3	3.6	4.7	1.8	1.5	0.8	2.4
Mobile	5.6	8.0	2.2	1.7	3.4	6.2	5.0	9.3	2.2	1.6	1.8	6.7
ALASKA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
ARIZONA	6.1	6.2	5.5	5.5	.5	.5	5.9	5.1	4.0	3.4	.8	.4
Phoenix	6.3	6.5	5.7	5.7	.5	.6	5.8	5.3	3.7	3.5	.9	.4
ARKANSAS	7.9	6.2	6.6	5.3	.9	.5	9.9	6.3	7.2	4.4	1.3	.9
Fort Smith	4.7	4.9	3.6	3.7	.4	.3	12.1	5.7	8.9	2.9	2.2	1.4
Little Rock-North Little Rock	5.3	3.9	4.9	3.6	.2	.1	6.1	4.2	4.4	2.7	.1	.5
Pine Bluff	4.2	3.4	3.8	2.9	.4	.4	5.3	4.0	3.9	2.6	.5	.8
COLORADO	6.5	5.5	6.0	5.2	.3	.2	6.5	6.7	4.7	5.1	.3	.6
Denver-Boulder	4.9	4.8	4.6	4.5	.2	.2	5.8	5.6	4.0	3.8	.3	.8
CONNECTICUT	3.0	3.0	2.6	2.6	.2	.2	3.8	3.1	2.4	1.9	.3	.4
Hartford	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
DELAWARE	6.9	2.3	1.4	1.4	5.4	.5	7.4	2.1	1.4	1.1	5.4	.5
Wilmington	6.7	1.9	1.1	1.1	5.5	.5	7.2	1.9	1.1	1.0	5.6	.4
FLORIDA	6.0	5.2	5.0	4.6	.8	.5	6.3	5.2	4.2	3.6	.8	.6
Fort Lauderdale-Hollywood	7.6	5.6	6.6	5.4	.9	.2	8.3	6.1	6.1	4.6	.6	.9
Jacksonville	7.1	3.7	3.6	2.8	3.4	.8	6.0	4.0	3.4	2.5	1.2	.7
Miami	6.2	5.8	5.3	5.5	.8	.3	6.6	5.6	4.4	3.8	1.3	1.0
Orlando	4.2	4.6	3.6	3.3	.5	1.1	5.0	4.4	3.3	2.5	.8	.8
Pensacola	2.8	1.8	2.2	1.4	.4	.1	3.4	2.8	2.4	1.7	.4	.1
Tampa-St. Petersburg	8.5	6.3	7.4	5.8	.9	.4	7.5	5.6	5.3	4.2	.9	.3
West Palm Beach-Boca Raton	9.0	7.1	8.5	6.3	.3	.3	8.0	5.3	4.9	4.9	(¹)	.1
GEORGIA	5.0	4.2	4.3	3.6	.4	.3	5.4	4.9	3.7	3.3	.6	.6
Atlanta ²	5.0	3.7	4.3	3.3	.4	.2	5.6	4.2	3.0	2.4	1.6	.7
HAWAII ³	3.1	4.3	1.6	2.6	1.3	1.0	4.5	3.2	1.9	1.6	2.0	.4
IDAHO ⁴	5.8	(*)	5.0	(*)	.4	(*)	6.6	(*)	4.4	(*)	.4	(*)
ILLINOIS:												
Chicago SMSA	4.1	3.7	3.5	3.1	.4	.3	5.2	3.9	3.3	2.4	.5	.4
INDIANA ⁵	3.4	3.3	2.2	1.7	.6	1.1	5.7	3.4	2.5	1.5	2.0	1.2
Indianapolis ⁶	3.4	5.1	2.7	1.8	.2	2.7	8.0	2.8	2.3	1.3	4.5	.6
IOWA	4.1	3.4	3.2	2.9	.5	.4	5.3	3.6	3.5	2.3	1.0	.7
Cedar Rapids	4.2	3.1	2.7	1.8	.8	.9	3.6	3.3	2.3	1.7	.6	1.1
Des Moines	5.0	3.8	3.2	3.2	.4	(¹)	6.6	3.9	3.0	2.5	1.4	.3
KANSAS	8.0	7.2	5.4	4.6	2.3	2.4	9.5	7.2	5.6	3.5	2.7	2.8
Topeka	2.8	2.0	2.6	1.8	.1	.2	6.9	6.1	4.1	2.2	2.0	3.4
Wichita	6.1	6.2	5.6	5.6	.3	.4	6.4	4.5	5.2	3.2	.1	.2
KENTUCKY	4.4	3.8	2.9	2.4	1.0	.7	5.3	5.4	3.1	2.1	1.0	2.0
Louisville	2.7	2.7	1.5	1.4	.4	.3	3.2	2.9	1.7	1.4	.2	.4
LOUISIANA:												
New Orleans	5.8	5.1	5.0	4.2	.6	.7	7.0	4.8	4.3	2.6	1.1	1.0
MAINE	8.0	6.0	5.9	4.5	1.8	1.2	8.0	7.5	4.9	4.2	1.7	2.2
Portland	3.9	5.3	3.2	4.7	.4	.2	6.4	7.2	4.3	4.6	1.3	1.5
MARYLAND	5.2	3.0	2.3	2.2	2.8	.6	5.7	3.2	2.1	1.6	2.6	.8
Baltimore	5.8	2.7	2.0	1.8	3.6	.7	6.1	2.8	1.7	1.3	3.5	.7
MASSACHUSETTS	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MICHIGAN	3.0	3.5	1.8	1.6	.9	1.4	5.8	5.1	1.5	1.4	3.3	2.8
Detroit	2.3	3.9	1.3	1.3	.5	1.9	5.7	4.3	1.4	1.3	3.4	2.0
Flint	1.8	2.9	1.4	2.3	(¹)	.3	5.4	3.4	.5	.5	3.8	2.1
Grand Rapids	4.7	3.0	3.8	2.0	.3	.6	5.2	4.0	2.8	1.7	1.2	.9
Lansing-East Lansing .....	.9	1.6	.5	.6	.3	.8	3.0	1.6	.8	.5	.6	.4

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	
	Aug. 1979	Sept. 1979 ^P	Aug. 1979	Sept. 1979 ^P	Aug. 1979	Sept. 1979 ^P	Aug. 1979	Sept. 1979 ^P	Aug. 1979	Sept. 1979 ^P	Aug. 1979	Sept. 1979 ^P
MINNESOTA	5.6	5.2	4.7	4.6	0.7	0.4	5.9	5.4	4.4	4.1	0.7	0.5
Minneapolis—St. Paul	3.9	4.4	3.4	3.9	.3	.3	4.8	4.3	3.6	3.2	.5	.5
MISSISSIPPI:												
Jackson	6.6	4.7	5.7	3.9	.8	.5	7.9	4.8	5.8	3.2	.7	.6
MISSOURI	3.3	3.1	2.8	2.5	.4	.5	6.0	3.8	3.3	2.1	1.7	.9
Kansas City	3.6	3.2	3.2	2.8	.3	.3	8.2	3.5	3.4	2.3	3.8	.3
St. Louis	2.7	2.4	1.9	1.8	.6	.5	5.7	3.0	2.2	1.3	2.6	1.0
MONTANA	3.1	3.3	2.9	2.9	.2	.2	3.0	4.7	2.1	3.0	.2	.7
NEBRASKA	4.9	4.6	4.5	4.3	.2	.2	6.3	4.1	5.0	3.1	.4	.3
NEVADA	9.2	8.1	8.8	7.3	.2	.2	10.9	6.5	7.6	4.9	1.4	.3
NEW HAMPSHIRE	7.8	5.7	5.5	5.1	2.1	.3	7.5	5.8	5.7	4.5	.8	.4
NEW JERSEY:												
Camden ⁷	4.0	3.8	3.0	2.7	.8	.9	4.3	3.4	2.1	1.8	.9	.5
Hackensack	5.6	4.9	3.6	3.5	1.9	1.2	6.6	4.8	3.5	2.6	1.6	.8
Jersey City	4.0	3.2	2.9	2.6	.8	.4	3.8	3.2	2.1	1.6	.9	.8
Newark	6.5	4.0	2.6	2.9	3.6	1.0	4.9	3.8	2.4	1.9	1.3	1.0
New Brunswick—Perth Amboy—Sayreville	4.7	3.1	3.3	2.4	1.1	.5	5.1	4.1	2.9	2.1	.7	1.2
Paterson—Clifton—Passaic	5.8	4.2	3.7	3.1	1.9	.9	6.1	4.4	3.4	2.1	1.5	1.4
Trenton	4.2	4.0	2.3	2.3	1.7	1.4	4.5	3.2	2.1	1.3	1.5	1.0
NEW YORK	5.1	4.3	3.0	2.8	1.8	1.3	5.3	4.3	2.4	2.1	1.9	1.4
Albany—Schenectady—Troy	3.9	2.9	2.5	1.7	.8	.5	3.5	3.5	1.9	1.3	.6	1.0
Binghamton	5.3	2.6	2.3	2.0	2.8	.4	4.0	3.1	2.7	1.8	.3	.5
Buffalo	4.3	3.7	1.5	1.7	2.4	1.8	6.8	3.3	1.6	1.2	4.2	1.4
Elmira	4.6	1.7	2.9	1.1	1.4	.3	3.9	3.9	2.3	1.8	.9	.8
Monroe County ⁸	2.0	2.6	1.5	1.5	.4	1.1	3.6	3.8	1.6	2.6	1.3	.6
Nassau—Suffolk ⁹	5.5	5.2	4.6	4.4	.8	.6	6.3	5.6	4.1	3.8	.8	.7
New York and Nassau—Suffolk	5.8	5.0	3.6	3.4	2.1	1.5	5.6	4.7	2.4	2.1	2.0	1.6
New York SMSA ⁹	5.8	5.0	3.3	3.1	2.4	1.8	5.4	4.4	1.9	1.7	2.2	1.9
New York City ¹⁰	6.2	5.3	3.4	3.2	2.7	2.0	5.6	4.7	1.8	1.7	2.5	2.1
Rochester	3.1	3.7	2.4	2.3	.6	1.3	4.3	4.5	2.1	3.1	1.4	.8
Syracuse	3.4	2.7	2.0	1.6	1.2	.9	4.8	3.7	2.2	1.5	1.8	1.5
Utica—Rome	5.3	2.6	2.5	2.0	2.1	.5	3.7	2.5	2.4	1.3	.5	.4
Westchester County ¹⁰	3.4	2.9	2.9	2.4	.2	.3	3.7	3.3	2.2	1.6	.5	.7
NORTH CAROLINA	5.6	4.9	4.7	4.1	.5	.4	6.1	4.6	4.7	3.3	.5	.3
Charlotte—Gastonia	6.3	5.4	5.5	4.7	.4	.4	7.8	5.5	5.9	4.2	.7	.3
Greensboro—Winston-Salem—High Point	4.9	4.5	4.3	4.0	.2	.2	5.9	4.2	4.6	3.2	.3	.2
NORTH DAKOTA	6.1	8.8	5.3	5.5	.6	2.9	11.2	8.2	6.5	6.4	3.7	.8
Fargo—Moorhead	5.4	4.6	4.8	4.0	.2	.4	7.6	5.4	6.6	4.3	.3	.3
OHIO	3.6	2.8	2.0	1.8	(*)	(*)	4.6	3.8	1.7	1.6	1.9	1.3
Akron	2.0	2.3	1.5	1.7	(*)	(*)	2.5	1.7	1.4	.9	.3	.2
Canton	3.0	2.5	2.1	1.6	(*)	(*)	3.6	3.6	2.0	1.7	.3	.8
Cincinnati	5.5	2.4	2.2	1.7	(*)	(*)	5.9	3.1	1.8	1.4	3.2	.9
Cleveland	3.3	2.7	1.9	1.8	(*)	(*)	4.0	3.6	1.9	1.5	1.1	1.1
Columbus	2.9	3.1	2.0	2.2	(*)	(*)	3.7	3.9	1.6	1.9	1.4	1.3
Dayton	2.4	2.3	1.5	1.7	(*)	(*)	4.7	2.6	1.6	1.0	2.3	.6
Toledo	2.4	2.7	1.3	1.1	(*)	(*)	5.1	3.4	1.3	1.1	2.7	1.4
Youngstown—Warren	2.5	2.9	.7	1.6	(*)	(*)	6.3	3.1	1.0	1.4	3.9	.8
OKLAHOMA	7.9	7.2	7.2	6.4	.4	.5	8.7	6.6	6.8	4.8	.5	.6
Oklahoma City	7.3	7.5	6.6	6.6	.5	.6	8.1	6.4	6.5	4.6	.4	.5
Tulsa ¹¹	8.0	6.5	7.4	5.8	.3	.4	8.2	6.2	6.1	4.2	.3	.4
OREGON ⁵	4.5	4.4	3.9	3.8	.5	.5	4.9	5.3	3.2	3.7	.7	.7
Eugene—Springfield ⁵	3.5	3.5	2.7	2.6	.5	.7	4.4	4.0	2.5	2.5	.5	.5
Portland	5.0	5.1	4.3	4.3	.6	.5	4.9	5.7	3.2	3.8	.7	.9
PENNSYLVANIA	3.5	3.1	2.2	2.1	1.0	.8	4.2	3.5	2.3	1.6	1.2	1.2
Allentown—Bethlehem—Easton	2.9	2.6	1.6	1.6	1.1	.8	3.4	2.6	1.7	1.1	1.0	1.0
Altoona	1.9	1.7	1.2	1.3	.5	.3	3.5	2.4	1.4	1.1	1.8	1.0
Erie	4.2	3.5	2.1	2.4	1.6	.5	3.6	3.1	1.8	1.5	.9	.6
Harrisburg	4.7	3.4	4.0	2.8	.7	.4	5.1	3.5	3.4	2.3	1.0	.7
Johnstown	2.6	1.8	.8	.8	1.6	1.0	3.0	5.7	1.2	.7	1.0	4.2
Lancaster	3.6	3.5	3.2	3.0	.3	.4	5.6	4.1	3.9	2.4	1.1	.9

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	
	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p	Aug. 1979	Sept. 1979 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	5.3	3.8	2.2	1.8	2.8	1.5	6.0	4.0	2.3	1.5	3.0	1.9
Philadelphia SMSA	3.5	3.3	2.3	2.5	.9	.6	4.2	3.5	2.2	1.8	1.0	.8
Pittsburgh	2.3	2.1	1.2	1.1	.6	.6	3.7	3.4	1.7	1.2	1.1	1.4
Reading	4.9	3.9	3.0	2.8	1.8	.8	4.2	3.2	2.7	1.9	.8	.6
Scranton ¹²	5.3	4.1	2.2	1.7	3.0	1.9	3.8	3.6	2.0	1.3	1.4	1.9
Wilkes-Barre—Hazleton ¹²	3.8	3.6	1.8	1.8	1.7	1.4	6.2	4.1	2.1	1.6	3.5	2.1
Williamsport	1.6	1.6	.7	.7	.8	.6	3.0	3.5	1.2	.7	1.3	2.4
York	5.2	5.3	3.2	3.8	1.9	1.3	4.6	3.7	3.4	2.4	.6	.7
RHODE ISLAND												
Providence—Warwick—Pawtucket	6.8	6.7	5.2	5.5	1.3	.8	6.8	7.0	4.6	4.5	1.1	1.2
.....	7.0	6.8	5.4	5.6	1.2	.8	7.1	7.1	4.8	4.6	1.2	1.1
SOUTH CAROLINA												
Charleston—North Charleston	5.0	4.4	4.2	3.7	.4	.4	5.9	4.4	3.9	3.0	.7	.5
Columbia	8.1	4.5	4.2	3.6	3.8	.8	10.0	4.4	3.8	2.6	4.0	.4
Greenville—Spartanburg	6.5	4.9	6.0	4.7	.1	(¹)	5.6	4.0	4.2	2.9	(¹)	.1
.....	5.8	5.0	4.9	4.3	.3	.3	6.5	5.1	4.6	3.6	.6	.4
SOUTH DAKOTA												
Sioux Falls	5.8	6.1	5.4	5.7	.2	.3	7.0	4.8	5.7	3.7	.1	.1
.....	6.1	6.4	6.1	6.3	(¹)	(¹)	7.5	5.0	6.2	4.0	(¹)	.2
TENNESSEE:												
Memphis	3.6	3.5	2.9	2.7	.4	.6	4.0	3.2	2.3	1.6	.6	.6
TEXAS:												
Dallas—Fort Worth	5.9	6.7	5.6	5.4	.2	1.2	7.8	5.5	5.2	4.2	1.4	.3
Houston	4.8	4.1	4.6	3.9	.1	.1	5.6	4.0	4.2	2.9	.3	.1
San Antonio	5.1	5.3	4.9	4.9	.2	.3	6.2	5.5	4.8	4.2	.3	.3
UTAH ⁴												
Salt Lake City—Ogden ⁴	7.1	6.3	5.8	5.8	.8	.2	7.3	6.3	5.2	4.8	.9	.3
.....	7.3	5.8	5.9	5.6	.9	(¹)	7.3	5.7	5.1	4.5	1.0	.3
VERMONT												
Burlington	3.7	4.4	3.1	3.3	.4	1.0	5.6	4.3	3.0	2.4	1.7	1.1
Springfield	2.7	2.2	2.2	1.8	.2	.2	2.9	3.3	1.3	1.2	1.1	1.7
.....	2.9	3.4	2.6	2.5	.3	.9	5.7	3.5	1.9	1.7	2.3	1.1
VIRGINIA												
Richmond	4.7	4.5	3.6	3.4	.8	.8	4.4	3.9	2.9	2.4	.5	.6
.....	3.2	2.3	2.4	1.8	.5	.1	2.7	2.2	1.5	1.3	.4	.2
WASHINGTON: ¹³												
Seattle—Everett	4.7	4.6	3.8	3.5	.8	1.0	3.4	4.4	2.1	2.6	.6	1.0
WISCONSIN												
Milwaukee	4.6	3.9	3.4	2.9	.7	.7	5.3	4.6	3.3	2.3	1.0	1.3
.....	3.5	3.7	2.5	2.6	.4	.7	4.4	4.0	2.4	1.7	.7	1.2
WYOMING												
.....	9.4	8.7	8.9	7.2	.5	1.5	10.6	7.7	8.8	6.1	.5	(¹)

¹ Less than 0.05.

² Excludes agricultural chemicals, and miscellaneous manufacturing.

³ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁴ Excludes canning and preserving, and sugar.

⁵ Excludes canning and preserving.

⁶ Excludes canning and preserving, and newspapers.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

⁹ Area included in New York and Nassau-Suffolk combined SMSA's.

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Excludes new-hire rate for transportation equipment.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹³ 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		
	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P
ALABAMA	1,621.0	1,659.1	1,661.0	91.7	117.1	111.9	5.7	7.1	6.7
Birmingham	374.1	387.6	384.9	19.7	24.1	23.7	5.3	6.2	6.1
Huntsville	135.9	141.5	141.0	7.7	9.9	9.3	5.5	7.0	6.6
Mobile	180.2	183.5	187.5	11.5	17.4	15.3	6.4	9.5	8.1
Montgomery	116.5	121.8	121.2	6.2	7.0	6.5	5.4	5.7	5.4
Tuscaloosa	51.5	52.0	52.3	2.7	2.9	2.8	5.3	5.5	5.3
ALASKA	179.4	188.3	183.9	18.4	12.6	14.4	10.2	6.7	7.8
ARIZONA	1,009.6	1,038.7	1,063.2	53.3	49.0	52.8	5.3	4.7	5.0
Phoenix	609.6	627.1	644.7	28.2	24.8	27.5	4.6	4.0	4.3
Tucson	182.4	187.3	191.5	8.7	7.3	8.0	4.8	3.9	4.2
ARKANSAS	944.7	991.8	983.4	55.5	61.0	60.0	5.9	6.1	6.1
Fayetteville-Springdale	72.5	76.4	75.9	3.2	3.2	3.2	4.5	4.2	4.2
Fort Smith ¹	83.7	83.9	83.4	6.2	6.5	6.7	7.4	7.8	8.0
Little Rock-North Little Rock	175.7	186.9	186.0	8.2	8.5	8.3	4.7	4.6	4.5
Pine Bluff	37.6	39.0	38.7	2.5	2.5	2.2	6.6	6.3	5.8
CALIFORNIA²	10,706.8	10,995.5	11,067.1	636.6	671.1	636.4	5.9	6.1	5.8
Anaheim-Santa Ana-Garden Grove	1,003.8	1,061.7	1,088.3	42.9	49.0	44.7	4.3	4.6	4.1
Bakersfield	168.0	175.9	176.6	14.1	14.0	13.8	8.4	8.0	7.8
Fresno	246.3	308.0	265.2	19.3	19.2	19.9	7.8	6.2	7.5
Los Angeles-Long Beach ²	3,544.0	3,463.0	3,488.0	193.0	189.0	184.0	5.4	5.5	5.3
Modesto	128.0	140.8	137.5	10.6	8.4	10.7	8.3	5.9	7.7
Oxnard-Simi Valley-Ventura	208.1	213.8	217.7	16.2	18.5	17.3	7.8	8.7	7.9
Riverside-San Bernardino-Ontario	549.0	569.1	580.4	36.3	44.6	38.6	6.6	7.8	6.7
Sacramento	440.4	466.8	470.1	28.9	30.0	28.8	6.6	6.4	6.1
Salinas-Seaside-Monterey	125.2	129.4	132.2	7.0	8.3	8.1	5.6	6.4	6.1
San Diego	691.1	727.5	739.3	41.5	45.4	42.4	6.0	6.2	5.7
San Francisco-Oakland	1,564.6	1,606.9	1,626.8	87.1	99.5	87.1	5.6	6.2	5.4
San Jose	659.3	699.7	712.6	33.3	33.0	35.1	5.0	4.7	4.9
Santa Barbara-Santa Maria-Lompoc	136.4	138.3	143.4	8.1	9.8	8.7	6.0	7.1	6.1
Santa Rosa	119.8	124.4	128.1	7.1	8.1	7.5	5.9	6.5	5.8
Stockton	165.0	173.3	170.6	13.2	11.2	12.4	8.0	6.5	7.3
Vallejo-Fairfield-Napa	120.5	123.6	126.0	6.7	8.2	7.4	5.6	6.6	5.9
COLORADO	1,316.4	1,395.2	1,406.1	64.7	58.5	60.2	4.9	4.2	4.3
Denver-Boulder	762.5	821.6	827.4	35.3	33.0	33.5	4.6	4.0	4.1
CONNECTICUT	1,519.4	1,580.1	1,573.4	65.5	71.8	74.9	4.3	4.5	4.8
Bridgeport	185.9	191.8	191.2	9.0	9.2	9.7	4.8	4.8	5.1
Hartford	363.6	378.5	378.1	14.5	14.9	16.1	4.0	3.9	4.3
New Britain	70.1	72.7	70.7	2.8	3.2	3.4	4.0	4.4	4.8
New Haven-West Haven	196.4	205.7	202.8	8.4	9.7	10.3	4.3	4.7	5.1
Stamford	118.6	121.9	120.6	4.5	4.8	4.4	3.9	4.0	3.6
Waterbury	106.4	111.2	109.4	5.0	5.8	5.8	4.7	5.2	5.3
DELAWARE	276.6	268.0	273.1	18.5	17.4	19.2	6.7	6.5	7.0
Wilmington ¹	242.8	235.1	240.1	15.0	14.6	15.2	6.2	6.2	6.3
DISTRICT OF COLUMBIA	327.7	312.7	319.2	25.4	20.5	20.0	7.8	6.5	6.3
Washington SMSA ¹	1,564.0	1,577.6	1,585.0	68.7	68.3	66.5	4.4	4.3	4.2
FLORIDA²	3,731.3	3,812.8	3,820.4	262.2	246.0	240.6	7.0	6.5	6.3
Fort Lauderdale-Hollywood	377.8	386.2	388.2	25.1	21.0	21.6	6.6	5.4	5.6
Jacksonville	308.4	312.2	311.6	19.6	17.3	17.7	6.4	5.6	5.7
Miami	693.1	712.8	709.6	48.6	42.8	41.6	7.0	6.0	5.9
Orlando	298.9	311.5	311.0	20.2	19.7	18.5	6.7	6.3	6.0
Pensacola	111.4	111.7	112.6	6.7	6.0	6.3	6.0	5.4	5.6
Tampa-St. Petersburg	571.2	578.2	582.9	34.7	31.2	32.0	6.1	5.4	5.5
West Palm Beach-Boca Raton	209.3	216.7	219.0	16.8	16.5	15.4	8.1	7.6	7.0
GEORGIA	2,335.8	2,359.4	2,370.1	125.0	115.8	121.6	5.4	4.9	5.1
Albany	48.6	50.8	51.4	3.1	3.1	3.2	6.3	6.1	6.1
Atlanta	913.4	915.9	921.0	46.4	41.1	42.2	5.1	4.5	4.6
Augusta	125.3	127.3	127.5	7.5	7.2	7.0	6.0	5.7	5.5
Columbus ¹	84.9	88.8	88.4	5.2	5.8	5.8	6.1	6.5	6.5
Macon	103.1	100.8	100.8	6.3	5.6	5.6	6.1	5.6	5.6
Savannah	90.3	89.7	89.4	5.6	5.0	5.0	6.2	5.5	5.5

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P
HAWAII	395.0	394.2	399.9	31.6	23.3	24.8	8.0	5.9	6.2
Honolulu	311.8	309.4	314.6	24.6	18.0	19.1	7.9	5.8	6.1
IDAHO	417.1	418.6	416.8	18.5	19.4	17.0	4.4	4.6	4.1
Boise City	90.5	86.5	85.4	2.8	3.2	2.9	3.1	3.7	3.4
ILLINOIS ²	5,406.5	5,372.4	5,416.4	288.4	304.2	298.5	5.3	5.7	5.5
Bloomington—Normal	60.9	N.A.	N.A.	1.6	N.A.	N.A.	2.7	N.A.	N.A.
Champaign—Urbana—Rantoul	80.5	N.A.	N.A.	3.2	N.A.	N.A.	4.0	N.A.	N.A.
Chicago	3,445.6	N.A.	N.A.	184.9	N.A.	N.A.	5.4	N.A.	N.A.
Davenport—Rock Island—Moline ¹	184.2	N.A.	N.A.	8.0	N.A.	N.A.	4.3	N.A.	N.A.
Decatur	60.5	N.A.	N.A.	3.5	N.A.	N.A.	5.9	N.A.	N.A.
Peoria	177.0	N.A.	N.A.	7.3	N.A.	N.A.	4.1	N.A.	N.A.
Rockford	139.4	N.A.	N.A.	6.7	N.A.	N.A.	4.8	N.A.	N.A.
Springfield	96.5	N.A.	N.A.	5.6	N.A.	N.A.	5.8	N.A.	N.A.
INDIANA	2,583.6	2,600.6	2,616.0	127.1	159.2	172.0	4.9	6.1	6.6
Anderson	60.4	59.8	59.5	3.4	4.9	5.1	5.7	8.2	8.6
Evansville ¹	140.9	139.6	139.5	6.8	7.6	7.6	4.8	5.4	5.4
Fort Wayne	186.8	191.5	191.9	7.5	11.2	11.0	4.0	5.9	5.7
Gary—Hammond—East Chicago	289.1	291.0	295.1	15.2	19.9	25.0	5.3	6.8	8.5
Indianapolis	578.4	583.6	587.4	26.3	30.5	33.6	4.6	5.2	5.7
Lafayette—West Lafayette	63.7	64.1	64.6	1.9	2.7	3.0	3.0	4.2	4.7
Muncie	56.4	55.5	57.2	3.6	3.8	4.0	6.4	6.9	7.0
South Bend	141.2	140.9	142.8	7.2	7.9	9.1	5.1	5.6	6.4
Terre Haute	81.8	81.3	82.2	3.8	4.3	4.5	4.7	5.3	5.5
IOWA	1,440.9	1,429.9	1,442.0	45.1	45.2	48.3	3.1	3.2	3.4
Cedar Rapids	86.5	86.6	88.7	2.3	2.4	2.5	2.7	2.8	2.9
Des Moines	181.0	179.0	181.1	5.8	6.1	6.7	3.2	3.4	3.7
Dubuque	44.5	45.5	46.0	2.0	2.0	2.4	4.5	4.5	5.3
Sioux City ¹	57.2	54.9	55.5	3.3	3.1	3.0	5.9	5.6	5.4
Waterloo—Cedar Falls	66.8	69.7	70.6	3.1	2.6	2.9	4.6	3.7	4.1
KANSAS	1,167.7	1,191.8	1,194.5	29.9	39.9	35.2	2.6	3.4	2.9
Topeka	95.2	95.7	96.1	3.2	4.2	4.1	3.3	4.4	4.3
Wichita	218.1	227.5	230.6	6.2	7.8	6.9	2.9	3.4	3.0
KENTUCKY	1,602.0	1,613.4	1,631.0	72.9	85.6	92.5	4.6	5.3	5.7
Lexington—Fayette	166.7	169.8	173.1	4.9	6.0	6.7	3.0	3.5	3.8
Louisville ¹	417.9	424.8	427.0	20.5	23.0	24.7	4.9	5.4	5.8
Owensboro	38.6	39.4	40.0	1.9	2.1	2.4	4.8	5.3	6.0
LOUISIANA	1,640.5	1,678.3	1,685.7	106.0	111.6	114.0	6.5	6.7	6.8
Alexandria	68.1	69.2	68.9	4.9	5.6	5.4	7.2	8.1	7.8
Baton Rouge	204.6	200.5	200.9	12.5	13.0	13.7	6.1	6.5	6.8
Lafayette	65.0	70.6	71.4	3.1	3.5	3.5	4.8	4.9	5.0
Lake Charles	65.8	66.0	66.3	4.7	4.4	4.6	7.2	6.7	6.9
Monroe	52.9	53.5	53.9	3.8	3.8	3.9	7.1	7.1	7.1
New Orleans	461.4	469.1	470.7	29.4	30.9	31.4	6.4	6.6	6.7
Shreveport	149.2	153.0	153.1	8.8	8.9	8.9	5.9	5.8	5.8
MAINE	475.4	500.0	486.2	24.0	28.9	30.1	5.1	5.8	6.2
Lewiston—Auburn	36.3	38.7	38.7	1.6	2.4	2.2	4.3	6.2	5.7
Portland	84.1	83.4	84.6	3.5	3.9	4.3	4.2	4.7	5.0
MARYLAND	2,046.0	2,108.7	2,105.2	97.0	115.6	116.2	4.7	5.5	5.5
Baltimore	1,045.1	1,061.7	1,064.7	55.2	65.4	65.1	5.3	6.2	6.1
MASSACHUSETTS ²	2,797.8	2,911.6	2,851.4	120.3	187.0	124.2	4.3	6.4	4.4
Boston	1,348.9	1,386.5	1,364.6	56.9	89.6	57.4	4.2	6.5	4.2
Brockton	81.1	81.4	79.6	3.6	5.9	3.8	4.5	7.2	4.8
Fall River ¹	78.3	80.1	78.3	3.9	5.8	4.0	5.0	7.3	5.1
Lawrence—Haverhill ¹	134.2	140.4	137.2	7.0	10.5	7.8	5.2	7.5	5.7
Lowell	110.6	122.8	120.7	5.2	8.1	5.5	4.7	6.6	4.6
New Bedford	80.7	87.5	83.9	4.6	7.3	5.0	5.7	8.4	6.0
Springfield—Chicopee—Holyoke	270.5	283.3	282.5	9.8	12.7	10.1	3.6	4.5	3.6
Worcester	194.3	203.1	200.1	6.4	10.7	7.2	3.3	5.3	3.6
MICHIGAN ²	4,193.1	4,327.4	4,343.0	229.9	310.1	314.7	5.5	7.2	7.2
Ann Arbor	137.3	142.8	147.3	5.9	8.0	9.6	4.3	5.6	6.6

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			
	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	
MICHIGAN—Continued										
Battle Creek	81.5	82.8	82.9	4.5	5.1	5.7	5.5	6.2	6.8	
Bay City	54.2	53.6	53.6	2.8	3.7	3.6	5.1	7.0	6.6	
Detroit	1,991.2	2,060.5	2,060.3	105.8	155.7	157.1	5.3	7.6	7.6	
Flint	226.9	226.0	225.9	14.1	19.1	18.2	6.2	8.5	8.1	
Grand Rapids	290.7	301.8	304.8	11.9	15.2	15.0	4.1	5.0	4.9	
Jackson	65.6	69.3	69.4	3.2	4.7	4.6	4.9	6.8	6.6	
Kalamazoo—Portage	132.3	134.7	135.2	6.2	6.7	6.7	4.7	4.9	5.0	
Lansing—East Lansing	229.9	233.6	240.7	10.7	14.7	14.8	4.6	6.3	6.2	
Muskegon—Norton Shores—Muskegon Heights	75.8	77.9	77.5	4.6	5.7	5.7	6.1	7.3	7.4	
Saginaw	103.7	104.6	104.3	4.7	8.9	8.5	4.5	8.5	8.1	
MINNESOTA	2,037.8	2,042.1	2,083.1	57.3	68.7	75.2	2.9	3.4	3.6	
Duluth—Superior ¹	119.6	118.1	119.7	4.6	5.8	5.8	3.8	4.9	4.9	
Minneapolis—St. Paul	1,075.7	1,068.1	1,104.4	26.7	32.8	35.3	2.5	3.1	3.2	
MISSISSIPPI	983.5	994.7	996.2	63.2	52.7	53.1	6.4	5.3	5.3	
Jackson	143.3	147.4	147.8	7.2	5.7	5.3	5.0	3.9	3.6	
MISSOURI	2,281.4	2,342.0	2,333.2	97.3	104.5	104.7	4.3	4.5	4.5	
Kansas City ¹	690.5	694.0	691.5	26.5	29.6	27.9	3.9	4.3	4.0	
St. Joseph	44.8	44.2	44.3	2.1	2.4	2.3	4.7	5.5	5.3	
St. Louis ¹	1,097.5	N.A.	N.A.	52.7	N.A.	N.A.	4.8	N.A.	N.A.	
Springfield	103.8	103.2	103.8	3.9	3.7	3.9	3.7	3.6	3.7	
MONTANA	368.1	381.1	368.8	17.3	14.7	15.0	4.7	3.9	4.1	
Billings	54.6	55.3	53.8	1.8	1.6	1.5	3.2	2.8	2.8	
Great Falls	36.1	35.0	34.0	2.1	1.8	1.7	5.9	5.0	5.0	
NEBRASKA	775.3	780.2	779.2	18.8	28.1	25.5	2.4	3.6	3.3	
Lincoln	112.1	111.4	111.2	2.6	3.7	3.8	2.3	3.4	3.4	
Omaha ¹	277.6	275.1	273.5	9.4	15.1	13.1	3.4	5.5	4.8	
NEVADA	345.0	351.9	352.5	13.1	16.0	16.6	3.9	4.5	4.7	
Las Vegas	183.0	188.3	189.9	8.2	9.9	10.4	4.5	5.3	5.5	
Reno	102.3	103.5	103.1	2.1	3.1	3.2	2.0	3.0	3.1	
NEW HAMPSHIRE	437.5	455.1	449.7	16.2	11.1	11.4	3.7	2.4	2.5	
Manchester	81.9	84.7	83.5	3.0	2.1	1.9	3.6	2.5	2.3	
Nashua	59.2	61.9	61.5	2.0	1.5	1.6	3.4	2.5	2.6	
NEW JERSEY	3,529.5	3,588.9	3,563.0	219.1	223.6	224.1	6.2	6.2	6.3	
Atlantic City	88.2	101.5	97.7	7.4	7.4	8.5	8.4	7.3	8.7	
Jersey City	258.5	250.0	250.0	24.0	21.7	21.0	9.3	8.7	8.4	
Long Branch—Asbury Park	226.2	228.4	223.9	15.0	14.9	14.5	6.6	6.5	6.5	
Newark	992.7	978.6	981.9	57.4	61.5	60.4	5.8	6.3	6.2	
New Brunswick—Perth Amboy—Sayreville	324.2	332.9	328.8	18.4	19.3	17.6	5.7	5.8	5.4	
Paterson—Clifton—Passaic	221.7	219.4	219.6	16.1	18.5	19.0	7.3	8.4	8.7	
Trenton	163.9	164.8	165.5	7.5	9.3	8.5	4.6	5.7	5.1	
Vineland—Millville—Bridgeton	63.4	62.6	62.9	5.6	4.2	4.9	8.9	6.7	7.7	
NEW MEXICO	538.3	544.8	548.5	28.6	35.4	38.2	5.3	6.5	7.0	
Albuquerque	197.1	201.0	202.9	10.3	12.6	13.1	5.2	6.3	6.5	
NEW YORK²	7,882.7	7,937.1	7,952.0	619.3	594.1	561.4	7.9	7.5	7.1	
Albany—Schenectady—Troy	370.7	372.2	375.5	22.1	20.5	22.4	6.0	5.5	6.0	
Binghamton ¹	138.5	142.0	143.4	8.1	8.1	8.5	5.9	5.7	5.9	
Buffalo	576.4	581.4	587.6	45.0	43.8	46.5	7.8	7.5	7.9	
Elmira	40.1	41.0	41.5	2.5	2.6	2.8	6.3	6.3	6.8	
Nassau—Suffolk	1,255.7	1,276.0	1,278.4	84.6	82.5	83.5	6.7	6.5	6.5	
New York	3,600.4	3,593.7	3,577.7	333.4	316.0	268.2	9.3	8.8	7.5	
New York City ²	3,015.0	2,998.0	2,978.0	301.0	285.0	237.0	10.0	9.5	8.0	
Poughkeepsie	104.1	106.2	106.6	5.2	4.6	4.9	5.0	4.4	4.6	
Rochester	462.9	471.2	477.3	24.1	26.2	26.1	5.2	5.6	5.5	
Syracuse	304.2	303.3	309.1	19.2	18.4	19.4	6.3	6.1	6.3	
Utica—Rome	137.4	139.7	141.0	9.2	8.0	8.8	6.7	5.7	6.2	
NORTH CAROLINA	2,678.1	2,721.6	2,696.4	84.0	125.9	121.6	3.1	4.6	4.5	
Asheville	82.5	82.5	81.3	2.7	3.1	3.3	3.3	3.8	4.0	
Charlotte—Gastonia	329.1	332.7	331.6	7.8	13.0	11.4	2.4	3.9	3.4	

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment						
	OCT. 1978	SEPT. 1979	OCT. 1979P	Number			Percent of labor force			
				OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	
NORTH CAROLINA—Continued										
Greensboro—Winston-Salem—High Point	412.5	420.5	419.4	10.6	20.4	18.2	2.6	4.8	4.3	
Raleigh—Durham	275.4	281.7	282.2	6.5	9.7	8.9	2.3	3.4	3.2	
NORTH DAKOTA										
Fargo—Moorehead ¹	295.0	311.2	299.3	10.4	7.6	6.9	3.5	2.4	2.3	
	72.2	70.8	71.3	2.3	2.2	2.0	3.1	3.1	2.8	
OHIO²										
Akron	5,105.2	5,092.0	5,121.8	241.4	277.6	302.5	4.7	5.5	5.9	
Canton	306.7	304.1	305.1	14.6	16.9	17.0	4.9	5.6	5.6	
Cincinnati ¹	183.0	183.9	186.5	8.7	9.0	10.8	4.8	4.9	5.8	
Cleveland	669.8	675.5	680.1	30.8	31.3	35.5	4.6	4.6	5.2	
Columbus	950.5	939.5	945.2	39.1	42.5	50.1	4.1	4.5	5.3	
Dayton	549.5	547.4	553.8	23.3	23.3	25.1	4.2	4.2	4.5	
Toledo ¹	393.0	395.3	397.5	16.0	26.0	24.1	4.1	6.6	6.1	
Youngstown—Warren	374.5	371.4	378.1	20.2	25.8	27.1	5.4	6.9	7.2	
	241.0	241.5	239.7	14.5	18.0	15.6	6.0	7.4	6.5	
OKLAHOMA										
Oklahoma City	1,275.7	1,301.0	1,304.0	45.4	41.3	43.3	3.6	3.2	3.3	
Tulsa	388.4	406.5	407.9	12.6	12.5	12.8	3.2	3.1	3.1	
	301.9	303.8	302.8	10.2	9.1	9.6	3.4	3.0	3.2	
OREGON										
Eugene—Springfield	1,208.5	1,222.2	1,221.2	63.2	74.4	76.3	5.2	6.1	6.3	
Portland ¹	126.7	126.6	127.1	8.5	9.6	9.7	6.7	7.6	7.6	
Salem	582.7	581.9	584.6	27.7	30.6	31.3	4.8	5.3	5.4	
	114.5	120.2	118.2	5.0	6.3	6.5	4.4	5.2	5.5	
PENNSYLVANIA²										
Allentown—Bethlehem—Easton ¹	5,324.6	5,301.2	5,303.9	369.4	357.2	426.0	6.9	6.7	7.9	
Altoona	296.8	297.1	301.7	16.9	17.6	22.8	5.7	5.9	7.5	
Erie	57.0	58.9	59.7	4.7	5.2	5.9	8.3	8.9	9.9	
Harrisburg	126.0	126.7	127.4	9.0	8.6	10.5	7.1	6.8	8.2	
Johnstown	216.4	216.0	216.3	10.6	10.8	12.7	4.9	5.0	5.9	
Lancaster	106.4	108.8	110.5	9.2	9.1	11.0	8.7	8.4	9.9	
Northeast Pennsylvania	173.8	176.2	176.7	7.5	8.4	9.6	4.3	4.8	5.4	
Philadelphia ¹	283.0	280.0	284.6	25.0	23.7	27.9	8.8	8.5	9.8	
Pittsburgh	2,113.4	2,110.3	2,136.1	159.4	146.6	162.8	7.5	6.9	7.6	
Reading	998.8	1,011.4	1,015.6	59.4	57.7	69.4	6.0	5.7	6.8	
Williamsport	148.7	153.4	155.4	7.2	8.2	9.8	4.8	5.3	6.3	
York	54.0	54.8	55.7	4.2	5.2	6.5	7.8	9.4	11.6	
	168.5	169.9	171.9	7.4	8.0	10.3	4.4	4.7	6.0	
RHODE ISLAND										
Providence—Warwick—Pawtucket ¹	437.2	456.7	453.7	23.8	23.0	23.0	5.4	5.0	5.1	
	441.9	455.7	452.9	23.6	24.2	23.2	5.3	5.3	5.1	
SOUTH CAROLINA										
Charleston—North Charleston	1,311.2	1,334.5	1,338.8	72.0	61.6	62.9	5.5	4.6	4.7	
Columbia	153.1	154.8	156.3	9.4	7.8	7.9	6.1	5.0	5.1	
Greenville—Spartanburg	172.3	176.6	177.5	7.6	6.5	6.2	4.4	3.7	3.5	
	258.8	263.8	264.8	11.5	9.5	9.9	4.4	3.6	3.7	
SOUTH DAKOTA										
Sioux Falls	327.3	339.0	334.6	7.9	8.2	8.3	2.4	2.4	2.5	
	58.9	59.7	59.7	.9	1.2	1.1	1.5	2.0	1.8	
TENNESSEE										
Chattanooga ¹	1,966.2	2,023.9	2,033.6	104.8	119.8	120.0	5.3	5.9	5.9	
Knoxville	186.2	192.1	193.6	9.6	11.7	12.9	5.1	6.1	6.7	
Memphis ¹	207.3	210.2	212.1	11.5	9.1	10.5	5.6	4.3	4.9	
Nashville—Davidson	377.3	393.3	389.3	21.1	25.4	20.9	5.6	6.5	5.4	
	402.2	410.5	413.7	16.2	18.8	19.1	4.0	4.6	4.6	
TEXAS²										
Amarillo	6,067.4	6,230.6	6,263.9	259.9	247.0	235.5	4.3	4.0	3.8	
Austin	86.3	88.1	88.8	2.9	2.7	2.6	3.4	3.0	2.9	
Beaumont—Port Arthur—Orange	239.2	247.1	251.5	7.4	7.0	7.0	3.1	2.8	2.8	
Corpus Christi	167.0	165.4	164.2	10.0	8.4	7.7	6.0	5.1	4.7	
Dallas—Fort Worth	131.6	131.5	132.1	6.4	6.5	6.1	4.9	5.0	4.6	
El Paso	1,418.2	1,497.5	1,505.0	50.0	50.4	46.2	3.5	3.4	3.1	
Galveston—Texas City	168.6	171.2	171.9	14.2	12.7	12.1	8.4	7.4	7.0	
Houston	83.2	82.5	82.4	4.6	4.0	3.5	5.5	4.8	4.2	
Lubbock	1,366.6	1,406.3	1,417.7	48.2	43.9	43.2	3.5	3.1	3.0	
San Antonio	103.1	103.3	104.2	3.1	3.3	3.1	3.0	3.2	3.0	
Waco	407.0	412.8	414.8	23.9	22.6	21.2	5.9	5.5	5.1	
Wichita Falls	77.1	79.0	79.9	3.3	2.9	2.8	4.2	3.7	3.6	
	59.2	60.3	60.5	2.0	1.8	1.6	3.4	3.0	2.7	

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P	OCT. 1978	SEPT. 1979	OCT. 1979P
UTAH	551.9	593.9	586.6	19.2	24.2	25.3	3.5	4.1	4.3
Salt Lake City—Ogden	365.1	388.6	386.7	12.9	16.2	17.0	3.5	4.2	4.4
VERMONT	238.4	243.9	242.3	10.7	10.1	9.8	4.5	4.1	4.0
VIRGINIA	2,454.4	2,478.5	2,477.8	111.5	110.0	111.3	4.5	4.4	4.5
Lynchburg	73.1	75.9	76.5	2.7	2.9	2.9	3.7	3.8	3.8
Newport News—Hampton	154.8	161.7	161.8	9.0	8.5	8.5	5.9	5.2	5.3
Norfolk—Virginia Beach—Portsmouth ¹	321.3	321.9	321.1	18.1	18.1	17.7	5.6	5.6	5.5
Petersburg—Colonial Heights—Hopewell	59.9	58.8	58.7	3.2	3.2	3.2	5.3	5.4	5.4
Richmond	320.1	322.1	322.0	10.5	10.2	10.2	3.3	3.2	3.2
Roanoke	107.0	109.1	109.5	4.2	4.4	4.7	4.0	4.0	4.3
WASHINGTON	1,789.3	1,909.6	1,896.6	99.9	108.2	111.3	5.6	5.7	5.9
Seattle—Everett	774.9	837.3	839.0	38.6	40.7	42.6	5.0	4.9	5.1
Spokane	144.5	149.3	148.2	7.7	9.0	8.6	5.3	6.0	5.8
Tacoma	164.4	175.3	172.4	10.5	11.3	11.8	6.4	6.4	6.8
WEST VIRGINIA	718.7	754.8	763.6	34.0	42.9	50.0	4.7	5.7	6.5
Charleston	117.6	124.4	127.6	3.4	4.8	5.7	2.9	3.8	4.4
Huntington—Ashland ¹	117.0	119.5	121.2	4.7	6.1	7.0	4.1	5.1	5.8
Parkersburg—Marietta ¹	66.5	70.1	70.7	2.6	3.5	3.7	3.9	5.0	5.2
Wheeling ¹	80.1	78.5	81.5	3.4	4.1	5.5	4.3	5.2	6.8
WISCONSIN	2,337.6	2,411.2	2,414.4	96.4	94.0	93.7	4.1	3.9	3.9
Appleton—Oshkosh	149.1	151.4	154.7	6.1	5.2	5.8	4.1	3.5	3.7
Eau Claire	51.2	56.0	55.8	2.6	3.4	2.6	5.1	6.1	4.7
Green Bay	89.5	89.9	90.4	4.3	3.8	3.7	4.8	4.3	4.0
Kenosha	62.5	62.9	63.1	3.0	2.9	2.9	4.8	4.6	4.5
La Crosse	45.7	45.9	44.7	1.9	1.6	1.6	4.2	3.6	3.6
Madison	177.5	183.2	184.7	6.0	5.9	5.7	3.4	3.2	3.1
Milwaukee	722.7	738.9	745.2	25.2	26.3	25.5	3.5	3.6	3.4
Racine	88.6	90.7	90.8	3.7	3.9	3.5	4.2	4.3	3.9
WYOMING	222.3	237.7	230.8	6.4	5.5	5.1	2.9	2.3	2.2

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 1978 have been benchmarked to 1978 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1979 are pro-

visional 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," and "Unemployment Rates for State and Local Governments." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

Explanatory Notes

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

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, 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 1979 through September 1979, 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.

Beginning in 1979, the first stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Revisions in the Current Population Survey in January 1979" in the February issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

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

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.

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 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, 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 portion of 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 performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by

metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

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 appear in An Error Profile: *Employment as Measured by the Current Population Survey*, by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; 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. 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 sample estimate and its estimated standard error enables one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from the one standard error or below the estimate to one standard error above the estimate would include the average result of all possible sample.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.
3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

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 for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note, that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

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, 15 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

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. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 58 percent of all possible samples. 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.

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. The approximate standard errors of levels, rates and percentage involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages may be obtained by using table I in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus to obtain the standard error of an estimate of an average level, rate or percentage, or an estimate of a change in level, rate or percentage it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate or percentage, find the standard error of this estimate. For an estimate of change in level, rate or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table I to obtain the approximate standard error for the average or change.

Illustration. For an example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume that the tables show that for a certain month the unemployment rate is 6.9 percent based on a total of 95,676,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table E (0.11 percent). The appropriate factor then from table I is 1.40. The approximate standard error on the change of 0.8 percent is then given by $0.11 \times 1.40 = 0.15$ percent.

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 salary workers . . . . .	.12	.13
Unemployed 15 weeks and over . . . . .	.06	.07	Construction . . . . .	.58	.66
OCCUPATION			Manufacturing . . . . .	.22	.24
White-collar workers . . . . .	.12	.13	Durable goods . . . . .	.27	.30
Professional and technical . . . . .	.18	.20	Non-durable goods . . . . .	.36	.40
Managers and administrators, 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

Table I. Factors to be used with Tables C, E, G, H to compute the approximate standard errors of level, rates and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages

Type of characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or male	1.30	.89	.80	.72	.70
Female or teenagers (16-19 years).....	1.30	.83	.80	.58	.70
Part time	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment data and unemployment data:					
Total or white	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years).....	1.30	.82	.88	.57	.70
Part time	1.40	.74	.88	.46	.60
Unemployment:					
Total	1.40	.76	.88	.50	.65
Part time	1.40	.69	.88	.39	.54

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.

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 I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Spendable average weekly earnings. Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker, 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 data relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. Transfers to another establishment of the company are included, beginning with January 1959.

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

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

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 J. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover.

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks"

Table J. 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 J. 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 average aggregate (of each labor turnover action) divided by annual average employment.	Annual average aggregate (of each labor turnover action) divided by annual average 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.

for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1978 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 1978 benchmark adjustment is shown in table K.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. Revised data are published as soon as possible after each benchmark revision.

THE SAMPLE

Design

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

Table K. Comparison of nonagricultural employment benchmarks and estimates for March 1978

Industry division	Benchmark March 1978	Estimate March 1978	Percent difference
Total	84,455	83,897	0.7
Mining	699	686	1.9
Construction	3,733	3,675	1.6
Manufacturing	20,122	19,995	.6
Transportation and public utilities	4,804	4,759	.9
Wholesale and retail trade	18,878	18,801	.4
Finance, insurance, and real estate	4,623	4,577	1.0
Services	15,870	15,678	1.2
Government	15,726	15,726	0

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 L 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 M 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 N presents the average percent revisions of the five most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table N and for individual industries with the specified number of employees in table O. 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 most recent benchmark revisions) of differences between final estimates and benchmarks are presented in table O.

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 re-

Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1978¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	161,800	33,453,000	40
Mining	2,100	268,000	38
Construction	15,800	636,000	17
Manufacturing	45,800	11,268,000	56
Transportation and public utilities:			
Railroad transportation (ICC)	39	471,000	91
Other transportation and public utilities ..	7,200	2,093,000	49
Wholesale and retail trade	39,500	3,232,000	17
Finance, insurance, and real estate	10,600	1,701,000	37
Services	23,900	3,104,000	20
Government:			
Federal (Civil Service Commission) ²	4,600	2,725,000	100
State and local	12,300	7,955,000	61

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 BLS by the Office of Personnel Management. State and area estimates are based on a sample of 3,700 reports covering about 55 percent of employment in Federal establishment.

Table M. Approximate size and coverage of BLS labor turnover sample, March 1978

Industry	Employees	
	Number reported	Percent of total
Total	10,222,680	47
Manufacturing	9,345,940	46
Mining ¹	186,560	21
Telephone communication....	698,980	72

¹ June 1978 data used due to strike in March.

ceived. Table P presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

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

[In percent]

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.2		
Total private .....	.3	0.1	0.2
Mining	1.3	.5	.5
Contract construction	1.3	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.3	.1	.1
Nondurable goods .....	.5	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.2	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government ³ .....	.1	—	—

¹ The average percent revision in employment for the 1969-71, 1974 and 1978 benchmarks.

² Relative errors relate to March 1971 data.

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

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

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	0.9	1.5
100,000	4,400	.7	1.1
200,000	7,100	.5	.9
500,000	15,200	.4	.8
1,000,000	17,100	.3	.5
2,000,000	28,500	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

Table P. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISION		
Total nonagricultural employment	83,000	75,000
Mining	8,000	5,000
Contract construction	32,000	30,000
Manufacturing	32,000	36,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries ..	2,500	2,500
Transportation and public utilities ...	20,000	15,000
Wholesale and retail trade	29,000	27,000
Finance, insurance, and real estate ...	8,000	8,000
Services	35,000	35,000
Government	43,000	37,000
DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATES		
50,000	300	400
100,000	700	700
200,000	1,100	1,100
500,000	3,900	4,100
1,000,000	3,800	3,900
2,000,000	6,000	6,100

NOTE: Division level data are based on differences from January 1972 through June 1979. Detailed industry data are based on differences from August 1978 through June 1979.

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 nonfinancial corporations, in which there are no self-employed.

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

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

U=total entrant unemployment

E=total employment

X=total experienced unemployment

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

3. *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 1978, 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 1979 *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 June 1979. Seasonal factors to be used for current adjustment appear in the October 1979 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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